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PRICETOWN I UNDERGROUND COAL GASIFICATION
FIELD TEST - OPERATIONS REPORT

MASTER

A. K. Agarwal

P. W. Seabaugh

R. E. Zielinski

Monsanto

MOUND FACILITY

Miamisburg, Ohio 45342

operated by

MONSANTO RESEARCH CORPORATION

a subsidiary of Monsanto Company

for the

U. S. DEPARTMENT OF ENERGY

Contract No. DE-AC04-76-DP00053

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1. TEST NARRATIVE

1.1 INTRODUCTION

The United States Department of Energy (DOE) is conducting an ongoing program in underground coal conversion to develop the technology for the recovery of energy from coal through in-situ conversion processes. Mound Facility is supporting the Morgantown Energy Technology Center in developing the technology for the in-situ recovery of energy from the thin seam, swelling eastern bituminous coal resources. Primary emphasis in the program has been placed on underground coal gasification (UCG) to produce a low BTU gas with a heating value less than 200 BTU/ft³ for use in generating electric power or a medium BTU gas with a heating value between 200 and 300 BTU/ft³ for use in chemical synthesis or upgrading to a pipeline quality gas.

In general, the UCG process involves gasifying coal in-situ to produce energy in the form of combustible gas and sensible heat. Environmentally, underground coal is preferable, because hydrogen sulfide rather than sulfur dioxide is the predominant form of sulfur produced. The small amounts of hydrogen sulfide produced can be treated by hot carbonate scrubbing, but no effective commercial means for removal of sulfur dioxide exists.

The successful development of a viable process for bituminous coal would be most significant since an estimated 900 billion tons of this resource is located within or near regions of the United States that contain large populations in high energy use centers. Approximately 200 billion tons, which is comparable to the estimated mineable reserves, is targeted for recovery by UCG since the coal seams are too deep and too thin to be mined economically. In addition, a large fraction of those seams that possibly could be mined exhibit a high sulfur content that severely limits the use of the coal because of stringent environmental regulations.

Recently, an initial field test of UCG in this higher ranked bituminous coal was successfully completed at Pricetown, Wetzel County, West Virginia. This first test, Pricetown I, utilized the linked vertical well technology, with air injection, which was shown successful in the recovery of the western thick seam, lower ranked sub-bituminous resources.

Pricetown I was a relatively small scale field test designed to provide information concerning the in-situ characteristics of the high volatile A, Pittsburgh coal seam and adjacent strata; to demonstrate pneumatic linkage between vertical wells; to demonstrate a reliable method of igniting an eastern bituminous coal seam at depth; to investigate the feasibility of controlled reverse combustion linkage (RCL) over varying distances; to perform forward gasification for the purpose of defining sweep width, resource recovery efficiency, thermal recovery efficiency, and product composition; to develop surface and subsurface instrumentation and process equipment for effective and "real time" process control; and to assess and evaluate environmental concerns resulting from in-situ gasification. Basic data relating to subsurface hydrology, injection pressure, air acceptance test, linkage paths, system plugging, gasification, gas quality, and the effect of independent variables on the gas composition, were acquired in real time.

The Pricetown I field test was successful, and the following objectives were met:

1. Pneumatic linkage between vertical wells demonstrated.
2. Reliable method of ignition for the deep bituminous coal seams demonstrated.
3. Reverse combustion linkage successful over varying distances.
4. Gasification phase successful.
5. Instrumentation performed satisfactorily and real-time data acquired.

1.2 TEST FACILITY DESCRIPTION

Figure 1 illustrates the subsurface location of the three categories of deep wells {production/injection (P/I) wells, monitor (M) wells, and hydrology (H) wells} that were drilled to provide access to the coal seam. The three P/I wells were completed (with 6-in. I.D. casing) to the lower one-third of the coal seam and each well was designed for both air injection and gas production. Each of the four M wells were grouted to the surface after a gas sampling canister was positioned in the middle of the coal seam. Ten thermocouples were positioned in each well with four thermocouples located in the coal seam, two in the underburden, three in the overburden, and one near the surface (Figure 2). The two hydrology wells were completed into the coal seam to permit the extraction of in-seam water samples to monitor water quality and migration of pollutants. The HQ well was also used to extract over 900 ft of core for analysis during site characterization. Three shallow wells, which are not shown, were also drilled at the site to monitor water quality of the near surface aquifers.

Figure 3 illustrates the Pricetown I UCG Process System. Controlled high pressure/low volume (HP/LV) air for RCL or low pressure/high volume (LP/HV) air for gasification was injected into a selected P/I wellhead. Product gases passed through a tar knockout pot to reduce the concentration of liquids and particulates before passing through a gas flow measuring manifold. A tar knockout pot bypass line was provided to ensure continued gas flow in the event of tar pot plugging and to provide ports for particulate sampling. Just prior to the incinerator, an automatic backpressure control valve governed the pressure of the production wellhead. Before exhausting to the atmosphere, the product gases were burned in an incinerator.

The surface and subsurface instrumentation and the analytical equipment were designed for continuous monitoring of the process variables. All data were directed into a computer-based automatic data acquisition and control system that was capable of acquiring, storing, processing, and displaying data; controlling selected valves; performing parameter limit checks; and issuing status in real time. A brief description of the Field Test instrumentation, gas analysis system, and data acquisition system follows.

. TC9

. TC8

. TC7

. TC6	Coal
	Shale

. TC5

. TC4 Coal Seam

. TC3

. TC2

. TC1

(A) Monitor Well M-1, M-2 and M-3

. TC9

. TC8

. TC7	Coal Seam
	Shale

. TC6

. TC5 Coal Seam

. TC4

. TC3

. TC1

. TC2

(B) Monitor Well M-4

FIGURE 2

Locations of the Thermocouples in the Monitor Wells

1.2.1 Instrumentation

The instrumentation for this UCG process consisted of both surface and subsurface instruments. The surface instrumentation provided flow, pressure, and temperature monitoring in addition to process controls and alarms for the high- and low-pressure air systems, the product gas, and incinerator systems. These instruments were monitored and controlled on a modular designed control panel with a sixteen point annunciator, four indicating controllers, twelve signal indicators, and two three-pen recorders. The measurements important had been integrated into the automatic data acquisition system to provide real-time data for process control, trend analysis, and system alarms.

The subsurface instrumentation for the Pricetown I field test was designed to obtain diagnostic information about the UCG process. This information was obtained by the emplacement of thermocouples and gas sampling canisters quantitatively positioned and grouted in place in four monitoring wells. Each of the four instrumentation wells contained ten thermocouples, with four thermocouples in the coal seam, three in the overburden, and two in the underburden. The tenth thermocouple probe in each monitor well was located 15 ft below the surface to measure ambient conditions. Details have been described elsewhere. (1) Each thermocouple probe can be measured approximately every 20 sec, if desired, under normal operating conditions. This frequency of measurement did provide sufficient data to characterize the moving burn front unless the probe was destroyed by excessive temperature or movement of the strata surrounding the probe. The real-time extraction of gas samples from the monitoring wells did aid in understanding the process. Gas samples were collected in canisters located in the midseam region of each of the monitoring wells. The canisters were constructed of perforated steel, filled with alumina beads. Gas sampling tubes were Dekron insulated and were maintained at 250°F to minimize the condensation of the products coming out of the monitoring wells. Pressure transducers were located in the gas sampling lines so that downhole pressures could be monitored when gas samples were not being acquired.

1.2.2 Gas Analysis System

The identification of product gas and downhole gas compositions in real time greatly enhanced the process characterization and provided positive process control. The gas analysis was performed by equipment consisting of a mass spectrometer, two process gas chromatographs, and a chemoluminescent NO/NO_x analyzer. The gas chromatographic analyses were accomplished by two independent synchronously operated gas chromatographs. The components determined by GC-1 were hydrogen, carbon dioxide, water, methane, carbon monoxide, nitrogen, and argon/oxygen. The components determined by GC-2 were hydrogen sulfide, carbonyl sulfide, propane, ethane, and sulfur dioxide. Table 1 lists the components and their appropriate ranges for each GC.

Because of the long cycle, the gas chromatographs could not monitor the rapid changes that did occur nor effectively address multiple gas streams in a timely manner. The mass spectrometer was used to accurately control and characterize the process. Several hundred updates for each component were possible in the time required for one complete chromatographic analysis (0-90% response for the spectrometer typically required less than 1 sec). The gas components which were measured with the mass spectrometer included nitrogen, oxygen, carbon dioxide, hydrogen, methane, carbon monoxide, hydrogen sulfide, and argon. Table 2 lists the appropriate range for these gases.

TABLE 1

GAS CHROMATOGRAPHIC ANALYSIS RANGE

<u>GC1</u>		<u>GC2</u>	
<u>COMPONENT</u>	<u>RANGE</u>	<u>COMPONENT</u>	<u>RANGE</u>
NITROGEN	0-100%	ETHANE	0-2%
OXYGEN + ARGON	0-25%	PROPANE	0-2%
CARBON MONOXIDE	0-20%	BUTANE	0-2%
CARBON DIOXIDE	0-20%	CARBONYL SULFIDE	0-1%
HYDROGEN	0-25%	SULFUR DIOXIDE	0-3%
METHANE	0-50%	HYDROGEN SULFIDE	0-3%
WATER	0-20%	HYDROGEN CYANIDE	0-2%

TABLE 2
MASS SPECTROMETER ANALYSIS RANGE

<u>COMPONENT</u>	<u>RANGE</u>
HYDROGEN	0-100%
NITROGEN	0-100%
METHANE	0-100%
CARBON MONOXIDE	0-20%
OXYGEN	0-100%
HYDROGEN SULFIDE	0-10%
ARGON	0-2%
CARBON DIOXIDE	0-20%

The analytical instruments were time-shared around the various gas sources by control valves, under the direction of the computer. Additionally, the mass spectrometer instrument was directed by the computer through valving internal to the instrument to analyze either the product gas or the gas from the ring manifold (one of the test wells). The arrangement of the automatic valving was such that any gas source could be connected to either the two GC's or the mass spectrometer. The NO_x analyzer was not time-shared.

Time-sharing logic was built around the operation of the mass spectrometer. The mass spectrometer stream switching was at the rate of about once every 2 1/2 min, toggling alternatively between test well gas and product gas. The overall cycle time, assuming four test wells, was 20 min.

The two GC's, operated in parallel, analyzed the particular gas source having the highest interest, as determined by the computer from the mass spectrometer analysis. Maximum utility was derived from these two GC's, which had approximately a 15 min analysis cycle time, by basing the selection of the source gas on the relatively high-speed mass spectrometer analysis.

Two different types of sample cleanup systems were employed in the gas analysis system. Gas from the monitor wells entered the electrically traced sample lines maintained at 250°F. The hot sample lines served to vaporize the condensibles brought out of the well with the sample gas. The monitor well gas was passed through a series of micron-sized filters before it entered the gas chromatographs; two cold finger type condensers lowered the dewpoint of this gas before it was analyzed by the mass spectrometer.

Product gas was heavily contaminated and required cleanup before it could be analyzed. A process simulation computer program served to design a three-stage cleanup system for the product gas. The first two stages were maintained in ovens and were similar in design. The product gas entered the first stage at elevated temperatures and the first stage oven was maintained at 350°F. The gas entered the oven and was cooled by a condenser coil; afterwards it passed through an electrostatic precipitator that removed particulates and mists. The gas was further cleaned by passing it through a micron-sized filter to remove any remaining particulates. The gas exited from the first stage and was transported via hot lines (~375°F) to the second stage. The second stage was identical to the first except that the oven temperature was set at 200°F to remove the lighter organics from the gas chromatographs. The gas included all condensibles with dewpoints lower than 200°F. The third stage system was a cold finger condenser system designed to lower the dewpoint of the gas to 43°F, thus removing liquids from the mass spectrometer and NO_x analyzer gas stream.

The probe used to withdraw the gas sample from the product gas stream was 3/8 in. O.D. stainless steel. Ten-1/8 in. holes were drilled in the downstream side of the probe to draw the sample from the high velocity gas flow and minimize particulate flow into the sample system. The probe was heat traced to maintain a minimum temperature of 400°F to prevent condensation.

1.2.3 Automatic Data Acquisition and Control System

The general approach used for the data acquisition and control system was that of distributed processing. The basic system was comprised of a PDP 11/V03

host minicomputer interfaced to four satellite microprocessors with floppy disks. These microprocessors provided communication with the two gas chromatographs, the mass spectrometer, the NO_x analyzer, and the two DORIC temperature and gas train instrumentation data loggers. The supporting peripheral equipment included a graphics terminal, a dual disk system, a flatbed plotter, a Dec-writer, a hard copy unit, and a mine-track tape system (Figure 4).

The system was capable of acquiring, storing, processing and displaying data; controlling selected valves; performing limit checks; and issuing status reports automatically and in real time during the course of the experiment. Temperature, pressure, flow, and gas analysis data were collected and stored in such a manner that needs for display of current information and historical purposes were met. Because the host computer operated in both a foreground and background mode, hard copy exception reports and status reports were available on demand. The data acquisition component ran the foreground task, giving it priority over all other operations. Data reduction, the second component, ran as a background task whenever data were not actually being collected.

The graphics module provided 16 types of graphs for variables or combination of variables acquired from the downhole and surface instrumentation. All plots on the graphics terminal were for the most recent 30 data points. For example, if hourly averages of temperatures were to be displayed, then the last 30 hourly temperature averages were plotted. Because the acquisition rate can be event driven, the possibility exists that any given set of 30 data points might include a mix of time intervals. The automatic scaling of the axis or axes reflected this for the viewer. Should a gap(s) occur in a data set, this gap likewise was reflected in the plot.

1.3 TEST OVERVIEW

The test consisted of six phases: Preignition tests, inseam ignition, reverse combustion linkage, link path enhancement, gasification, and test termination and post-test data monitoring.

Preignition tests were made to define the reservoir and flow patterns in the coal seam and to evaluate the pressure requirement for the linkage phase and air acceptance by the coal seam. After the preignition tests, the coal seam was ignited in the P/I-2 well and the flame was brought to P/I-3 well to complete the initial RCL. Next, the flame front was returned to the P/I-2 well and later the link was relayed to the P/I-1 well. Since system conductance was not sufficient, at that time, to carry out gasification, a link enhancement was performed to enhance the flow path permeability. Here conductance has been defined as:

$$C = \frac{Q_{\text{Prod.}}}{(P_{\text{Prod.}})^2 - (P_{\text{Inj.}})^2}$$

Where C = Conductance, scfm/psia²
 Q_{Prod.} = Production flow rate, scfm
 P_{Prod.} = Production pressure, psia
 P_{Inj.} = Injection pressure, psia

With the establishment of sufficient permeability in the coal seam, gasification was successful. Tables 3 and 4 provide data summaries of the Field Test.

1.4 DIFFERENT PHASES OF THE TEST

As mentioned before, this test consisted of the following phases: Pre-ignition Tests, Inseam Ignition, Reverse Combustion Linkage, Link Path Enhancement, Gasification, Test Termination and Post-Test data Monitoring. Discussions regarding these phases are given in the following sections:

1.4.1 Preignition Tests

On April 19, 1979, the P/I-3 and P/I-2 wells were pressurized to 200 psig and the P/I-1 well to 275 psig. On April 20, pressure in the P/I-1 well was raised to 550 psig, and the P/I-3 and P/I-2 wells were shut in at 200 psig. A pressure of 200 psig was maintained initially in P/I-2 and P/I-3 so that the water driven out of the P/I-1 well would not enter into the other two wells. During the first 92 hr, the pressure in the P/I-2 well increased at the average rate of 3.3 psi/hr (200 to 400 psig); however, there was no significant change in the pressure at the P/I-3 wellhead. There was an increase in the pressure of the hydrological well, H-1, at an average rate of 2.14 psi/hr (0 psig to 194 psig). During this period, pressure in the P/I-1 well varied between 500 and 550 psig, and it was essentially devoid of water at the end of this period.

The monitor wells also showed increases in pressure with time in the following order: M-1, M-2, M-4, and M-3. Pressure in the M-1, M-2, M-4, and M-3 wells increased at the rate of 13.57, 5.5, 2.7, and 0.5 psi/hr, respectively. Figure 5 shows the pressure trends of the M-1, M-2, M-3, and M-4 wells. Figure 6 shows the pressure trends for P/I-1, P/I-2, P/I-3, H-1, and HQ wells for a three-week period.

These pressure trends, indicated that there was a strong link between the P/I-1 and P/I-2 well. There was also a possibility of multiple linkage or fracture in the coal seam. As the highest pressure increase with respect to time had been reported in the M-1 monitoring well, a strong link was expected to go via the M-1 well. The results of these tests also established that there was communication between the P/I-1 and H-1 wells, and that there was a strong link between the H-1 and HQ wells.

On May 11, 1979, coal seam pressures were released and the wellheads on P/I-2 and P/I-3 were removed. The coal seam ignition charges were then lowered to 150 ft above the coal seam where they remained until being lowered into the coal seam immediately before ignition. After the wellheads were replaced, the coal seam was pressurized to 600 psig in preparation for air acceptance and flow tests.

Flow testing was initiated on May 16, 1979, following a two-day period during which air was injected in the Production/Injection wells at 600 psig. The initial conditions for the flow test were that P/I-1 was shut in at 600 psig, a back pressure of 100 psig was maintained at P/I-3 and air was injected at 650 psig in P/I-2. After 12 hr in this condition, the pressure at

TABLE 3

SUMMARY OF ENERGY PRODUCTION DURING THE TEST

MODE	<u>DURATION</u> (DAYS)	<u>AIR INJECTION</u> (MCF)	<u>GAS PRODUCED</u> (MCF)	<u>AVERAGE HEATING VALUE</u> (BTU/SCF)	<u>ENERGY PRODUCTION</u> (MMBTU)
RCL	44.2	1,748	2,536	249	631
ENHANCED LINKAGE	61.9	11,275	17,085	221	3,774
GASIFICATION	<u>11.8</u>	<u>21,373</u>	<u>34,136</u>	<u>125</u>	<u>4,267</u>
TOTAL	117.9	34,396	53,757	161	8,672

TABLE 4
SUMMARY OF GAS COMPOSITION DURING THE TEST^A

<u>MODE</u>	<u>H₂</u>	<u>CH₄</u>	<u>CO</u>	<u>CO₂</u>	<u>N₂</u>	<u>H₂S</u>
RCL	10.5	19.5	6.6	11.6	51.4	1.5
ENHANCED LINKAGE	10.8	15.0	11.5	8.3	53.6	1.4
GASIFICATION	11.2	3.7	16.6	8.9	58.2	1.1

A IN PERCENT

P/I-2 was increased to 700 psig. When flow was not detected in this configuration after 14 hr, the back pressure at P/I-3 was reduced to 50 psig. This served to increase the pressure differential between P/I-2 and P/I-3, and after 18 hr an initial flow of 3.5 scfm was detected from P/I-3.

When the flow was detected at P/I-3, the back pressure at P/I-3 was increased to 100 psig to minimize the possibility of water influx; concurrently with the change in back pressure, the shut in pressure at P/I-1 was increased to 750 psig, and the air injection pressure at P/I-2 was also increased to 750 psig. After 24 hr in this condition, the shut-in pressure at P/I-1 was increased to 800 psig, and the air injection pressure at P/I-2 was increased to 800 psig. This condition was maintained for 40 hr. During this entire phase of testing, the flow rate from P/I-3 showed positive increases.

During the 40 hr period, positive flow was also detected at all the monitoring wells. These values ranged from 1.35 to 4.20 scfm. The monitor wells M-1, M-2, M-3, and M-4 showed flow values of 4.20 scfm, 1.95, 1.45, and 1.35 scfm, respectively, after 10 hr, 15 min into this period.

Following the 40 hr period, the air injection pressure at P/I-2 was increased to 850 psig. This condition change was immediately followed by a significant increase in air flow from P/I-3.

Figure 7 shows the pressure data for the P/I wells during this phase of the testing. Superimposed on this data presentation are the pressure data for the hydrology wells H-1 and HQ. These pressures increased as the pressure in wells P/I-1 and P/I-2 increased, indicating communication. In fact, if the water levels in H-1 and HQ are taken into account, the downhole pressures in H-1 and HQ come into equilibrium with the pressure at P/I-1 and P/I-2.

Figure 8 is a plot of the flow rate from well P/I-3. The flow rate was increasing when the injection pressure at P/I-2 ranged from 700 to 800 psig. A noticeable change in slope occurred when the air injection pressure was increased to 850 psig.

Argon tracer tests gave information regarding the inseam flow pattern. In the first argon test conducted, air was injected in P/I-2 at 800 psig with P/I-1 shut in at 800 psig and P/I-3 the production well with a 100 psig back pressure. Approximately 100 scf of argon was injected in P/I-2, and approximately 6 hr later an argon response was detected at P/I-3. Figure 9 shows the response curve. The first peak of the curve indicated either response from multiple paths or argon being transported with water and air slugs. Approximately 48% of the injected argon was recovered at P/I-3. About 90% of this (40% recovered) argon proceeded via a major path in a slug flow pattern with a log time of 6 hr. Total elution time was 9.5 hr.

A second test was conducted with air injected in P/I-2 at 850 psig, P/I-1 shut in at 800 psig, and P/I-3 again the production well with a 100 psig back pressure. Monitor well M-4 showed response after 3 hr in a slug flow pattern with a smooth tailing. The response difference between this test and the previous one indicated the possibility of water between the P/I-3 and M-4 wells. It showed that the major link should go from the P/I-2 to P/I-3 well via the M-4 well.

A third argon test was conducted with air injected in P/I-1 at 850 psig, P/I-3 shut in at 700 psig, and P/I-2 the production well with a 100 psig back pressure. Argon recovery was approximately 30%, and a time lag of 6 hr was observed. Total elution time was 9 hr. The response decline curve indicated a void volume somewhere along the pathway.

A fourth argon test was conducted with air injected in P/I-1 at 850 psig, P/I-2 shut in at 720 psig, and P/I-3 the production well with a 100 psig back pressure. The first response was observed after 11 hr with a long tail which resulted in an elution time of 22 hr. Argon recovery was 27%. The response decline indicated a void volume somewhere along the pathway.

A fifth argon test was conducted with air injected in P/I-1 at 800 psig, P/I-3 shut in at 320 psig, and P/I-2 the production well during reverse linkage with a 150 psig back pressure. Argon recovery was 55%, but a time lag of 9 hr was observed with a elution time of 9 hr. This indicated that the air followed a different path this time as compared to the path in the third argon test. The time lag was 1 1/2 times more than the previous time. The response curve was similar to the response curve of the third argon test (indication of a void volume) indicating that part of the path that was followed could have been the same as in the third test.

During these tests, argon recovery ranged between 25 and 55% with a lag time of 6 to 11 hr and a total elution time of 9 to 22 hr. From these data, the initial analytical response times were fixed.

Pressure build-up tests showed that the pressure of 860 psig was critical. When this value was reached, the pressure transducers in the monitoring wells came into equilibrium very quickly at their maximum values, and 24 hr later a nearby fractured gas well, Snodgrass-2 (~ 800 ft on a straight line from P/I-1) showed a consistent, rapid pressure build-up as can be seen from Figure 10. Based upon the above data, the Pittsburgh coal seam at Pricetown can be assumed to be a fractured reservoir.

1.4.2 Inseam Ignition

An attempt to ignite the coal seam in P/I-3 well, with an injection into P/I-2 at 850 psig, was made on June 8, 1979, at 14.35 hr but this attempt did not succeed. The inability to ignite the coal seam may have been the result of water in the P/I-3 well. A second attempt was made in well P/I-2 on June 9, 1979, at 13.30 hr under reverse air flow, with air injection into P/I-3 at 850 psig and gas production from P/I-2 at atmospheric pressure. This attempt was successful. The ignition charge consisted of a 4 in. I.D. 25 ft long burlap bag filled with low-ash wood-charcoal briquets into which three electric squib/fuse assemblies were imbedded. The briquets were soaked in diesel oil to minimize water adsorption and to enhance combustion when the charges were lowered into the coal seam and ignited.

Approximately 3.5 hr after ignition, the mass spectrometer confirmed that combustion gases were being produced. At 16:00 hr, the mole percents of H₂, CH₄, CO, O₂ and CO₂ in the product gas stream were 2.37, 1.20, 2.54, 10.78, and 5.53% respectively. Here it should be noted that, prior to ignition, the product stream consisted mainly of air with some methane.

FIGURE 10
SNODGRASS-2 PRESSURE BUILD-UP

TABLE 6
AVERAGE GAS COMPOSITION DURING THE DIFFERENT PHASES OF THE RCL (%)

<u>MODE</u>	<u>H₂</u>	<u>CH₄</u>	<u>CO</u>	<u>CO₂</u>	<u>N₂</u>	<u>H₂S</u>
RCL-1	8.2	11.6	5.3	10.0	63.3	1.6
RCL-2	11.6	19.9	7.5	12.0	47.7	1.3
RCL-3	<u>7.6</u>	<u>22.0</u>	<u>3.9</u>	<u>10.7</u>	<u>54.1</u>	<u>1.7</u>
TOTAL	10.4	19.2	6.5	11.5	50.7	1.7

Reverse Combustion Linkage

The successful ignition of the coal seam initiated the Reverse Combustion Linkage phase of the test. For this phase, air was injected into P/I-3 at 850 psig, and P/I-2 was used as the production well at a back pressure of 100 psig. In this way the flame front was carried from P/I-2 to P/I-3. This phase of the RCL was called RCL-1. Injection flow and system pressures were automatically controlled and maintained by the instrumentation. Within three days, temperatures in excess of 1200°F were observed in the M-4 well. Nominally, for this RCL phase, the P/I-1 well was kept at 600 psig. However, as a part of the test, the pressure was reduced to 400 psig and then to 200 psig in a step function. This action produced a decline in the in-seam air flow and production flow rate to a considerable extent. Coincidentally with the pressure reduction in the P/I-1 well, a water spike (20 mole %) was recorded by the gas chromatograph. It might be postulated that the pressure in P/I-1 was preventing water from entering the P/I-2 to P/I-3 linkage path.

Figure 11 depicts inflow and outflow for this phase of RCL (RCL-1). It can be seen from this figure that initially inflow was more than outflow and, perhaps, seam saturation was taking place. A nitrogen balance was made for this phase and, as can be seen from Figures 12 and 13, there was nitrogen loss during the first four days, followed by nitrogen gain afterward. This change in the nitrogen balance occurred when the link was in the vicinity of M-4 well. Figure 14 shows the heating value of the gas based on mass spectrometer values. Product gas composition was stable during this period as can be seen from Figure 15. Figure 16 depicts the H_2/CH_4 and CO/CO_2 ratios, which were less than one, signifying a RCL phase. Figure 17 shows CO/H_2 and CO/CH_4 ratios and, as can be seen, both of them track very well. The H_2 and CH_4 are basically the product of devolatilization process with the similar rate-governing processes and are expected to track very well.

The initial linkage path over the 40 ft coal section, from P/I-2 to P/I-3, was completed on June 15, 1979, as indicated by a thermocouple at the bottom of the P/I-3 well and a significant rapid decrease in the injection well pressure. Linkage progressed at an average rate of 10.2 ft/day (the straight line distance between the wells has been increased by 50% to take into account nonlinear paths) with an average air consumption of 4600 ft³/ft of link. The average heating value of the 286 Mcf of gas produced was 165 BTU/CF.

Upon completion of the P/I-2 to P/I-3 link, the air flow was reversed with air injection into P/I-2 and production from P/I-3. This was done to draw the burn front back to P/I-2 and to enhance the permeability of the link. This phase of the RCL was called RCL-2. In the first 10 days of operation, a reduction of product gas flow and an associated injection pressure increase was experienced on seven occasions. In each instance, the restriction was eliminated by reversing the direction of air flow until product gas flow was reestablished, which normally occurred within a few hours, and then returning to the original operating conditions. Analysis of this condition revealed an interesting explanation for the flow pattern changes. It is likely that the flow restriction was in the vicinity of P/I-2 well. There definitely was a restriction in the coal seam near the P/I-2 well and a possible flow restriction in the P/I-2 well itself, but this possibility requires a more comprehensive data review before it can be accepted or discounted. It is likely that multiple, narrow flow channels developed near the P/I-2 well which led to the flow restriction. The narrowness

of these channels resulted in a larger surface area for heat transfer and thus the possibility of tar condensation and oil droplet coalescence. This heat transfer surface could also account for the fast recovery whenever the flow direction was reversed.

Figure 18 depicts inflow and outflow for this phase of RCL (RCL-2). Figure 19 shows heating value of the gas, and the gas composition is shown in Figure 20. The H_2/CH_4 and CO/CO_2 ratios are shown in Figure 21 and Figure 22 shows CO/CH_4 and CO/H_2 ratios. It can be seen from all these figures that after the first 10 days of restricted flow, the process was comparatively more stable.

During the last 15 days of this phase of the operation, the linkage path was effectively developed, and the liquor analyses (presence of light oils described later) suggested that tar condensation was not a problem and the oper-

During the last 15 days of this phase of the operation, the linkage path was effectively developed, and the liquor analyses (presence of light oils described later) suggested that tar condensation was not a problem and the operation

described later) suggested that tar condensation was not a problem. The operation proceeded without incident. This second pass link was assumed to be completed on July 9, 1979, because process effects were observed that were similar to those observed at the completion of the first phase. The magnitude of these effects, however, was much less than those previously observed.

During the last 15 days of operation, the injection pressure was much less than that required previously.

In this second phase of the test approximately 1.1 MMCF of air were injected and a gas production of 1.8 MMCF was observed. The average heating value of the product gas was 261 BTU/CF.

On July 9, 1979, air was injected into well P/I-1 at 850 psig to carry the link from the vicinity of P/I-2 to P/I-1. During this time, production was from the P/I-2 well. This phase of the RCL was called RCL-3. The temperatures in the M-1 well began to increase on July 18, 1979, indicating that the path was near the top of the coal seam. On July 23, 1979, the burn front reached P/I-1 as evidenced by a significant drop in injection pressure at P/I-1. The link from P/I-2 to P/I-1 progressed at an average rate of 6.4 ft/day (assuming a distance factor of 50% as discussed before) with an average air consumption of 3622 ft³/ft of link. The average heating value of the 500 MCF of gas produced was 254 BTU/CF.

Temperature data indicated that the linkage path was established in the upper portion of the coal bed, and the link passed through or in the vicinity of wells M-1 and M-4.

Figure 23 shows injection and production flows for this phase of RCL (RCL-3). It can be seen that like RCL-1 there was seam saturation in the beginning of the phase when the injection flow was more than the production flow. The heating value of the gas increased during the course of this phase (Figure 24). This increase in the heating value is expected because of an increase in the underground reactor volume that resulted in increased residence time and, thus, a greater degree of reactions. This was also reflected in the gas composition plot as

FIGURE 28

Devolatilization Process in Pricetown UCG

shown in Figure 25 where methane increased with respect to time. The H_2/CH_4 and CO/CO_2 ratios were less than expected during the RCL phase and are shown in Figure 26. Figure 27 shows the CO/H_2 and CO/CH_4 ratios for this phase and, as can be seen, this phase was stable.

Tables 5 and 6 give the total energy production summary and average gas composition, respectively, for the different phases of the RCL.

During the RCL phase, high methane concentrations were observed in the product gas; however, such high methane concentrations were not observed in other UCG field tests such as Hanna and Hoe Creek. This high concentration can be attributed to the bituminous nature of the coal. The other UCG tests involved either lignite or subbituminous coals which have less volatile matter, and those tests were run at comparably lower pressures thus affecting the pyrolysis reaction kinetics. The various reasons that can account for this high methane formation are:

1. Bituminous coal contains 40-50% volatile matter. The release of this volatile matter on pyrolysis leads to a high concentration of gaseous products such as H_2 , CO , CO_2 , CH_4 etc., along with tar and light oil. At high temperature, high pressures, and longer residence times, these tars and light oils along with higher hydrocarbons can crack (thermal cracking as well as hydrocracking), thus leading to higher methane formation.

The devolatilization process of the Pricetown UCG is shown in Figure 28. The first stage, where hydrocarbon production is much more rapid and the oxygen content of the fuel decreases more rapidly, involves hydrogenation of coal molecules and occurs during pyrolysis, yielding initially some fraction of ethane, ethylene, aromatics, and other cyclic structures. Successive hydrogenation reactions finally yield primarily methane and require longer residence time.

Subsequent pyrolysis takes place in the presence of high hydrogen partial pressure. When devolatilization occurs in the presence of a gas containing hydrogen at an elevated pressure, in addition to the thermal pyrolysis reaction, coals or coal chars containing volatile matter may exhibit a high transient reactivity for methane formation (2). As a matter of fact, at sufficiently high hydrogen partial pressures virtually all the carbon not evolved during devolatilization can be gasified quickly to methane. The second stage of hydrogenation involves the much slower reaction between hydrogen and the residue from pyrolysis. Rates of this reaction may be appreciable at high enough pressures and hydrogen concentrations, and thus can lead to appreciable methane formation and can be referred to as hydrogasification.

Support for this viewpoint of high methane production is provided by the concurrent tracking of hydrogen sulfide and ethane with the methane content as shown in Table 7.

2. There is also the possibility of a carbon monoxide and hydrogen reaction to form methane as shown below:

3. Based on the nature of the coal and operating parameters, calculations showed that the free methane from the coal seam can account for a maximum of 4-5% of the observed methane, whereas 95-96% of the methane was the result of the other factor mentioned. An upper limit on the free methane content of the coal was calculated by applying a method (3) developed by the U. S. Bureau of Mines for estimating the methane content of the coal in place. The geochemical data

obtained from the core analysis and an assumed value of 0.57 for the ratio of adsorbed gas in wet coal to dry coal, were used to calculate an upper limit of methane approaching 263 ft³/ton.

TABLE 5
ENERGY PRODUCTION DURING THE DIFFERENT PHASES OF THE RCL

PHASE	DURATION (DAYS)	AIR INJECTION (MCF)	GAS PRODUCED (MCF)	AVERAGE HEATING VALUE (BTU/SCF)	ENERGY PRODUCTION (MMBTU)
RCL-1	5.9	276	286	165	47
RCL-2	24.2	1,146	1,750	261	457
RCL-3	<u>14.1</u>	<u>326</u>	<u>500</u>	<u>254</u>	<u>127</u>
TOTAL	44.2	1,748	2,536	249	631

TABLE 7

VALUES OF METHANE, HYDROGEN SULFIDE, AND ETHANE FOR JUNE 26, 1979,
WHICH SHOW CONCURRENT TRACKING AND INDICATE THE HIGH METHANE VALUES
CAN BE ACCOUNTED FOR BY CRACKING OF TARS AND LIGHT OILS.

<u>TIME (HR)</u>	<u>CH₄ (MOLE %)</u>	<u>H₂S (MOLE %)</u>	<u>C₂H₆ (MOLE %)</u>
0000	9.2	0.4	0.48
0100	11.5	0.6	0.54
0200	12.8	0.7	0.60
0300	12.7	0.7	0.60
0400	13.5	0.7	0.60
0500	14.2	0.8	0.66
0600	15.0	0.8	0.70
0700	15.8	0.8	0.68
0800	15.0	0.8	0.70
0900	15.0	0.8	0.64
1000	14.9	0.8	0.64
1100	14.5	0.9	0.64
1200	15.0	0.9	0.64
1300	14.8	0.9	0.70
1400	15.0	0.8	0.62
1500	17.5	0.8	0.60
1600	19.5	0.7	0.72
1700	20.8	0.9	0.80
1800	20.0	1.0	0.86
1900	19.5	1.1	0.96
2000	19.5	1.2	1.00
2100	19.5	1.1	1.05
2200	19.5	1.1	1.05
2300	19.5	1.1	1.05
2400	19.5	1.0	1.05

It was noted that the reduction in the injection and production flow rates resulted in higher concentrations of H_2 , CH_4 , and H_2S . This can be attributed to an increase in system residence time which resulted in increased cracking of tar and oils as well as hydropyrolysis.

Analysis of the Pricetown oil showed a paraffin - naphthene (aliphatics) content of less than 2% indicating that it has much more aromatic character than that collected at Hanna. The aromatic fraction comprised 23-52% of the total oil samples. Phenol concentration ranged from 13 to 25% whereas pyrrole concentrations ranged from 0.40 to 1.11%. The C/H ratio ranged from 10.3 to 13.1, indicating an unsaturated oil. The interesting point about this analysis is the presence of very small amounts of paraffin - naphthene. The oil consisted almost exclusively of aromatics of alkyl-substituted aromatics and aromatics or alkyl aromatics with heteroatoms. Approximately 80% of the oil produced had boiling points of less than 660°F (350°C) with specific gravities near 1.0.

1.4.4. Linkage Path Enhancement

The path established during the RCL phase has insufficient permeability to permit the high flow rates required for efficient gasification. The system conductance was not in the range required for effective gasification (4). Therefore, the HP/LV air compressors were used to inject air into the established linkage paths to carbonize additional coal in and around the paths to increase the permeability. This phase of the test had been designated as Phase-1 of the Linkage Path Enhancement. By August 18, the flow rate through the coal seam began to exceed the capacity of these compressors, 80 ft³/min. Approximately 1.31 MMCF of gas were produced with an average heating value of 184 BTU/ft³ during this Phase-1 of Linkage Path Enhancement.

Figure 29 shows inflow and outflow for the Phase-1 of Linkage Path Enhancement. Figure 30 shows heating value of the gas. Fluctuations in the heating value resulted from changes in the process conditions. The same fluctuation is reflected in the gas composition plot as shown in Figure 31. H_2/CH_4 and CO/CO_2 ratios are shown in Figure 32, and CO/H_2 and CO/CH_4 ratios are shown in Figure 33. Changes in these ratios resulted from changes in process conditions.

The final period of the linkage path enhancement, from August 19, 1979 to September 23, 1979, was conducted with a LP/HV air compressor and is designated as Phase-2. The gasification phase could have been made at this stage, but because of the limited capacity of the compressors, link enhancement was extended to increase the path permeability. During this period air injection was maintained in well P/I-1 with production from P/I-2 or simultaneously from P/I-2 and P/I-3. With the progress of carbonization, the flow paths enlarged and permitted higher injection flow rates. During this period, the average air injection flow rate increased from 120 ft³/min (3.4 M³/min) to 176 ft³/min with a corresponding increase in production flow rate of 220 ft³/min.

Figure 34 shows inflow and outflow for the Phase-2 of linkage path enhancement and, as can be seen from these plots, inflow and outflow were quite steady. As shown in Figure 35, the heating value of the gas was also stable during this period and, in spite of the comparatively high flow rates, a high heating value was maintained. Figure 36 depicts the gas composition. Figure 37 shows the H_2/CH_4 and CO/CO_2 ratios. The CO/H_2 and CO/CH_4 ratios are depicted by Figure 38. All three figures show steady operation, and the ratios show somewhat of an increase in percent gasification but primarily devolatilization.

On September 2 and 3, 1979, it was found that the reduction in back pressure to 10 psig led to increased injection and production flow rates with resulting decline in CH₄, H₂, CO, and H₂S concentration. These declines can be attributed to the cracking. Reduced back pressure can also lead to water intrusion which will also result into channel cooling and less pyrolysis. Temperature declines indicated by the thermocouples can be the results of water intrusion. Hence, water intrusion and residence time both could have affected the product gas composition.

The effect of residence time on the product gas composition was also observed later. On September 14, 1979, there was a decline in the injection and production flow rates which resulted in an increase in the CH₄ concentration because of more pyrolysis.

On September 7, 1979, the thermocouple data for the M-4 well indicated two paths near M-4 well. One path was expected to go via TC5 and TC6, as observed previously and the other via TC8 and TC9. Conduction effects were observed at TC7.

On September 13, 1979, a process change was made so that gas could be produced from two wells, i.e., P/I-2 as well as P/I-3 with injection in the P/I-1 well. This change resulted in an air injection flow rate increase by a factor of 1.7 and an increase in production flow rate by a factor of 1.5. This increase is consistent with multiple flow path development. There was a change in the gas composition as the concentrations of H₂, H₂S, and CH₄ were reduced. This can be attributed to less cracking, which resulted from the comparatively colder flow channels from P/I-1 to P/I-3 compared to the flow patterns from P/I-1 to P/I-2. As the channels heated up H₂, CH₄, and H₂S gradually increased as indicated by the gas composition on September 13 and 14. Thermocouple data indicated a rise in the M-4 temperatures. Thermocouples TC5, TC7, TC8, and TC9 showed appreciable temperature increases ranging from 25°F to 60°F. Similar effects were observed on September 22 when P/I-2 was used as a production well. During this process experiment, it was found that the flow resistance between P/I-1 and P/I-2 was of the same order of magnitude as the flow resistance between P/I-1 and P/I-3. The system conductance of the P/I-1 to P/I-2 was 0.00195 scfm/psia² whereas system conductance of the path P/I-1 to P/I-3 was 0.00230 scfm/psia². This shows that the P/I-1 to P/I-3 path had less flow resistance compared to the P/I-1 to P/I-2 path and is consistent with the multiple flow pattern development.

There was a consistent decline in the product flow rate starting on September 9, 1979, when it reached its maximum value of 670 ft³/min. By September 23, 1979, the flow rate had deteriorated to 390 ft³/min, despite efforts to regain the higher flows by shocking the system by pressure cycling. At this point, the HP/LV compressors were brought back on line to inject air at higher pressure, first into P/I-2 and then simultaneously into P/I-2 and P/I-3, with production from P/I-1. After 2 hr, the injection pressure in P/I-2 had increased to 675 psia, and production flow began to deteriorate. Air injection was then initiated in wells P/I-2 and P/I-3 simultaneously and, abruptly, the injection pressure decreased to 175 psia, and the pressure differential through the link decreased to 50 psia. Moreover, the hydrogen and carbon monoxide concentrations in the product gas increased to 55% and 20%, respectively. Perhaps some water was being forced in the link zone, resulting in the carbon-steam reaction. This is further supported by a temperature drop in the M-2 thermocouples. Perhaps some tar was also forced towards P/I-1 and was burned. Both of these phenomena would result in a decrease in the resistance present in the flow path.

After approximately 4.5 hr, the LP/HV compressors were brought back on line to resume air injection into P/I-1 with production from P/I-2. At this point the link, immediately accepted the full flow capacity of the compressor, and the product gas composition indicated the start of full-scale gasification.

Tables 8 and 9 give total energy production summary and average gas composition respectively for the different phases of the Linkage Enhancement Phase.

The system conductance from the September 9 to September 23 period along with the CO/CO₂ ratio and CH₄/H₂ ratios are given in Table 10. A sharp change in conductance, CO/CO₂ ratio, and CH₄/H₂ ratios can be observed as the mode of operation changed from enhanced linking to gasification.

During the link enhancement phase, the C/H ratio gradually increased with the highest C/H ratio occurring on the final days before gasification. The oil was gradually increasing in aromatic character during this period as depicted in Figure 39. Approximately 80% of the oil produced has boiling points of less than 660°F with a specific gravity near 1.0.

1.4.5. Gasification

Gasification of the coal seam began with an increase in the conductance value to 0.0765 scfm/psia². It should be noted that a minimum value of conductance to perform gasification was predicted to be 0.02 scfm/psia² in an earlier publication (4) prior to the test.

The gasification process contained as a stable controlled process from September 23, 1979, until October 5, 1979. During this period, approximately 34.1 MMCF of a combustible gas with an average heating value of 125 BTU/ft³ was produced. The average injection and production well head pressures were 315 psia and 90 psia, respectively. Production flow rates averaged 362 MM BTU/day. It is estimated that from 550 to 800 tons of coal were affected during the gasification process depending upon the resource recovery efficiency.

Figure 40 depicts injection and production flow rates for the gasification phase. Figure 41 shows the heating value plot, and gas composition is shown in Figure 42. As can be seen, gas composition was very stable during the gasification period. Figure 43 shows H₂/CH₄ and CO/CO₂ ratios and, as can be seen, the CO/CO₂ ratio was more than one which is in sharp contrast to the ratio in the RCL phase. The H₂/CH₄ ratio was also greater than or nearly equal to one, a significant change from the RCL phase of linkage enhancement phase. Figure 44 depicts the CO/CH₄ ratio. The CO/CH₄ and CO/H₂ ratios during this phase differed markedly from those in the RCL or linkage enhancement phase.

With the change in the process mode from enhancement linkage to gasification, a significant change in gas composition and ratios on September 23, 1979, was observed. With an increase in flow rate, the H₂, CH₄, and H₂ S in the product gas decreased sharply along with the CO₂ whereas CO increased. The CO/CO₂ ratio increased to 2.48 (from 0.48), and the CH₄/H₂ ratio dropped to 0.16 (from 1.22), signifying the start of the gasification phase. There was a change in the H₂/CO ratio which also decreased to 0.28 from 1.95. During the gasification phase high temperature favors the formation of CO from the equilibrium standpoint.

TABLE 8
ENERGY PRODUCTION DURING THE DIFFERENT PHASES
OF THE LINKAGE PATH ENHANCEMENT

<u>MODE</u>	<u>DAYS DURATION (DAYS)</u>	<u>AIR INJECTION (MCF)</u>	<u>GAS PRODUCED (MCF)</u>	<u>AVERAGE HEATING VALUE BTU/SCF</u>	<u>ENERGY PRODUCTION (MMBTU)</u>
ENHANCED LINKAGE (PHASE 1)	26.6	1,261	1,312	184	241
ENHANCED LINKAGE (PHASE 2)	<u>35.3</u>	<u>10,014</u>	<u>15,773</u>	<u>224</u>	<u>3,533</u>
TOTAL	61.9	11,275	17,085	221	3,774

TABLE 9
AVERAGE GAS COMPOSITION FOR THE DIFFERENT PHASES OF THE ENHANCED LINKAGE PHASE (%)

MODE	<u>H₂</u>	<u>CH₄</u>	<u>CO</u>	<u>CO₂</u>	<u>N₂</u>	<u>H₂S</u>
ENHANCED LINKAGE (PHASE-1)	10.1	13.0	6.3	13.4	55.8	1.5
ENHANCED LINKAGE (PHASE-2)	<u>10.8</u>	<u>15.1</u>	<u>11.8</u>	<u>7.9</u>	<u>53.0</u>	<u>1.4</u>
TOTAL	10.7	14.9	11.4	8.3	53.3	1.4

TABLE 10
SYSTEM CONDUCTANCE, CO/CO₂ RATIO, AND CH₄/H₂ RATIO FROM
SEPTEMBER 9 TO SEPTEMBER 23 PERIOD

DAY	SYSTEM CONDUCTANCE (SCFM/PSIA ²)	CO/CO ₂ RATIO	CH ₄ /H ₂ RATIO
SEPTEMBER 9	0.00563	0.566	1.71
SEPTEMBER 10	0.00600	0.59	1.71
SEPTEMBER 11	0.00600	0.63	1.71
SEPTEMBER 12	0.00410	0.58	1.80
SEPTEMBER 13	0.00370	0.59	1.59
SEPTEMBER 14	00.00371	0.68	1.43
SEPTEMBER 15	0.00343	0.64	1.55
SEPTEMBER 16	0.00326	0.65	1.59
SEPTEMBER 17	0.00297	0.47	1.55
SEPTEMBER 18	0.00349	0.54	0.91
SEPTEMBER 19	0.00316	0.54	0.95
SEPTEMBER 20	0.00308	0.48	0.91
SEPTEMBER 21	0.00394	0.69	0.92
SEPTEMBER 22	0.00248	0.48	1.22
SEPTEMBER 23	0.0765	2.14	0.31

FIGURE 39
Tar and Light Oil Analysis During the Test

At the same time, more CO_2 is reduced to CO because of high temperatures. High flow rates lead to high heat transfer coefficients and thus higher heat transfer from coal to the gas, and thus to high gas temperatures. The gas film diffusion coefficient also increases with temperature, thus leading to the higher reaction rates.

The effect of back pressure was noted on September 24, 1979. An increase in back pressure from 10 psig to 50 psig and 75 psig, led to higher CH_4 , H_2 , and CO concentrations. Increasing back pressure led to more residence time and, hence, more cracking of tar and oils, resulting in high CH_4 , H_2 , and CO concentrations. The same kinds of effects were observed during RCL and the enhanced linkage mode.

There was restricted flow on September 25, 1979, at 2000 hr that led to a decline in the temperature observed at TC5, 6, and 7 in MI-1; however, the temperature recovered after approximately 10 hr. Surprisingly, temperatures in M-2 well were always increasing. The TC7, 8, and 9 in the M-2 well showed specific activity. This activity started at 1200 hr, and there was a sharp upward trend the following day. The TC7, 8, and 9 in the M-2 well observed temperatures between 1000 and 1400°F. The highest temperatures increase noted by the M-2 well thermocouples was approximately 1000°F. It seems that the coal seam was gasified to the MI-2 well as indicated from the thermocouple responses. There was a decline in the temperatures of the M-3 well during this period, and the trend was just the reverse of the trend observed in the M-2 well.

On September 28, 1979, an increase in back pressure to 100 psig again led to increased H_2 , CH_4 , and CO as expected from residence time effects mentioned earlier. On October 1, 1979, well P/I-1 was shut in, thus providing longer residence time for the outlet gas. This resulted in more pyrolysis as indicated by the H_2 , CH_4 , and H_2S content of the gas. Afterwards wells P/I-2 and P/I-3 were also shut in and, after approximately 5.5 hr of this unsteady state of operation, all the wells were brought back to their normal operating condition. The gas composition returned to within 90% of its original value.

On October 5, the P/I-2 well was closed for gasification from P/I-1 to P/I-3, resulting in a sudden decline in the injection and production flow rates (injection flow rate decreased from 1180 scfm to 16 scfm). After approximately 1 hr, P/I-2 was also opened, but the flow did not recover to its original value and the air injection averaged approximately 255 scfm. It appears that there were significant amounts of tar in mist form, and closing P/I-2 might have led to coalescence of the tar and oil and the eventual plugging of some constrained section, resulting in reduced flow. There was a significant change in the gas composition when the back pressure was changed from 120 to 25 psig. Closing of the P/I-2 well for an hour led to a decline in the injection flow rate by a factor of 5 which led to an increase in the residence time by a factor of 5. This residence time increase leads to more tar pyrolysis and reactions going towards completion. In fact, H_2 , H_2S , and CO_2 increased dramatically which is normally expected. Reductions in temperature, as shown by the thermocouples, will favor methane formation due to changes in the thermodynamic equilibrium. Intrusion of water is also expected and will lead to more H_2 via the carbon steam reaction:

This CO can again react with H₂O via the water gas shift reaction, which is thermodynamically highly favorable at 1800°F in the absence of a catalyst and can take place at lower temperatures in the presence of a catalyst, thus leading to more H₂ as well as CO₂.

Changes in the gas composition were the result of residence time, back pressure and water intrusion. That the carbon-steam reaction was responsible for the decline in CO and H₂ concentration was again confirmed on October 6, 1979. Roughly a 1 mole decline in CO was followed by a 1 mole decline in the H₂. Here it should be noted that the CH₄ and H₂S did not change appreciably and hence, this was not the result of pyrolysis effects. It appears that some water intrusion also occurred in the coal seam on October 5, 1979.

System conductance continued to decline after October 4, 1979. By October 8, system conductance had dropped down to 1.4% of its October 4 value. On October 5, the CO/CO₂ ratio also decreased (from 1.95 to 0.53), thus signifying the end of the gasification phase. System conductance, the CO/CO₂ ratio, and the CH₄/H₂ ratio are shown in Table 11. It can be observed from this table that the system conductance dropped below 0.02 c/psia², product gas composition shifted to the values similar to the RCL phase and in a very good agreement with the pretest predictions as reported earlier (4).

Monitor well M-1 thermocouples indicated high temperatures (1400-2700°F). First, TC4, 5, 6, 7, 8, and 9 showed high temperatures, and then the gasification front moved downward as observed from an increasing temperature progression to TC3, 2, and 1; in that order. This shows that with thin seams, in spite of the high link situation, the underlying coal can be gasified. The M-2 thermocouples, TC5, 6, 7, 8, and 9, indicate a steep rise in the temperature during gasification. The TC6-, 7, 8, and 9 closely followed each other, whereas temperature in the TC5 increased later. The same kind of phenomena occurred in the M-3 well. In monitor well M03, TC3, 4, 5, 6, 7, 8, and 9 showed temperatures ranging from 750 to 1500°F. In most of the thermocouples, the temperature rise was instantaneous from September 23, 1979, to September 24, 1979, identifying the initiation of gasification. The trend followed by the M-3 well thermocouples was more or less the same as that observed in the M-1 well, thus confirming the earlier linkage path prediction. In monitor well M-4, TC4, 5, 6, and 7 showed temperatures ranging from 650 to 870°F, indicating the flow of gas.

Table 12 gives the total energy production and average gas composition summary for the gasification phase of the test. The gas composition data during the gasification phase suggested temperatures of 1400 to 2200°F and are consistent with the thermocouple data.

1.4.6 Test Termination and Post Test

With the rapid deterioration in flow rate resulting from a process change on October 5, high pressure air was injected into well P/I-1 at low flow rate

TABLE 11
System Conductance, CO/CO₂ Ratio, and CH₄/H₂ Ratio from
September 23 to October 8 Period

Day	System Conductance (scfm/psia ²)	CO/CO ₂ Ratio	CH ₄ /H ₂ Ratio
September 23	0.0765	1.39	0.31
September 24	0.0404	4.17	0.28
September 25	0.032	2.34	0.40
September 26	0.0314	1.82	0.47
September 27	0.0323	2.09	0.49
September 28	0.0308	2.13	0.46
September 29	0.0330	1.95	0.40
September 30	0.0345	1.57	0.36
October 1	0.0220	2.01	0.31
October 2	0.0320	1.70	0.30
October 3	0.0390	1.60	0.25
October 4	0.0350	1.95	0.26
October 5	0.0180	0.53	0.21
October 6	0.0080	0.57	0.21
October 7	0.0050	0.56	0.30
October 8	0.0005	0.25	0.35

in an attempt to slowly burn the restriction. After several hours, the injection pressure began to decrease, which was indicative that the restriction was being affected and that continued operation would successfully clear the link. Before the restriction could be completely removed, it was discovered that a near surface aquifer was being pressurized. To minimize the possibility of contaminating the aquifer, the pressure on the subsurface system was relieved resulting in a rapid decline in the aquifer pressure. There were minor changes in the water composition of the aquifer, and within two weeks quality of the aquifer had returned to preignition base line levels.

On October 19, 1979, all wells were shut in to terminate the test, and procedures were initiated for longterm post test coal-seam monitoring. A down-hole camera revealed that a collar had separated from the casing in well P/I-2 at a depth of 205 ft, resulting in the aquifer pressurization. The separation most probably occurred as a result of thermal effects caused by the high product gas temperature observed at the wellhead during gasification.

During the post test analysis period, product gas samples were analyzed routinely for the first two weeks of the period; after that the analytical system was shut down, and current monitoring involves the use of the down hole thermocouples to monitor the in-situ temperature of the coal seam. Since November 1, 1979, it appears that a dominant conduction process is under way in all the monitoring wells with the same convection. A typical temperature profile is shown in Figure 45.

1.5 TEST SUMMARY

For the first time in the United States a deep, thin seam, swelling bituminous coal has been gasified successfully in situ. Every major objective established for the test was met. Preignition coal-seam pressure and flow testing yielded valuable information concerning possible linkage paths and were consistent with the subsequent phases of the test. The deep coal seam was ignited easily using a simple ignition method. P/I well linkages were established using reverse combustion over two coal sections of different lengths and, in one link, the flame front was propagated a second time in a direction opposite to that of the initial link. The gasification process was relatively stable and was sustained for an extended period of time.

Injection and production volumes for the entire test are shown in Figure 46, and wellhead pressures are shown in Figure 47. Figure 48 shows gas quality for the entire test. Figure 49 depicts H_2 and CH_4 gas components, and Figure 50 depicts CO and CO_2 for the whole test duration.

A methane rich gas with an average heating value of approximately 250 BTU/scf was produced at low air-injection flow rates during the initial phase of the test. The high methane content has been attributed to the nature of the bituminous coal, which has a very high volatile matter content. The methane formation can be accounted for by thermal and hydrocracking of tars and oils along with hydropyrolysis and hydrogasification of coal char. The high heating value of the gas was the combined effect of residence time, flow pattern, injection flow rate, injection pressure, and back pressure.

During the gasification phase, a gas with an average heating value of 125 BTU/scf was produced which resulted in an average energy production of 362 MM BTU/day.

3. PROBLEMS

The Pricetown field test proceeded with a minimum number of problems but no more than can be expected in a normal field test. During the month of June, there was restricted flow for about ten days but that problem was solved by flow reversal. Near the end of the test, a rupture in the casing occurred which led to the aquifer pressurization. But here it should be noted that all the objectives of the test had been met by that time. Both of these problems are described below:

3.1 RESTRICTED FLOW:

After the linkage path from P/I-2 to P/I-3 was made on June 15, flow direction was reversed to carry the link back from P/I-3 to P/I-2. During the first ten days of this phase, a reduction of product gas flow and an associated injection pressure increase occurred on seven occasions. These restrictions were eliminated by reversing the direction of air flow until product gas flow was re-established and then returning to the original operating conditions. As discussed in the test narrative section, it is likely that the flow restriction was in the vicinity of P/I-2 well. Restriction seems to be in the coal seam near the P/I-2 well and a possible restriction in the P/I-2 well itself. It is also likely that the flow channel development near the P/I-2 well was multiple and narrow. Tar condensation and oil drop coalescence in these narrow channels will lead to flow restrictions. The M-4 pressure data revealed that the flow restriction occurred between the P/I-2 well and M-4. But after these ten days of unsteady state behavior, process again stabilized.

Though this restricted flow created some problems, it did prove at the same time that a restriction in the coal seam can be removed by making process changes. Technically, this statement is very positive for the commercialization of the UCG technology.

3.2 ACQUIFER PRESSURIZATION:

There was aquifer pressurization towards the end of the test. First signs of this aquifer pressurization were noted on October 12 in terms of bad odor, taste of water, and the flowing stream of water at the top of the one well. This situation was brought under control by reducing the pressure. More details are given further in section 5.4 regarding this aquifer pressurization. Post test analysis showed a rupture in the casing at the 205 ft level and perhaps that rupturing of the casing was responsible for the aquifer pressurization. This was a mechanical failure and a proper piping design can eliminate this problem.

4. SAFETY

The field test operation was run without any injury to any person. All safety procedures were strictly followed. In spite of the toxic and flammable gases such as hydrocarbon gas, carbon monoxide, hydrogen cyanide, hydrogen sulfide, nitrogen oxides, and sulfur dioxide, no one was hurt or had any lasting harmful effects. Only during the incinerator shutdown for a one-week period (June 12-June 18), was there an odor problem, and frequent alarms indicated the high levels of toxic gases. This necessitated the evacuation of the operation area at times.

Tar was removed from the knockout pot safely by a procedure that took into account all safety precautions. Operators had to wear disposable clothes, gloves, mask, and hood for the safe removal of tar. No tar contacted the physical body of any operator during this operation. Here it should be noted that many of the tar products are carcinogenic.

METC/Mound recommended safety procedures resulted in a very safe operation.

5. ENVIRONMENTAL ASPECTS

5.1 INTRODUCTION

For successful commercialization of underground coal gasification to develop in the United States, it has to be environmentally sound. The liquor (tar, light oil, and water) collected at the Pricetown UCG site was analyzed for possible environmental pollutants. An environmental assessment of the air and water quality was undertaken by West Virginia University (WVU) (5) under contract with the Department of Energy. The primary objective of their study was to furnish baseline data on quality of surface and subsurface waters, to furnish baseline data on atmospheric conditions, and to monitor pollution of air and water near the UCG site.

5.2 ENVIRONMENTAL EFFECTS ON AIR QUALITY

To evaluate the environmental aspects of any coal gasification activity on atmospheric phenomena, it is essential to know the past and present levels of all constituents, their trends, spatial and temporal distributions, expected emissions from the coal activity in gases, and local climatological and meteorological conditions.

Data density was low because of extensive instrument downtime and the location of the monitoring station. Calm conditions prevailed for 50% of the time, and 30% of the time wind direction carried the exhaust gases away from the monitoring station location. Hence, monitoring was possible for only 20% of the time. No correlation was found between the measured pollutant concentration and the gas production from the UCG operation. During the monitoring time, Environmental Protection Agency (EPA) regulations and standards were not violated for the measured pollutants. There was, however, incinerator shutdown for a week (June 12-June 18) because of the delay in the shipment of propane. This resulted in concentrations of HCN, H₂S, and CO exceeding the limits set by EPA. These high concentrations were localized. These high concentrations were limited to the field only, which included the instrument trailer. There was ample monitoring, and the instrument trailer was evacuated whenever necessary. Proper pre-set guidelines were followed during this evacuation process. At no time did gaseous concentrations in the office trailer exceed the limits.

An air quality monitoring station was located at the open end of the valley (symbol A on Figure 51). The location of the monitoring station was not a design optimum location for wind direction. Budget limitations did not allow another, more useful monitoring station located at the top of the hill near the process field. The monitoring station did, however, provide some useful information concerning pollution affecting the nearby residents. The three meteorological parameters monitored were inversion height, wind velocity, and wind direction. The pollutants measured were SO₂, CO, NO, NO₂, and total suspended particles.

FIGURE 51
Map of the Pricetown I UCG site and its vicinity. (5)

5.3 ENVIRONMENTAL EFFECTS ON WATER QUALITY

Water quality monitoring is important for an UCG operation, as the gas influx in the drinking or usable water would pose problems. There are three domestic supply wells within 1500 ft of the Pricetown I site, and at least 50 such wells are within two miles of this site. Contamination of the aquifers in the Pricetown area is not warranted. Here it should be noted that the Pricetown UCG site is at a depth of 900 ft in a relatively impermeable coal. Near surface aquifers are also hydrologically isolated from the burn zone.

WVU collected the baseline data and the data during and after the test. Water quality monitoring was done with the following objectives: 1) a geologic characterization of the site; 2) a physical and chemical survey of the domestic wells in the Pricetown area; 3) periodic monitoring of water quality in wells and streams in the immediate vicinity of the UCG site.

A domestic water well survey was conducted in a 20 square mile area surrounding the test site. Owners of the wells were interviewed for physical well parameters, and some of the samples taken from the wells were tested for water quality. Aquifer permeability was also determined whenever possible. Chemical constituents for which water was analyzed are given in Table 13. The principal groundwater type for the area was sodium bicarbonate, although few wells in the area had calcium predominant over sodium as can be seen from Figure 52. Water quality of wells and streams near the UCG site was monitored. As shown in Figure 52, five shallow water wells, one deep well (H-1), and three small surface streams were monitored for the constituents as listed in Table 13. Sampling continued throughout the burn with a post-test termination on August 1980. The only flaw in the program was that samples were taken only once or twice a month. The chemical quality of all water supply wells was stable except for the one incident of aquifer pressurization towards the end of the test. This incident is discussed in detail below. There were changes in stream water quality but they are not attributed to the UCG test. There were some variations in the chemical constituents of the deep H-1 well. Because of its proximity to the gasification zone and its link with P/I-1, P/I-2, and P/I-3, as shown in the test narrative section, some of the gases might have escaped to H-1 which would have led to this change in the chemical constituents of H-1 well.

5.4 ACQUIFER PRESSURIZATION

The process change on October 5 caused a rapid deterioration in flow rate. HP/LV air was injected to increase the flow rate but, unfortunately, this led to the pressurization of a near surface aquifer. On October 12 at 0900 hr, bad odors and lead taste of the water in well 51 were noticed (for location, see Figure 51). At about 1400 hr, a stream of water about 2 ft high flowed from the top of well 51. At 2000 hr P/I-1 well pressure was dropped to 0 psig. This led to a drop in the height of the flowing stream to 0-2 in with a pulsating phenomenon. By 1500 hr on October 13, water flow entirely stopped, but gas flow and gurgling noises were present until the morning of October 16. At 0715 hr on October 13, well 41 also overflowed and the gas was bubbling in the stream bed at location 1 (Figure 51). Increased flow and gas bubbles also occurred at a small wet-weather spring at location G. Bad tasting water also appeared at well 1 by October 14. Pressure trends in P/I-1, P/I-2, and P/I-3 well are shown in Figure 53. With the reduction

TABLE 12
TOTAL ENERGY PRODUCTION AND AVERAGE GAS COMPOSITION SUMMARY
FOR THE GASIFICATION PHASE

ENERGY PRODUCTION SUMMARY		GAS COMPOSITION SUMMARY	
DURATION	11.8 DAYS	H ₂	11.2%
AIR INJECTION	21,373 MCF	CH ₄	4.0
GAS PRODUCED	34,136 MCF	CO	16.6
AVERAGE HEATING VALUE	126 BTU/SCF	CO ₂	8.9
ENERGY PRODUCTION	4,267 MMBTU	N ₂	58.2
		H ₂ S	1.1

TABLE 13

ANALYSIS OF WATER SAMPLES

MAJOR INORGANIC PARAMETERS

ALKALINE-EARTH-METAL HARDNESS	SUSPENDED SOLIDS*
SPECIFIC CONDUCTANCE	DISSOLVED OXYGEN*
TURBIDITY*	TEMPERATURE†
PH	ALKALINITY
ACIDITY	POTASSIUM
SODIUM	MAGNESIUM
CALCIUM	BICARBONATE
IRON	CHLORIDE
SULFATE	SILICA
NITRATE†	
PHOSPHORUS‡	

TRACE ELEMENTS

BARIUM	CHROMIUM
COPPER	ZINC
CADMIUM	MERCURY
ARSENIC	SELENIUM
LEAD	BORON
MANGANESE	NICKEL

ORGANIC CONSTITUENTS

BIOLOGICAL OXYGEN DEMAND*	PHENOL
FECAL COLIFORM*	TOTAL ORGANIC CARBON

* PERFORMED ONLY ON STREAM SAMPLES

† NOT PERFORMED ON DEEP WELL SAMPLES

‡ ANALYSIS DONE ONLY FOR THE FIRST YEAR

FIGURE 46

INJECTION AND PRODUCTION VOLUMES FOR THE PRICETOWN 1 FIELD TEST

PRICETOWN I FIELD TEST RESULTS

PRE-TEST PHASE

WELLHEAD INJECTION PRESSURES DURING TEST PHASE

PRICETOWN I FIELD TEST RESULTS

REVERSE COMBUSTION LINKAGE - 1 PHASE

WELLHEAD INJECTION PRESSURES DURING TEST PHASE

PRICETOWN I FIELD TEST RESULTS

REVERSE COMBUSTION LINKAGE - 2 PHASE

WELLHEAD INJECTION PRESSURES DURING TEST PHASE

PRICETOWN I FIELD TEST RESULTS

REVERSE COMBUSTION LINKAGE - 3 PHASE

WELLHEAD INJECTION PRESSURES DURING TEST PHASE

PRICETOWN I FIELD TEST RESULTS

ENHANCED LINKAGE - 1 PHASE

WELLHEAD INJECTION PRESSURES DURING TEST PHASE

PRICETOWN I FIELD TEST RESULTS

ENHANCED LINKAGE - 2 PHASE

WELLHEAD INJECTION PRESSURES DURING TEST PHASE

PRICETOWN I FIELD TEST RESULTS

GASIFICATION PHASE

WELLHEAD INJECTION PRESSURES DURING TEST PHASE

2. PROCESS SYNOPSIS

2.1 LIST OF ALL THE PROCESS CHANGES

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
April 19, 1979	07.50	**Start air injection in PI-3 well, PI-1 and PI-2 shut in
April 19, 1979	08.50	**Close PI-3, open PI-2, PI-3 still closed
April 19, 1979	08.55	**Open PI-2, PI-1 and PI-3 still close
April 19, 1979	09.45	**Close PI-2, open PI-3 to pressurize it to 200 psig
April 19, 1979	09.53	**PI-2 and PI-3 shut in, no change in PI-1 status
April 19, 1979	12.44	**Inject air in PI-3
April 19, 1979	13.37	**Close PI-3 as it has reached 200 psig and open PI-1
April 19, 1979	14.57	**Close PI-1 and hold 275 psig pressure in PI-1, 200 psig pressure in PI-2 and 200 psig in PI-3
April 19, 1979	20.25	*Brought PI-1 from 260 to 275 psig
April 19, 1979	20.55	*Brought PI-2 well from 195 psig to 200 psig
April 19, 1979	21.45	*Brought PI-3 well from 195 to 200 psig
April 19, 1979	23.53	*Brought PI-1 from 270 to 275 psig
April 20, 1979	00.40	*Brought PI-3 from 190 to 200 psig
April 20, 1979	05.27	*Brought PI-3 from 190 to 200 psig
April 20, 1979	08.05	*Brought PI-1 from 260 to 275 psig
April 20, 1979	11.50	*Brought PI-2 and PI-3 to 200 psig, maintain PI-3 to 200 psig
April 20, 1979	12.00	**Injected air into PI-1 with PI-2 and PI-3 shut in
April 20, 1979	19.00	**Close PI-1 and maintain 550 psig pressure
April 20, 1979	20.00	*Brought PI-1 to 550 psig pressure
April 20, 1979	20.30	*Brought PI-1 to 550 psig pressure
April 20, 1979	21.00	*Brought PI-1 to 550 psig pressure and this injection was repeated every half an hour
April 21, 1979	10.00	PI-1 is being maintained at 510-525 psig
April 23, 1979	10.42	Water level was checked in PI-1, 905.15 ft.
April 24, 1979	13.40	*Increase PI-1 to 600 psig and let PI-3 seek its own pressure along with PI-2

* Minor Process Changes

**Major Process Changes

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
April 25, 1979	11.00	Water level was checked in H-1, 546 ft.
April 28, 1979	11.00	Water level was checked in M-1, 547 ft.
April 28, 1979	13.00	Water level was checked in PI-1, 905.5 ft.
April 29, 1979	15.25	*Inject air in PI-2 to bring it to 600 psig and then intermittent injection
April 30, 1979	11.00	Water level was checked in HQ, 203 ft.
April 30, 1979	12.30	Water level was checked in M-1, 547 ft.
May 1, 1979	00.00	*Intermittent flows in PI-1 and PI-2 to keep 600 psig pressure
May 2, 1979	10.05	Water level was checked in H-Q, H-1 and PI-1, H-Q = 203 ft., H-1 = 547.25 ft., PI-1 = 905.6 ft.
May 7, 1979	14.33	*Depressurize PI-1 to 400 psig, if it falls below 300 psig later on, pressurize it to 400 psig
May 7, 1979	14.54	*Depressurize PI-2 to 400 psig, if it falls below 300 psig later on, pressurize it to 400 psig
May 7, 1979	14.58	*Pressurize PI-3 to 400 psig
May 7, 1979	21.00	*Pressurize PI-3 to 500 psig and maintain
May 8, 1979	01.00	*Pressurize PI-3 to 550 psig
May 8, 1979	05.00	*Pressurize PI-3 to 600 psig
May 8, 1979	11.31	Brief power surge
May 8, 1979	11.46	Water level in PI-1 is being measured, 904.85 ft.
May 8, 1979	12.12	Water level in H-1 is being measured, 547.0 ft.
May 8, 1979	12.35	Water level in HQ is being measured, somewhere above 199 ft.
May 8, 1979	13.51	Brief power surge
May 8, 1979	20.03	*Pressurize PI-1 to 400 psig
May 8, 1979	20.05	*Pressurize PI-2 to 600 psig
May 9, 1979	10.45	Checked water level in PI-1, 904.35 ft.
May 9, 1979	11.07	Water sample in H-1 was taken
May 9, 1979	11.12	*Pressurize PI-1 to 600 psig

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
May 10, 1979	11.20	Water sample in H-1 was taken
May 10, 1979	12.30	Checked water level in PI-1, 904.85 ft.
May 11, 1979	11.00	*Depressurize PI-3 to 10 psig
May 11, 1979	12.00	*Depressurize PI-2 to 0 psig
May 11, 1979	13.05	*Depressurize PI-1 to 0 psig
May 11, 1979	18.50	Checked water level in PI-1, 903.6 ft.
May 11, 1979	19.10	*Open PI-1 to pressurize it to 100 psig and close
May 11, 1979	20.05	*Pressurize PI-2 to 150 psig
May 11, 1979	20.45	*Pressurize PI-1 to 350 psig
May 12, 1979	08.30	*Open PI-3 with a back pressure of 100 psig
May 12, 1979	09.47	*Bleed PI-2 to 100 psig
May 12, 1979	12.00	*Increase pressure in PI-1 to 400 psig
May 12, 1979	15.30	*Increase pressure in PI-1 to 450 psig
May 12, 1979	21.45	*Increase pressure in PI-1 to 500 psig
May 12, 1979	23.10	*Increase pressure in PI-3 to 100 psig
May 13, 1979	02.45	*Pressurize PI-3 to 100 psig again
May 13, 1979	08.16	*Bring PI-3 to 100 psig again
May 13, 1979	14.00	*Pressurize PI-1 to 600 psig
May 13, 1979	20.30	*Bring all the PI wells to 600 psig and control
May 16, 1979	11.24	Water level in PI-1 was taken
May 16, 1979	12.00	Water level in H-1 and H-Q was taken, H-1 = 547 ft., M-Q = 198 ft.
May 16, 1979	16.15	*Inject air in PI-1 to 700 psig and bleed PI-3 to 100 psig
May 16, 1979	16.55	*Valve off PI-1 at 700 psig
May 16, 1979	17.20	*Valve off PI-3 at 100 psig
May 16, 1979	17.45	*Inject air in PI-2 to 650 psig and valve off
May 16, 1979	19.30	*Inject air in PI-3 and PI-1 to bring them to 100 psig and 700 psig respectively and control it later on by intermittent injection

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
May 17, 1979	06.05	Increase pressure in PI-2 to 700 psig
May 17, 1979	16.00	*Bring pressure in PI-3 down to 100 psig
May 17, 1979	18.30	*PI-1 and PI-2 are being brought to 700 psig
May 17, 1979	20.45	PI-3 pressure is about 60-70 psig
May 18, 1979	02.55	*Air injection into PI-1 to bring pressure up from 690 to 700 psig
May 18, 1979	06.07	Production flow increased from 2.2 to 4.0 scfm
May 18, 1979	12.22	Water level in PI-1 was taken, 905.3 ft.
May 18, 1979	15.30	Bring PI-1 and PI-2 to 750 psig, and PI-3 to 100 psig
May 19, 1979	16.40	*Valve off PI-1 at 750 psig and open PI-2 to bring up to 800 psig
May 19, 1979	18.55	*Argon injection into PI-2
May 19, 1979	23.30	*Raise PI-1 to 800 psig
May 19, 1979	23.55	PI-1 and PI-2 leaking
May 20, 1979	00.26	*Bring PI-1 and PI-2 to 800 psig
May 20, 1979	04.40	*PI-1 dropped to 720 psig. Increase it to 800 psig
May 20, 1979	09.45	*Flow test on monitor wells with no back pressure. Wells remain vented. M-1:4.20 scfm, M-2:1.95 scfm, M-3:1.45 scfm, M-4:1.35 scfm
May 20, 1979	13.00	*Shut in monitor wells
May 20, 1979	18.30	*Air injection into PI-1 to bring it to 800 psig
May 20, 1979	23.15	*Air injection into PI-1 to bring it to 800 psig
May 21, 1979	02.00	*When PI-1 pressure drops to 725 psig, bring the pressure to 800 psig then valve off PI-1. Maintain PI-2 at 800 psig at all times. Maintain PI-3 at approximately 100 psig
May 21, 1979	08.45	*Bring PI-2 to 850 psig
May 21, 1979	23.40	*Raise PI-1 to 800 psig
May 22, 1979	04.20	*Raise PI-1 to 800 psig
May 22, 1979	11.30	**Shut in PI-2. Valve off PI-1 down to 100 psig through tar pot. Pressurize PI-3 to 700 psig. Maintain PI-2 at 800 psig and PI-3 at 700 psig by intermittent injection

<u>DAY</u>	<u>HOURL</u>	<u>COMMENTS</u>
May 23, 1979	14.15	*Bring up pressure in PI-2 to 850 psig
May 24, 1979	10.00	*Bleed pressure in PI-2 to 100 psig and inject air in PI-1 to 800 psig. Bleed PI-3 to 700 psig and shut in
May 24, 1979	20.45	*Bring up pressure in PI-3 to 700 psig
May 25, 1979	05.35	Brief power failure
May 25, 1979	08.50	*Bring up pressure in PI-3 to 700 psig
May 25, 1979	09.05	Power surge
May 25, 1979	11.20	*Bring PI-1 to 850 psig
May 25, 1979	12.35	*Bring PI-1 back to 850 psig from 820 psig and control it by intermittent injection
May 26, 1979	06.05	*Bring PI-3 to 700 psig
May 27, 1979	02.25	*Inject argon into PI-1
May 27, 1979	16.20	*Lower pressure in PI-3 to 100 psig and close PI-2
May 28, 1979	20.37-23.20	Power off
May 30, 1979	01.00	Argon injection in PI-1
May 31, 1979	14.25	Close PI-3 well
June 2, 1979	10.30	**System change - shut in PI-1, Injection in PI-2, PI-3 shut in
June 2, 1979	17.00	**Bleed PI-1 to 700 psig and shut in. Bleed PI-3 to 100 psig and then let it flow
June 5, 1979	03.50	*Open FIC-20 to fill PI-1 to 850 psig and maintain PI-2 at 850 psig.
June 5, 1979	16.10	*Bleed PI-1 to 150 psig
June 6, 1979	05.00	*Bleed pressure in PI-2 to 200 psig
June 6, 1979	06.00	*Bleed all wells to 0 psig
June 6, 1979	10.30	**Lowered ignition bag into PI-3
June 6, 1979	16.35	**Injection in PI-1, PI-2 and PI-3
June 7, 1979	07.00	*Bleed PI-3 to 0 psig
June 7, 1979	18.43	*Pressurize PI-3 to 100 psig
June 8, 1979	13.35	*Dropped PI-3 pressure to ignite charcoal. First ignition at 13.50 hours and second at 15.00 hours, but no smoke

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
June 8, 1979	17.00	*Lower PI-2 pressure to 15.0 psig and increase pressure in PI-3 to 900 psig
June 9, 1979	10.00	*Reduce PI-2 pressure to 0 psig
June 9, 1979	12.32	**Ignite #1 fuse in ignition charge - PI-2
June 9, 1979	12.42	Grey smoke from PI-2
June 9, 1979	13.15	*Ignited second charge in PI-2
June 9, 1979	14.00	Flow through the surface piping
June 10, 1979	10.38	*Increase PI-1 from 650 psig to 700 psig
June 10, 1979	15.45	*Bring up pressure in PI-1 to 710 psig and in PI-3 to 850 psig
June 11, 1979	08.20	*Reduce PI-1 to 600 psig
June 11, 1979	14.00	*Reduce PI-1 to 400 psig
June 11, 1979	15.20	*Increase flow to 40 scfm
June 11, 1979	16.50	*Reduce pressure in PI-1 to 200 psig
June 12, 1979	00.01	*Raise PI=1 to 400 psig
June 12, 1979	15.00	*Let PI-1 seek its own pressure
June 15, 1979	10.15	**Process change - switch from PI-3 injection to PI-2 injection
June 15, 1979	14.30	**System change - switch from PI-2 injection to PI-3 injection
June 15, 1979	18.35	*Establish a back pressure of 100 psig
June 16, 1979	08.45	**System change - switch flow from PI-3 to PI-2
June 16, 1979	12.45	**System change - switch flow from PI-2 to PI-3
June 16, 1979	16.00	**System change - switch flow from PI-3 to PI-2
June 16, 1979	18.40	**System change - switch flow from PI-2 to PI-3
June 17, 1979	09.05	**System change - switch flow from PI-3 to PI-2
June 17, 1979	14.10	**System change - switch flow from PI-2 to PI-3
June 17, 1979	17.30	*Lowered back pressure to 100 psig
June 18, 1979	08.05	*Increase back pressure to 150 psig
June 19, 1979	11.30	*Increase PI-1 pressure to 500 psig and shut in. Increase back pressure to 195 psig in PI-2

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
June 20, 1979	13.05	**System change - switch injection flow from PI-3 to PI-2
June 20, 1979	23.20	**System change - switched flow from PI-2 to PI-3
June 22, 1979	09.45	*Increase PI-1 to 600 psig
June 22, 1979	12.25	*Increase PI-1 to 700 psig
June 22, 1979	13.40	**System change - switch flow from PI-3 to PI-2
June 23, 1979	00.20	*Reduce back pressure to 150 psig
June 23, 1979	02.19	*Reduce back pressure to 100 psig
June 23, 1979	05.00	**System change - switch flow from PI-2 to PI-3 injection
June 24, 1979	08.00	**System change - switch injection flow from PI-3 to PI-2
June 24, 1979	17.41	*Lowered back pressure in PI-3 to 150 psig
June 24, 1979	19.48	*Lowered back pressure in PI-3 to 100 psig
June 24, 1979	22.45	**System change - switch injection flow from PI-2 to PI-3
June 25, 1979	10.55	**System change - switch injection flow from PI-3 to PI-2
June 25, 1979	13.47	*Dropped back pressure to 100 psig
June 25, 1979	15.00-16.00	Breakthrough occurred
June 26, 1979	13.10	*Increased injection flow to 40 scfm
June 26, 1979	15.10	*Reduced injection flow to 20 scfm
June 27, 1979	03.04	Brief power failure
June 27, 1979	09.30	*Shutdown to repair generator
June 27, 1979	10.17	*Stopped injection flow
June 27, 1979	12.58	*System back on line, production line opened
June 27, 1979	13.50	*Injection in PI-2 again started
June 30, 1979	10.20	*Increase pressure in PI-1 from 400 to 500 psig
July 1, 1979	08.50	Black smoke from incinerator
July 1, 1979	18.35	Black smoke from incinerator
July 2, 1979	08.35	Black smoke from incinerator
July 2, 1979	16.30	Drained tar knockout pot - 60 gallon liquor collected

<u>DAY</u>	<u>HOURL</u>	<u>COMMENTS</u>
July 7, 1979	11.25	Huge amounts of heavy black smoke from incinerator
July 7, 1979	11.50	Flame at the top of the incinerator
July 7, 1979	13.00	Drained tar knockout pot - 40 gallon liquor collected
July 7, 1979	13.20	Flame at the top of the incinerator
July 7, 1979	20.30	Drained tar knockout pot - 60 gallon liquor collected
July 8, 1979	10.00	**System change - switched flow from PI-2 to PI-3
July 8, 1979	16.30	**System change - switched flow from PI-3 to PI-2. Drained tar knockout pot - 30 gallon liquor collected
July 9, 1979	08.27	*Decrease flow to 15 scfm
July 9, 1979	09.35	*Close in system to work on sample tap
July 9, 1979	10.14	*Reestablish flow
July 9, 1979	10.49	*Raise back pressure to 150 psig
July 9, 1979	12.05	*Decrease flow to 10 scfm
July 9, 1979	14.10	**System change - switched flow from PI-2 to PI-1. QI= 15-20 scfm at 850 psig, production out of PI-2 at 100 psig, shut-in PI-3 at 150 psig
July 12, 1979	15.45	Drained tar knockout pot - 11 gallon liquor collected
July 14, 1979	22.55	Drained tar knockout pot - 3.1 gallon liquor collected
July 16, 1979	21.30	*Increase back pressure to 150 psig
July 21, 1979	14.55	Drained tar knockout pot - 2.5 gallon liquor collected
July 23, 1979	12.30	A brief power failure
July 25, 1979	08.40	Power failure for approximately 5 minutes
July 26, 1979	14.45	Drained tar knockout pot - 4.7 gallon liquor collected
July 26, 1979	15.50	*Increase flow to 20 scfm
July 27, 1979	09.30	Drained tar knockout pot - 5.5 gallon liquor collected
July 27, 1979	12.30	**System change - switch production from PI-2 to PI-3
July 28, 1979	01.00	*Flow changed to 30 scfm
July 28, 1979	15.00	*Change flow to 45 scfm
July 28, 1979	15.19	*Could not maintain flow, lowered flow to 40 scfm
July 29, 1979	04.15	*Reduced flow to 30 scfm

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
July 29, 1979	07.43	**System change, injection in PI-3, production from PI-1, PI-3 shut-in
July 29, 1979	11.20	Brief power surge
July 29, 1979	13.50	Drained tar knockout pot - 4 gallons liquor collected
July 29, 1979	19.00	**System change, injection in PI-1, production from PI-2, PI-3 shut-in
July 30, 1979	01.00	*Injection flow was reduced
July 30, 1979	04.45	*Injection flow was further reduced
July 30, 1979	09.10	**System change, injection in PI-2, production from PI-1, PI-3 shut-in
July 31, 1979	15.29	Power surge
July 31, 1979	16.03	FIC-20 wide open to allow maximum injection flow
July 31, 1979	17.20	**System change, injection in PI-1, production from PI-2, PI-3 shut-in
July 31, 1979	17.45	*Increased flow. In to 36 scfm
July 31, 1979	18.49	*Increased flow. In to approximately 42 scfm
July 31, 1979	22.07	Breakthrough occurred with a flow spike of 210 scfm
August 1, 1979	10.30	Drained for knockout pot. 23 gallon liquor collected
August 3, 1979	08.45	*Lower back pressure to 100 psig
August 3, 1979	11.20	Drained tar knockout pot. 23 gallon liquor collected
August 3, 1979	23.50	**System change. Inject in PI-2 and produce out of PI-1
August 4, 1979	08.15	*Increase air flow from 10 scfm to 20 scfm
August 4, 1979	12.30	**System change. Inject in PI-1 and produce out of PI-2
August 5, 1979	08.15	*Increase air flow to 20 scfm
August 5, 1979	12.05	Drained tar knockout pot. 2 gallon liquor collected
August 5, 1979	13.30	*Increase air flow to 30 scfm
August 6, 1979	09.55	**System change. Inject in PI-3 and produce out of PI-1, PI-2 shut in

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
August 6, 1979	19.05	*Increase air flow to 30 scfm
August 7, 1979	09.00	*Increase air flow to 40 scfm
August 8, 1979	05.03	**Shut off compressor. Reduced pressure to 0 psig to remove wire from PI-2 and PI-3
August 8, 1979	10.03	**Started compressors. Injection in PI-3 and production out of PI-1, PI-2 shut in after pressurizing it first to 150 psig
August 8, 1979	14.18	Power failure
August 8, 1979	14.20	Power failure
August 8, 1979	14.24	Power failure
August 8, 1979	14.25	Power failure
August 8, 1979	19.10	*Increase air flow to 60 scfm
August 9, 1979	08.06	*Increase air flow to 80 scfm
August 9, 1979	08.10	*Generator failure. Reduce flow to 35 scfm
August 9, 1979	11.38	Power failure
August 9, 1979	12.30	Drained tar knockout pot. 2 gallon liquor collected
August 9, 1979	13.57	Power failure
August 9, 1979	14.00	*Increase air flow to 80 scfm
August 9, 1979	22.02	*Reduce air flow to 60 scfm
August 10, 1979	06.00	*Reduce air flow to 33 scfm
August 10, 1979	14.27	Power failure
August 10, 1979	16.05	**System change. Injection in PI-1 and production out of PI-3
August 11, 1979	12.25	*Increase flow to 35 scfm
August 11, 1979	14.35	*Increase back pressure to 175 psig
August 11, 1979	20.30	**System change. Production out of PI-2. PI-3 shut-in
August 12, 1979	00.59	**System change. Switch production to PI-3
August 13, 1979	01.55	*Reduced back pressure
August 13, 1979	10.05	*Increase injection flow to 50 scfm

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
August 13, 1979	13.00	Drained tar knockout pot. 1 gallon liquor collected
August 13, 1979	15.24	*Reduce air flow to 20 scfm
August 14, 1979	07.05	**System shut in to repair generator
August 14, 1979	08.05	**System back on line
August 14, 1979	11.30	*Increase air flow to 40 scfm
August 14, 1979	21.55	Large production flow increase was observed
August 15, 1979	09.15	**Started LP/HV compressors
August 15, 1979	11.04	**System change. Switch production to PI-2
August 15, 1979	13.05	**Switch to HP/LV compressors
August 16, 1979	00.00	*Increase air flow
August 16, 1979	16.10	*Increase air flow
August 17, 1979	09.30	*Drained tar knockout pot. 0.5 gallon liquor collected. Increased injection flow to 80 scfm
August 17, 1979	11.05	*Reduce back pressure to 100 psig
August 17, 1979	19.33	*Further reduce back pressure to 50 psig
August 19, 1979	07.10	**Switch to LP/HV compressors
August 19, 1979	10.00	Drained tar knockout pot. 54.95 gallon liquor collected
August 19, 1979	12.55	**LP/HV compressors down. HP/LV compressors were brought on line
August 19, 1979	13.15	**Switch back to LP/HV compressors
August 19, 1979	21.30	Drained tar knockout pot. 4.0 gallon liquor collected
August 20, 1979	00.15	Tar knockout pot drained. 128 gallon liquor collected
August 20, 1979	01.30	Tar knockout pot drained. 124 gallon liquor collected
August 20, 1979	04.00	**Started HP/LV compressors air injection. Shut down LP/HV air injection
August 20, 1979	09.45	Drained tar knockout pot. 91 gallon liquor collected

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
August 20, 1979	16.30	Drained tar knockout pot. 3.3 gallon liquor collected
August 20, 1979	21.15	Drained tar knockout pot. 0.4 gallon liquor collected
August 21, 1979	09.20	**HP/LV compressors off, started LP/HV air injection
August 21, 1979	16.15	Drained tar knockout pot. 2 gallon liquor collected
August 21, 1979	23.45	Drained tar knockout pot. 100 gallon liquor collected
August 22, 1979	02.45	Drained tar knockout pot. 70 gallon liquor collected
August 22, 1979	05.45	Drained tar knockout pot. 65 gallon liquor collected
August 22, 1979	06.00	Drained tar knockout pot
August 22, 1979	09.22	Drained tar knockout pot. 62.5 gallon liquor collected
August 22, 1979	14.25	Drained tar knockout pot. 88 gallon liquor collected
August 22, 1979	19.50	Drained tar knockout pot. 88 gallon liquor collected
August 23, 1979	00.00	Drained tar knockout pot. 61.3 gallon liquor collected
August 23, 1979	12.25	Drained tar knockout pot. 52.9 gallon liquor collected
August 23, 1979	17.40	Drained tar knockout pot. 53.4 gallon liquor collected
August 23, 1979	23.50	Drained tar knockout pot. 45 gallon liquor collected
August 24, 1979	04.30	Drained tar knockout pot. 36.6 gallon liquor collected
August 24, 1979	11.40	Drained tar knockout pot. 70.6 gallon liquor collected
August 24, 1979	19.00	Drained tar knockout pot. 30 gallon liquor collected

<u>DAY</u>	<u>HR</u>	<u>COMMENTS</u>
August 25, 1979	05.30	Drained tar knockout pot. 81 gallon liquor collected
August 25, 1979	10.20	Drained tar knockout pot. 13.3 gallon liquor collected
August 25, 1979	19.30	Drained tar knockout pot. 45.5 gallon liquor collected
August 26, 1979	08.47	Drained tar knockout pot. 106.5 gallon liquor collected
August 26, 1979	19.30	Drained tar knockout pot. 55.7 gallon liquor collected
August 27, 1979	00.00-01.05	Power failure
August 27, 1979	04.55	Drained tar knockout pot. 80 gallon liquor collected
August 27, 1979	14.15	Drained tar knockout pot. 27 gallon liquor collected
August 27, 1979	16.35	**Switch from LP/HV compressors to HP/LV compressors. Increase back pressure from 55 to 190 psig
August 28, 1979	07.45	*Increased back pressure from 190 to 250 psig
August 28, 1979	13.15	Drained tar knockout pot. 9.4 gallon liquor collected
August 28, 1979	20.00	**Switched from HP/LV compressor to LP/HV compressors but LP/MV air injection has not started yet
August 28, 1979	21.30	Drained tar knockout pot. 20 gallon liquor collected
August 29, 1979	00.30	**LP/HV air injection started
August 29, 1979	05.10	*Reduce back pressure to 120 psig
August 29, 1979	05.50	Drained tar knockout pot. 58 gallon liquor collected
August 29, 1979	06.40	*Reduce back pressure to 100 psig
August 29, 1980	08.41	Power surge
August 29, 1979	11.10	Drained tar knockout pot. 0.25 gallon liquor collected
August 29, 1979	12.25	*Reduce back pressure to 50 psig
August 29, 1979	13.30	Drained tar knockout pot. 82.8 gallon liquor collected

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
August 29, 1979	20.40	Drained tar knockout pot. 50 gallon liquor collected
August 30, 1979	05.50	Drained tar knockout pot. 66.8 gallon liquor collected
August 30, 1979	12.05	Drained tar knockout pot. 30.5 gallon liquor collected
August 30, 1979	15.35	*Increased back pressure to 60 psig
August 30, 1979	20.15	*Reduce back pressure to 50 psig
August 30, 1979	20.45	Drained tar knockout pot. 80 gallon liquor collected
August 31, 1979	06.15	Drained tar knockout pot. 50.7 gallon liquor collected
August 31, 1979	15.50	Drained tar knockout pot. 44 gallon liquor collected
August 31, 1979	20.55	Drained tar knockout pot. 45.5 gallon liquor collected
September 1, 1979	05.10	Drained tar knockout pot. 58 gallon liquor collected
September 1, 1979	12.15	Drained tar knockout pot. 53.4 gallon liquor collected
September 1, 1979	18.15	Drained tar knockout pot. 41 gallon liquor collected
September 1, 1979	23.30	*Ar injection into PI-1
September 2, 1979	00.50	Drained tar knockout pot. 52 gallon liquor collected
September 2, 1979	01.10	*Reduced back pressure in PI-2 to 25 psig
September 2, 1979	01.25	Drained tar knockout pot. 75 gallon liquor collected
September 2, 1979	05.30	Tried to drain tar knockout pot but no liquor found
September 2, 1979	08.30	*Ar injection into PI-1
September 2, 1979	10.55	*Reduced back pressure in PI-2 to 10 psig. Drained tar knockout pot. 35 gallon liquor collected
September 2, 1979	11.30	Drained tar knockout pot. 53 gallon liquor collected
September 3, 1979	01.25	Drained tar knockout pot. Only 1 quart liquor collected
September 3, 1979	14.20	Drained tar knockout pot. 33.7 gallon liquor collected
September 4, 1979	16.30	Drained tar knockout pot. 41 gallon liquor collected
September 5, 1979	14.30	Drained tar knockout pot. 10 gallon liquor collected

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
September 5, 1979	15.25	**System change. Switched production well from PI-2 to PI-3
September 6, 1979	09.00	*System change. Switched production well from PI-3 to PI-2
September 6, 1979	17.30	Drained tar knockout pot. 81.7 gallon liquor collected
September 7, 1979	11.30	Drained tar knockout pot. 14 gallon liquor collected
September 8, 1979	10.00	Drained tar knockout pot. 8 gallon liquor collected
September 8, 1979	19.00	Drained tar knockout pot. 14.13 gallon liquor collected
September 9, 1979	08.30	Drained tar knockout pot. 9.4 gallon liquor collected
September 10, 1979	19.00	Drained tar knockout pot. 13.7 gallon liquor collected
September 11, 1979	20.00	Drained tar knockout pot. 6.3 gallon liquor collected
September 12, 1979	08.00	Drained tar knockout pot. 4.0 gallon liquor collected
September 13, 1979	13.05	**System change. Production out of PI-2 as well as PI-3
September 14, 1979	14.15	Drained tar knockout pot. 23.5 gallon liquor collected
September 17, 1979	08.35	**System change. Close PI-2. Production out of PI-3 only
September 17, 1979	11.07	**System change. Open PI-2
September 17, 1979	11.15	**System change. Close PI-2
September 17, 1979	11.40	**System change. Open PI-2. Close PI-3
September 17, 1979	12.00	Drained tar knockout pot. 65.2 gallon liquor collected
September 17, 1979	13.40	**System change. Open PI-3 and close PI-2
September 17, 1979	19.30	**System change. Open PI-2
September 17, 1979	20.20	Drained tar knockout pot. 3 gallon liquor collected
September 18, 1979	11.15	Drained tar knockout pot. 11.8 gallon liquor collected
September 20, 1979	11.00	**Started injection into PI-3 using HP/LV compressor - HP/LV compressors injection pressure = 300 psig. N change in the PI-1 status

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
September 20, 1979	11.30	*Increased HP/LV regulator to 450 psig. Little flow in PI-3
September 20, 1979	12.20	*Increased HP/LV regulator to 500 psig. Little flow in PI-3
September 20, 1979	13.15	*Increased HP/LV regulator to 580 psig. Still little flow
September 20, 1979	14.40	**HP/LV and LP/HV compressor are off. PI-1 and PI-3 shut in. PI-2 producing
September 20, 1979	16.35	**Start LP/HV injection in PI-1 with PI-3 shut in
September 20, 1979	17.00	*Increase back pressure to 50 psig
September 20, 1979	17.30	*Release back pressure to 10 psig
September 20, 1979	17.35	*Increase back pressure to 50 psig
September 20, 1979	18.00	*Reduce back pressure to 10 psig
September 20, 1979	18.15	*Increase back pressure to 50 psig
September 20, 1979	19.00	*Reduce back pressure to 10 psig
September 20, 1979	19.15	*Increase back pressure to 50 psig and drained tar knockout pot. 37.7 gallon liquor collected
September 20, 1979	21.30	**Open PI-3 and lowered back pressure to 10 psig
September 20, 1979	21.35	Drained tar knockout pot. 2 gallon liquor collected
September 21, 1979	13.30	Drained tar knockout pot. 10 gallon liquor collected
September 21, 1979	17.09	**Close PI-3
September 22, 1979	08.15	*Increase back pressure to 50 psig and drained tar knockout pot. 14.1 gallon liquor collected
September 22, 1979	09.00	*Drop back pressure to 10 psig
September 22, 1979	09.30	*Increase back pressure to 50 psig
September 22, 1979	10.00	*Drop back pressure to 10 psig
September 22, 1979	10.30	*Increase back pressure to 50 psig
September 22, 1979	11.00	*Drop back pressure to 10 psig
September 22, 1979	11.30	*Increase back pressure to 50 psig
September 22, 1979	12.00	*Drop back pressure to 10 psig
September 22, 1979	12.30	*Increase back pressure to 100 psig

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
September 22, 1979	13.00	*Drop back pressure to 10 psig
September 22, 1979	13.30	*Increase back pressure to 100 psig
September 22, 1979	14.00	*Drop back pressure to 10 psig
September 22, 1979	14.30	*Increase back pressure to 100 psig
September 22, 1979	15.00	*Drop back pressure to 10 psig
September 22, 1979	15.30	*Increase back pressure to 100 psig
September 22, 1979	16.00	*Drop back pressure to 10 psig
September 22, 1979	16.30	*Increase back pressure to 100 psig
September 22, 1979	17.00	*Drop back pressure to 10 psig
September 22, 1979	17.30	**Open PI-3
September 23, 1979	07.30	Drained tar knockout pot. 17.3 gallon liquor collected
September 23, 1979	08.13	**Shut in PI-3. Injection in PI-2 using HP/LV compressors. Produce out of PI-1 at 100 psig back pressure
September 23, 1979	10.05	*Inject in PI-2 and PI-3 using HP/LV compressor. Produce out of PI-1
September 23, 1979	11.05	Pressure in PI-2 and PI-3 dropped to 200 psig. Process effect
September 23, 1979	12.00	Drained tar knockout pot. 57.8 gallon black tar collected
September 23, 1979	14.30	**Inject LP/HV air into PI-1 and produce out of PI-2 and PI-3
September 23, 1979	15.35	Drained tar knockout pot. 12.6 gallon liquor collected
September 24, 1979	08.45	*Increase back pressure to 50 psig
September 24, 1979	10.20	*Increase back pressure to 75 psig
September 24, 1979	12.00	**Attempt to drain tar knockout pot failed. Clogged
September 24, 1979	14.40	**Shut in PI-3
September 25, 1979	13.00	Drained tar knockout pot. 19 gallon liquor collected along with the particulate matter
September 25, 1979	14.01	**Open PI-3
September 25, 1979	13.00-13.13	**Water injection into PI-2

<u>DAY</u>	<u>HOURL</u>	<u>COMMENTS</u>
September 27, 1979	16.15	Drained tar knockout pot. No liquor collected
September 28, 1979	08.03	Set back pressure to 100 psig
September 29, 1979	12.10	*Reduced back pressure to 75 psig
September 29, 1979	14.55	*Reduced back pressure to 50 psig
September 30, 1979	08.45	**Shut in PI-2 and PI-3
September 30, 1979	09.15	**Open PI-2 and PI-3
September 30, 1979	10.00	Uncontrolled back pressure of 105 psig
September 30, 1979	11.45	**HP/LV injection in PI-3. LP/HV injection in PI-1 continued
September 30, 1979	13.10	*Shut down HP/LV compressor
October 1, 1979	08.30	**Shut in PI-1
October 1, 1979	10.45	**Shut in PI-2 and PI-3
October 1, 1979	14.05	**Injection in PI-1 with production from PI-2 and PI-3
October 2, 1979	08.30	*Reduced back pressure to 55 psig
October 4, 1979	08.47	**Increase flow
October 4, 1979	16.13	*Increase back pressure to 120 psig
October 5, 1979	09.10	*Shut in PI-2
October 5, 1979	10.15	*Open PI-2
October 6, 1979	08.20	**Started injecting HP/LV air in PI-3 and stopped at 08.35
October 6, 1979	09.05	*Shut in PI-3
October 7, 1979	12.30	**Started injecting HP/LV air in PI-3 and closed PI-1
October 7, 1979	12.40	**Opened PI-1 and closed PI-2
October 7, 1979	14.25	**Injecting HP/LV air in PI-1 and producing out of PI-3
October 7, 1979	15.35	**Switch production to PI-2
October 8, 1979	08.00	*Shut off HP/LV air to PI-1 and started LP/HV air into PI-1
October 8, 1979	08.30	**Booster on line

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
October 8, 1979	08.45	**Booster off line
October 8, 1979	09.40	*Started injecting HP/LV air into PI-1, LP/HV compressor off
October 8, 1979	10.20	*Stop injecting HP/LV air into PI-1 and now injecting with LP/HV air with Booster, by passing hot dog
October 8, 1979	16.00	Attempted to Drain tar knockout pot - but no flow
October 9, 1979	17.35	Attempted to drain tar knockout pot - but no flow
October 9, 1979	19.37	*Injecting HP/LV air into PI-1
October 9, 1979	23.10	**Injecting HP/LV air into PI-2 with PI-1 and PI-3 shut in
October 10, 1979	02.05	**Inject LP/HV air with booster into PI-1 and produce out of PI-2
October 10, 1979	09.05	*Inject HP/LV air into PI-1
October 10, 1979	10.05	*Injecting LP/HV air with Booster into PI-1
October 11, 1979	06.15	Siphoned light oil from knockout pot - 58.9 gallon liquor collected
October 11, 1979	08.05	*Injecting HP/LV air into PI-1
October 11, 1979	13.25	*Injecting LP/HV air into PI-1
October 11, 1979	14.05	**Injecting LP/HV air in all the wells
October 12, 1979	00.00	**Shut in PI-1, PI-2 and PI-3
October 12, 1979	00.30	**Inject HP/LV air in all the wells
October 12, 1979	14.00	*Maintain 420 psig pressure in all the wells
October 12, 1979	17.20	**Shut in all the wells - stopped air injection
October 12, 1979	17.50	**Drained PI-1 to 0 psig
October 12, 1979	20.40	*Bleed PI-2 to 260 psig and shut in
October 12, 1979	22.40	*Bleed PI-3 from 282 to 90 psig but it again started climbing
October 12, 1979	23.25	*Bleed PI-3 from 240 to 100 psig and shut in
October 13, 1979	02.25	**Start injecting HP/LV air into PI-2 and PI-3, reduced PI-1 to 160 psig
October 13, 1979	03.45	**Start injecting HV/LP air into PI-2 and PI-3

<u>DAY</u>	<u>HOURL</u>	<u>COMMENTS</u>
October 13, 1979	04.14	**Start injecting HP/LV air into PI-2 and PI-3
October 13, 1979	04.22	*Drained PI-1 to 130 psig
October 13, 1979	06.04	**Stop air injection and shut in PI-2 and PI-3, and drain PI-1 to 100 psig
October 13, 1979	14.24	**Start HP/LV air injection into PI-2
October 13, 1979	16.00	**Start LP/HV air injection in PI-2
October 13, 1979	17.10	**Start HP/LV air injection in PI-2, produce out of PI-3
October 13, 1979	19.13	**Start LP/HV air injection in PI-1, produce from PI-2
October 13, 1979	20.55	**Stop air injection and continue to produce from PI-2
October 13, 1979	21.08	*Begin bleeding PI-1 to 150 psig
October 13, 1979	22.10	**Start injecting HP/LV to hold PI-1 F 150 psig on and off type
October 15, 1979	16.45	**Reduce PI-1 to 100 psig and shut in. Inject air in PI-2 to 250 psig using LP/HV compressors
October 15, 1979	18.15	**Switch from LP/HV air injection to HP/LV air injection (time to time bleed PI-1 to hold 150 psig pressure)
October 16, 1979	10.00	**Inject LP/HV air into PI-2. Continue to bleed PI-1 to 150 psig. PI-3 shut in
October 16, 1979	10.40	**Started HP/LV injection into PI-2 and shut off LP/HV
October 16, 1979	12.02	**Stop HP/LV air injection into PI-2 and bleed pressure in PI-1 to 120 psig
October 16, 1979	14.28	**Begin bleeding the system through PI-2
October 17, 1979	05.19	**Start HP/LV injection in PI-2
October 17, 1979	07.30	**Inject LP/HV air into PI-2
October 17, 1979	07.53	**Inject HP/LV air into PI-2
October 17, 1979	10.13	**Start LP/HV injection in PI-2
October 17, 1979	11.10	**Started producing out of PI-3
October 17, 1979	11.38	**Start HP/LV air injection in PI-2. HV/LP injection off
October 17, 1979	12.40	**Start LP/HV air injection through hot dog. HP/LV injection off

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
October 18, 1979	13.10	**Start producing out of PI-1 as well as PI-3
October 18, 1979	18.50	**Shut off air and shut in wells
October 18, 1979	18.15	**Start injecting LP/HV air in PI-3 with production from PI-1
October 19, 1979	23.40	*Bleed PI-2 to 125 psig
October 20, 1979	01.05	Close PI-2
October 20, 1979	07.30	Bleed off PI-2 to zero psig
October 20, 1979	09.55	Shut off air and bleed all the wells to zero psig

2.2 LIST OF MAJOR PROCESS CHANGES

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
April 19, 1979	07.50	**Start air injection in PI-3 well, PI-1 and PI-2 shut in
April 19, 1979	08.50	**Close PI-3, open PI-2, PI-3 still closed
April 19, 1979	08.55	**Open PI-2, PI-1 and PI-3 still close
April 19, 1979	09.45	**Close PI-2, open PI-3 to pressurize it to 200 psig
April 19, 1979	09.53	**PI-2 and PI-3 shut in, no change in PI-1 status
April 19, 1979	12.44	**Inject air in PI-3
April 19, 1979	13.37	**Close PI-3 as it has reached 200 psig and open PI-1
April 19, 1979	14.57	**Close PI-1 and hold 275 psig pressure in PI-1, 200 psig pressure in PI-2 and 200 psig in PI-3
April 20, 1979	12.00	**Injected air into PI-1 with PI-2 and PI-3 shut in
April 20, 1979	19.00	**Close PI-1 and maintain 550 psig pressure
May 22, 1979	11.30	**Shut in PI-2. Valve off PI-1 down to 100 psig through tar pot. Pressurize PI-3 to 700 psig. Maintain PI-2 at 800 psig and PI-3 at 700 psig by intermittent injection
June 2, 1979	10.30	**System change. Shut in PI-1, injection in PI-2, PI-3 shut in
June 2, 1979	17.00	**Bleed PI-1 to 700 psig and shut in. Bleed PI-3 to 100 psig and then let it flow
June 9, 1979	12.32	**Ignite #1 fuse in ignition charge - PI-2
June 15, 1979	10.15	**Process change. Switch from PI-3 injection to PI-2 injection
June 15, 1979	14.30	**System change. Switch from PI-2 injection to PI-3 injection
June 16, 1979	08.45	**System change. Switch flow from PI-3 to PI-2
June 16, 1979	12.45	**System change. Switch flow from PI-2 to PI-3
June 16, 1979	16.00	**System change. Switch flow from PI-3 to PI-2
June 16, 1979	18.40	**System change. Switch flow from PI-2 to PI-3
June 17, 1979	09.05	**System change. Switch flow from PI-3 to PI-2
June 17, 1979	14.10	**System change. Switch flow from PI-2 to PI-3

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
June 20, 1979	13.05	**System change. Switch injection flow from PI-3 to PI-2
June 20, 1979	23.20	**System change. Switched flow from PI-2 to PI-3
June 22, 1979	13.40	**System change. Switch flow from PI-3 to PI-2
June 23, 1979	05.00	**System change. Switch flow from PI-2 to PI-3 injection
June 24, 1979	08.00	**System change. Switch flow injection from PI-3 to PI-2
June 24, 1979	22.45	**System change. Switch injection flow from PI-2 to PI-3
June 25, 1979	10.55	**System change. Switch injection flow from PI-3 to PI-2
July 8, 1979	10.00	**System change. Switch flow from PI-2 to PI-3
July 8, 1979	16.30	**System change. Switched flow from PI-3 to PI-2. Drained tar knockout pot. 30 gallon liquor collected
July 9, 1979	14.10	**System change. Switched flow from PI-2 to PI-1. QI= 15-20 scfm at 850 psig, production out of PI-2 at 100 psig, shut in PI-3 at 150 psig
July 27, 1979	12.30	**System change. Switch production from PI-2 to PI-3
July 29, 1979	07.43	**System change. Injection in PI-2, production from PI-1, PI-3 shut-in
July 29, 1979	19.00	**System change. Injection in PI-1, production from PI-2, PI-3 shut-in
July 30, 1979	09.10	**System change. Injection in PI-2, production from PI-1, PI-3 shut-in
July 31, 1979	17.20	**System change. Injection in PI-1, production from PI-2, PI-3 shut-in
August 3, 1979	23.50	**System change. Inject in PI-2 and produce out of PI-1
August 4, 1979	12.30	**System change. Inject in PI-1 and produce out of PI-2
August 6, 1979	09.55	**System change. Inject in PI-3 and produce out of PI-1, PI-2 shut-in
August 8, 1979	05.03	**Shut off compressor. Reduced pressure to 0 psig to remove wire from PI-2 and PI-3
August 8, 1979	10.03	**Started compressors. Injection in PI-3 and production out of PI-1, PI-2 shut in after pressurizing it first to 150 psig
August 10, 1979	16.05	**System change. Injection in PI-1 and production out of PI-3

<u>DAY</u>	<u>HOURL</u>	<u>COMMENTS</u>
August 11, 1979	20.30	**System change. Production out of PI-2, PI-3 shut-in
August 12, 1979	00.59	**System change. Switch production to PI-3
August 14, 1979	07.05	**System shut in to repair generator
August 14, 1979	08.05	**System back on line
August 15, 1979	09.15	**Started LP/HV compressors
August 15, 1979	11.04	**System change. Switch production to PI-2
August 15, 1979	13.05	**Switch to HP/LV compressors
August 19, 1979	07.10	**Switch to LP/HV compressors
August 19, 1979	12.55	**LP/HV compressors down. HP/LV compressors were brought on line
August 19, 1979	13.15	**Switch back to LP/HV compressors
August 20, 1979	04.00	**Started HP/LV compressors air injection. Shut down LP/HV air injection
August 21, 1979	09.20	**HP/LV compressors off, started LP/HV air injection
August 27, 1979	16.35	**Switch from LP/HV compressors to HP/LV compressors. Increase back pressure from 55 to 190 psig
August 28, 1979	20.00	**Switched from HP/LV compressor to LP/HV compressors but LP/HV air injection has not started yet
August 29, 1979	00.30	**LP/HV air injection started
September 5, 1979	15.25	**System change. Switched production well from PI-2 to PI-3
September 13, 1979	13.05	**System change. Production out of PI-2 as well as PI-3
September 17, 1979	08.35	**System change. Close PI-2. Production out of PI-3 only
September 17, 1979	11.07	**System change. Open PI-2
September 17, 1979	11.15	**System change. Close PI-2
September 17, 1979	11.40	**System change. Open PI-2, close PI-3
September 17, 1979	13.40	**System change. Open PI-3 and close PI-2
September 17, 1979	19.30	**System change. Open PI-2
September 20, 1979	11.00	**Started injection into PI-3 using HP/LV compressor. HP/LV compressors injection pressure = 300 psig. No change in the PI-1 status

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
September 20, 1979	14.40	**HP/LV and LP/HV compressor are off. PI-1 and PI-3 shut in. PI-2 producing
September 20, 1979	16.35	**Start LP/HV injection in PI-1 with PI-3 shut in
September 20, 1979	21.30	**Open PI-3 and lowered back pressure to 10 psig
September 21, 1979	17.09	**Close PI-3
September 22, 1979	17.30	**Open PI-3
September 23, 1979	08.13	**Shut in PI-3. Injection in PI-2 using HP/LV compressors. Produce out of PI-1 at 100 psig back pressure
September 23, 1979	14.30	**Inject LP/HV air into PI-1 and produce out of PI-2 and PI-3
September 24, 1979	12.00	**Attempt to drain tar knockout pot failed. Clogged
September 24, 1979	14.40	**Shut in PI-3
September 25, 1979	14.01	**Open PI-3
September 25, 1979	13.00-13.13	**Water injection into PI-2
September 30, 1979	08.45	**Shut in PI-2 and PI-3
September 30, 1979	09.15	**Open PI-2 and PI-3
September 30, 1979	11.45	**HP/LV injection in PI-3. LP/HV injection in PI-1 continued
October 1, 1979	08.30	**Shut in PI-1
October 1, 1979	10.45	**Shut in PI-2 and PI-3
October 1, 1979	14.05	**Injection in PI-1 with production from PI-2 and PI-3
October 6, 1979	08.20	**Started injecting HP/LV air in PI-3 and stopped at 08.35
October 7, 1979	12.30	**Started injecting HP/LV air in PI-3 and closed PI-1
October 7, 1979	12.40	**Opened PI-1 and closed PI-2
October 7, 1979	14.25	**Injecting HP/LV air in PI-1 and producing out of PI-3
October 7, 1979	15.35	**Switch production to PI-2
October 8, 1979	08.30	**Booster on line
October 8, 1979	08.45	**Booster off line
October 9, 1979	23.10	**Injecting HP/LV air into PI-2 with PI-1 and PI-3 shut in

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
October 10, 1979	02.05	**Inject LP/HV air with booster into PI-1 and produce out of PI-2
October 11, 1979	14.05	**Injecting LP/HV air in all the wells
October 12, 1979	00.00	**Shut in PI-1, PI-2, and PI-3
October 12, 1979	00.30	**Inject HP/LV air in all the wells
October 12, 1979	17.20	**Shut in all the wells. Stopped air injection
October 12, 1979	17.50	**Drained PI-1 to 0 psig
October 13, 1979	02.25	**Start injecting HP/LV air into PI-2 and PI-3, reduced PI-1 to 160 psig
October 13, 1979	03.45	**Start injecting HV/LP air into PI-2 and PI-3
October 13, 1979	04.14	**Start injecting HP/LV air into PI-2 and PI-3
October 13, 1979	06.04	**Stop air injection and shut in PI-2 and PI-3, and drain PI-1 to 100 psig
October 13, 1979	14.24	**Start HP/LV air injection into PI-2
October 13, 1979	16.00	**Start LP/HV air injection in PI-2
October 13, 1979	17.10	**Start HP/LV air injection in PI-2, produce out of PI-3
October 13, 1979	19.13	**Start LP/HV air injection in PI-1, produce from PI-2
October 13, 1979	20.55	**Stop air injection and continue to produce from PI-2
October 13, 1979	22.10	**Start injecting HP/LV to hold PI-1 < 150 psig. On and off type
October 15, 1979	16.45	**Reduce PI-1 to 100 psig and shut in. Inject air in PI-2 to 250 psig using LP/HV compressors
October 15, 1979	18.15	**Switch from LP/HV air injection to HP/LV air injection (time to time bleed PI-1 to hold 150 psig pressure)
October 16, 1979	10.00	**Inject LP/HV air into PI-2. Continue to bleed PI-1 to 150 psig. PI-3 shut in
October 16, 1979	10.40	**Started HP/LV injection into PI-2 and shut off LP/HV
October 16, 1979	12.02	**Stop HP/LV air injection into PI-2 and bleed pressure in PI-1 to 120 psig
October 16, 1979	14.28	**Begin bleeding the system through PI-2
October 17, 1979	05.19	**Start HP/LV injection in PI-2
October 17, 1979	07.30	**Inject LP/HV air into PI-2

<u>DAY</u>	<u>HOUR</u>	<u>COMMENTS</u>
October 17, 1979	07.53	**Inject HP/LV air into PI-2
October 17, 1979	10.13	**Start LP/HV injection in PI-2
October 17, 1979	11.10	**Started producing out of PI-3
October 17, 1979	11.38	**Start HP/LV air injection in PI-2. HV/LP injection off
October 17, 1979	12.40	**Start LP/HV air injection through hot dog. HP/LV injection off
October 18, 1979	13.10	**Start producing out of PI-1 as well as PI-3
October 18, 1979	16.50	**Shut off air and shut in wells
October 18, 1979	18.15	**Start injecting LP/HV air in PI-3 with production from PI-1

in P/I well pressures, these undesirable phenomena stopped. On October 13 at 2300 hr, P/I-2 and P/I-3 well pressures were reduced to 0 psig. On October 16 at 0100 hr, P/I-2 and P/I-3 pressures were raised, and this led to the production of very turbid water from well 41 on October 19. Some gas bubbles were also observed in the spring at location G. Finally, pressures in all wells were dropped to 0 psig, stopping all undesirable phenomena. WVU monitored the shallow water and deep water quality changes during this period as described in the following sections.

5.4.1 Shallow Water Quality Changes

WVU collected several samples to monitor shallow water quality changes. As can be seen from Figures 54 and 55, there were changes in the phenol levels at the eight monitored streams and shallow wells. There was a rise in the phenol level during the second week of September. The highest level occurred on October 15 and perhaps was the cause of bad tasting water. On October 12, the phenol level in two samples of water collected from well 51 was below normal. But subsequent sampling on October 15 and onwards showed a return to near normal conditions. A sample collected on October 19 at well 41 also showed a normal chemical analysis but a high level of turbidity.

After the last a ruptured casing was observed at the 205-ft level of P/I-2. This could accounting for the gas bubbles at sites D and G and this water quality in the well 51. This could also explain the high phenol concentrations as shown in Figures 54 and 55.

Because of the low permeabilities of the rocks, gas pressure within the burn zone had virtually no effect on the shallow ground water quality. Most of the observed effects stem from the gas that escaped when the casing ruptured.

5.4.2 Deep Water Quality Changes

There were chemical changes in the water quality of the deep H-1 well at the end of October 1979. From this period onward, there were increasing amounts of sulfate, iron, and zinc; hardness increased; but pH decreased. Rupturing of the casing might be somewhat responsible for it.

5.5 TAR AND LIGHT OIL MONITORING

The light oil collected in the knockout pot during the UCG operation was characterized. Elution chromatography, gas chromatography, mass spectrometry, nuclear magnetic resonance, infrared spectroscopy, elemental analysis, and physical tests were used to characterize the oil. The oil can be characterized as a light, highly aromatic mixture with very significant amounts of phenol (10-25%).

The data in Table 14 show that close to 30% of the condensate collected in the knockout pot is comprised of oil. The results in Table 15 show that during link enhancement, the period of frequent sampling (11 samples), that the rate of oil production was about 15 gal a day. The oil samples were analyzed for boiling range, specific gravity, and viscosity. In addition, analysis were made for

sulfur, phenol, phenolic oxygen pyroles, and pyrrolic nitrogen. The oil samples were separated into saturate (paraffin naphthene); aromatics; asphaltene; and nitrogen, sulfur, and oxygen (NSO) containing fractions by elution chromatography.

The overall composition of the knockout pot oil in terms of elution chromatography fractions is given in Table 16. Recoveries ranged from 45 to 78%. Asphaltenes ranged from 5.2 to 17%, paraffins-naphthenes (saturates) from 0.3 to 1.5, aromatics from 23 to 52%, and eluted NSO's from 8.8 to 16.5%.

The major types of compounds in the oil as identified by CG/MS on fractions obtained from Elution Chromatography, fractional distillation and atmospheric distillation, were benzene, toluene, xylenes, trimethyl benzenes, phenol, cresols, naphthalene, methyl naphthalenes, dimethyl phenol, dimethylnaphthalenes, dibenzofuran, phenanthrene, fluoranthene, and pyrene. These results, are given semi-quantitatively in Tables 17 and 18, indicated that naphthalene is the major component in the oil with significant amounts of substituted naphthalenes and phenols.

There were numerous other polynuclear aromatic (PNA) and aromatic compounds in the oil. Some PNA's that exist in the water layer in the knockout pot are shown in Table 19. There are PNA's that have an equilibrium distribution in the oil and water phases in the knockout pot and, therefore, all of them can be considered to be present in the oil in minor amounts.

Infrared analyses for phenols and pyrrolic structures in the oil were also performed. Phenol concentrations ranged from 13 to 25% (see Table 20). Phenolic oxygen and pyrrolic nitrogen is also tabulated.

The elemental analysis results are listed in Table 21. Sulfur levels were high, ranging from 0.9 to 2.0%. Carbon ranged from 85.6 to 89.7% and hydrogen from 6.9 to 8.34%. The H/C atomic ratio ranged from 0.92 to 1.17 throughout the period of the experiment. These rather low values for H/C ratio indicated that the oil was very unsaturated. During the link enhancement phase, the H/C ratio showed a decrease with the low H/C ratio on the final days before actual gasification. The oil was gradually increasing in aromatic character during this period.

The water produced in the process knockout pot contained phenolic and polynuclear aromatic compound priority pollutants, and care should be exercised in its disposal.

During the Pricetown operation, tar oils and water were collected in drums and then sent to be disposed. There was no harm to the environment, and none of the EPA regulations were violated.

Table 14 Knockout Pot Condensates Collected During Various Phases of Pricetown I Underground Coal Gasification Experiment Contain Large Percentage of Oil

	Condensate ^a (gal)	Oil (gal)	Oil (%)	Date
Link 1 ^b	—	—	—	June 9-15
Link 2 ^b	190	est 60	32	June 15-July 9
Link 3	17	est 11	65	July 9-July 23
Link Enhancement (Phase 1 & 2)	3240	870	27	July 23-Sept 23
Gasification ^c	<u>19</u>	<u>est 19</u>	<u>100</u>	Sept 23-Oct 5
Totals	3466	960	28	

^aCondensate consists of water, light oil, small amount of heavy tar.

^bKnockout pot not emptied until July 2, 1979. Flow-by may be occurring because of partially full knockout pot.

^cKnockout pot plugged with heavy tar on second day of gasification.

Table 15 Rate of Oil Production During Linkage Through Gasification

<u>Dates</u>	<u>Phase</u>	<u>Days</u>	<u>Rate Production (gal/day)</u>
June 9-15	Linkage 1	5.8	a
June 15-July 9	Linkage 2	23.8	2.5 ^a
July 9-July 23	Linkage 3	14.0	.8
July 23-Sept 23	Link Enhancement (Phase 1 & 2)	59.5	14.6
Sept 23-Oct 5	Gasification	11.8	b

^aKnockout pot not emptied until July 2, 1979. Flow-by may be occurring because of partially full knockout pot.

^bKnockout pot plugged with heavy tar on second day of gasification.

Table 16 Elution Chromatograph in Analysis from Pricetown I Knockout Pot

<u>Sample ID</u>	<u>% Recovery^a</u>	<u>% Asphaltene^b</u>	<u>% Paraffin Naphthene</u>	<u>% Aromatics</u>	<u>% Eluted NSO</u>
7/2/79 #1	64.2	12.8	0.9	36.3	14.2
7/5/79	62.4	10.2	0.9	35.5	15.8
7/12/79-1700	49.9	6.7	0.9	31.2	11.1
7/29/79-1500	45.9	8.4	1.4	23.6	12.5
8/17/79-1030	46.4	5.2	1.5	23.2	16.5
8/19/79-1100	45.0	7.0	2.4	24.2	11.4
9/5/79-1530	70.1	14.4	0.36	43.0	12.3
9/7/79-1230	78.1	8.9	0.39	52.3	16.5
9/17/79-1300	67.1	16.9	0.33	41.1	8.8

^aRecovery is less than 100% because of the loss of volatile components during solvent evaporation steps. As a guide, loss of volatile components boiling below 200-250 °C occurs during the evaporation steps. See boiling range data, Table 6. Another minor source of loss is retention of NSO compounds on column.

^bPentane insolubles.

Table 17 Semiquantitative GC/MS Results For Knockout Pot Oils Showing
Concentration of Components in the Aromatic Fraction

Sample	Compound	Percent Aromatic Fraction
Aromatic fraction from 7/12/79 comprises 31.2% of the total oil sample.	Naphthalene	12
	Methylnaphthalenes	17
	Dimethylnaphthalenes	18
	Phenanthrene	14
	Fluoroanthene	4
	Pyrene	<u>4</u>
	Total	69
<hr/>		
Aromatic fraction from 7/2/79 comprises 36.3% of the total sample.	Naphthalene	24
	Methylnaphthalenes	23
	Methylnaphthalenes	17
	Phenanthrene	13
	Fluoroanthene	2
	Pyrene	<u>2</u>
	Total	81

Table 18 Semiquantitative GC/MS Results For Distillation
Fractions of Knockout Pot Oil

Sample	Compound	Percent Distillate Fraction
Atmospheric distillate fraction boiling 200°C from 7/2/79 comprises 24% of oil by volume.	Benzene	25
	Toluene	19
	Xylene	14
	Trimethylbenzene	4
	Phenol	4
	Cresols	6
	Naphthalene	8
	Total	80
Distillate fraction boiling less than 60°C at 144 mm Hg for 7/24/79.	Xylenes	8
	Trimethylbenzene	6
	Phenol	6
	Cresols	19
	Naphthalene	25
	Methylnaphthalenes	10
	Total	74
Distillate fraction boiling less than 72°C at 136 mm Hg for 7/24/79.	Naphthalene	20
	Dimethylphenol	7
	Methylnaphthalene	26
	Dimethylnaphthalenes	19
	Dibenzofuran	4
	Phenanthrene	5
	Cresols	5
	Total	86

**Table 19 Phenol and Polynuclear Aromatic Hydrocarbon Analysis
For Water Sampled From Pricetown I Knockout Pot**

<u>Compounds Detected</u>	<u>Concentration (g/L)</u>
Phenol	1,500,000
Cresols	1,700,000
C ₂ -Alkyl phenols	330,000
C ₃ -Alkyl phenols	64,000
Naphthalene	86,000
Methyl-naphthalenes	49,000
C ₂ -Alkyl-naphthalenes	38,000
C ₃ -Alkyl-naphthalenes	31,000
C ₄ -Alkyl-naphthalenes	12,000
Biphenyl	8,300
Acenaphthylene	1,600
Acenaphthene	9,500
Dibenzofuran	9,800
Methyl-biphenyls/acenaphthene	3,400
Fluorene	16,000
C ₂ -Alkyl-biphenyls/acenaphthenes	9,900
Methyl-fluorenes	6,800
C ₃ -Alkyl-biphenyls/acenaphthenes	7,300
C ₄ -Alkyl-biphenyls/acenaphthenes	5,900
Anthracene/phenanthrene	45,000
Methyl-anthracenes/phenanthrenes	15,000
C ₂ -Alkyl-anthracenes/phenanthrenes	9,400
Cyclopenta-anthracene/phenanthrene	1,700
Fluoranthene	11,000
Pyrene	10,000
Methyl-fluoranthenes/pyrenes	12,000
C ₂ -Alkyl-fluoranthenes/pyrenes	4,600
Uncharacterized POM, MW232	4,600
C ₄ -Alkyl-anthracenes/phenanthrenes	2,100
Benz(a)anthracene/chrysene	9,000
Methyl-benzanthracenes/chrysenes	6,600
C ₂ -Alkyl-benzanthracenes/chrysenes	7,100
Benzofluoranthenes	7,800
Benzopyrenes/perylene	3,700
Methyl-cholanthrene	120
Dibenzanthracenes	940
Indeno(1,2,3-cd) pyrene	2,600
Benzo(ghi) perylene/anthanthrene	1,100
Dibenzopyrenes	2,100
Benzoic acid/anhydride	6,700
Bis(2-ethylhexyl)phthalate	300

Table 20 Analyses^a of Oils Sampled From Pricetown I Knockout Pot
Show Large Phenol Concentrations and Minor Amounts of
Pyrroles

Sample ID	% Phenols ^b	% Phenolic Oxygen	% Pyrroles ^c	% Pyrrolic Nitrogen
7/2/79 #1	18	3.1	0.65	0.13
7/2/79 #2	—	—	—	—
7/5/79	14	2.3	0.64	0.14
7/12/79-1700	17	2.9	0.56	0.12
7/24/79	13	2.2	0.40	0.10
7/29/79-1500	19	3.3	0.47	0.10
8/17/79-1030	19	3.2	0.43	0.10
8/19/79-1100	21	3.6	0.47	0.10
9/5/79-1530	15	2.6	1.02	0.21
9/7/79-1230	17	2.9	1.00	0.21
9/14/79-1515	15	2.5	0.75	0.16
9/17/79-1300	15	2.6	1.11	0.23
9/22/79-0900	25	4.2	0.93	0.19

^aAnalyses based on Exxon infrared method using OH stretch₁ band at 3600 cm⁻¹ for phenols and N-H stretch band at 3470 cm⁻¹ for pyrroles (10).

^bPhenols include naphthols and phenols.

^cPyrroles include pyrroles, indoles and carbazoles and perhaps small contributions from secondary amines and amides.

Table 21 Elemental Analyses^a of Pricetown I Knockout Pot Oils and Sludge

Sample ID	Type	% C	% H	Atomic H/C	% N	% O	% S
7/2/79 #1	Oil	86.31	7.95	1.11	0.73	1.90	1.7
7/2/79 #2	Oil	86.29	7.77	1.08	0.71	1.92	1.6
7/5/79	Oil	86.97	7.61	1.05	0.75	2.12	1.4
7/12/79-1700	Oil	86.52	7.54	1.05	1.25	1.88	1.4
7/24/79	Oil	85.62	8.34	1.17	1.18	1.99	1.2
7/29/79-1500	Oil	89.66	8.24	1.10	1.36	2.12	1.2
8/17/79-1030	Oil	88.49	8.22	1.11	1.39	2.10	1.5
8/19/79-1100	Oil	88.57	8.13	1.10	1.27	2.16	2.0
	Trace Water						
9/1/79-0630	Water 5% sludge ^a	15.72	9.74	—	3.49	63.71	0.2
9/5/79-1530	Oil	89.85	6.94	.93	1.28	2.41	0.9
9/7/79-1230	Oil	88.61	6.97	.95	1.30	2.18	1.0
9/14/79-1515	Water 5% sludge ^a	86.29	7.24	—	1.32	3.49	0.8
9/17/79-1300	Heavy Oil	90.36	6.91	.92	1.55	1.90	1.2
9/22/79-0900	Water 2% sludge ^a	83.94	7.21	—	1.29	4.93	1.0
9/23/79-1300	50% Oil 50% sludge ^a	29.75	8.14	—	1.13	60.73	3.7

^aAll analyses with Carlo Erba analyzer except for sulfur which was analyzed with LECO analyzer.

^bSludge is a tar like material mixed with water.

5.6 SUMMARY

The Pricetown I UCG experiment did not have any lasting harmful effects on the environment. Migration of pollutants was very slow because of the depth of coal seam and the nearby rock permeabilities. There was only one exception to this that occurred during the second week of October. A rupture in the casing lead to some undesirable temporary aquifer pollution.

Incinerator shutdown during the second and third week of June led to some high concentrations of harmful gases on the site but proper safety measures were used, and no harm was done.

6. REFERENCES

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2. Johnson, J. L., "Advances in Chemistry," Series No. 131 (1974).
3. Kim, A. G., "Estimating Methane Content of Bituminous Coal Beds From Adsorption Data," RI 8245, U. S. Department of Interior, Bureau of Mines, (1979)
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6. Tyutin, F. G., "The Formation, State and Position of the Blast - Gas Channel and the Combustion Face and of Cavities in the Gasification Void (According to Findings from Opening Up Experimental Generator No. 1 at the Lisichansk U.G. Station)," p.G.U. No. 4, (1958), pp 30-36.
7. "METC/Mound Recommended Safety Procedures," Unpublished report, (1979).

APPENDIX A
PROCESS CHANGES COMPILATION ALONG WITH PROCESS DETAILS

Subscripts: Used at the bottom of well pressure listings

I Injection Well

P Production Well

C Well is Closed

B Well is Bleeding

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

DATE	HOUR	DATE	HOUR	INFLD	OUTFLD	PI1	PI2	PI3	W2	W2	CH4	C3	C2	H2S	AR	CO2	BTU	C3_CO2	H2_C44	CH4_H2S
	07:50			**START AIR INJECTION IN PI-3 WELL, PI-1 AND PI-2 SHUT IN																
19APR79	8	19APR79	8	23.6	0.0															
	08:50			**CLOSE PI-3, OPEN PI-2, PI-3 STILL CLOSED/08.55**OPEN PI-2, PI-1 AND PI-3 STILL CLOSE																
19APR79	9	19APR79	9	49.8	0.0															
	09:45			**CLOSE PI-2, OPEN PI-3 TO PRESSURIZE IT TO 200 PSIG/09.53**PI-2 AND PI-3 SHUT IN, NO CHANGE IN PI-1 STATUS																
19APR79	10	19APR79	10	22.7	0.0															
	12:44			**INJECT AIR IN PI-3																
19APR79	13	19APR79	13	34.3	0.0															
	13:37			**CLOSE PI-3 AS IT HAS REACHED 200 PSIG AND OPEN PI-1																
19APR79	14	19APR79	14	54.9	0.0	115	213	215												
	14:57			**CLOSE PI-1 AND HOLD 275 PSIG PRESSURE IN PI-1, 200 PSIG PRESSURE IN PI-2 AND 200 PSIG IN PI-3.																
19APR79	15	19APR79	15		0.0	200	213	215												
19APR79	16	19APR79	16	56.2	0.0	290	213	215												
19APR79	17	19APR79	17			285	213	213												
19APR79	18	19APR79	18			280	213	213												
19APR79	19	19APR79	19	2.1	0.0	290	213	210												
19APR79	20	19APR79	20	0.0	0.0	290	212	210												
	20:25			*BROUGHT PI-1 FROM 260 TO 275 PSIG/BROUGHT PI-2 WELL FROM 195 PSIG TO 200 PSIG.																
19APR79	21	19APR79	21	21.3	0.0	280	212	215												
	21:45			*BROUGHT PI-3 WELL FROM 195 TO 200 PSIG.																
19APR79	22	19APR79	22	39.8	0.0	295	212	213												
19APR79	23	19APR79	23	0.0	0.0	285	215	215												
	23:53			*BROUGHT PI-1 FROM 270 TO 275 PSIG.																
20APR79	0	20APR79	0	46.4	0.0	295	215	207												
	00:40			*BROUGHT PI-3 FROM 190 TO 200 PSIG.																
20APR79	1	20APR79	1	41.7	0.0	290	215	215												
20APR79	2	20APR79	2	10.3	0.0	287	214	214												
20APR79	3	20APR79	3	26.5	0.0	286	214	213												
20APR79	4	20APR79	4	30.2	0.0	290	214	213												
20APR79	5	20APR79	5	24.0	0.0	290	213	210												
	05:27			*BROUGHT PI-3 FROM 190 TO 200 PSIG																
20APR79	6	20APR79	6			285	214	205												
20APR79	7	20APR79	7			280	210	215												
20APR79	8	20APR79	8			275	210	215												
	08:05			*BROUGHT PI-1 FROM 260 TO 275 PSIG																
20APR79	9	20APR79	9			287	213	213												

2

[illegible]

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

3

DATE	HOUR	DATE	HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_C32	H2	CH4	CH4	H2S
TO 00 PI-1 IS BEING MAINTAINED AT 510-525 PSIG																						
21APR79	10	21APR79	10	0.0	0.0	540	272	210														
21APR79	11	21APR79	11			540	275	210														
21APR79	12	21APR79	12			535	280	210														
21APR79	13	21APR79	13			535	285	209														
21APR79	14	21APR79	14			530	289	207														
21APR79	15	21APR79	15			530	295	208														
21APR79	16	21APR79	16			540	300	205														
21APR79	17	21APR79	17			535	303	215														
21APR79	18	21APR79	18			540	305	215														
21APR79	19	21APR79	19	0.0	0.0	515	311	215														
21APR79	20	21APR79	20		0.0	525	315	214														
21APR79	21	21APR79	21			525	315	213														
21APR79	22	21APR79	22			525	325	213														
21APR79	23	21APR79	23			525	328	213														
22APR79	0	22APR79	0			525	333	213														
22APR79	1	22APR79	1			525	335	213														
22APR79	2	22APR79	2			525	343	213														
22APR79	3	22APR79	3			535	345	213														
22APR79	4	22APR79	4			535	355	213														
22APR79	5	22APR79	5			535	355	213														
22APR79	6	22APR79	6			535	360	213														
22APR79	7	22APR79	7			535	364	213														
22APR79	8	22APR79	8	0.0	0.0	535	365	213														
22APR79	9	22APR79	9	0.0	0.0	535	370	213														

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

4

DATE	HOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4	H2S
22APR79	10	22APR79	10	0.0	0.0	535	375	213														
22APR79	11	22APR79	11	3.4	0.0	525	377	213														
22APR79	12	22APR79	12	7.2	0.0	525	382	214														
22APR79	13	22APR79	13	6.2	0.0	520	386	214														
22APR79	14	22APR79	14	5.7	0.0	520	390	214														
22APR79	15	22APR79	15	8.0	0.0	520	395	214														
22APR79	16	22APR79	16	5.7	0.0	525	400	214														
22APR79	17	22APR79	17	11.7	0.0	525	402	213														
22APR79	18	22APR79	18	3.8	0.0	525	404	213														
22APR79	19	22APR79	19	3.4	0.0	525	406	213														
22APR79	20	22APR79	20	6.3	0.0	525	410	213														
22APR79	21	22APR79	21	5.4	0.0	525	415	212														
22APR79	22	22APR79	22	5.9	0.0	525	415	212														
22APR79	23	22APR79	23	7.2	0.0	525	415	212														
23APR79	0	23APR79	0	8.1	0.0	525	415	215														
23APR79	1	23APR79	1	7.3	0.0	525	420	215														
23APR79	2	23APR79	2	7.5	0.0	525	422	215														
23APR79	3	23APR79	3	6.7	0.0	525	425	215														
23APR79	4	23APR79	4	6.8	0.0	525	430	215														
23APR79	5	23APR79	5	7.1	0.0	525	433	215														
23APR79	6	23APR79	6	6.4	0.0	525	433	215														
23APR79	7	23APR79	7		0.0	525	434	216														
23APR79	8	23APR79	8			525	435	216														
23APR79	9	23APR79	9			525	437	217														

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

5

DATE	HOJR	DATE	HOJR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CJ	O2	H2S	AR	CO2	BTU	CO2_CJ2	H2_CH4	CH4	H2S
23APR79	10	23APR79	10						525	439	217										
23APR79	11	23APR79	11	10 42					525	441	217										
WATER LEVEL WAS CHECKED IN PI-1, 905.15 FT.																					
23APR79	12	23APR79	12						525	443	217										
23APR79	13	23APR79	13						525	444	218										
23APR79	14	23APR79	14						525	445	219										
23APR79	15	23APR79	15						525	446	219										
23APR79	16	23APR79	16						515	447	219										
23APR79	17	23APR79	17						515	450	219										
23APR79	18	23APR79	18						515	452	219										
23APR79	19	23APR79	19						515	453	219										
23APR79	20	23APR79	20						515	453	220										
23APR79	21	23APR79	21						515	453	223										
23APR79	22	23APR79	22						515	454	223										
23APR79	23	23APR79	23						515	455	225										
24APR79	0	24APR79	0						525	455	225										
24APR79	1	24APR79	1						525	455	220										
24APR79	2	24APR79	2						525	455	225										
24APR79	3	24APR79	3						525	455	227										
24APR79	4	24APR79	4	0.0	0.0				525	455	227										
24APR79	5	24APR79	5	4.2	0.0				525	455	224										
24APR79	6	24APR79	6	4.5	0.0				525	457	225										
24APR79	7	24APR79	7						525	457	225										
24APR79	8	24APR79	8						525	459	225										
24APR79	9	24APR79	9	7.0	0.0				525	460	228										

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

6

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO2	H2	CH4	CH4	H2S
24APR79	10	24APR79	10	6.6	0.0	525	460	228														
24APR79	11	24APR79	11	6.8	0.0	525	462	230														
24APR79	12	24APR79	12	6.8	0.0	525	463	230														
24APR79	13	24APR79	13	19.5	0.0	525	463	230														
24APR79	14	24APR79	14	38.4	0.0	595	463	232														
24APR79	15	24APR79	15			595	465	233														
24APR79	16	24APR79	16			600	469	233														
24APR79	17	24APR79	17			605	473	234														
24APR79	18	24APR79	18			605	475	235														
24APR79	19	24APR79	19			610	478	238														
24APR79	20	24APR79	20			610	485	240														
24APR79	21	24APR79	21			613	497	240														
24APR79	22	24APR79	22			613	490	241														
24APR79	23	24APR79	23			615	495	245														
25APR79	0	25APR79	0	5.9	0.0	615	500	250														
25APR79	1	25APR79	1	5.1	0.0	615	505	250														
25APR79	2	25APR79	2	5.2	0.0	615	505	255														
25APR79	3	25APR79	3	4.4	0.0	615	515	255														
25APR79	4	25APR79	4	5.8	0.0	615	515	260														
25APR79	5	25APR79	5	4.6	0.0	615	515	264														
25APR79	6	25APR79	6	7.7	0.0	615	515	264														
25APR79	7	25APR79	7	7.5	0.0	615	517	265														
25APR79	8	25APR79	8	7.9	0.0	615	520	265														
25APR79	9	25APR79	9	6.8	0.0	605	525	268														

13:40 *INCREASE PI-1 TO 600 PSIG AND LET PI-3 SEEK ITS DOWN PRESSURE ALONG WITH PI-2

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APPIL

7

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO2	H2	CH4	CH4	H2S
25APR79	10	25APR79	10	5.8	0.0	605	525	270														
			11:00	WATER LEVEL WAS CHECKED IN H-1, 546 FT.																		
25APR79	11	25APR79	11			605	525	275														
25APR79	12	25APR79	12			605	527	275														
25APR79	13	25APR79	13			605	527	280														
25APR79	14	25APR79	14			595	527	280														
25APR79	15	25APR79	15			595	529	280														
25APR79	16	25APR79	16			590	530	285														
25APR79	17	25APR79	17			595	530	288														
25APR79	18	25APR79	18			590	530	286														
25APR79	19	25APR79	19			600	530	285														
25APR79	20	25APR79	20			600	530	285														
25APR79	21	25APR79	21			600	530	286														
25APR79	22	25APR79	22			610	530	287														
25APR79	23	25APR79	23			600	530	288														
26APR79	0	26APR79	0			605	531	290														
26APR79	1	26APR79	1			605	531	290														
26APR79	2	26APR79	2			605	530	290														
26APR79	3	26APR79	3			605	530	295														
26APR79	4	26APR79	4			605	530	295														
26APR79	5	26APR79	5			605	530	295														
26APR79	6	26APR79	6			605	530	295														
26APR79	7	26APR79	7			605	530	295														
26APR79	8	26APR79	8			605	530	300														
26APR79	9	26APR79	9	7.1	0.0	605	530	305														

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

8

DATE	HOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4	H2S
26APR79	10	26APR79	10	8.1	0.0	605	530	307														
26APR79	11	26APR79	11	7.5	0.0	600	526	305														
26APR79	12	26APR79	12	7.7	0.0	600	526	306														
26APR79	13	26APR79	13	8.0	0.0	600	525	306														
26APR79	14	26APR79	14	7.5	0.0	600	525	309														
26APR79	15	26APR79	15	8.4	0.0	600	520	312														
26APR79	16	26APR79	16	8.8	0.0	600	525	312														
26APR79	17	26APR79	17			600	525	313														
26APR79	18	26APR79	18	9.0	0.0	605	525	315														
26APR79	19	26APR79	19	7.5	0.0	605	525	314														
26APR79	20	26APR79	20	6.7	0.0	605	524	314														
26APR79	21	26APR79	21	8.4	0.0	605	524	314														
26APR79	22	26APR79	22	6.8	0.0	600	524	315														
26APR79	23	26APR79	23	6.2	0.0	600	524	315														
27APR79	0	27APR79	0	6.6	0.0	605	525	315														
27APR79	1	27APR79	1	7.8	0.0	605	525	315														
27APR79	2	27APR79	2	8.1	0.0	605	525	315														
27APR79	3	27APR79	3	7.6	0.0	605	525	315														
27APR79	4	27APR79	4	6.6	0.0	605	525	315														
27APR79	5	27APR79	5	11.0	0.0	605	525	315														
27APR79	6	27APR79	6	6.9	0.0	605	525	315														
27APR79	7	27APR79	7			525	523	316														
27APR79	8	27APR79	8			605	520	320														
27APR79	9	27APR79	9			605	520	320														

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

9

DATE	HOJP	DATE	HOUP	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4	H2S
27APR79	10	27APR79	10			605	523	323														
27APR79	11	27APR79	11			605	523	324														
27APR79	12	27APR79	12			605	523	320														
27APR79	13	27APR79	13			605	523	322														
27APR79	14	27APR79	14			605	523	322														
27APR79	15	27APR79	15			605	520	323														
27APR79	16	27APR79	16			605	519	324														
27APR79	17	27APR79	17			605	520	323														
27APR79	18	27APR79	18			605	518	320														
27APR79	19	27APR79	19			605	516	320														
27APR79	20	27APR79	20			605	516	320														
27APR79	21	27APR79	21			605	516	320														
27APR79	22	27APR79	22			605	516	320														
27APR79	23	27APR79	23			605	516	320														
28APR79	0	28APR79	0			605	520	320														
28APR79	1	28APR79	1			605	516	320														
28APR79	2	28APR79	2			605	517	320														
28APR79	3	28APR79	3			605	517	320														
28APR79	4	28APR79	4			605	516	320														
28APR79	5	28APR79	5			605	516	320														
28APR79	6	28APR79	6			605	516	320														
28APR79	7	28APR79	7			605	517	323														
28APR79	8	28APR79	8			605	520	323														
28APR79	9	28APR79	9			605	520	323														

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

10

DATE	HOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4	H2S
28APR79	10	28APR79	10			605	520	323														
28APR79	11	28APR79	11	11:00	WATER LEVEL WAS CHECKED IN H-7, 547 FT.	605	520	323														
28APR79	12	28APR79	12			605	520	323														
28APR79	13	28APR79	13	13:00	WATER LEVEL WAS CHECKED IN PI-1, 905.5 FT.	605	517	323														
28APR79	14	28APR79	14																			
28APR79	15	28APR79	15		6.4	0.0	605															
28APR79	16	28APR79	16		9.0	0.0	615	525	335													
28APR79	17	28APR79	17		8.9	0.0	615	525	335													
28APR79	18	28APR79	18		8.5	0.0	615	525	335													
28APR79	19	28APR79	19		5.5	0.0	615	525	335													
28APR79	20	28APR79	20				615	525	335													
28APR79	21	28APR79	21				615	525	335													
28APR79	22	28APR79	22				620	525	340													
28APR79	23	28APR79	23		6.6	0.0	620	525	340													
29APR79	0	29APR79	0		12.1	0.0	613	520	326													
29APR79	1	29APR79	1		16.7	0.0	604	520	326													
29APR79	2	29APR79	2		0.0	0.0	582	520	326													
29APR79	3	29APR79	3		21.6	0.0	576	519	325													
29APR79	4	29APR79	4		12.3	0.0	615	518	325													
29APR79	6	29APR79	6		0.0	0.0	615	518	324													
29APR79	7	29APR79	7		0.0	0.0	616	519	323													
29APR79	8	29APR79	8		0.6	0.0	618	519	323													
29APR79	9	29APR79	9		0.9	0.0	615	520	323													
29APR79	10	29APR79	10		0.6	0.0	614	520	323													

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

11

DATE	HOJR	DATE	HOUP	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4	H2S
29APR79	11	29APR79	11	0.0	0.0	613	521	324														
29APR79	12	29APR79	12	1.2	0.0	613	521	324														
29APR79	19	29APR79	19	0.0	0.0	598	608	327														
15:25 *INJECT AIR IN PI-2 TO BRING IT TO 600 PSIG AND THEN INTERMITTENT INJECTION																						
29APR79	20	29APR79	20	0.0	0.0	592	608	328														
29APR79	21	29APR79	21	9.0	0.0	602	600	328														
29APR79	22	29APR79	22	3.4	0.0	612	603	328														
29APR79	23	29APR79	23	6.2	0.0	613	603	328														
30APR79	0	30APR79	0	3.2	0.0	612	603	328														
30APR79	1	30APR79	1	10.9	0.0	613	604	328														
30APR79	2	30APR79	2	4.3	0.0	613	604	327														
30APR79	3	30APR79	3	1.4	0.0	613	604	327														
30APR79	4	30APR79	4	2.4	0.0	612	603	326														
30APR79	5	30APR79	5	2.6	0.0	612	603	325														
30APR79	6	30APR79	6	4.4	0.0	613	604	324														
30APR79	7	30APR79	7	2.2	0.0	612	603	322														
30APR79	8	30APR79	8	5.7	0.0	614	604	320														
30APR79	9	30APR79	9	6.2	0.0	612	601	318														
30APR79	10	30APR79	10	7.1	0.0	611	599	317														
11:00 WATER LEVEL WAS CHECKED IN HQ, 203 FT.																						
30APR79	11	30APR79	11	7.9	0.0	608	597	316														
30APR79	12	30APR79	12	11.9	0.0	609	598	315														
12:30 WATER LEVEL WAS CHECKED IN H-1, 547 FT.																						
30APR79	13	30APR79	13	6.1	0.0	262	600	314														
30APR79	15	30APR79	15	6.4	0.0																	
30APR79	16	30APR79	16	3.9	0.0	610	599	311														
30APR79	17	30APR79	17	5.8	0.0	610	599	310														

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR APRIL

12

DATE	HOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2.CH4	CH4	H2S
30APR79	18	30APR79	18	4.9	0.0	610	600	308													
30APR79	19	30APR79	19	8.1	0.0	611	601	307													
30APR79	20	30APR79	20	7.6	0.0	612	603	306													
30APR79	21	30APR79	21		0.0																
30APR79	22	30APR79	22	0.0	0.0	605	609	303													
30APR79	23	30APR79	23	0.0	0.0	582	616	302													

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

1

DATE	HOUR	DATE	HOUR	INFLQ	OUTFLQ	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
				00.00	*INTERMITTENT FLOWS IN PI-1 AND PI-2 TO KEEP 600 PSIG PRESSURE															
01MAY79	0	01MAY79	0	0.0	0.0	565	520	300												
						(C)	(C)	(C)												
01MAY79	1	01MAY79	1	0.0	0.0	559	621	295												
01MAY79	2	01MAY79	2	0.0	0.0	542	614	297												
01MAY79	3	01MAY79	3	0.0	0.0	535	609	295												
01MAY79	4	01MAY79	4	0.0	0.0	532	607	294												
01MAY79	5	01MAY79	5	11.8	0.0	577	591	292												
01MAY79	6	01MAY79	6	6.0	0.0	615	607	290												
01MAY79	7	01MAY79	7	2.2	0.0	616	607	239												
01MAY79	8	01MAY79	8	2.5	0.0	615	606	298												
01MAY79	9	01MAY79	9	4.0	0.0	613	603	287												
01MAY79	10	01MAY79	10	7.3	0.0	613	602	287												
01MAY79	11	01MAY79	11	5.6	0.0	612	601	287												
01MAY79	12	01MAY79	12	6.1	0.0	611	600	287												
01MAY79	13	01MAY79	13	5.8	0.0	611	600	287												
01MAY79	14	01MAY79	14	6.9	0.0	610	600	287												
01MAY79	15	01MAY79	15	6.4	0.0	609	599	287												
01MAY79	16	01MAY79	16	4.5	0.0	609	598	287												
01MAY79	17	01MAY79	17	3.0	0.0	610	599	286												
01MAY79	18	01MAY79	18	4.8	0.0	610	600	288												
01MAY79	19	01MAY79	19	8.9	0.0	612	602	288												
01MAY79	20	01MAY79	20	5.4	0.0	612	602	289												
01MAY79	21	01MAY79	21	17.8	0.0	605	596	299												
01MAY79	22	01MAY79	22	9.2	0.0	599	591	239												
01MAY79	23	01MAY79	23	0.0	0.0	611	602	287												

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

2

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
02MAY79	0	02MAY79	0	1.5	0.0	612	603	289										
02MAY79	1	02MAY79	1	4.6	0.0	613	604	289										
02MAY79	2	02MAY79	2	4.7	0.0	613	604	239										
02MAY79	3	02MAY79	3	4.2	0.0	613	604	290										
02MAY79	4	02MAY79	4	3.0	0.0	613	605	290										
02MAY79	5	02MAY79	5	0.0	0.0	613	605	291										
02MAY79	6	02MAY79	6	5.4	0.0	610	601	291										
02MAY79	7	02MAY79	7	2.1	0.0	609	600	291										
02MAY79	8	02MAY79	8	6.2	0.0	609	599	291										
02MAY79	9	02MAY79	9	5.3	0.0	606	595	291										
02MAY79	10	02MAY79	10	6.8	0.0	604	593	291										
02MAY79	11	02MAY79	11	9.4	0.0	601	590	292										
02MAY79	12	02MAY79	12	8.1	0.0	601	589	292										
02MAY79	13	02MAY79	13	7.1	0.0	602	590	293										
02MAY79	14	02MAY79	14	6.1	0.0	601	589	293										
02MAY79	15	02MAY79	15	5.1	0.0	601	589	293										
02MAY79	16	02MAY79	16	6.6	0.0	599	588	294										
02MAY79	17	02MAY79	17	6.3	0.0	600	589	295										
02MAY79	18	02MAY79	18	4.9	0.0	602	591	296										
02MAY79	19	02MAY79	19	6.0	0.0	603	593	296										
02MAY79	20	02MAY79	20	7.5	0.0	605	595	297										
02MAY79	21	02MAY79	21	7.0	0.0	605	595	297										
02MAY79	22	02MAY79	22	8.2	0.0	606	596	297										
02MAY79	23	02MAY79	23	7.1	0.0	606	596	298										

10:05 WATER LEVEL WAS CHECKED IN H-Q, H-1 AND PI-1, H-Q = 203 FT., H-1 = 547.25 FT., PI-1 = 905.6 FT.

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

3

DATE HOUR	DATE HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
03MAY79	0 03MAY79	0	7.4	0.0	606	596	298											
03MAY79	1 03MAY79	1	8.1	0.0	605	596	293											
03MAY79	2 03MAY79	2	7.5	0.0	605	595	299											
03MAY79	3 03MAY79	3	7.4	0.0	605	594	299											
03MAY79	4 03MAY79	4	7.9	0.0	604	594	300											
03MAY79	5 03MAY79	5	8.5	0.0	604	594	307											
03MAY79	6 03MAY79	6	8.5	0.0	603	594	300											
03MAY79	7 03MAY79	7	8.4	0.0	604	594	301											
03MAY79	8 03MAY79	8	6.7	0.0	603	593	302											
03MAY79	9 03MAY79	9	7.3	0.0	604	593	302											
03MAY79	10 03MAY79	10	8.3	0.0	558	594	303											
03MAY79	11 03MAY79	11	9.8	0.0	603	593	303											
03MAY79	12 03MAY79	12	7.7	0.0	603	593	303											
03MAY79	13 03MAY79	13	7.4	0.0	602	592	304											
03MAY79	14 03MAY79	14	9.8	0.0	604	594	375											
03MAY79	15 03MAY79	15	9.7	0.0	605	594	305											
03MAY79	16 03MAY79	16	8.9	0.0	604	594	306											
03MAY79	17 03MAY79	17	9.5	0.0	604	594	307											
03MAY79	18 03MAY79	18	9.1	0.0	604	594	307											
03MAY79	19 03MAY79	19	9.2	0.0	604	594	308											
03MAY79	20 03MAY79	20	8.1	0.0	606	596	309											
03MAY79	21 03MAY79	21	7.1	0.0	605	595	309											
03MAY79	22 03MAY79	22	8.7	0.0	605	595	309											
03MAY79	23 03MAY79	23	7.7	0.0	605	596	310											

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR MAY

4

DATE HOUR	DATE HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
04MAY79	0	04MAY79	0	8.4	0.0	606	596	311										
04MAY79	1	04MAY79	1	7.9	0.0	607	597	312										
04MAY79	2	04MAY79	2	8.0	0.0	607	597	312										
04MAY79	3	04MAY79	3	6.9	0.0	607	597	313										
04MAY79	4	04MAY79	4	10.8	0.0	608	598	313										
04MAY79	5	04MAY79	5	8.5	0.0	607	598	313										
04MAY79	6	04MAY79	6	9.3	0.0	610	600	314										
04MAY79	7	04MAY79	7	5.4	0.0	609	600	315										
04MAY79	8	04MAY79	8	7.5	0.0	609	599	316										
04MAY79	9	04MAY79	9	6.6	0.0	609	600	316										
04MAY79	10	04MAY79	10	7.9	0.0	608	599	317										
04MAY79	11	04MAY79	11	8.9	0.0	607	598	317										
04MAY79	12	04MAY79	12	4.8	0.0	602	593	318										
04MAY79	13	04MAY79	13	6.3	0.0	603	593	319										
04MAY79	14	04MAY79	14	4.7	0.0	606	597	319										
04MAY79	15	04MAY79	15	0.0	0.0	607	598	320										
04MAY79	16	04MAY79	16	0.0	0.0	606	597	320										
04MAY79	17	04MAY79	17	0.0	0.0	605	596	321										
04MAY79	18	04MAY79	18	0.0	0.0	604	596	321										
04MAY79	19	04MAY79	19	20.3	0.0	602	593	322										
04MAY79	20	04MAY79	20	19.5	0.0	604	596	322										
04MAY79	21	04MAY79	21	0.0	0.0	603	594	322										
04MAY79	22	04MAY79	22	0.0	0.0	604	595	323										
04MAY79	23	04MAY79	23	0.0	0.0	605	596	323										

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

5

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
05MAY79	0 05MAY79	0	0.0	0.0	606	597	324											
05MAY79	1 05MAY79	1	0.0	0.0	605	596	324											
05MAY79	2 05MAY79	2	0.0	0.0	605	596	324											
05MAY79	3 05MAY79	3	0.0	0.0	605	597	325											
05MAY79	4 05MAY79	4	0.0	0.0	605	597	325											
05MAY79	5 05MAY79	5	0.0	0.0	605	596	326											
05MAY79	6 05MAY79	6	0.0	0.0	604	596	326											
05MAY79	7 05MAY79	7	0.0	0.0	607	599	326											
05MAY79	8 05MAY79	8	0.0	0.0	605	596	326											
05MAY79	9 05MAY79	9	38.5	0.0	604	595	326											
05MAY79	10 05MAY79	10	29.6	0.0	597	595	327											
05MAY79	11 05MAY79	11	12.4	0.0	607	602	327											
05MAY79	12 05MAY79	12	0.0	0.0	615	605	327											
05MAY79	13 05MAY79	13	0.0	0.0	611	601	327											
05MAY79	14 05MAY79	14	0.0	0.0	608	598	335											
05MAY79	15 05MAY79	15	0.0	0.0	609	600	336											
05MAY79	16 05MAY79	16	0.0	0.0	610	601	337											
05MAY79	17 05MAY79	17	0.0	0.0	611	601	337											
05MAY79	18 05MAY79	18	0.0	0.0	612	603	338											
05MAY79	19 05MAY79	19	0.0	0.0	613	603	339											
05MAY79	20 05MAY79	20	0.0	0.0	610	601	340											
05MAY79	21 05MAY79	21	0.0	0.0	610	601	340											
05MAY79	22 05MAY79	22	0.0	0.0	612	603	338											
05MAY79	23 05MAY79	23	0.0	0.0	613	603	339											
05MAY79	0 06MAY79	0	12.0	0.0	610	601	340											
05MAY79	1 06MAY79	1	0.0	0.0	610	601	340											
05MAY79	2 06MAY79	2	0.0	0.0	610	601	276											
05MAY79	3 06MAY79	3	0.0	0.0	610	602	341											

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR MAY

6

DATE HOUR	DATE HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
06MAY79	4 06MAY79	4	0.0	0.0	608	600	342											
06MAY79	5 06MAY79	5	0.0	0.0	608	600	343											
06MAY79	6 06MAY79	6	15.1	0.0	590	590	343											
06MAY79	7 06MAY79	7	0.0	0.0	600	591	344											
06MAY79	8 06MAY79	8	0.0	0.0	601	591	345											
06MAY79	9 06MAY79	9	6.6	0.0	598	588	345											
06MAY79	10 06MAY79	10	9.3	0.0	596	585	345											
06MAY79	11 06MAY79	11	0.0	0.0	599	586	346											
06MAY79	12 06MAY79	12	6.7	0.0	597	566	346											
06MAY79	13 06MAY79	13	11.9	0.0	596	584	347											
06MAY79	14 06MAY79	14	11.1	0.0	595	584	346											
06MAY79	15 06MAY79	15	9.1	0.0	595	584	347											
06MAY79	16 06MAY79	16	5.4	0.0	596	585	348											
06MAY79	17 06MAY79	17	8.8	0.0	599	586	349											
06MAY79	18 06MAY79	18	1.9	0.0	492	593	350											
06MAY79	19 06MAY79	19	0.0	0.0	606	595	350											
06MAY79	20 06MAY79	20	0.0	0.0	605	595	350											
06MAY79	21 06MAY79	21	0.0	0.0	605	596	351											
06MAY79	22 06MAY79	22	0.0	0.0	607	597	351											
06MAY79	23 06MAY79	23	0.0	0.0	603	601	352											
07MAY79	0 07MAY79	0	0.0	0.0	593	603	352											
07MAY79	1 07MAY79	1	0.0	0.0	583	606	352											
07MAY79	2 07MAY79	2	0.0	0.0	575	607	352											
07MAY79	3 07MAY79	3	0.0	0.0	569	608	352											

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

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DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CC	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
07MAY79	4 07MAY79	4	0.0	0.0	561	609	353											
07MAY79	5 07MAY79	5	0.0	0.0	557	609	352											
07MAY79	6 07MAY79	6	0.0	0.0	554	609	352											
07MAY79	8 07MAY79	8	8.2	0.0	546	608	351											
07MAY79	9 07MAY79	9	9.5	0.0	544	606	350											
07MAY79	10 07MAY79	10	8.3	0.0	540	604	349											
07MAY79	21 07MAY79	21	35.3	0.0	404	411	440											
07MAY79	22 07MAY79	22	0.0	0.0	401	410	509											
07MAY79	23 07MAY79	23	0.0	0.0	399	410	504											
08MAY79	0 08MAY79	0	0.0	0.0	396	409	499											
08MAY79	1 08MAY79	1	21.0	0.0	393	409	533											
08MAY79	2 08MAY79	2	0.0	0.0	389	407	548											
08MAY79	3 08MAY79	3	0.0	0.0	386	407	553											
08MAY79	4 08MAY79	4	0.0	0.0	383	406	534											
08MAY79	5 08MAY79	5	19.3	0.0	381	406	553											
08MAY79	6 08MAY79	6	3.1	0.0	378	405	578											
08MAY79	7 08MAY79	7	0.0	0.0	375	404	597											
08MAY79	8 08MAY79	8	0.0	0.0	373	404	597											
08MAY79	9 08MAY79	9	0.0	0.0	372	404	596											
08MAY79	10 08MAY79	10	2.4	0.0	370	403	595											
08MAY79	0 09MAY79	0	0.0	0.0	400	617	599											
08MAY79	1 09MAY79	1	0.0	0.0	400	618	600											
08MAY79	2 09MAY79	2	0.0	0.0	399	618	600											
08MAY79	3 09MAY79	3	0.0	0.0	399	619	601											
¹ PI-2 TO 400 PSIG, IF IT FALLS BELOW 300 PSIG LATER ON, PRESSURIZE IT TO 400 PSIG 14:58 *PRESSURIZE PI-3 TO 400 PSIG 21:00 *PRESSURIZE PI-3 TO 500 PSIG AND MAINTAIN																		
² MEASURED, 547.0 FT. 12:35 WATER LEVEL IN HQ IS BEING MEASURED, SOMEWHERE ABOVE 199 FT. 13:51 BRIEF POWER SURGE 20:03 *PRESSURIZE PI-1 TO 400 PSIG 20:05 *PRESSURIZE PI-2 TO 600 PSIG																		

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DATE	TIME	DATE	HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
09MAY79	4	09MAY79	4	0.0	0.0	398	620	500												
09MAY79	5	09MAY79	5	0.0	0.0	399	619	600												
09MAY79	6	09MAY79	6	6.5	0.0	399	621	602												
09MAY79	7	09MAY79	7	9.7	0.0	400	622	602												
09MAY79	8	09MAY79	8	7.4	0.0	401	618	598												
12MAY79	23	12MAY79	23	10:45	13.4	401	618	599	11.07								11.12			
						517	122	99												
13MAY79	0	13MAY79	0		0.0				0.0	77.6	0.0	0.1	20.8	0.0	0.9	0.0	0.6		0.91	
13MAY79	1	13MAY79	1	0.0	0.0	509	124	94	0.0	77.9	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
13MAY79	2	13MAY79	2	4.6	0.0	499	124	92	0.0	77.9	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
13MAY79	4	13MAY79	4	02:45	0.0	459	126	95	0.0	77.9	0.0	0.0	20.8	0.0	0.9	0.0	0.2		0.00	
13MAY79	5	13MAY79	5	0.0	0.0	545	128	93	0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
13MAY79	6	13MAY79	6		0.0				0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
13MAY79	8	13MAY79	8		0.0				0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
13MAY79	16	13MAY79	16	08:16	0.0	496	153	91	0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.0		0.00	
13MAY79	17	13MAY79	17	0.0	0.0	611	156	91	0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.0		0.00	
13MAY79	18	13MAY79	18		0.0				0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.2		0.00	
13MAY79	20	13MAY79	20	0.0	0.0	330	323	309	0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
13MAY79	21	13MAY79	21	20:30	0.0	389	381	365	0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
13MAY79	23	13MAY79	23	0.0	0.0	543	534	516	0.0	77.7	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
14MAY79	0	14MAY79	0		0.0	558	548		0.0	77.7	0.0	0.0	20.8	0.0	0.9	0.0	0.1		0.00	
14MAY79	1	14MAY79	1	0.0	0.0	591	582	563	0.0	77.7	0.0	0.0	20.8	0.0	0.9	0.0	0.2		0.00	
14MAY79	2	14MAY79	2	0.0	0.0	600	521	572	0.0	77.5	0.0	0.0	20.8	0.0	0.9	0.0	0.2		0.00	
14MAY79	3	14MAY79	3	0.0	0.0	600	594	575	0.0	77.7	0.0	0.0	20.8	0.0	0.9	0.0	0.2		0.00	
14MAY79	4	14MAY79	4	0.0	0.0	598	591	580	0.0	77.7	0.0	0.0	20.8	0.0	0.9	0.0	0.2		0.00	
11MAY79				11:20					12.30											
11MAY79																				
						</														

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

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DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
14MAY79	5 14MAY79	5	8.1	0.0	593	589	582	44.8	38.9	0.0	0.0	10.4	0.0	0.5	5.1	143	0.00	11022
14MAY79	7 14MAY79	7	0.0	0.0	596	586	567	0.0	77.7	0.0	0.0	20.8	0.0	0.9	0.0	0.4		0.38
14MAY79	23 14MAY79	23	0.0	0.0	633	623	604	52.3	32.4	0.0	0.0	8.7	0.0	0.4	6.0	167	0.00	6428.5
15MAY79	2 15MAY79	2	0.0	0.0	625	616	596	0.0	79.7	0.5	0.0	18.5	0.0	0.9	0.0	5.1		0.00
15MAY79	3 15MAY79	3	0.0	0.0	625	615	596	0.0	78.3	1.2	0.0	19.2	0.0	0.9	0.0	11.7	0.57	0.00
15MAY79	6 15MAY79	6	0.0	0.0	633	624	603	0.0	77.7	0.0	0.0	20.6	0.0	0.9	0.0	0.2		0.00
15MAY79	7 15MAY79	7	0.0	0.0	635	625	605	0.0	77.7	0.0	0.0	20.8	0.0	0.9	0.0	0.2		0.00
15MAY79	8 15MAY79	8		0.0				0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.2		0.00
15MAY79	9 15MAY79	9	0.0	0.0	628	617	596	0.0	78.1	1.0	0.0	19.5	0.0	0.9	0.0	10.0	0.00	0.00
15MAY79	10 15MAY79	10	0.0	0.0	625	614	593	0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.4		0.00
15MAY79	11 15MAY79	11	0.0	0.0	622	611	590	0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.4		0.00
15MAY79	12 15MAY79	12	0.0	0.0	618	607	586	0.0	77.8	0.0	0.0	20.8	0.0	0.9	0.0	0.3		0.00
15MAY79	13 15MAY79	13	0.0	0.0	616	605	583	0.0	77.8	0.1	0.0	20.7	0.0	0.9	0.0	1.1		0.00
15MAY79	14 15MAY79	14	0.0	0.0	616	605	583	0.0	78.4	1.9	0.0	18.4	0.0	0.9	0.0	16.7	0.00	0.00
17MAY79	0 17MAY79	0																
17MAY79	1 17MAY79	1																
17MAY79	2 17MAY79	2																
17MAY79	3 17MAY79	3		2.0														
17MAY79	4 17MAY79	4																
17MAY79	5 17MAY79	5																
17MAY79	6 17MAY79	6	20.5		703	673	102											
17MAY79	7 17MAY79	7	06:05 INCREASE PRESSURE IN PI-2 TO 700 PSIG															
17MAY79	8 17MAY79	8	46.4		664	650	141											
17MAY79	8 17MAY79	8	0.0		728	717	103											
17MAY79	9 17MAY79	9	0.0		720	709	102											

16MAY79

11:24 WATER LEVEL IN PI-1 WAS TAKEN 12.00 WATER LEVEL IN H-1 AND HQ WAS TAKEN, H-1 = 547 FT., HQ = 198 FT.
 16:15 *INJECT AIR IN PI-1 TO 700 PSIG AND BLEED PI-3 TO 100 PSIG 16.55 *VALVE OFF PI-1 AT 700 PSIG
 17:20 *VALVE OFF PI-3 AT 100 PSIG 17:45 *INJECT AIR IN PI-2 TO 650 PSIG AND VALVE OFF 19:30 *INJECT AIR IN
 PI-3 AND PI-1 TO BRING THEM TO 100 PSIG AND 700 PSIG RESPECTIVELY AND CONTROL IT LATER ON BY INTERMITTENT
 INJECTION

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

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DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
17MAY79	10 17MAY79	10	1.1	719	708	101												
17MAY79	11 17MAY79	11	0.0	719	707	105												
17MAY79	12 17MAY79	12	0.0	717	705	112												
17MAY79	13 17MAY79	13	0.0	717	705	119												
17MAY79	14 17MAY79	14	1.2	714	702	121												
17MAY79	15 17MAY79	15	0.0	715	704	119												
17MAY79	16 17MAY79	16	*BRING PRESSURE IN PI-3 DOWN TO 100 PSIG															
17MAY79	17 17MAY79	17																
17MAY79	18 17MAY79	18																
17MAY79	18:30 17MAY79	18:30	*PI-1 AND PI-2 ARE BEING BROUGHT TO 700 PSIG															
17MAY79	19 17MAY79	19	0.0	690	690	121												
17MAY79	20 17MAY79	20	14.6	697	696	102												
17MAY79	20:45 17MAY79	20:45	PI-3 PRESSURE IS ABOUT 60-70 PSIG															
17MAY79	21 17MAY79	21	23.1	707	702	73												
17MAY79	22 17MAY79	22	12.6	707	700	71												
17MAY79	23 17MAY79	23	35.8	709	699	72												
18MAY79	0 18MAY79	0	14.0	2.0	742	732	73											
18MAY79	1 18MAY79	1	16.2	725	714	75												
18MAY79	2 18MAY79	2	42.9	701	704	76												
18MAY79	02:55 18MAY79	02:55	*AIR INJECTION INTO PI-1 TO BRING PRESSURE UP FROM 690 to 700 PSIG															
18MAY79	3 18MAY79	3	40.9	711	699	75												
18MAY79	4 18MAY79	4	35.9	712	701	76												
18MAY79	5 18MAY79	5	26.9	2.2	710	700	76											
18MAY79	6 18MAY79	6	23.5	3.2	710	700	74											
18MAY79	06:07 18MAY79	06:07	PRODUCTION FLOW INCREASED FROM 2.2 TO 4.0 SCFM															
18MAY79	7 18MAY79	7	26.0	4.0	710	700	70											
18MAY79	8 18MAY79	8	30.5	3.9	703	698	67											
18MAY79	9 18MAY79	9	43.9	3.7	709	698	64											

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

11

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CC	C2	H2S	AR	CG2	BTU	CO_CO2	H2_CH4	CH4_H2S
18MAY79	10	18MAY79	10	33.3	3.4	708	696	66												
18MAY79	11	18MAY79	11	30.1	2.0	709	696	70												
18MAY79	12	18MAY79	12	24.0	1.7	703	691	67												
19MAY79	13	18MAY79	13	18.8	3.6	718	706	64												
18MAY79	14	18MAY79	14	38.0	2.8	707	696	63												
19MAY79	15	18MAY79	15	33.0	3.5	693	682	71												
19MAY79	16	18MAY79	16	0.0	3.5	722	710	105												
19MAY79	17	18MAY79	17	26.6	2.0	753	746	103												
18MAY79	18	18MAY79	18	18.6	3.5	756	749	103												
18MAY79	19	18MAY79	19	17.3	2.8	750	743													
19MAY79	20	18MAY79	20	18.9	3.5	750	752	104												
19MAY79	21	18MAY79	21	13.3	4.0	760	754	104												
19MAY79	22	18MAY79	22	13.5	3.8	760	752	105												
19MAY79	23	18MAY79	23	7.2	3.6	749	747	105												
19MAY79	0	19MAY79	0	25.7	3.5	737	726	105												
19MAY79	1	19MAY79	1	0.0	3.2	778	758	105												
19MAY79	2	19MAY79	2	0.0	3.9	769	758	104												
19MAY79	3	19MAY79	3	0.0	4.1	736	725	103												
19MAY79	4	19MAY79	4	20.9	3.8	719	709	105												
19MAY79	5	19MAY79	5	0.0	3.6	759	749	105												
19MAY79	6	19MAY79	6	1.0	3.5	778	768	90												
19MAY79	7	19MAY79	7	28.5	5.0	744	734	105												
19MAY79	8	19MAY79	8	47.6	4.2	727	716	103												
19MAY79	9	19MAY79	9		4.2															

12:22 WATER LEVEL IN PI-1 WAS TAKEN, 905.3 FT.

15:30 *BRING PI-1 AND PI-2 TO 750 PSIG, AND PI-3 TO 100 PSIG

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

12

DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CC	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
19MAY79	10 19MAY79	10		4.3														
19MAY79	11 19MAY79	11		3.7														
19MAY79	12 19MAY79	12		5.3														
19MAY79	13 19MAY79	13		5.2														
19MAY79	14 19MAY79	14		5.0														
19MAY79	15 19MAY79	15		5.1														
19MAY79	16 19MAY79	16		7.0														
19MAY79	16:40 19MAY79	16:40		*VALVE OFF PI-1 AT 750 PSIG AND OPEN PI-2 TO BRING UP TO 800 PSIG														
19MAY79	17 19MAY79	17		3.4														
19MAY79	18 19MAY79	18		3.5														
19MAY79	18:55 19MAY79	18:55		*ARGON INJECTION INTO PI-2														
19MAY79	19 19MAY79	19		5.0														
19MAY79	20 19MAY79	20		4.0														
19MAY79	21 19MAY79	21		4.5														
19MAY79	22 19MAY79	22		4.6														
19MAY79	23 19MAY79	23		5.6														
20MAY79	0 20MAY79	0		4.5														
20MAY79	00:26 20MAY79	00:26		*BRING PI-1 AND PI-1 AND PI-2 TO 800 PSIG														
20MAY79	1 20MAY79	1		5.5														
20MAY79	2 20MAY79	2		5.8														
20MAY79	3 20MAY79	3		5.5														
20MAY79	4 20MAY79	4		5.8														
20MAY79	04:40 20MAY79	04:40		*PI-1 DROPPED TO 720 PSIG, INCREASE IT TO 800 PSIG														
20MAY79	5 20MAY79	5		5.8														
20MAY79	6 20MAY79	6		7.0														
20MAY79	7 20MAY79	7		6.7														
20MAY79	8 20MAY79	8		6.7														
20MAY79	9 20MAY79	9		6.7														
20MAY79	09:45 20MAY79	09:45		*FLOW TEST ON MONITOR WELLS WITH NO BACK PRESSURE. WELLS REMAIN VENTED. M-1:4.20 SCFM, M-2:1.95 SCFM, M-3:1.45 SCFM, M-4:1.35 SCFM														

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

13

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CC	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
20MAY79	10	20MAY79	10			6.7														
20MAY79	11	20MAY79	11			7.8														
20MAY79	12	20MAY79	12			6.8														
20MAY79	13	20MAY79	13			7.5														
20MAY79	14	20MAY79	14			7.1														
20MAY79	15	20MAY79	15			7.2														
20MAY79	16	20MAY79	16			7.2														
20MAY79	17	20MAY79	17			6.8														
20MAY79	18	20MAY79	18			5.4														
20MAY79	19	20MAY79	19			6.2														
20MAY79	20	20MAY79	20			6.8														
20MAY79	21	20MAY79	21			6.5														
20MAY79	22	20MAY79	22			6.5														
20MAY79	23	20MAY79	23			6.2														
21MAY79	0	21MAY79	0			6.0														
21MAY79	1	21MAY79	1	0.0	6.5	755	810	105	0.0	78.0	0.0	0.0	20.8	0.0	0.9	0.0	0.4	0.00	0.00	
21MAY79	2	21MAY79	2	02:00		7.5														
21MAY79	3	21MAY79	3	0.0	6.6	739	816	105	0.0	78.0	0.0	0.0	20.8	0.0	0.9	0.0	0.5	0.00	0.00	
21MAY79	4	21MAY79	4	12.5	7.8	769	794	104	0.0	78.0	0.0	0.0	20.8	0.0	0.9	0.0	0.5	0.00	0.00	
21MAY79	5	21MAY79	5	0.0	6.5	783	801	104	0.0	78.0	0.0	0.0	20.8	0.0	0.9	0.0	0.4	0.00	0.00	
21MAY79	6	21MAY79	6	0.0	6.0	752	759	105	0.0	78.0	0.0	0.0	20.8	0.0	0.9	0.0	0.5	0.00	0.00	
21MAY79	7	21MAY79	7	0.0	7.0	753	810	104	0.0	78.0	0.0	0.0	20.8	0.0	0.9	0.0	0.5	0.00	0.00	
21MAY79	8	21MAY79	8	26.5	6.5	778	796	104	0.0	78.0	0.0	0.0	20.8	0.0	0.9	0.0	0.5		0.00	
21MAY79	9	21MAY79	9	08:45	6.7	7.2	706	824	105											

1 AT ALL TIMES. MAINTAIN PI-3 AT APPROXIMATELY 100 PSIG

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

14

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
21MAY79	10	21MAY79	10	0.0	7.9	764	850	95												
21MAY79	11	21MAY79	11	19.3	9.7	761	850	105												
21MAY79	12	21MAY79	12	0.0	9.7	762	859	105												
21MAY79	13	21MAY79	13	0.0	10.6	764	861	104												
21MAY79	14	21MAY79	14	0.0	10.1	766	857	104												
21MAY79	15	21MAY79	15	0.0	12.0	765	841	103												
21MAY79	16	21MAY79	16	10.7	9.2	764	831	104												
21MAY79	17	21MAY79	17	0.0	10.6	759	823	102												
21MAY79	18	21MAY79	18	12.9	11.6	772	838	104												
21MAY79	19	21MAY79	19	4.9	13.2	771	840	103												
21MAY79	20	21MAY79	20	0.0	13.2	789	839	104												
21MAY79	21	21MAY79	21	0.0	12.8	792	847	104												
21MAY79	22	21MAY79	22	0.0	12.8	774	861	105												
21MAY79	23	21MAY79	23	0.0	13.0	789	845	106												
			23:40	*RAISE PI-1 TO 800 PSIG																
22MAY79	0	22MAY79	0	0.0	15.0	794	848	105	0.0	77.9	0.1	0.0	20.8	0.0	1.1	0.0	0.7	15.00	0.00	
22MAY79	1	22MAY79	1	0.0	14.8	776	861	105	0.0	78.0	0.1	0.0	20.7	0.0	1.1	0.0	1.3	0.00	0.00	
22MAY79	2	22MAY79	2	0.0	14.8	770	863	104	0.0	78.1	0.1	0.0	20.7	0.0	1.0	0.0	1.3		0.00	
22MAY79	3	22MAY79	3	0.0	6.5	768	864	105	0.0	78.1	0.1	0.0	20.7	0.0	1.0	0.0	1.3		0.00	
22MAY79	4	22MAY79	4	14.7	14.3	788	830	103												
			04:20	*RAISE PI-1 TO 800 PSIG																
22MAY79	5	22MAY79	5	0.0	6.5	785	864	108												
22MAY79	6	22MAY79	6	0.0	17.0	775	865	107												
22MAY79	7	22MAY79	7	0.0	15.0	770	864	107												
22MAY79	8	22MAY79	8	0.0	14.9	770	865	106												
22MAY79	9	22MAY79	9	0.0	15.7	771	864	106												

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

15

DATE	HOUR	DATE	HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CC	C2	H2S	AK	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
22MAY79	10	22MAY79	10	14.0	15.8	773	860	106												
22MAY79	11	22MAY79	11	0.0	16.2	773	835	109												
22MAY79	12	22MAY79	12	27.0		490	772	313												
22MAY79	13	22MAY79	13			219	755	611												
22MAY79	14	22MAY79	14		16.0	112	799	699												
22MAY79	15	22MAY79	15		16.0	113	795	698												
22MAY79	16	22MAY79	16			112	797	699												
22MAY79	17	22MAY79	17		25.0	100	780	703												
22MAY79	18	22MAY79	18		19.3	79	795	707												
22MAY79	19	22MAY79	19		18.0	65	796	709												
22MAY79	20	22MAY79	20		18.5	93	797	711												
22MAY79	21	22MAY79	21			111	798	713												
22MAY79	22	22MAY79	22			111	802	713												
22MAY79	23	22MAY79	23			111	801	715												
23MAY79	0	23MAY79	0		20.0	111	802	716												
23MAY79	1	23MAY79	1		19.8	110	802	717												
23MAY79	2	23MAY79	2		19.8	111	801	580												
23MAY79	3	23MAY79	3		22.0	111	801	719												
23MAY79	4	23MAY79	4		25.0	112	800	719												
23MAY79	5	23MAY79	5		23.0	90	802	719												
23MAY79	6	23MAY79	6		23.0	110	802	719												
23MAY79	7	23MAY79	7		25.0	110	805	720												
23MAY79	8	23MAY79	8		24.0	110	778	719												
23MAY79	9	23MAY79	9		24.5	110	768	716												

¹ PSIG AND PI-3 AT 700 PSIG BY INTERMITTENT INJECTION

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

16

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CC	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
23MAY79	10	23MAY79	10		24.0	101	797	716												
23MAY79	11	23MAY79	11		18.3	91	806	716												
23MAY79	12	23MAY79	12		18.0	81	806	716												
23MAY79	13	23MAY79	13		18.5	75	806	717												
23MAY79	14	23MAY79	14		18.2		805													
23MAY79	15	23MAY79	15	14 15	*BRING UP PRESSURE IN PI-2 TO 850 PSIG															
					23.0															
23MAY79	16	23MAY79	16		23.3															
23MAY79	17	23MAY79	17		24.7															
23MAY79	18	23MAY79	18		25.8															
23MAY79	19	23MAY79	19		25.4															
23MAY79	20	23MAY79	20		26.5															
23MAY79	21	23MAY79	21		26.1															
23MAY79	22	23MAY79	22		26.7															
23MAY79	23	23MAY79	23		26.0	17	859	754												
24MAY79	0	24MAY79	0		22.5															
24MAY79	1	24MAY79	1		22.0															
24MAY79	2	24MAY79	2		23.0															
24MAY79	3	24MAY79	3		22.0															
24MAY79	4	24MAY79	4		22.1															
24MAY79	5	24MAY79	5		22.7															
24MAY79	6	24MAY79	6		22.0															
24MAY79	7	24MAY79	7		22.2															
24MAY79	8	24MAY79	8		22.3															
24MAY79	9	24MAY79	9		22.5															

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

17

DATE	HOUR	DATE	HOUR	INFL	OUTFL	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
10:00 *BLEED PRESSURE IN PI-2 TO 100 PSIG AND INJECT AIR IN PI-1 TO 800 PSIG. BLEED PI-3 TO 700 PSIG AND SHUT IN																				
24MAY79	10	24MAY79	10			289	602	694												
24MAY79	11	24MAY79	11			290	277	708												
						(I)	(B)	(C)												
24MAY79	12	24MAY79	12			14.0	529	110	700											
24MAY79	13	24MAY79	13			7.3	700	32	704											
24MAY79	14	24MAY79	14			7.8	797	15	699											
24MAY79	15	24MAY79	15			10.4	805	27	693											
24MAY79	16	24MAY79	16			12.0	806	107	688											
24MAY79	17	24MAY79	17			9.4	805	106	684											
24MAY79	18	24MAY79	18			7.7	805	104	677											
24MAY79	19	24MAY79	19			9.9	797	101	674											
24MAY79	20	24MAY79	20			11.7	757	107	681											
24MAY79	21	24MAY79	21	20:45	*BRING UP PRESSURE IN PI-3 TO 700 PSIG	12.9	792	109	708											
24MAY79	22	24MAY79	22			12.7	809	107	698											
24MAY79	23	24MAY79	23			17.4	805	107	691											
25MAY79	0	25MAY79	0			12.8	802	107	687											
25MAY79	1	25MAY79	1			13.9	801	107	681											
25MAY79	2	25MAY79	2			14.0	802	107	675											
25MAY79	3	25MAY79	3			13.0	800	107	671											
25MAY79	4	25MAY79	4			12.5	800	107	666											
25MAY79	5	25MAY79	5			13.3	799	107	663											
25MAY79	6	25MAY79	6	05:35	BRIEF POWER FAILURE	15.2	800	107	660											
25MAY79	7	25MAY79	7			13.0	799	107	657											
25MAY79	8	25MAY79	8			12.0	796	108	652											
25MAY79	9	25MAY79	9	08:50	*BRING UP PRESSURE IN PI-3 TO 700 PSIG	9.0	799	108	698											
				09:05	POWER SURGE															

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

18

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
25MAY79	10 25MAY79	10		9.8	805	113	690											
25MAY79	11 25MAY79	11		10.3	828	115	682											
	11:20		*BRING PI-1 TO 850 PSIG															
25MAY79	12 25MAY79	12		12.0	832	116	688											
	12:35		*BRING PI-1 BACK TO 850 PSIG															
25MAY79	13 25MAY79	13		13.0	845	117	704											
25MAY79	14 25MAY79	14	35.6	13.0	849	118	707											
25MAY79	15 25MAY79	15	6.9	14.0	856	117	697											
25MAY79	16 25MAY79	16	0.0	13.2	856	114	691											
25MAY79	17 25MAY79	17	0.0	13.3	801	114	685											
25MAY79	18 25MAY79	18	37.0	12.1	775	113	678											
25MAY79	19 25MAY79	19	22.5	12.4	842	114	673											
25MAY79	20 25MAY79	20	21.3	13.3	843	114	668											
25MAY79	21 25MAY79	21	31.0	14.4	846	114	679											
25MAY79	22 25MAY79	22	27.3	13.0	852	114	686											
25MAY79	23 25MAY79	23	25.6	13.0	851	115	679											
26MAY79	0 26MAY79	0	17.4	13.0	859													
26MAY79	1 26MAY79	1	18.8	14.2	851	115	684											
26MAY79	2 26MAY79	2	14.3	14.3	859	115	680											
26MAY79	3 26MAY79	3	16.9	15.0	841	113	697											
26MAY79	4 26MAY79	4	15.2	15.1	853	114	694											
26MAY79	5 26MAY79	5	15.5	14.9	855	115	689											
26MAY79	6 26MAY79	6	21.7	14.9	848	115	700											
	06:05		*BRING PI-3 TO 700 PSIG															
26MAY79	7 26MAY79	7	13.3	15.3	849	114	692											
26MAY79	8 26MAY79	8	23.3	15.0	854	115	685											
26MAY79	9 26MAY79	9	24.0	15.2	847	115	680											

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

19

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
26MAY79	10	26MAY79	10	35.1	15.3	841	115	700												
26MAY79	11	26MAY79	11	26.2	15.2	843	113	694												
26MAY79	12	26MAY79	12	20.6	15.2	851	108	686												
26MAY79	13	26MAY79	13	20.5		838	108	681												
26MAY79	14	26MAY79	14	23.5		832	108	710												
26MAY79	15	26MAY79	15	28.7		843	108	699												
26MAY79	16	26MAY79	16	25.1		854	109	690												
26MAY79	17	26MAY79	17	21.8		833	108	683												
26MAY79	18	26MAY79	18	16.3		845	111	675												
26MAY79	19	26MAY79	19	10.4	17.0	844	115	673												
26MAY79	20	26MAY79	20	21.4	20.0	848	113	687												
26MAY79	21	26MAY79	21	14.6	20.0	843	121	696												
26MAY79	22	26MAY79	22	10.6	20.0	832	123	683												
26MAY79	23	26MAY79	23	13.0	20.0	850	123	682												
27MAY79	0	27MAY79	0	21.0	20.0	844	123	693	0.0	78.2	0.0	0.0	20.9	0.0	0.9	0.0	0.0			
27MAY79	1	27MAY79	1	42.6	18.0	808	97	530	0.0	78.6	1.3	0.0	19.3	0.0	0.9	0.0	12.6	0.00	0.00	
27MAY79	2	27MAY79	2	86.8	20.6	865	115	710	0.0	78.3	1.4	0.0	19.1	0.0	0.9	0.0	13.5	0.00	0.00	
27MAY79	3	27MAY79	3	87.0	18.0	870	121	705	0.0	78.4	1.2	0.0	19.2	0.0	0.9	0.0	12.2	0.00	0.00	
27MAY79	4	27MAY79	4	87.1	18.0	875	123	695	0.0	78.4	1.2	0.0	19.2	0.0	0.9	0.0	12.1	0.00	0.00	
27MAY79	5	27MAY79	5	86.2	18.0	870	124	710	0.0	78.4	1.2	0.0	19.2	0.0	0.9	0.0	12.1	0.00	0.00	
27MAY79	6	27MAY79	6	87.6	18.7	870	124	705	0.0	78.4	1.2	0.0	19.2	0.0	0.9	0.0	12.4	0.00	0.00	
27MAY79	7	27MAY79	7	87.1	20.2	870	124	705	0.0	78.4	1.2	0.0	19.2	0.0	0.9	0.0	12.3	0.00	0.00	
27MAY79	8	27MAY79	8	87.1	18.0	865	125	710	0.0	78.4	1.2	0.0	19.2	0.0	0.9	0.0	12.4	0.00	0.00	
27MAY79	9	27MAY79	9	86.5	19.0	865	120	710	0.0	78.4	1.2	0.0	19.3	0.0	0.9	0.0	11.7	0.00	0.00	

02:25 *INJECT ARGON INTO PI-1

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

20

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
27MAY79	10 27MAY79	10	87.4	19.0	865	120	705	0.0	77.9	1.3	0.0	19.0	0.0	1.6	0.0	12.5	0.00	0.00
27MAY79	11 27MAY79	11	87.3	19.0	865	115	715	0.0	77.5	1.3	0.0	18.9	0.0	2.0	0.1	12.5	0.00	0.00
27MAY79	12 27MAY79	12	86.1	19.0	865	115	735	0.0	77.9	1.3	0.0	19.0	0.0	1.7	0.0	12.7	0.00	0.00
27MAY79	13 27MAY79	13	86.9	19.0	865	115	700	0.0	76.3	1.2	0.0	19.1	0.0	1.2	0.0	12.1	0.00	0.00
27MAY79	14 27MAY79	14	86.3	19.0	865	120	705	0.0	78.4	1.2	0.0	19.2	0.0	1.1	0.0	12.2	0.00	0.00
27MAY79	15 27MAY79	15	87.0	19.0	865	120	715	0.0	78.5	1.2	0.0	19.2	0.0	1.0	0.0	12.1	0.00	0.00
27MAY79	16 27MAY79	16	80.4	19.0	860	120	710	0.0	78.5	1.3	0.0	19.1	0.0	1.0	0.0	12.6	0.00	0.00
27MAY79	17 27MAY79	17	14.8	16:20 *LOWER PRESSURE IN PI-3 TO 100 PSIG AND CLOSE PI-2 19.0 858 114 252 0.0 78.5 1.2 0.0 19.2 0.0 1.0 0.0 12.1 0.00 0.00 (IorC) (C) (B)														
27MAY79	18 27MAY79	18	18.3	17.6	819	139	108	0.0	78.4	0.8	0.0	19.7	0.0	1.0	0.0	8.0	0.00	0.00
27MAY79	19 27MAY79	19	20.5		745	195	118	0.0	78.2	0.1	0.0	20.6	0.0	0.9	0.0	1.4		0.00
27MAY79	20 27MAY79	20	15.5		860	252	122	0.0	78.1	0.1	0.0	20.6	0.0	0.9	0.0	1.4		0.00
27MAY79	21 27MAY79	21	15.9		863	309	126	0.0	78.1	0.0	0.0	20.8	0.0	0.9	0.0	0.4		0.00
27MAY79	22 27MAY79	22	16.5		864	364	131	0.0	78.2	0.0	0.0	20.8	0.0	0.9	0.0	0.5		0.00
27MAY79	23 27MAY79	23	15.3	16.0	865	419	108	0.0	78.4	0.2	0.0	20.6	0.0	0.9	0.0	1.8		0.00
28MAY79	0 28MAY79	0	15.0	14.0	860	471	82	0.0	78.4	2.9	0.0	18.0	0.0	0.9	0.0	26.7		0.00
28MAY79	1 28MAY79	1	14.1		854	519	89	0.0	78.4	0.7	0.0	20.2	0.0	0.9	0.0	6.7		0.00
28MAY79	2 28MAY79	2	14.9		851	563	98	0.0	78.4	0.1	0.0	20.7	0.0	0.9	0.0	0.9		0.00
28MAY79	3 28MAY79	3	15.1		854	604	107	0.0	78.4	0.1	0.0	20.7	0.0	0.9	0.0	0.9		0.00
28MAY79	4 28MAY79	4	15.1		856	638	113	0.0	78.4	1.2	0.0	19.7	0.0	0.9	0.0	11.7	0.00	0.00
28MAY79	5 28MAY79	5	14.8	15.0	857	666	93	0.0	78.0	8.7	0.0	12.6	0.0	0.9	0.1	86.6	0.00	0.00
28MAY79	6 28MAY79	6	13.3		856	689	99	0.0	78.6	2.7	0.0	18.2	0.0	0.9	0.0	27.1	0.00	0.00
28MAY79	7 28MAY79	7	14.4		855	704	112	0.0	78.6	0.5	0.0	20.3	0.0	0.9	0.0	5.2		0.00
28MAY79	8 28MAY79	8	14.3		856	714	115	0.0	78.5	3.3	0.0	17.6	0.0	0.9	0.0	32.6	0.00	0.00
28MAY79	9 28MAY79	9	14.6	14.0	858	721	116	0.0	78.6	5.8	0.0	15.0	0.0	0.9	0.1	57.6	0.00	0.00

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

21

DATE HOUR	DATE HOUR	INFLD	OUTFLD	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
28MAY79	10 28MAY79	10	15.1	14.7	861	725	107	0.0	78.7	1.2	0.0	19.5	0.0	0.9	0.0	12.1	0.00	0.00
28MAY79	11 28MAY79	11	12.0	6.0	862	726	103	0.0	78.7	0.2	0.0	20.5	0.0	0.9	0.0	1.9	0.00	0.00
28MAY79	12 28MAY79	12	12.8	6.5	853	729	104	0.0	78.6	0.1	0.0	20.7	0.0	0.9	0.0	0.6		0.00
28MAY79	13 28MAY79	13	13.9	5.6	854	730	104	0.0	78.6	0.1	0.0	20.7	0.0	0.9	0.0	0.9		0.00
28MAY79	14 28MAY79	14	13.2	6.8	849	731	109	0.0	78.6	0.9	0.0	19.8	0.0	0.9	0.0	9.4		0.00
28MAY79	15 28MAY79	15	14.3	6.0	857	730	109	0.0	78.6	0.6	0.0	20.1	0.0	0.9	0.0	6.4		0.00
28MAY79	16 28MAY79	16	15.3	6.0	859	731	112	0.0	78.8	0.1	0.0	20.3	0.0	0.9	0.2	1.4	0.00	0.00
28MAY79	17 28MAY79	17	15.4	6.0	861	732	113	0.0	78.6	0.2	0.0	20.5	0.0	0.9	0.0	2.3	0.00	0.00
28MAY79	18 28MAY79	18	14.4	6.0	863	733	114	0.0	79.0	2.7	0.0	17.6	0.0	0.9	0.0	26.8	0.00	0.00
28MAY79	19 28MAY79	19	13.7	6.0	861	733	115	0.0	79.0	0.3	0.0	20.1	0.0	0.9	0.0	2.6	0.00	0.00
28MAY79	20 28MAY79	20		6.5														
		20:37-23:20	POWER OFF															
28MAY79	21 28MAY79	21		6.5														
28MAY79	22 28MAY79	22		0.0														
28MAY79	23 28MAY79	23		0.0														
28MAY79	0 28MAY79	0	12.4	6.0	854	721	105											
28MAY79	1 28MAY79	1	12.7	6.8	854	724	103											
28MAY79	2 28MAY79	2	12.4	6.3	853	726	102	0.0	78.2	0.0	0.0	20.8	0.0	0.9	0.0	0.0		
28MAY79	3 28MAY79	3	12.5	5.8	852	727	102	0.0	78.4	0.6	0.0	20.1	0.0	0.9	0.0	6.1	0.00	0.00
28MAY79	4 28MAY79	4	12.4		852	728	104	0.0	78.5	0.2	0.0	20.5	0.0	0.9	0.0	2.2		0.00
28MAY79	5 28MAY79	5	11.6	6.0	852	728	105											
28MAY79	6 28MAY79	6	12.1	6.7	852	728	104											
28MAY79	7 28MAY79	7	12.1	6.6	853	728	103											
28MAY79	8 28MAY79	8	12.6	6.5	854	729	103											
28MAY79	9 28MAY79	9	12.8	6.5	856	729	103											

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR MAY

22

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
29MAY79	10	29MAY79	10	13.3	6.5	860	730	102												
29MAY79	11	29MAY79	11	12.9	6.5	860	731	103												
29MAY79	12	29MAY79	12	13.4	6.6	860	731	103												
29MAY79	13	29MAY79	13	10.8	6.5	857	732	103												
29MAY79	14	29MAY79	14	12.3	6.5	857	731	104												
29MAY79	15	29MAY79	15	8.0	6.5	855	731	104												
29MAY79	16	29MAY79	16	11.7	6.7	855	731	104	0.0	77.9	0.0	0.0	20.9	0.0	0.9	0.0	0.2		0.00	
29MAY79	17	29MAY79	17	14.1	7.2	868	732	103	0.0	77.9	0.0	0.0	20.9	0.0	0.9	0.0	0.2		0.00	
29MAY79	18	29MAY79	18	11.4	7.0	862	733	103	0.0	78.0	0.0	0.0	20.9	0.0	0.9	0.0	0.2		0.00	
29MAY79	19	29MAY79	19	12.4	7.0	856	733	103	0.0	78.0	0.0	0.0	20.9	0.0	0.9	0.0	0.1		0.00	
29MAY79	20	29MAY79	20	12.0	7.0	853	732	103	0.0	77.9	0.0	0.0	20.9	0.0	0.9	0.0	0.2		0.00	
29MAY79	21	29MAY79	21	10.3	7.0	854	731	103	0.0	77.9	0.0	0.0	20.9	0.0	0.9	0.0	0.3		0.00	
29MAY79	22	29MAY79	22	12.3	6.5	855	731	104	0.0	78.0	0.0	0.0	20.9	0.0	0.9	0.0	0.4		0.00	
29MAY79	23	29MAY79	23		6.5															
30MAY79	0	30MAY79	0	13.6	7.0	855	729	104	0.0	78.3	1.2	0.0	19.4	0.0	0.9	0.0	12.1	0.00	0.00	
30MAY79	1	30MAY79	1	12.0	7.0	857	728	103	0.0	78.6	2.7	0.0	17.6	0.0	0.9	0.0	26.8	0.00	0.00	
30MAY79	2	30MAY79	2	12.0	6.8	857	726	102	0.0	78.5	1.9	0.0	18.6	0.0	0.9	0.0	18.7	0.00	0.00	
30MAY79	3	30MAY79	3	12.1	6.1	855	725	103	0.0	78.6	2.8	0.0	17.6	0.0	0.9	0.0	27.4	0.00	0.00	
30MAY79	4	30MAY79	4	12.1	6.1	854	724	104	0.0	78.4	1.9	0.0	18.6	0.0	0.9	0.0	18.7	0.00	0.00	
30MAY79	5	30MAY79	5	11.7	6.2	854	724	105	0.0	78.7	3.2	0.0	17.0	0.0	0.9	0.1	32.3	0.00	0.00	
30MAY79	6	30MAY79	6	22.0		855	723	105	0.0	78.5	1.8	0.0	18.6	0.0	0.9	0.0	18.4	0.00	0.00	
30MAY79	7	30MAY79	7	12.5	6.7	854	723	104	0.0	78.5	2.6	0.0	17.7	0.0	0.9	0.0	26.2	0.00	0.00	
30MAY79	8	30MAY79	8	12.4		856	724	103	0.0	78.8	3.3	0.0	16.9	0.0	0.9	0.1	33.1	0.00	0.00	
30MAY79	9	30MAY79	9	13.4	6.7	859	726	103	0.0	78.8	3.1	0.0	17.2	0.0	0.9	0.1	31.3	0.00	0.00	

01:00 ARGON INJECTION IN PI-1

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR MAY

23

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CC	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
30MAY79	10	30MAY79	10	13.5		862	729	103	0.0	78.9	3.5	0.0	16.7	0.0	0.9	0.1	34.9	0.00	0.00	
30MAY79	11	30MAY79	11	14.9		855	730	103	0.0	78.9	3.5	0.0	16.7	0.0	0.9	0.1	34.9	0.00	0.00	
30MAY79	12	30MAY79	12	13.2		864	731	103	0.0	78.8	3.5	0.0	16.7	0.0	1.1	0.1	34.3	0.00	0.00	
30MAY79	13	30MAY79	13	11.4		861	732	103	0.0	78.1	3.3	0.0	16.7	0.0	1.9	0.1	33.1	0.00	0.00	
30MAY79	14	30MAY79	14	11.8		861	732	104	0.0	78.3	3.2	0.0	16.8	0.0	1.9	0.1	32.2	0.00	0.00	
30MAY79	15	30MAY79	15	11.8		862	732	105	0.0	78.6	3.2	0.0	16.9	0.0	1.5	0.1	31.5	0.00	0.00	
30MAY79	16	30MAY79	16	11.8	7.1	860	732	105	0.0	78.8	3.1	0.0	17.0	0.0	1.3	0.1	31.1	0.00	0.00	
30MAY79	17	30MAY79	17	11.9	7.1	859	732	106	0.0	78.9	3.1	0.0	17.0	0.0	1.2	0.1	30.8	0.00	0.00	
30MAY79	18	30MAY79	18	11.3		856	732	107	0.0	79.0	3.1	0.0	17.0	0.0	1.1	0.1	30.7	0.00	0.00	
30MAY79	19	30MAY79	19	12.4		830	737	107	0.0	79.0	3.1	0.0	17.0	0.0	1.1	0.1	30.6	0.00	0.00	
30MAY79	20	30MAY79	20	12.1	7.0	823	739	108	0.0	79.0	3.1	0.0	17.1	0.0	1.1	0.1	30.6	0.00	0.00	
30MAY79	21	30MAY79	21	11.5		828	730	108	0.0	79.1	3.1	0.0	17.1	0.0	1.0	0.1	30.6	0.00	0.00	
30MAY79	22	30MAY79	22	8.6		810	725	107	0.0	79.0	3.1	0.0	17.1	0.0	1.0	0.0	30.6	0.00	0.00	
30MAY79	23	30MAY79	23	11.7		832	721	107	0.0	79.0	3.1	0.0	17.1	0.0	1.0	0.0	30.6	0.00	0.00	
31MAY79	0	31MAY79	0	12.0		845	721	106	0.0	79.0	3.0	0.0	17.1	0.0	1.1	0.0	30.1	0.00	0.00	
31MAY79	1	31MAY79	1	12.6		852	722	106	0.0	79.0	3.0	0.0	17.1	0.0	1.1	0.1	30.1	0.00	0.00	
31MAY79	2	31MAY79	2	12.1		854	723	106	0.0	79.0	3.1	0.0	17.0	0.0	1.1	0.1	31.3	0.00	0.00	
31MAY79	3	31MAY79	3	13.0		856	725	106	0.0	79.0	3.3	0.0	16.8	0.0	1.0	0.1	33.3	0.00	0.00	
31MAY79	4	31MAY79	4	12.9		856	726	106	0.0	79.1	3.4	0.0	16.8	0.0	1.0	0.1	33.9	0.00	0.00	
31MAY79	5	31MAY79	5	12.4		856	727	107	0.0	79.1	3.4	0.0	16.8	0.0	1.0	0.1	33.4	0.00	0.00	
31MAY79	6	31MAY79	6	13.0	7.0	856	727	107	0.0	79.1	3.3	0.0	16.9	0.0	1.0	0.1	32.8	0.00	0.00	
31MAY79	7	31MAY79	7	13.0		856	728	108	0.0	79.1	3.2	0.0	16.9	0.0	1.0	0.1	32.1	0.00	0.00	
31MAY79	8	31MAY79	8	14.0		857	728	108	0.0	79.2	3.2	0.0	17.0	0.0	1.0	0.1	31.7	0.00	0.00	
31MAY79	9	31MAY79	9	11.5	7.0	843	729	108	0.0	79.2	3.1	0.0	17.0	0.0	1.0	0.1	31.3	0.00	0.00	

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR MAY

24

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CC	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
31MAY79	10 31MAY79	10	15.5		842	727	109	0.0	79.2	3.1	0.0	17.0	0.0	1.0	0.1	31.1	0.00	0.00
31MAY79	11 31MAY79	11	15.2	7.2	850	726	109	0.0	79.2	3.1	0.0	17.0	0.0	1.0	0.1	30.9	0.00	0.00
31MAY79	12 31MAY79	12		7.0														
31MAY79	13 31MAY79	13																
31MAY79	14 31MAY79	14																
31MAY79	15 31MAY79	15																
31MAY79	16 31MAY79	16	8.8		856	731	180	0.0	78.3	0.0	0.0	20.8	0.0	0.9	0.0	0.4		0.00
31MAY79	17 31MAY79	17	14.1		843	731	194	0.0	78.9	0.2	0.0	20.0	0.0	0.9	0.0	2.0		0.00
31MAY79	18 31MAY79	18	11.7		844	729	221											
31MAY79	19 31MAY79	19	11.8		851	728	247											
31MAY79	20 31MAY79	20	11.2		854	729	274											
31MAY79	21 31MAY79	21	12.0		855	729	299	0.0	80.0	0.0	0.0	18.3	0.0	1.2	0.0	0.5	0.00	0.00
31MAY79	22 31MAY79	22	11.5		856	730	325	0.0	78.3	0.0	0.0	20.8	0.0	1.0	0.0	0.5		0.00
31MAY79	23 31MAY79	23																

14:25 CLOSE PI-3 WELL

(10rC)(C) (C)

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

1

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
01JUN79	8	01JUN79	8		0.0	(I)	(C)	(P)												
01JUN79	9	01JUN79	9	18.0	0.0	850	730	540												
01JUN79	10	01JUN79	10	9.5	0.0	852	737	550												
01JUN79	11	01JUN79	11	11.9	0.0	859	728	510												
01JUN79	12	01JUN79	12	11.7	0.0	861	739	535												
01JUN79	13	01JUN79	13	10.8	0.0	861	740	598												
01JUN79	10	02JUN79	10	14.4	0.0	828	730	690												
02JUN79	11	02JUN79	11	15.2	0.0	797	834	705	10:30**SYSTEM CHANGE - SHUT IN PI-1, INJECTION IN PI-2, PI-3 SHUT IN.											
						(C)	(I)	(C)												
02JUN79	12	02JUN79	12	9.7	0.0	780	853	713												
02JUN79	13	02JUN79	13	11.9	0.0	774	852	722												
02JUN79	14	02JUN79	14	11.9	0.0	773	853	731												
02JUN79	15	02JUN79	15	11.7	0.0	773	853	737												
02JUN79	16	02JUN79	16	11.5	0.0	773	853	742												
02JUN79	17	02JUN79	17	15.4	0.0	728	856	855	17:00 **BLEED PI-1 TO 700 PSIG AND SHUT IN. BLEED PI-3 TO 100 PSIG AND THEN LET IT FLOW											
						(C)	(I)	(P)												
02JUN79	18	02JUN79	18	11.4	0.0	747	849	104												
02JUN79	19	02JUN79	19	12.2	0.0	750	843	102												
02JUN79	20	02JUN79	20	14.1	0.0	750	849	104												
02JUN79	21	02JUN79	21	15.9	0.0	763	858	106												
02JUN79	22	02JUN79	22	13.1	0.0	766	857	104												
03JUN79	0	03JUN79	0	12.8	0.0	715	845	104												
03JUN79	1	03JUN79	1	12.3	0.0	716	840	103												
03JUN79	2	03JUN79	2	12.4	0.0	734	837	103												
03JUN79	3	03JUN79	3	11.1	0.0	745	835	103												
03JUN79	4	03JUN79	4	15.6	0.0	750	837	103												

1

[illegible]

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

3

DATE	HOUR	DATE	HOUR	INFL	OUTFL	PI1	PI2	PI3	H2	H2	CH4	CC	O2	H2S	AP	COL	BTU	CC_CO2	H2_CH4	CH4_H2S
04JUN79	6	04JUN79	6	14.0	0.0	761	863	123												
04JUN79	7	04JUN79	7	14.2	0.0	762	861	123												
04JUN79	8	04JUN79	8	14.7	0.0	762	861	119												
04JUN79	9	04JUN79	9	14.4	0.0	764	865	120												
04JUN79	15	04JUN79	15	12.7	0.0	769	853	115												
04JUN79	16	04JUN79	16	13.6	0.0	769	854	112												
04JUN79	17	04JUN79	17	13.1	0.0	768	854	125												
04JUN79	18	04JUN79	18	13.1	0.0	767	853	118												
04JUN79	19	04JUN79	19	12.7	0.0	765	851	128												
04JUN79	20	04JUN79	20	12.7	0.0	765	849	135												
04JUN79	21	04JUN79	21	14.4	0.0	765	849	130												
04JUN79	22	04JUN79	22	17.8	0.0	765	852	124												
04JUN79	23	04JUN79	23	15.4	0.0	765	855	111												
05JUN79	0	05JUN79	0	14.7	0.0	765	857	102												
05JUN79	1	05JUN79	1	15.1	0.0	766	856	104												
05JUN79	2	05JUN79	2	15.2	0.0	765	855	112												
05JUN79	9	05JUN79	9	20.4	0.0	861	358	119												
05JUN79	10	05JUN79	10	20.4	0.0	862	358	120												
05JUN79	11	05JUN79	11	19.5	0.0	862	859	120												
05JUN79	12	05JUN79	12	20.2	0.0	863	859	119												
05JUN79	13	05JUN79	13	19.2	0.0	863	859	113												
05JUN79	14	05JUN79	14	19.3	0.0	863	859	117												
05JUN79	20	05JUN79	20	17.8	0.0	193	861	110												
05JUN79	21	05JUN79	21	16.8	0.0	185	863	110												

03:50 *OPEN FIC-20 TO FILL PI-1 TO 850 PSIG AND MAINTAIN PI-2 AT 850 PSIG.

16:10 *BLEED PI-1 TO 150 PSIG.

(C) (I) (P)

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

4

DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
05JUN79	22 05JUN79	22	16.7	0.0	146	862	109											
05JUN79	23 05JUN79	23	16.3	0.0	158	858	108											
05JUN79	0 06JUN79	0	15.5	0.0	174	856	110											
06JUN79	1 06JUN79	1	13.4	0.0	184	848	110											
06JUN79	2 06JUN79	2	15.4	0.0	168	848	107											
06JUN79	3 06JUN79	3	15.7	0.0	162	850	90											
06JUN79	4 06JUN79	4	14.6	0.0	151	851	105											
06JUN79	5 06JUN79	5	0.0	0.0	203	441	127											
06JUN79	6 06JUN79	6	26.9	0.0	104	59	85											
06JUN79	7 06JUN79	7	0.0	0.0	16	15	15											
06JUN79	8 06JUN79	8	0.0	0.0	15	15	15											
06JUN79	9 06JUN79	9	0.0	0.0	17	15	15	49.4	50.5	0.0	0.0	0.0	0.0	0.0	158		1019.5	
06JUN79	10 06JUN79	10	0.0	0.0	17	15	15											
06JUN79	11 06JUN79	11	0.0	0.0	17	15	15											
06JUN79	12 06JUN79	12	0.0	0.0	17	15	15											
06JUN79	13 06JUN79	13	0.0	0.0	15	15	15											
06JUN79	14 06JUN79	14	0.0	0.0	16	15	15											
06JUN79	15 06JUN79	15	0.0	0.0	15	15	15											
06JUN79	16 06JUN79	16	4.4	0.0	20	15	15											
06JUN79	17 06JUN79	17	12.8	0.0	55	49	35											
06JUN79	18 06JUN79	18	17.6	0.0	123	120	105											
06JUN79	19 06JUN79	19	19.3	0.0	193	190	171											
06JUN79	20 06JUN79	20	18.4	0.0	265	261	243											
06JUN79	21 06JUN79	21	21.4	0.0	360	354	314											

05:00 *BLEED PRESSURE IN PI-2 TO 200 PSIG

(C) (B) (P)

(B) (B) (B)

*BLEED ALL WELLS TO 0 PSIG

10:30**LOWERED IGNITION BAG INTO PI-3.

16:35**INJECTION IN PI-1, PI-2 AND PI-3

[illegible]

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR JUNE

6

DATE HOUR	DATE HOUR	INFLD	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
09JUN79	18 03JUN79	18	19.3	0.0	762	159	563											
					(C)	(P)	(I)											
09JUN79	19 03JUN79	19	19.4	0.0	743	158	745											
09JUN79	20 03JUN79	20	19.5	0.0	729	169	865											
08JUN79	21 03JUN79	21	13.5	0.0	721	184	880											
09JUN79	22 03JUN79	22	14.4	0.0	583	187	901											
09JUN79	23 03JUN79	23	10.1	0.0	716	179	868											
09JUN79	0 09JUN79	0	40.0	0.0	714	170	390											
09JUN79	1 09JUN79	1	19.4	0.0	712	165	871											
09JUN79	2 09JUN79	2	28.6	0.0	710	164	881											
09JUN79	3 09JUN79	3	22.7	0.0	709	168	391											
09JUN79	4 09JUN79	4	40.5	0.0	708	168	379											
09JUN79	5 09JUN79	5	53.4	0.0	708	169	912											
09JUN79	6 09JUN79	6	39.4	0.0	708	168	883											
09JUN79	7 09JUN79	7	38.1	0.0	708	164	875											
09JUN79	8 09JUN79	8	35.6	0.0	707	153	902											
09JUN79	9 09JUN79	9	32.1	0.0	708	163	852											
		10:00	*REDUCE PI-2 PRESSURE TO 0 PSIG															
09JUN79	10 09JUN79	10	42.4	0.0	706	38	862											
					(C)	(B)	(I)											
09JUN79	11 09JUN79	11	40.6	0.0	704	34	808											
09JUN79	12 09JUN79	12	53.2	0.0	700	23	651											
		12:32	**IGNITE #1 FUSE IN IGNITION CHARGE - PI-2 /JUNE 9, 1979 - 12.42 - GREY SMOKE FROM PI-2.															
09JUN79	13 09JUN79	13	21.0	1.5	696	20	878											
		13:15	*IGNITED SECOND CHARGE IN PI-2															
09JUN79	14 09JUN79	14	21.0	1.5	696	20	878											
		14:00	FLOW THROUGH THE SURFACE PIPING															
09JUN79	15 09JUN79	15	31.0	13.2	694	23	358	2.4	76.5	0.6	2.5	10.8	0.0	0.9	5.5	21.4	0.46	4.08
					(C)	(P)	(I)											
09JUN79	16 09JUN79	16	26.7	7.4	691	16	857	2.3	78.2	1.2	2.3	7.1	0.0	0.9	7.3	26.0	0.31	1.93
09JUN79	17 09JUN79	17	48.7	4.2	689	16	900	4.0	75.9	1.1	4.8	5.0	0.0	0.9	7.6	38.6	0.63	3.72

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

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DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CC	O2	H2S	AR	CG2	BTU	CO_CO2	H2_CH4	CH4_H2S
09JUN79	18 09JUN79	18	31.1	3.3	686	17 875	6.1	73.4	1.5	6.8	1.7	0.0	0.9	8.9	50.1	0.76	3.99	
09JUN79	19 09JUN79	19	29.6	0.7	683	17 853	7.0	71.9	2.0	7.3	2.1	0.0	0.9	8.0	66.0	0.91	3.45	
09JUN79	20 09JUN79	20	28.9	0.0	680	16 851	8.3	70.3	3.4	7.1	0.9	0.0	0.9	8.5	82.8	0.84	2.43	
09JUN79	21 09JUN79	21	54.3	13.3	676	19 880	6.7	71.3	3.2	5.9	4.2	0.0	0.9	7.1	72.2	0.84	2.09	
09JUN79	22 09JUN79	22	30.9	8.4	674	16 860	8.6	68.6	4.4	7.5	1.1	0.0	0.9	8.1	95.8	0.93	1.94	
09JUN79	23 09JUN79	23	29.8	11.6	671	17 855	8.0	68.0	5.6	5.9	3.7	0.0	0.9	7.2	99.6	0.61	1.44	853.75
10JUN79	0 10JUN79	0	29.8	12.0	668	15 855	8.1	63.5	5.8	6.2	1.3	0.1	0.9	8.3	104	0.75	1.40	72.59
10JUN79	1 10JUN79	1	33.9	12.5	666	16 851	8.5	67.8	6.3	6.4	0.7	0.2	0.9	8.5	110	0.75	1.34	38.61
10JUN79	8 10JUN79	8	17.9	14.5	663	65 858	9.6	65.4	8.0	5.6	0.4	0.4	0.8	9.2	128	0.61	1.20	19.68
10JUN79	9 10JUN79	9	19.5	17.0	659	80 852	9.1	64.9	9.3	4.7	0.6	0.6	0.8	9.3	136	0.50	0.98	16.55
10JUN79	10 10JUN79	10	25.1	19.1	669	95 840	8.5	65.2	9.4	4.4	1.0	0.7	0.9	9.2	135	0.48	0.90	14.39
10JUN79	11 10JUN79	11	34.1	19.9	699	108 857	8.8	64.7	9.0	4.9	0.8	0.7	0.8	9.3	134	0.53	0.98	12.11
10JUN79	12 10JUN79	12	25.6	19.6	684	103 847	8.8	64.1	9.7	4.7	0.8	0.9	0.8	9.3	140	0.51	0.91	10.53
10JUN79	13 10JUN79	13	32.9	18.9	673	107 846	9.0	63.8	9.6	4.9	0.8	1.0	0.8	9.3	140	0.53	0.94	9.65
10JUN79	14 10JUN79	14	31.9	19.0	650	107 847	8.9	64.2	9.3	4.9	0.8	1.0	0.8	9.1	137	0.54	0.96	9.09
10JUN79	15 10JUN79	15	24.4	19.3	660	107 848	8.6	64.2	9.6	4.6	0.9	1.2	0.8	9.2	140	0.50	0.88	8.52
10JUN79	16 10JUN79	16	39.8	17.5	704	107 829	8.7	64.1	10.7	4.9	0.0	1.3	0.8	9.5	150	0.51	0.81	8.51
10JUN79	17 10JUN79	17	28.1	20.6	690	107 848	8.7	64.1	10.6	4.8	0.0	1.4	0.8	9.6	148	0.50	0.83	7.76
10JUN79	18 10JUN79	18	25.6	20.8	673	108 848	9.3	63.8	9.8	5.2	0.0	1.4	0.8	9.6	144	0.54	0.94	6.92
10JUN79	19 10JUN79	19	33.2	21.2	659	107 847												
10JUN79	20 10JUN79	20	39.0	19.8	673	95 838												
10JUN79	21 10JUN79	21	32.6	19.2	683	107 840												
10JUN79	22 10JUN79	22	32.6	19.1	666	107 847												
10JUN79	23 10JUN79	23	45.8	17.3	692	107 840												

10:38 *INCREASE PI-1 FROM 650 PSIG TO 700 PSIG.

15:45 *BRING UP PRESSURE IN PI-1 TO 710 PSIG AND IN PI-3 TO 850 PSIG.

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

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DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S		
11JUN79	0 11JUN79	0	25.8	17.0	676	108	851													
11JUN79	1 11JUN79	1	33.6	16.3	660	108	850	7.4	63.3	13.1	5.7	2.2	1.0	0.8	8.8	142	0.65	0.73	10.05	
11JUN79	2 11JUN79	2	37.0	14.3	667	108	843	8.1	61.7	11.7	5.6	0.2	1.5	0.8	9.8	160	0.57	0.65	7.72	
11JUN79	3 11JUN79	3	46.9	13.9	660	108	853	7.6	61.8	12.0	5.4	0.1	1.6	0.8	9.9	161	0.54	0.63	7.39	
11JUN79	4 11JUN79	4	26.1	15.8	545	108	852	7.8	62.1	11.4	5.5	0.1	1.6	0.8	9.9	156	0.56	0.69	6.90	
11JUN79	5 11JUN79	5	32.6	15.3	595	108	851	8.3	61.2	11.8	5.6	0.1	1.6	0.8	9.9	162	0.56	0.70	7.17	
11JUN79	6 11JUN79	6	38.4	15.0	649	108	852	7.8	61.9	11.7	5.5	0.1	1.7	0.8	9.9	159	0.55	0.67	7.06	
11JUN79	7 11JUN79	7	28.3	14.9	693	108	843	7.9	61.9	11.7	5.3	0.1	1.7	0.8	9.9	159	0.53	0.68	6.98	
11JUN79	8 11JUN79	8	32.8	16.0	651	107	850	8.2	61.4	11.8	5.4	0.1	1.7	0.8	9.9	161	0.54	0.69	6.99	
11JUN79	9 11JUN79	08:20	*REDUCE PI-1 TO 600 PSIG.	29.4	15.8	603	93	852	8.5	61.5	12.0	5.3	0.0	1.7	0.8	10.2	163	0.52	0.71	6.96
11JUN79	10 11JUN79	10	34.2	14.4	590	107	840	8.4	61.6	12.1	5.3	0.0	1.8	0.8	10.1	164	0.52	0.70	6.81	
11JUN79	11 11JUN79	11	29.3	15.0	593	107	851	8.4	61.9	12.1	4.9	0.0	1.7	0.8	10.3	162	0.48	0.70	7.00	
11JUN79	12 11JUN79	12	24.7	15.4	588	107	850	8.3	61.2	12.6	5.1	0.0	1.8	0.8	10.2	168	0.49	0.66	7.01	
11JUN79	13 11JUN79	13	33.3	12.5	555	107	851	8.5	60.7	13.0	5.1	0.0	1.8	0.8	10.1	173	0.50	0.65	7.05	
11JUN79	14 11JUN79	14	26.3	9.3	373	107	850	8.4	60.7	13.1	5.0	0.0	1.9	0.8	10.1	173	0.50	0.64	6.95	
11JUN79	15 11JUN79	14:00	*REDUCE PI-1 to 400 PSIG.	41.9	9.0	411	107	853	7.8	62.0	12.7	4.6	0.0	1.9	0.8	10.2	166	0.45	0.61	6.75
11JUN79	16 11JUN79	15:20	*INCREASE FLOW TO 40 SCFM	52.6	16.5	420	108	888	8.2	61.7	12.4	5.1	0.0	1.6	0.8	10.3	165	0.49	0.66	7.65
11JUN79	17 11JUN79	16:50	*REDUCE PRESSURE IN PI-1 to 200 PSIG.	49.5	18.1	427	108	898	8.7	60.9	12.4	5.3	0.0	1.7	0.8	10.2	168	0.52	0.70	7.11
11JUN79	18 11JUN79	18	25.9	14.5	324	108	860													
11JUN79	19 11JUN79	19	28.2	11.9	204	107	854	7.1	62.4	13.9	3.8	0.0	1.4	0.8	10.5	173	0.36	0.51	9.92	
11JUN79	20 11JUN79	20	51.2	12.1	218	107	875	8.4	60.9	13.2	4.8	0.0	1.6	0.8	10.3	173	0.47	0.63	8.23	
11JUN79	21 11JUN79	21	49.8	15.1	231	108	890	8.5	61.4	12.6	4.7	0.0	1.7	0.8	10.3	167	0.46	0.68	7.37	
11JUN79	22 11JUN79	22	29.2	14.5	223	108	883	7.8	62.8	12.0	4.6	0.0	1.6	0.8	10.5	158	0.43	0.65	7.67	
11JUN79	23 11JUN79	23	23.8	9.1	257	107	826	8.1	63.8	10.9	5.1	0.0	1.3	0.8	10.0	150	0.51	0.74	8.11	

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR JUNE

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DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
12JUN79	0 12JUN79	0	46.8	3.4	399	107	746	2.6	78.9	4.0	1.7	0.0	0.4	1.0	11.4	54.1	0.15	0.65	10.34
12JUN79	1 12JUN79	1	52.2	3.0	409	107	787	3.7	75.7	6.2	2.7	0.0	0.5	0.9	10.4	81.6	0.26	0.60	12.69
12JUN79	2 12JUN79	2	29.9	6.9	416	108	807	4.0	74.8	6.4	3.4	0.0	0.7	0.9	9.8	87.4	0.35	0.62	9.53
12JUN79	3 12JUN79	3	31.7	5.0	422	107	816	5.6	67.0	11.2	3.4	0.0	1.6	0.9	10.3	140	0.33	0.50	6.94
12JUN79	4 12JUN79	4	33.8	5.7	428	107	828	5.9	65.2	12.2	3.4	0.0	1.8	0.8	10.7	151	0.32	0.48	6.73
12JUN79	5 12JUN79	5	35.6	6.6	433	107	840	6.2	64.3	12.2	3.5	0.0	2.0	0.8	10.9	153	0.32	0.50	6.12
12JUN79	6 12JUN79	6	28.6	6.5	437	107	846	6.8	63.1	12.2	4.0	0.0	2.2	0.8	10.9	155	0.37	0.55	5.47
12JUN79	7 12JUN79	7	36.2	6.3	442	107	846	7.1	62.5	12.5	4.2	0.0	2.2	0.8	10.8	160	0.39	0.57	5.54
12JUN79	8 12JUN79	8	36.2	8.4	447	107	851	7.1	62.5	12.6	4.0	0.0	2.2	0.8	10.8	161	0.37	0.56	5.74
12JUN79	9 12JUN79	9	37.5	13.3	414	108	855	7.4	61.9	12.7	4.2	0.0	2.2	0.8	10.8	164	0.39	0.58	5.86
12JUN79	10 12JUN79	10	37.9	14.4	407	99	859	7.7	61.6	12.8	4.4	0.0	2.1	0.8	10.7	165	0.41	0.60	6.22
12JUN79	11 12JUN79	11	39.4	32.6	413	109	863	7.7	61.7	12.3	4.4	0.0	2.1	0.8	11.1	160	0.39	0.63	5.95
12JUN79	12 12JUN79	12	25.1	33.2	419	113	859	8.4	60.6	13.1	4.8	0.0	2.0	0.8	10.4	172	0.46	0.64	6.49
12JUN79	13 12JUN79	13	27.1	31.2	424	113	843	8.1	60.9	12.5	4.7	0.0	2.1	0.8	11.0	165	0.42	0.65	6.08
12JUN79	14 12JUN79	14	31.2	30.1	428	113	841	7.9	60.8	12.6	4.6	0.0	2.1	0.8	11.1	166	0.42	0.63	5.98
12JUN79	15 12JUN79	15	29.0	30.1	432	114	842	7.9	61.0	12.7	4.6	0.0	2.1	0.8	10.8	167	0.43	0.62	6.10
12JUN79	16 12JUN79	16	27.2	23.5	436	114	842	7.7	61.4	12.9	4.5	0.0	2.0	0.8	10.7	167	0.42	0.60	6.35
12JUN79	17 12JUN79	17	29.3	30.5	439	93	841	7.7	61.2	12.8	4.6	0.0	1.9	0.8	11.0	167	0.42	0.60	6.66
12JUN79	18 12JUN79	18	26.7	30.6	442	113	841												
12JUN79	19 12JUN79	19	34.5	30.2	444	113	842												
12JUN79	20 12JUN79	20	32.6	30.8	446	113	841	7.2	62.5	12.5	4.6	0.0	1.6	0.8	10.9	162	0.42	0.57	7.94
12JUN79	21 12JUN79	21	29.3	31.0	448	113	840	8.0	60.5	13.1	5.2	0.0	1.7	0.8	10.8	172	0.48	0.61	7.93
12JUN79	22 12JUN79	22	32.7	32.0	450	113	834	7.7	60.6	13.3	4.6	0.0	1.6	0.8	10.8	173	0.46	0.59	7.54
12JUN79	23 12JUN79	23	29.7	33.4	452	113	840	8.1	60.0	13.4	5.0	0.0	1.9	0.8	10.8	175	0.47	0.60	7.13

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

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DATE HOUR	DATE HOUR	INFLD	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
13JUN79	0 13JUN79	0	28.3	33.8	453	113	842	8.3	59.5	13.4	5.4	0.0	1.9	0.8	10.7	177	0.51	0.62	7.00
13JUN79	1 13JUN79	1	29.2	34.4	455	113	842	8.3	59.5	13.4	5.4	0.0	2.0	0.8	10.7	177	0.50	0.62	6.75
13JUN79	2 13JUN79	2	29.0	33.5	456	113	843	8.4	59.8	13.2	5.2	0.0	2.0	0.8	10.6	175	0.49	0.63	6.60
13JUN79	3 13JUN79	3	31.4	34.0	457	113	843	8.2	60.3	12.8	5.2	0.0	2.1	0.8	10.7	170	0.48	0.64	6.23
13JUN79	4 13JUN79	4	30.6	34.8	458	113	843	9.0	58.8	13.0	5.8	0.0	2.1	0.7	10.6	176	0.55	0.65	6.33
13JUN79	5 13JUN79	5	35.6	34.5	460	113	841	8.7	58.9	13.1	5.6	0.0	2.1	0.7	10.6	177	0.54	0.67	6.19
13JUN79	6 13JUN79	6	33.3	34.5	461	113	841	8.5	59.3	13.2	5.4	0.0	2.2	0.7	10.6	176	0.51	0.64	5.95
13JUN79	7 13JUN79	7	30.9	34.8	462	113	841	8.5	59.4	13.1	5.4	0.0	2.2	0.8	10.7	175	0.50	0.65	5.87
13JUN79	8 13JUN79	8	30.7	35.1	463	113	841	0.4	77.3	11.6	2.3	0.0	0.0	0.9	7.5	124	0.31	0.03	
13JUN79	9 13JUN79	9	27.2	36.7	465	113	840	1.7	72.8	14.7	2.5	0.0	0.4	0.9	7.0	160	0.36	0.12	41.37
13JUN79	10 13JUN79	10	26.0	38.1	466	113	841	8.9	57.8	14.2	5.9	0.0	1.6	0.7	10.8	189	0.55	0.63	8.92
13JUN79	11 13JUN79	11	41.4	40.0	467	113	850	9.1	58.0	13.9	5.9	0.0	1.6	0.7	10.8	186	0.55	0.65	8.81
13JUN79	12 13JUN79	12	42.7	41.7	468	113	852	9.4	57.5	14.1	6.0	0.0	1.6	0.7	10.8	189	0.55	0.67	8.98
13JUN79	13 13JUN79	13	31.3	41.2	469	114	851	3.0	72.0	14.1	3.1	0.0	0.3	0.9	6.0	162	0.53	0.26	45.50
13JUN79	14 13JUN79	14	34.9	41.0	471	114	843	4.0	65.8	16.0	4.2	0.0	0.3	0.8	8.2	191	0.51	0.24	56.34
13JUN79	15 13JUN79	15	33.8	41.5	474	113	844	3.5	58.0	14.3	5.6	0.0	1.4	0.8	10.7	187	0.52	0.55	9.96
13JUN79	16 13JUN79	16	30.5	41.1	476	113	844	9.1	57.7	14.4	5.6	0.0	1.6	0.7	11.0	190	0.51	0.63	9.04
13JUN79	17 13JUN79	17	31.3	41.9	479	113	844	8.9	58.1	14.0	5.6	0.0	1.6	0.7	11.1	185	0.50	0.64	8.74
13JUN79	18 13JUN79	18	35.5	41.3	481	113	843	9.1	57.9	14.0	5.7	0.0	1.6	0.7	11.0	186	0.51	0.65	8.82
13JUN79	19 13JUN79	19	31.9	41.5	482	113	844	8.9	58.2	14.0	5.5	0.0	1.6	0.7	11.1	186	0.50	0.63	8.92
13JUN79	20 13JUN79	20	36.2	42.2	484	113	846	8.7	58.7	14.1	5.2	0.0	1.6	0.7	11.1	184	0.47	0.62	8.91
13JUN79	21 13JUN79	21	42.1	42.7	486	113	845	9.1	57.2	14.6	5.6	0.0	1.6	0.7	11.2	182	0.50	0.62	9.25
13JUN79	22 13JUN79	22	36.7	43.6	488	113	844	9.4	57.1	14.7	5.6	0.0	1.5	0.7	11.0	184	0.51	0.64	9.63
13JUN79	23 13JUN79	23	32.4	44.8	490	114	847	9.7	56.5	15.1	5.7	0.0	1.6	0.7	10.9	199	0.52	0.64	9.62

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

11

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
14JUN79	0 14JUN79	0	38.6	45.5	492	114	843	9.9	55.9	15.1	6.0	0.0	1.6	0.7	10.8	201	0.55	0.66	9.48
14JUN79	1 14JUN79	1	44.9	45.4	494	114	339	9.5	50.7	14.0	5.9	0.0	1.6	0.7	10.8	195	0.54	0.66	9.04
14JUN79	2 14JUN79	2	39.4	47.3	495	115	340	9.6	56.9	14.5	5.8	0.0	1.6	0.7	10.8	194	0.54	0.66	8.88
14JUN79	3 14JUN79	3	0.0	0.0	497	162	802												
14JUN79	4 14JUN79	4	16.9	21.8	499	287	739												
14JUN79	5 14JUN79	5	15.1	8.3	500	318	747												
14JUN79	6 14JUN79	6	17.5	7.3	502	371	751												
14JUN79	7 14JUN79	7	17.4	9.2	504	316	755												
14JUN79	8 14JUN79	8	16.0	8.5	505	260	756												
14JUN79	9 14JUN79	9	17.0	8.2	507	242	755												
14JUN79	10 14JUN79	10	21.0	18.8	508	214	754												
14JUN79	11 14JUN79	11	41.8	46.2	508	127	932												
14JUN79	12 14JUN79	12	39.6	50.6	518	115	841												
14JUN79	13 14JUN79	13	36.7	55.1	507	116	852												
14JUN79	14 14JUN79	14	27.4	54.4	507	116	841												
14JUN79	15 14JUN79	15	32.6	47.8	506	115	838												
14JUN79	16 14JUN79	16	41.0	48.1	506	115	807												
14JUN79	17 14JUN79	17	43.8	50.6	505	115	312												
14JUN79	18 14JUN79	18	44.7	52.1	505	115	811												
14JUN79	19 14JUN79	19	42.3	54.2	504	116	812												
14JUN79	20 14JUN79	20	48.9	56.1	503	116	549												
14JUN79	21 14JUN79	21	49.0	65.0	502	116	810												
14JUN79	22 14JUN79	22	47.9	83.2	502	114	834												
14JUN79	23 14JUN79	23	51.2	81.1	501	114	796												

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR JUNE

12

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CC	O2	H2S	AN	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S		
15JUN79	0 15JUN79	0	48.4	84.0	500	114	791													
15JUN79	1 15JUN79	1	48.8	84.0	499	114	784													
15JUN79	2 15JUN79	2	52.5	86.6	498	114	777													
15JUN79	3 15JUN79	3	57.1	89.1	497	114	775													
15JUN79	4 15JUN79	4	57.3	93.6	496	114	776	11.5	50.2	16.7	7.4	0.5	1.8	0.6	10.4	227	0.71	0.65	9.40	
15JUN79	5 15JUN79	5	57.2	95.6	495	114	773	11.5	50.4	17.3	7.0	0.5	1.8	0.6	10.3	231	0.68	0.66	9.59	
15JUN79	6 15JUN79	6	56.3	97.8	494	114	765	11.1	51.0	17.0	6.8	0.5	1.8	0.6	10.5	226	0.65	0.65	9.35	
15JUN79	7 15JUN79	7	55.6	101.2	493	114	757	11.0	50.9	16.9	7.0	0.5	1.8	0.6	10.6	225	0.66	0.65	9.17	
15JUN79	8 15JUN79	8	54.6	103.6	492	141	747	7.9	59.0	12.9	5.0	5.1	1.2	0.7	7.6	169	0.66	0.62	10.37	
15JUN79	9 15JUN79	9	54.6	92.0	491	180	656	8.2	58.6	13.2	7.4	3.2	1.1	0.7	7.2	181	1.03	0.62	12.43	
15JUN79	10 15JUN79	10	61.0	180.0	491	320	349	11.6	48.1	17.0	7.7	5.6	1.0	0.6	7.8	231	0.98	0.68	17.81	
15JUN79	11 15JUN79	10:15	**PROCESS CHANGE-SWITCH FROM PI-3 INJECTION TO PI-2 INJECTION	47.6	29.7	490	482	150	31.2	21.8	27.0	6.2	2.2	1.9	0.4	10.6	367	0.57	1.26	13.03
15JUN79	12 15JUN79	12	30.8	15.5	488	641	125	29.3	26.2	21.7	5.4	3.0	2.3	0.5	10.9	327	0.45	1.35	9.32	
15JUN79	13 15JUN79	13	39.5	10.0	487	812	92	20.1	37.7	18.8	4.3	5.6	2.1	0.6	10.0	265	0.43	1.07	8.99	
15JUN79	14 15JUN79	14	75.7	150.0	486	302	322	4.5	65.6	8.1	2.4	13.6	0.3	0.9	3.9	102	0.63	0.56	28.81	
15JUN79	15 15JUN79	14:30	**SYSTEM CHANGE - SWITCH FROM PI-2 INJECTION TO PI-3 INJECTION	74.3	25.0	484	28	629	2.1	73.0	2.6	1.9	16.8	0.2	0.9	1.8	38.6	1.04	0.83	11.83
15JUN79	16 15JUN79	16	57.3	39.9	482	16	779	0.0	77.0	0.0	0.1	20.7	0.0	0.9	0.0	0.4				
15JUN79	17 15JUN79	17	50.2	142.4	481	17	804													
15JUN79	18 15JUN79	18	44.6	193.5	479	56	713													
15JUN79	19 15JUN79	18:35	*ESTABLISH A BACK PRESSURE OF 100 PSIG	72.9	191.0	478	103	441	14.2	53.5	6.4	16.4	0.2	0.6	0.7	7.5	161	2.19	2.23	11.49
15JUN79	20 15JUN79	20	41.8	139.8	476	115	431	16.0	50.6	8.1	15.4	0.2	1.0	0.6	7.5	181	2.07	1.97	8.53	
15JUN79	21 15JUN79	21	40.3	70.5	474	115	324	16.0	50.0	10.2	12.7	0.2	1.2	0.6	8.5	193	1.49	1.57	8.33	
15JUN79	22 15JUN79	22	40.3	61.5	472	115	310	15.4	50.5	11.2	16.9	0.1	1.3	0.6	8.9	195	1.23	1.37	8.37	
15JUN79	23 15JUN79	23	39.8	60.3	471	115	304	14.5	50.9	12.4	10.1	0.1	1.4	0.6	9.3	202	1.09	1.17	8.89	

10:15 **PROCESS CHANGE-SWITCH FROM PI-3 INJECTION TO PI-2 INJECTION

(C) (I) (P)

14:30 **SYSTEM CHANGE - SWITCH FROM PI-2 INJECTION TO PI-3 INJECTION

(C) (P) (I)

18:35 *ESTABLISH A BACK PRESSURE OF 100 PSIG

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

13

DATE HOUR	DATE HOUR	INFLO	OUTFLG	PI1	PI2	PI3	H2	N2	CH4	CL	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
16JUN79	0 16JUN79	0	41.0	62.2	469	115	303	13.0	51.2	13.4	10.2	0.0	1.3	0.6	9.6	210	1.06	1.01	10.34
16JUN79	1 16JUN79	1	41.5	62.0	467	115	305	11.2	56.1	12.9	9.1	0.0	1.0	0.7	9.0	193	1.02	0.87	12.42
16JUN79	2 16JUN79	2	41.8	71.8	465	116	250	12.6	50.7	13.6	10.6	0.0	1.3	0.6	10.3	210	1.05	0.93	10.40
16JUN79	3 16JUN79	3	40.6	71.9	464	115	307	13.2	49.8	14.1	11.3	0.0	1.2	0.6	9.7	218	1.16	0.94	11.41
16JUN79	4 16JUN79	4	41.6	71.9	462	115	307	13.4	49.3	13.8	11.3	0.0	1.5	0.6	10.1	216	1.11	0.96	9.30
16JUN79	5 16JUN79	5	41.4	75.7	460	114	309	13.5	49.4	14.6	11.1	0.0	1.4	0.6	9.4	224	1.17	0.92	10.80
16JUN79	6 16JUN79	6	40.6	73.6	459	114	311												
16JUN79	7 16JUN79	7	40.6	74.0	457	114	313												
16JUN79	8 16JUN79	8	25.2	75.5	456	233	233												
16JUN79	9 16JUN79	9	41.7	77.6	455	392	117												
16JUN79	10 16JUN79	10	37.0	7.1	454	541	103												
16JUN79	11 16JUN79	11	26.3	7.5	453	655	102												
16JUN79	12 16JUN79	12	16.0	14.2	451	573	199												
16JUN79	13 16JUN79	13	52.5	30.2	450	177	415												
16JUN79	14 16JUN79	14	53.1	30.6	449	113	451												
16JUN79	15 16JUN79	15	49.8	44.2	447	114	460												
16JUN79	16 16JUN79	16	44.8	28.6	446	319	327												
16JUN79	17 16JUN79	17	44.5	18.3	444	572	114												
16JUN79	18 16JUN79	18	25.8	33.8	443	369	172												
16JUN79	19 16JUN79	19	40.5	19.3	441	113	296												
16JUN79	20 16JUN79	20	41.1	22.6	439	113	338												
16JUN79	21 16JUN79	21	40.3	27.8	438	113	362												
16JUN79	22 16JUN79	22	42.6	31.6	436	114	379												
16JUN79	23 16JUN79	23	40.7	34.9	435	114	397												

08:45**SYSTEM CHANGE - SWITCH FLOW FROM PI-3 to PI-2

12:45**SYSTEM CHANGE - SWITCH FLOW FROM PI-2 to PI-3

16:00**SYSTEM CHANGE - SWITCH FLOW FROM PI-3 to PI-2

18:40**SYSTEM CHANGE-SWITCH FLOW FROM PI-2 to PI-3

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR JUNE

14

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CL	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
17JUN79	0 17JUN79	0	41.5	41.9	434	114	431												
17JUN79	1 17JUN79	1	41.2	43.7	432	114	437												
17JUN79	2 17JUN79	2	41.2	46.5	431	114	410												
17JUN79	3 17JUN79	3	41.3	45.8	429	114	413												
17JUN79	4 17JUN79	4	41.5	46.2	428	114	414												
17JUN79	5 17JUN79	5	40.2	46.6	426	114	416												
17JUN79	6 17JUN79	6	41.3	47.0	425	114	415												
17JUN79	7 17JUN79	7	39.8	47.3	424	115	415												
17JUN79	8 17JUN79	8	40.6	48.5	423	115	421												
17JUN79	9 17JUN79	9	46.1	34.2	422	361	283												
17JUN79	10 17JUN79	09:05**SYSTEM CHANGE - SWITCH FLOW FROM PI-3 to PI-2																	
17JUN79	11 17JUN79	11	27.1	7.3	420	640	151												
17JUN79	12 17JUN79	12	26.1	6.4	419	731	150												
17JUN79	13 17JUN79	13	33.1	5.4	418	823	151												
17JUN79	14 17JUN79	14	46.1	39.1	417	313	321												
17JUN79	15 17JUN79	14:10**SYSTEM CHANGE - SWITCH FLOW FROM PI-2 to PI-3																	
17JUN79	16 17JUN79	16	56.7	43.9	414	164	456	5.9	69.9	5.5	2.8	0.0	0.7	0.8	14.3	82.2	0.20	1.09	8.23
17JUN79	17 17JUN79	17	54.9	47.1	413	125	471	5.3	67.4	2.3	9.6	0.0	0.7	0.8	13.9	70.4	0.69	2.27	3.45
17JUN79	18 17JUN79	18	53.5	79.2	412	114	463	7.9	61.0	4.4	12.9	0.0	0.6	0.7	12.4	110	1.04	1.80	6.79
17JUN79	19 17JUN79	19	55.1	74.1	410	114	469	9.8	58.4	6.3	13.8	0.0	0.5	0.7	10.5	138	1.32	1.56	12.20
17JUN79	20 17JUN79	20	54.4	72.0	409	114	468	10.7	57.2	6.9	14.1	0.0	0.6	0.7	9.8	148	1.44	1.55	12.25
17JUN79	21 17JUN79	21	54.7	73.0	408	114	467	11.3	56.8	7.1	14.0	0.0	0.6	0.7	9.6	151	1.46	1.60	11.84
17JUN79	22 17JUN79	22	53.9	74.4	407	114	465	11.1	57.0	7.4	13.3	0.0	0.7	0.7	9.9	151	1.34	1.50	11.04
17JUN79	23 17JUN79	23	54.4	65.6	405	114	464	11.5	56.6	7.6	13.1	0.0	0.7	0.7	9.8	154	1.33	1.52	10.87

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

15

	DATE	HOUR	DATE	HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	CO2	H2S	AS	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
18JUN79		0	18JUN79	0	54.4	75.2	404	114	464	12.0	56.0	8.3	12.1	0.0	0.8	0.7	10.1	159	1.20	1.45	10.83
18JUN79		1	18JUN79	1	54.5	75.2	403	114	468	12.4	55.2	8.8	11.6	0.0	0.7	0.7	10.3	165	1.14	1.40	12.85
18JUN79		2	18JUN79	2	54.4	75.2	402	114	470	12.5	54.7	9.6	11.4	0.0	0.8	0.7	10.4	171	1.09	1.30	11.77
18JUN79		3	18JUN79	3	54.4	75.2	401	114	475	7.1	67.2	11.0	6.7	0.0	0.5	0.8	6.7	153	0.99	0.64	21.02
18JUN79		4	18JUN79	4	54.3	75.2	399	114	480	0.0	85.0	12.7	0.6	0.0	0.0	1.0	0.5	129	1.47	0.00	
18JUN79		5	18JUN79	5	54.3	76.8	398	114	487	11.8	53.9	10.8	11.1	0.0	0.9	0.7	10.9	160	1.01	1.10	11.95
18JUN79		6	18JUN79	6	60.6	76.0	397	114	490	11.2	54.7	10.7	10.6	0.0	1.0	0.7	11.2	176	0.95	1.05	10.81
18JUN79		7	18JUN79	7	52.5	76.0	396	114	500	11.2	54.0	11.4	10.6	0.0	1.0	0.7	11.3	182	0.94	0.98	11.35
18JUN79		8	18JUN79	8	54.8	76.0	395	127	508	11.8	53.7	11.5	10.3	0.0	0.9	0.7	11.2	185	0.92	1.02	12.31
18JUN79		9	18JUN79	9	54.7	67.2	395	152	519	11.4	54.0	12.5	9.6	0.0	0.8	0.7	11.0	191	0.87	0.92	14.73
18JUN79		10	18JUN79	10	54.8	62.4	394	163	533	11.4	54.3	12.2	9.2	0.0	0.9	0.7	11.3	187	0.81	0.93	13.76
18JUN79		11	18JUN79	11	54.8	62.4	385	162	545	10.7	54.3	12.9	8.4	0.0	1.0	0.7	12.0	189	0.70	0.83	12.36
18JUN79		12	18JUN79	12	54.7	62.6	370	163	555	10.2	54.3	13.6	7.9	0.0	1.1	0.7	12.3	193	0.65	0.75	12.42
18JUN79		13	18JUN79	13	54.9	67.3	370	132	565	9.9	54.6	13.2	7.9	0.0	1.1	0.7	12.5	189	0.63	0.75	11.65
18JUN79		14	18JUN79	14	49.4	68.0	370	162	569	10.6	53.7	13.7	7.7	0.0	1.2	0.7	12.4	195	0.62	0.78	11.84
18JUN79		15	18JUN79	15	54.4	66.1	369	162	576	11.1	52.9	14.7	7.2	0.0	1.2	0.6	12.3	205	0.58	0.76	12.76
18JUN79		16	18JUN79	16	54.7	63.8	363	162	587	11.0	52.8	15.3	6.9	0.0	1.2	0.6	12.2	209	0.56	0.72	12.89
18JUN79		17	18JUN79	17	54.5	63.2	367	162	596	10.9	50.9	17.3	6.7	0.0	1.3	0.6	12.3	228	0.54	0.63	13.67
18JUN79		18	18JUN79	18	54.7	64.1	366	162	606	9.9	50.6	18.7	6.1	0.0	1.3	0.6	12.7	237	0.48	0.53	14.18
18JUN79		19	18JUN79	19	54.2	63.8	366	162	619	9.2	50.1	19.9	5.8	0.0	1.4	0.6	13.0	246	0.45	0.46	14.11
18JUN79		20	18JUN79	20	54.4	66.7	365	162	627	9.0	50.6	19.3	5.8	0.0	1.4	0.6	13.1	239	0.44	0.47	13.41
18JUN79		21	18JUN79	21	56.7	65.5	365	162	638	9.1	49.9	20.0	6.0	0.0	1.4	0.6	12.9	247	0.46	0.45	13.95
18JUN79		22	18JUN79	22	54.4	65.5	364	163	647	9.6	48.4	22.1	5.9	0.0	1.4	0.6	12.0	269	0.49	0.44	15.56
18JUN79		23	18JUN79	23	54.6	65.5	364	162	666	10.3	45.8	24.3	5.9	0.0	1.4	0.5	11.9	293	0.50	0.42	17.36

08:05 *INCREASE BACK PRESSURE TO 150 PSIG

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

16

DATE	HOUR	DATE	HOUR	INFLD	OUTFLG	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
19JUN79	0	19JUN79	0	54.7	71.8	364	162	684	10.7	40.6	28.8	6.0	0.0	1.6	0.5	12.0	339	0.50	0.37	18.54
19JUN79	1	19JUN79	1	55.4	72.4	365	163	686	9.2	45.6	24.6	6.4	0.0	1.7	0.6	12.0	294	0.53	0.37	14.22
19JUN79	2	19JUN79	2	56.3	72.5	365	162	683												
19JUN79	9	19JUN79	9	42.4	62.1	369	162	679												
19JUN79	10	19JUN79	10	36.0	62.8	378	156	676												
19JUN79	11	19JUN79	11	37.5	62.4	449	176	645												
19JUN79	12	19JUN79	12	55.7	44.8	505	207	661	11:30 *INCREASE PI-1 PRESSURE TO 500 PSIG AND SHUT IN. INCREASE BACK PRESSURE TO 195 PSIG IN PI-2.											
19JUN79	13	19JUN79	13	55.6	46.9	504	206	692												
19JUN79	14	19JUN79	14	55.3	50.3	503	207	715	7.1	50.8	22.0	3.9	0.0	1.8	0.6	13.8	254	0.29	0.32	12.53
19JUN79	15	19JUN79	15	43.0	60.8	502	206	712	6.9	51.0	21.7	4.1	0.0	1.9	0.6	13.9	251	0.29	0.32	11.56
19JUN79	16	19JUN79	16	54.4	69.6	502	207	631	7.2	51.8	19.6	4.5	0.0	1.9	0.6	14.3	232	0.32	0.37	10.15
19JUN79	17	19JUN79	17	54.1	68.0	501	207	648	7.6	52.7	17.0	5.1	0.0	1.8	0.7	14.5	215	0.35	0.43	9.62
19JUN79	18	19JUN79	18	46.5	68.4	500	207	625	8.2	51.1	18.3	5.4	0.0	1.8	0.6	14.7	225	0.37	0.45	10.39
19JUN79	19	19JUN79	19	60.0	65.2	499	207	615	8.5	50.5	18.4	5.7	0.0	1.7	0.6	14.6	229	0.39	0.46	10.54
19JUN79	20	19JUN79	20	59.9	62.0	498	207	612	8.7	50.0	19.2	5.6	0.0	1.7	0.6	14.3	236	0.39	0.45	11.23
19JUN79	21	19JUN79	21	59.5	62.4	497	206	614	8.2	50.3	19.5	5.5	0.0	1.7	0.6	14.2	237	0.38	0.42	11.19
19JUN79	22	19JUN79	22	59.6	62.4	496	206	614	8.1	49.8	20.1	5.4	0.0	1.8	0.6	14.2	243	0.38	0.40	11.04
19JUN79	23	19JUN79	23	58.6	64.8	495	206	613	8.0	49.1	20.9	5.4	0.0	1.9	0.6	14.2	250	0.38	0.36	11.25
20JUN79	0	20JUN79	0	58.2	64.8	494	207	503												
20JUN79	1	20JUN79	1	59.1	64.7	493	207	623	8.3	47.4	22.2	5.7	0.0	1.5	0.6	14.3	266	0.40	0.37	15.03
20JUN79	2	20JUN79	2	56.5	65.0	492	206	627												
20JUN79	3	20JUN79	3	58.5	64.6	491	207	630	8.0	47.3	22.9	5.3	0.0	1.8	0.6	14.1	270	0.37	0.35	13.04
20JUN79	4	20JUN79	4	59.3	65.2	490	207	631	7.6	47.8	22.7	5.2	0.0	1.7	0.6	14.2	267	0.36	0.34	13.11
20JUN79	5	20JUN79	5	58.0	64.0	489	206	634	7.7	46.9	23.5	5.3	0.0	1.8	0.6	14.2	276	0.37	0.33	12.96

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

17

DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AK	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
27JUN79	6 27JUN79	6	53.4	65.2	488	207	535	7.7	47.3	25.0	5.2	0.0	1.9	0.6	14.3	270	0.36	0.33	12.14
27JUN79	7 27JUN79	7	57.5	65.0	488	207	534	7.7	47.1	23.2	5.2	0.0	1.9	0.6	14.2	272	0.37	0.33	12.07
27JUN79	8 27JUN79	8	56.4	70.7	497	207	532	7.7	46.2	24.1	5.4	0.0	1.8	0.6	14.2	281	0.38	0.32	13.50
27JUN79	9 27JUN79	9	55.2	70.5	483	207	528	7.8	46.4	23.9	5.4	0.0	1.8	0.6	14.2	279	0.38	0.33	13.56
20JUN79	10 27JUN79	10	48.5	69.6	400	208	519												
20JUN79	11 27JUN79	11	54.6	68.4	487	207	516												
20JUN79	12 27JUN79	12	54.7	69.1	487	207	515	7.9	45.8	24.5	5.0	0.0	1.9	0.6	14.1	286	0.36	0.32	12.87
20JUN79	13 27JUN79	13	59.8	70.2	486	534	397												
27JUN79	14 27JUN79	14	41.5	62.0	485	724	213												
20JUN79	15 27JUN79	15	37.4	9.2	485	526	192	33.4	4.4	27.4	5.3	0.0	3.4	0.1	26.0	396	0.20	1.22	8.07
20JUN79	16 27JUN79	16	11.1	8.0	484	689	182	31.0	4.9	32.5	5.2	0.0	3.1	0.1	23.4	438	0.22	0.94	10.33
27JUN79	17 27JUN79	17	7.0	14.9	483	892	150	25.4	6.1	41.4	4.6	0.0	1.8	0.1	19.7	511	0.23	0.64	23.05
27JUN79	18 27JUN79	18	0.0	11.9	482	887	151	25.9	5.3	44.3	4.5	0.0	1.5	0.1	18.3	538	0.25	0.58	28.60
20JUN79	19 27JUN79	19	0.0	11.7	481	881	151	24.5	5.4	46.9	4.9	0.0	1.5	0.1	16.7	560	0.30	0.52	32.13
27JUN79	20 27JUN79	20	0.0	11.1	480	875	151	22.7	5.6	47.2	5.0	0.0	1.5	0.1	17.8	558	0.28	0.48	30.61
21JUN79	0 21JUN79	0	67.6	35.0	477	303	518	5.5	61.7	18.9	2.0	7.3	0.1	0.8	3.0	211	0.68	0.29	208.26
21JUN79	1 21JUN79	1	53.6	117.5	476	215	500	1.9	74.9	14.5	1.6	4.2	0.0	0.9	2.0	155	0.83	0.13	14810
21JUN79	2 21JUN79	2	54.3	32.2	475	164	501	3.5	72.1	7.9	0.2	0.0	2.1	0.9	13.4	90.1	0.01	0.44	3.78
21JUN79	3 21JUN79	3	74.9	36.8	473	154	514												
21JUN79	4 21JUN79	4	56.1	34.5	472	163	557												
21JUN79	5 21JUN79	5	56.4	35.0	471	164	573												
21JUN79	6 21JUN79	6	56.0	35.0	470	163	572												
21JUN79	7 21JUN79	7	55.8	41.5	469	164	554												
21JUN79	8 21JUN79	8	55.1	45.5	468	164	567	2.1	71.6	2.6	8.0	0.0	0.7	0.9	14.1	58.0	0.56	0.81	3.95

13:05**SYSTEM CHANGE - SWITCH INJECTION FLOW FROM PI-3 TO PI-2.

(C) (I) (P)

23:20**SYSTEM CHANGE - SWITCHED FLOW FROM PI-2 TO PI-3

(C) (P) (I)

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

18

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
21JUN79	9 21JUN79	9	54.5	50.3	467	164	664	2.6	70.6	2.5	9.2	0.0	0.6	0.9	13.7	62.0	0.67	1.06	4.11
21JUN79	10 21JUN79	10	36.0	50.9	465	163	660	3.5	69.0	2.5	10.5	0.0	0.5	0.8	13.1	69.6	0.80	1.42	4.57
21JUN79	11 21JUN79	11	44.1	55.2	464	163	648	4.2	67.6	2.7	11.5	0.0	0.5	0.8	12.6	76.8	0.92	1.55	5.20
21JUN79	12 21JUN79	12	38.3	55.1	464	163	636	5.3	66.2	3.0	12.0	0.0	0.5	0.8	12.2	84.6	0.98	1.77	5.95
21JUN79	13 21JUN79	13	47.5	52.6	463	163	602	6.1	64.8	3.5	12.1	0.0	0.5	0.8	12.1	93.3	1.00	1.74	6.92
21JUN79	14 21JUN79	14	39.6	48.8	462	163	586	7.1	63.8	4.3	11.4	0.0	0.5	0.8	12.1	102	0.95	1.65	8.11
21JUN79	15 21JUN79	15	40.9	46.4	461	163	575	7.3	63.2	4.9	11.0	0.0	0.5	0.8	12.3	107	0.89	1.49	8.96
21JUN79	16 21JUN79	16	40.2	42.2	460	163	567	7.0	64.0	5.0	10.5	0.0	0.5	0.8	12.3	105	0.85	1.40	9.86
21JUN79	17 21JUN79	17	40.4	42.4	459	162	564	7.2	63.5	5.5	10.2	0.0	0.4	0.8	12.4	105	0.82	1.32	12.49
21JUN79	18 21JUN79	18	40.2	40.6	457	163	565	7.3	63.0	5.7	10.4	0.0	0.4	0.8	12.3	113	0.85	1.30	13.29
21JUN79	19 21JUN79	19	40.2	40.4	456	163	565	7.5	63.1	5.9	10.2	0.0	0.4	0.6	12.3	115	0.83	1.28	15.62
21JUN79	20 21JUN79	20	40.4	40.6	455	163	567	8.0	61.7	6.3	10.6	0.0	0.4	0.3	12.2	122	0.86	1.28	16.26
21JUN79	21 21JUN79	21	40.7	40.6	454	162	571	8.3	61.3	6.5	10.6	0.0	0.5	0.8	12.1	125	0.88	1.25	14.21
21JUN79	22 21JUN79	22	39.8	40.8	452	162	573	8.3	61.0	6.6	10.3	0.0	0.5	0.8	12.0	127	0.86	1.33	13.25
21JUN79	23 21JUN79	23	40.1	20.4	451	163	573	9.5	59.9	7.1	10.4	0.0	0.5	0.7	11.9	134	0.68	1.35	13.91
22JUN79	2 22JUN79	2	40.8	34.4	447	162	583	8.4	61.6	6.5	9.7	0.0	0.5	0.8	12.1	126	0.80	1.22	14.29
22JUN79	3 22JUN79	3	34.9	34.4	446	162	587	8.8	60.4	7.3	9.9	0.0	0.5	0.8	12.2	133	0.81	1.20	13.39
22JUN79	4 22JUN79	4	40.6	34.4	445	163	509	8.8	61.0	7.7	9.0	0.0	0.6	0.6	12.3	133	0.73	1.15	13.75
22JUN79	5 22JUN79	5	40.2	33.2	444	162	596	8.9	60.6	8.0	8.8	0.0	0.6	0.8	12.4	136	0.71	1.12	13.90
22JUN79	6 22JUN79	6	41.4	32.0	443	163	605	8.8	60.5	8.2	8.6	0.0	0.6	0.8	12.5	137	0.69	1.08	13.79
22JUN79	7 22JUN79	7	40.2	32.0	442	162	615	8.9	59.9	8.4	8.7	0.0	0.6	0.7	12.8	139	0.68	1.06	13.43
22JUN79	8 22JUN79	8	39.7	32.0	441	163	628	8.6	60.1	8.5	8.6	0.0	0.7	0.7	12.9	135	0.67	1.02	13.02
22JUN79	9 22JUN79	9	39.7	32.0	481	162	619	8.5	60.2	8.5	8.6	0.0	0.7	0.7	12.8	139	0.67	1.00	12.91
22JUN79	10 22JUN79	10	43.1	30.4	555	162	548	8.1	61.3	8.0	8.2	0.0	0.6	0.8	13.0	131	0.63	1.02	12.89

09:45 *INCREASE PI-1 TO 600 PSIG.

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

19

DATE	HOUR	DATE	HOUR	INFLC	OUTFLC	PI1	PI2	PI3	H2	H2	CH4	CC	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
22JUN79	11	22JUN79	11	33.7	30.8	590	163	601	9.5	59.5	9.6	7.8	0.0	0.7	0.7	13.2	151	0.59	0.99	13.61
22JUN79	12	22JUN79	12	41.6	31.2	634	165	605												
22JUN79	13	22JUN79	12:25	36.6	31.2	682	199	599	8.9	59.3	10.0	7.0	0.0	0.8	0.7	13.3	150	0.53	0.90	13.24
22JUN79	14	22JUN79	13:40	19.3	31.2	702	475	504												
22JUN79	15	22JUN79		19.1	26.3	702	529	194	2.5	72.4	2.7	1.3	16.8	0.0	0.9	3.6	38.9	0.36	0.93	
22JUN79	16	22JUN79		19.3	22.2	699	637	193	18.2	47.2	11.2	2.6	9.7	0.2	0.6	10.0	177	0.24	1.63	55.51
22JUN79	17	22JUN79		19.2	20.4	695	727	194	39.4	8.8	25.7	3.3	0.0	1.5	0.1	21.1	392	0.15	1.53	17.24
22JUN79	18	22JUN79		19.2	18.1	691	816	194	33.4	6.8	26.7	3.1	0.0	1.9	0.1	21.0	418	0.15	1.34	15.22
22JUN79	19	22JUN79		19.9	17.0	687	879	194	35.0	4.7	33.2	3.5	0.0	2.8	0.1	20.7	453	0.17	1.05	11.73
22JUN79	20	22JUN79		17.5	15.0	697	892	195												
22JUN79	21	22JUN79		4.4	14.0	702	894	195												
22JUN79	22	22JUN79		3.8	12.1	697	893	195	28.0	6.1	38.2	3.6	0.0	2.8	0.1	21.2	481	0.17	0.73	13.83
22JUN79	23	22JUN79		7.1	12.4	693	893	194	26.1	6.3	40.2	4.0	0.0	2.7	0.1	20.7	456	0.19	0.65	14.94
23JUN79	0	23JUN79	00:20	6.4	22.3	689	845	175	22.9	6.8	43.4	4.6	0.0	2.5	0.1	19.7	519	0.23	0.53	17.32
23JUN79	1	23JUN79		7.0	5.6	685	895	151	22.7	5.0	47.0	4.6	0.0	2.3	0.1	18.1	555	0.26	0.48	20.35
23JUN79	2	23JUN79	02:19	8.3	18.9	608	893	133	21.1	4.7	49.7	5.3	0.0	2.3	0.1	16.8	579	0.31	0.42	22.05
23JUN79	3	23JUN79		10.2	5.7	700	897	103	17.6	5.8	55.4	6.3	0.0	1.8	0.1	12.9	627	0.49	0.32	30.60
23JUN79	4	23JUN79		2.8	8.1	699	894	103	15.6	7.5	55.3	6.7	0.0	1.6	0.2	13.1	622	0.51	0.28	35.61
23JUN79	5	23JUN79	05:00	17.4	79.2	692	434	285	1.8	70.5	5.8	0.7	16.6	0.2	0.9	1.6	65.2	0.44	0.31	37.21
23JUN79	6	23JUN79		29.1	86.9	686	236	420	1.5	75.0	1.9	1.2	17.9	0.0	0.9	1.5	27.8	0.81	0.84	
23JUN79	7	23JUN79		29.3	47.4	680	192	436	2.7	67.1	7.9	1.3	14.8	0.0	0.8	6.0	91.8	0.22	0.34	159.46
23JUN79	8	23JUN79		28.8	29.5	674	163	422												
23JUN79	9	23JUN79		29.2	34.2	668	163	427												
23JUN79	10	23JUN79		29.5	37.1	663	164	426												

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR JUNE

20

DATE HOUR	DATE HOUR	INFLD	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
23JUN79	11 23JUN79	11	29.4	37.9	658	164	421												
23JUN79	12 23JUN79	12	29.4	38.7	653	164	+16												
23JUN79	13 23JUN79	13	33.3	40.5	648	164	420												
23JUN79	14 23JUN79	14	34.7	42.6	643	164	+29												
23JUN79	15 23JUN79	15	34.5	46.7	639	164	434												
23JUN79	16 23JUN79	16	34.7	47.5	635	164	435	6.3	67.7	3.8	3.6	0.0	0.4	0.8	16.9	70.6	0.21	1.79	8.60
23JUN79	17 23JUN79	17	34.6	50.0	630	164	+35	7.3	66.5	4.1	4.1	0.0	0.5	0.8	16.6	77.6	0.25	1.77	9.11
23JUN79	18 23JUN79	18	34.7	52.6	626	164	433												
23JUN79	19 23JUN79	19	34.8	51.4	622	164	+31	8.3	63.0	5.2	6.1	0.0	0.6	0.8	15.6	98.8	0.39	1.69	8.38
23JUN79	20 23JUN79	20	33.0	50.0	631	164	422	3.7	62.6	5.3	6.4	0.0	0.6	0.8	15.5	102	0.41	1.63	8.31
23JUN79	21 23JUN79	21	34.8	47.9	642	164	+15	9.2	61.5	5.8	6.6	0.0	0.7	0.8	15.5	108	0.42	1.59	8.73
23JUN79	22 23JUN79	22	34.9	49.3	637	164	+20	8.3	62.0	5.7	6.5	0.0	0.7	0.8	15.6	106	0.42	1.53	8.30
23JUN79	23 23JUN79	23	34.3	51.2	632	164	423	8.5	62.4	5.7	6.5	0.0	0.7	0.8	15.4	105	0.42	1.48	8.02
24JUN79	0 24JUN79	0	34.6	51.7	628	164	426												
24JUN79	1 24JUN79	1	34.4	52.0	624	164	+27												
24JUN79	2 24JUN79	2	34.6	52.0	620	164	428												
24JUN79	3 24JUN79	3	34.9	52.1	616	164	429	7.5	60.2	9.2	6.9	0.0	0.7	0.7	14.7	137	0.47	0.82	12.32
24JUN79	4 24JUN79	4	35.2	52.8	612	164	430	7.9	59.3	9.5	7.2	0.0	0.8	0.7	14.5	143	0.50	0.84	12.57
24JUN79	5 24JUN79	5	34.5	53.0	609	164	431	8.3	58.8	9.8	7.3	0.0	0.8	0.7	14.3	147	0.51	0.85	12.97
24JUN79	6 24JUN79	6	34.7	53.1	606	164	431	8.4	58.9	9.5	7.4	0.0	0.8	0.7	14.3	145	0.52	0.88	12.50
24JUN79	7 24JUN79	7	30.8	50.4	605	244	405	8.5	58.7	9.6	7.5	0.0	0.8	0.7	14.3	147	0.52	0.88	12.35
24JUN79	8 24JUN79	8	9.5	29.8	655	339	226												
24JUN79	9 24JUN79	9	9.4	14.0	649	384	136												
24JUN79	10 24JUN79	10	9.5	11.6	644	426	135												

08:00**SYSTEM CHANGE - SWITCH INJECTION FLOW FROM PI-3 to PI-2.

(C) (I) (P)

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

21

DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
24JUN79	11 24JUN79	11	11.9	8.9	639	491	195											
24JUN79	12 24JUN79	12	19.7	9.5	634	585	195	19.5	23.2	34.2	5.0	0.0	0.0	0.3	17.9	418	0.28	0.57
24JUN79	13 24JUN79	13	14.6	9.8	630	663	195	22.8	18.0	36.3	4.5	0.0	0.0	0.2	18.2	448	0.25	0.63 44771
24JUN79	14 24JUN79	14	10.0	8.7	626	705	195	25.4	13.3	33.5	3.9	0.0	0.1	0.2	18.5	477	0.21	0.66 641.81
24JUN79	15 24JUN79	15	9.9	8.6	622	738	195	26.1	10.8	40.6	3.6	0.0	0.2	0.1	18.5	499	0.19	0.64 172.55
24JUN79	16 24JUN79	16	10.0	8.5	619	769	194	26.1	9.4	42.3	3.4	0.0	0.5	0.1	18.2	515	0.19	0.62 90.60
24JUN79	17 24JUN79	17	9.9	21.5	615	804	187	25.4	8.6	44.2	3.4	0.0	0.8	0.1	17.5	531	0.19	0.58 54.00
24JUN79	18 24JUN79	18	9.7	8.3	612	842	152	23.1	8.0	47.7	3.7	0.0	1.7	0.1	15.7	560	0.24	0.49 27.28
24JUN79	19 24JUN79	19	9.4	20.6	609	871	151	21.4	7.7	50.2	3.9	0.0	2.0	0.1	14.7	581	0.27	0.43 25.18
24JUN79	20 24JUN79	20	7.9	6.6	605	885	104	17.2	7.1	53.7	4.2	0.0	2.5	0.1	13.1	602	0.32	0.32 21.08
24JUN79	21 24JUN79	21	8.6	4.7	602	888	104	15.3	7.9	56.4	4.5	0.0	2.4	0.1	13.4	624	0.33	0.27 23.41
24JUN79	22 24JUN79	22	7.2	5.2	600	887	104	14.5	7.9	57.5	4.3	0.0	2.1	0.2	13.6	631	0.31	0.25 27.50
25JUN79	1 25JUN79	1	9.1	4.9	610	164	383	1.1	77.1	3.6	0.1	0.6	0.3	0.9	8.6	39.9	0.02	0.32 12.53
25JUN79	2 25JUN79	2	38.2	46.4	608	164	394	1.1	77.6	3.1	0.0	0.0	0.6	0.9	16.7	33.9	0.00	0.35 5.54
25JUN79	3 25JUN79	3	39.0	45.9	604	164	374	1.0	77.4	2.4	0.0	0.0	0.4	0.9	17.8	27.2	0.00	0.41 5.55
25JUN79	4 25JUN79	4	40.1	45.6	601	164	365	1.4	76.4	2.2	0.2	0.0	0.4	0.9	18.4	27.6	0.01	0.63 5.68
25JUN79	5 25JUN79	5	39.9	51.5	597	164	357	2.3	74.8	2.2	1.0	0.0	0.4	0.9	18.4	32.7	0.05	1.04 5.58
25JUN79	6 25JUN79	6	38.3	53.2	595	164	352	3.5	72.6	2.4	2.0	0.0	0.4	0.9	18.3	41.1	0.11	1.44 6.04
25JUN79	7 25JUN79	7	39.4	48.6	614	164	336	4.5	70.7	2.7	2.9	0.0	0.4	0.9	16.0	50.0	0.16	1.68 7.06
25JUN79	8 25JUN79	8	39.8	92.2	624	165	339	5.8	68.6	3.3	3.1	0.0	0.4	0.8	18.0	60.9	0.17	1.75 8.44
25JUN79	9 25JUN79	9	39.7	48.4	621	170	339	5.7	68.1	3.3	4.0	0.0	0.4	1.2	17.3	63.3	0.23	1.75 7.33
25JUN79	10 25JUN79	10	17.9	66.7	615	242	276											
25JUN79	11 25JUN79	11	25.7	73.7	612	366	197	3.5	77.6	3.2	0.3	20.9	0.0	1.1	0.1	2.6	4.12	0.23
25JUN79	12 25JUN79	12	25.6	14.5	609	501	196	3.0	77.7	3.1	0.3	21.0	0.0	0.9	0.0	2.6		0.00

17:41 *LOWERED BACK PRESSURE IN PI-3 to 150 PSIG.

19:48 *LOWERED BACK PRESSURE IN PI-3 to 100 PSIG.

22:45**SYSTEM CHANGE - SWITCH INJECTION FLOW FROM PI-2 to PI-3.

(C) (P) (I)

10:55**SYSTEM CHANGE SWITCH INJECTION FLOW FROM PI-3 to PI-2.

(C) (I) (P)

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

22

DATE	HOOR	DATE	HOOR	INFLD	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
25JUN79	13	25JUN79	13	25.3	21.8	607	623	194												
			13:47	*DROPPED BACK PRESSURE TO 100 PSIG.																
25JUN79	14	25JUN79	14	25.4	16.4	603	734	115	21.7	19.4	32.7	4.6	0.0	0.5	0.3	20.8	409	0.22	0.66	59.62
25JUN79	15	25JUN79	15	25.7	97.8	601	736	104	15.3	29.0	30.2	5.2	0.0	1.9	0.5	17.9	366	0.29	0.51	15.93
			15:00-16:00	BREAKTHROUGH OCCURRED																
25JUN79	16	25JUN79	16	25.4	94.4	599	454	105	15.9	52.3	6.2	16.0	0.0	0.3	0.7	6.7	163	1.85	2.58	18.68
25JUN79	17	25JUN79	17	25.5	74.7	596	232	173	18.9	48.2	8.9	12.4	0.0	0.8	0.6	10.2	189	1.21	2.12	11.65
25JUN79	18	25JUN79	18	25.4	37.8	593	200	106	16.5	52.1	10.0	12.0	0.0	0.9	0.6	7.9	190	1.52	1.66	11.41
25JUN79	19	25JUN79	19	25.4	39.7	589	192	105	15.9	51.6	10.5	12.1	0.0	0.7	0.6	8.5	194	1.43	1.52	14.80
25JUN79	20	25JUN79	20	25.3	37.9	587	189	104	16.0	50.8	10.9	12.4	0.0	0.6	0.6	8.6	199	1.43	1.47	18.24
25JUN79	21	25JUN79	21	25.4	38.2	584	188	105	17.1	49.6	11.1	13.2	0.0	0.5	0.6	7.9	207	1.66	1.53	22.98
25JUN79	22	25JUN79	22	25.4	42.0	581	188	105	17.3	49.2	11.1	13.7	0.0	0.5	0.6	7.5	209	1.82	1.57	20.85
25JUN79	23	25JUN79	23	25.4	40.4	580	189	105	17.8	49.5	10.7	14.0	0.0	0.5	0.6	6.9	207	2.03	1.67	19.85
26JUN79	0	26JUN79	0	25.5	39.4	577	191	105	17.4	49.1	11.1	14.2	0.0	0.5	0.6	7.1	211	2.02	1.57	21.80
26JUN79	1	26JUN79	1	25.2	40.3	575	192	105	16.9	48.9	11.6	14.3	0.0	0.7	0.6	7.0	215	2.03	1.45	17.49
26JUN79	2	26JUN79	2	25.4	41.9	572	195	105	16.1	49.2	13.1	14.2	0.0	0.7	0.6	7.1	227	2.00	1.24	18.76
26JUN79	3	26JUN79	3	25.7	42.1	570	196	105	17.1	47.4	13.0	14.0	0.0	0.7	0.6	7.2	228	1.93	1.31	17.85
26JUN79	4	26JUN79	4	25.4	41.1	568	198	105	16.6	47.0	13.5	13.6	0.0	0.7	0.6	7.1	232	1.93	1.22	18.44
26JUN79	5	26JUN79	5	25.4	42.4	566	200	105	15.8	47.4	14.7	13.2	0.0	0.8	0.6	7.6	239	1.74	1.07	18.78
26JUN79	6	26JUN79	6	25.7	43.2	564	203	105	15.7	46.8	15.6	12.6	0.0	0.8	0.6	7.7	246	1.66	1.01	19.42
26JUN79	7	26JUN79	7	25.3	42.8	563	205	105	16.9	45.9	15.5	12.8	0.0	0.8	0.6	7.5	249	1.72	1.09	19.59
26JUN79	8	26JUN79	8	25.6	42.0	562	208	105	16.5	46.7	15.1	13.0	0.0	0.8	0.6	7.3	244	1.78	1.09	18.86
26JUN79	9	26JUN79	9	25.5	39.1	561	211	104	15.6	47.3	14.9	13.0	0.0	0.8	0.6	7.5	240	1.74	1.07	17.60
26JUN79	10	26JUN79	10	25.7	44.7	561	213	103	16.3	47.1	14.8	12.9	0.0	0.9	0.6	7.5	240	1.72	1.10	17.19
26JUN79	11	26JUN79	11	25.5	44.0	560	213	103	16.5	47.2	14.3	13.1	0.0	0.8	0.6	7.5	237	1.74	1.15	17.48
26JUN79	12	26JUN79	12	25.4	46.0	558	213	103	16.4	46.8	14.9	12.9	0.0	0.8	0.6	7.6	242	1.71	1.10	17.70

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

23

DATE	HOUR	DATE	HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
26JUN79	13	26JUN79	13	39.9	62.8	557	198	103	15.3	43.5	14.5	12.7	0.0	0.8	0.6	7.5	233	1.69	1.05	17.05
26JUN79	14	26JUN79	14	43.1	74.1	555	230	103	14.1	48.7	14.1	13.9	0.0	0.9	0.6	7.7	229	1.81	1.00	16.26
26JUN79	15	26JUN79	15	29.9	61.3	554	229	103	18.2	43.1	16.1	14.4	0.0	0.8	0.5	6.9	264	2.08	1.13	20.98
26JUN79	16	26JUN79	16	25.3	50.7	551	224	103	20.2	38.9	20.3	13.0	0.0	0.7	0.5	6.4	308	2.05	0.99	27.57
26JUN79	17	26JUN79	17	25.5	47.7	550	225	103	13.2	41.3	20.3	12.2	0.0	0.9	0.5	6.7	299	1.83	0.89	23.89
26JUN79	18	26JUN79	18	25.5	46.2	548	226	104	15.9	42.7	19.8	11.8	0.0	1.0	0.5	7.2	289	1.65	0.85	19.29
26JUN79	19	26JUN79	19	25.3	44.0	547	227	104	15.9	43.6	19.8	11.6	0.0	1.1	0.6	7.5	284	1.54	0.80	17.82
26JUN79	20	26JUN79	20	25.4	44.2	545	228	104	15.1	44.4	19.5	11.5	0.0	1.1	0.6	7.9	279	1.46	0.78	17.30
26JUN79	21	26JUN79	21	25.4	41.6	544	229	104	15.6	42.7	19.9	12.0	0.0	1.0	0.5	8.3	286	1.44	0.78	20.69
26JUN79	22	26JUN79	22	25.4	40.6	545	229	104	14.8	44.4	19.6	11.5	0.0	1.1	0.6	8.1	279	1.42	0.75	18.41
26JUN79	23	26JUN79	23	25.3	44.4	543	229	104	14.6	44.5	19.5	11.5	0.0	1.1	0.6	8.3	277	1.39	0.75	18.37
27JUN79	0	27JUN79	0	25.6	40.2	542	229	104	14.2	44.4	20.1	11.3	0.0	1.1	0.6	8.4	262	1.35	0.71	19.05
27JUN79	1	27JUN79	1	25.6	39.8	540	230	104	14.0	44.2	20.4	11.3	0.0	1.1	0.6	8.5	263	1.33	0.69	19.04
27JUN79	2	27JUN79	2		38.2															
27JUN79	3	27JUN79	3	25.3	45.7	537	232	104	13.4	44.0	21.2	11.1	0.0	1.1	0.6	8.6	289	1.30	0.63	19.40
27JUN79	4	27JUN79	4	25.3	42.2	536	233	105	14.0	43.6	20.9	11.2	0.0	1.1	0.6	8.6	289	1.31	0.67	19.23
27JUN79	5	27JUN79	5	25.4	44.1	535	234	104	14.3	43.4	20.9	11.3	0.0	1.1	0.6	8.5	290	1.33	0.68	19.61
27JUN79	6	27JUN79	6	25.3	43.0	533	235	105	14.2	43.3	21.3	11.2	0.0	1.1	0.5	8.4	293	1.34	0.66	20.18
27JUN79	7	27JUN79	7	25.4	45.2	532	236	104	14.6	43.2	20.7	11.4	0.0	1.1	0.5	8.4	289	1.36	0.70	19.43
27JUN79	8	27JUN79	8	42.2	48.0	531	238	104	14.9	43.6	20.9	11.2	0.0	1.1	0.5	8.3	286	1.35	0.72	19.47
27JUN79	9	27JUN79	9	48.8	42.7	530	308	143	8.9	58.4	12.1	6.3	8.4	0.5	0.7	5.0	169	1.27	0.73	23.12
27JUN79	10	27JUN79	10	29.6	0.0	529	270													
27JUN79	11	27JUN79	11	0.0	0.0	499	474	343												
27JUN79	12	27JUN79	12	0.0	25.4	467	482	365												

12:58 *SYSTEM BACK ON LINE, PRODUCTION LINE OPENED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

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DATE HOUR	DATE HOUR	INFLC	OUTFLC	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
27JUN79	13 27JUN79	13	1.9	69.3	467 (C)	340 (C)	194 (P)/13:50	14.3	41.2	23.4	8.0	0.0	1.2	0.5	11.4	304	0.70	0.61	20.07
27JUN79	14 27JUN79	14	12.5	29.7	456 (C)	242 (I)	102 (P)	15.3	39.7	23.3	8.7	0.0	1.5	0.5	13.0	282	0.67	0.86	13.75
27JUN79	15 27JUN79	15	62.6	37.1	465	234	103	18.1	33.6	27.0	8.4	0.0	1.5	0.4	11.0	353	0.76	0.67	17.45
27JUN79	16 27JUN79	16	93.3	139.7	464	269	104	8.4	58.5	7.2	14.6	0.0	1.7	0.7	8.9	145	1.64	1.16	4.34
27JUN79	17 27JUN79	17	30.3	71.1	463	208	103	13.0	49.6	11.4	16.2	0.0	1.3	0.6	7.9	206	2.05	1.14	8.92
27JUN79	18 27JUN79	18	23.2	43.4	451	251	103	16.5	41.9	18.6	13.1	0.0	1.1	0.5	8.2	280	1.59	0.85	17.63
27JUN79	19 27JUN79	19	24.5	50.7	460	252	104	15.0	43.7	19.6	11.2	0.0	0.9	0.6	8.8	281	1.26	0.75	21.36
27JUN79	20 27JUN79	20	22.9	41.3	459	253	104	13.6	45.0	19.7	10.3	0.0	1.0	0.6	9.8	272	1.05	0.69	18.86
27JUN79	21 27JUN79	21	23.6	37.3	459	254	104	12.4	46.4	18.9	9.7	0.0	1.3	0.6	10.6	259	0.92	0.65	14.85
27JUN79	22 27JUN79	22	22.4	40.9	458	255	104	12.1	46.9	18.6	9.6	0.0	1.4	0.6	10.8	254	0.88	0.65	13.32
27JUN79	23 27JUN79	23	23.3	38.2	457	256	104	12.1	46.7	18.8	9.4	0.0	1.3	0.6	11.1	255	0.84	0.64	14.73
28JUN79	0 28JUN79	0	22.6	37.2	456	258	104	12.5	45.7	19.0	9.6	0.0	1.5	0.6	11.1	259	0.67	0.66	12.49
28JUN79	1 28JUN79	1	22.7	39.3	455	259	104	12.8	45.5	18.9	9.6	0.0	1.5	0.6	11.0	260	0.87	0.67	12.70
28JUN79	2 28JUN79	2	23.3	36.0	454	260	104	13.0	45.2	19.0	9.7	0.0	1.5	0.6	11.0	262	0.88	0.68	12.85
28JUN79	3 28JUN79	3	23.0	37.8	453	262	105	12.8	45.2	19.3	9.6	0.0	1.5	0.6	10.9	263	0.88	0.67	12.85
28JUN79	4 28JUN79	4	22.8	36.2	452	263	105	12.8	45.5	18.7	9.9	0.0	1.6	0.6	11.0	259	0.90	0.65	12.06
28JUN79	5 28JUN79	5	23.1	37.7	451	264	104	13.1	45.7	18.2	10.0	0.0	1.6	0.6	10.9	254	0.92	0.72	11.53
28JUN79	6 28JUN79	6	22.9	37.2	450	265	104	14.0	44.2	18.7	10.2	0.0	1.6	0.6	10.6	264	0.96	0.75	11.59
28JUN79	7 28JUN79	7	22.3	39.0	449	303	104	13.7	44.4	18.9	10.2	0.0	1.6	0.6	10.6	264	0.96	0.72	11.58
28JUN79	8 28JUN79	8	23.2	42.3	447	268	104	13.5	44.7	18.8	10.0	0.0	1.7	0.6	10.7	262	0.94	0.72	11.36
28JUN79	9 28JUN79	9	22.2	41.9	447	269	104	13.1	45.0	19.1	9.7	0.0	1.7	0.6	10.8	263	0.90	0.69	11.20
28JUN79	10 28JUN79	10	21.3	41.0	446	271	104	12.8	45.3	19.0	9.7	0.0	1.8	0.6	10.9	261	0.89	0.68	10.80
28JUN79	11 28JUN79	11	22.4	40.6	445	271	104	12.7	45.5	18.7	9.7	0.0	1.8	0.6	11.1	258	0.87	0.68	10.36
28JUN79	12 28JUN79	12	20.8	40.7	445	272	103	12.7	45.7	19.6	9.5	0.0	1.8	0.6	11.1	256	0.86	0.68	10.22

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

25

	DATE	HOUR	DATE	HOUR	INFLC	OUTFLC	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
28JUN79	13	23JUN79	13	24.1	38.9	444	274	103	13.0	45.3	18.6	9.5	0.0	1.8	0.6	11.1	257	0.85	0.70	10.19	
28JUN79	14	23JUN79	14	28.3	47.1	444	276	103	13.0	46.4	17.8	9.5	0.0	1.8	0.6	11.0	249	0.87	0.73	9.95	
28JUN79	15	23JUN79	15	27.9	49.1	443	277	103	11.4	49.1	16.1	9.8	0.0	1.8	0.6	11.2	228	0.88	0.71	9.09	
28JUN79	16	23JUN79	16	32.0	53.1	441	279	104	11.4	49.3	15.8	9.9	0.0	1.8	0.6	11.1	225	0.89	0.72	8.95	
28JUN79	17	28JUN79	17	33.4	55.1	440	280	105	11.0	49.8	15.3	10.6	0.0	1.6	0.6	11.1	220	0.95	0.72	9.27	
28JUN79	18	23JUN79	18	31.9	53.3	439	280	105	11.2	49.2	15.2	11.1	0.0	1.7	0.6	11.0	223	1.01	0.73	9.11	
28JUN79	19	28JUN79	19	30.2	50.8	438	281	105	11.7	47.5	16.6	11.1	0.0	1.6	0.6	10.9	238	1.02	0.70	10.42	
28JUN79	20	23JUN79	20	31.1	50.8	438	282	105	12.1	46.3	17.8	11.1	0.0	1.3	0.5	10.8	251	1.02	0.68	13.47	
28JUN79	21	28JUN79	21	30.8	50.2	437	283	104	12.7	45.3	18.1	11.3	0.0	1.4	0.6	10.7	256	1.06	0.70	12.56	
28JUN79	22	28JUN79	22	26.5	53.8	436	284	105	13.3	44.0	18.9	11.2	0.0	1.4	0.6	10.5	267	1.07	0.70	13.09	
28JUN79	23	28JUN79	23	31.5	58.4	435	286	105	13.8	43.2	19.6	11.2	0.0	1.5	0.5	10.2	274	1.09	0.71	13.24	
28JUN79	0	29JUN79	0	33.4	60.5	434	232	105	14.0	43.2	19.4	11.2	0.0	1.5	0.5	10.1	273	1.12	0.72	12.71	
29JUN79	1	29JUN79	1	29.4	58.8	433	288	105	13.4	44.1	19.2	11.4	0.0	1.6	0.6	9.8	270	1.16	0.70	12.12	
29JUN79	2	29JUN79	2	31.6	57.6	432	290	104	13.4	43.0	20.4	11.2	0.0	1.7	0.5	9.8	281	1.15	0.65	12.12	
29JUN79	3	29JUN79	3	28.6	55.2	431	290	105	13.4	42.8	20.3	11.2	0.0	1.7	0.5	9.9	281	1.13	0.66	11.66	
29JUN79	4	29JUN79	4	31.0	49.2	431	292	105	13.9	41.5	21.4	11.1	0.0	1.8	0.5	9.8	292	1.13	0.65	12.03	
29JUN79	5	29JUN79	5	31.8	52.1	430	293	104	13.4	42.8	20.7	11.0	0.0	1.7	0.5	9.8	284	1.12	0.65	11.98	
29JUN79	6	29JUN79	6	32.0	52.8	429	295	104	13.1	43.4	20.3	11.0	0.0	1.7	0.5	10.0	279	1.10	0.65	11.60	
29JUN79	7	29JUN79	7	29.4	50.2	428	295	105	13.2	43.0	20.5	11.0	0.0	1.8	0.5	10.0	281	1.10	0.64	11.58	
29JUN79	8	29JUN79	8	28.5	50.3	428	296	104	13.4	41.8	21.4	10.9	0.0	1.8	0.5	10.1	291	1.08	0.63	12.00	
29JUN79	9	29JUN79	9	28.2	49.3	427	297	104	13.7	41.6	21.5	10.9	0.0	1.8	0.5	10.1	292	1.08	0.64	12.22	
29JUN79	10	29JUN79	10	28.6	46.4	427	298	104	13.7	41.8	21.2	10.9	0.0	1.7	0.5	10.1	289	1.08	0.65	12.28	
29JUN79	11	29JUN79	11	28.2	50.4	426	300	104	13.6	42.3	21.2	10.6	0.0	1.7	0.5	10.1	288	1.05	0.64	12.38	
29JUN79	12	29JUN79	12	28.2	49.4	426	301	104	13.5	42.6	21.0	10.5	0.0	1.7	0.5	10.1	286	1.03	0.64	12.28	

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

20

DATE HOUR	DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	G2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
29JUN79	13 29JUN79	13	28.4	51.3	424	302	105	13.2	43.1	20.9	10.4	0.0	1.6	0.5	10.3	283	1.02	0.63	12.82
29JUN79	14 29JUN79	14	28.2	47.9	423	303	105	13.3	42.5	21.3	10.4	0.0	1.7	0.5	10.2	287	1.02	0.63	12.16
29JUN79	15 29JUN79	15	28.5	45.5	423	304	104	13.2	42.7	21.2	10.4	0.0	1.3	0.5	10.2	286	1.02	0.62	12.02
29JUN79	16 29JUN79	16	28.3	47.4	422	304	104	13.3	42.6	21.4	10.3	0.0	1.6	0.5	10.3	286	1.00	0.62	13.27
29JUN79	17 29JUN79	17	28.2	48.3	421	306	104	13.1	42.6	21.5	10.3	0.0	1.7	0.5	10.3	288	0.99	0.61	12.36
29JUN79	18 29JUN79	18	28.6	47.2	420	307	104	12.7	42.9	21.8	9.9	0.0	1.7	0.5	10.4	289	0.96	0.58	12.56
29JUN79	19 29JUN79	19	28.1	52.6	420	306	105	12.4	43.2	21.7	9.9	0.0	1.6	0.5	10.6	287	0.93	0.57	13.16
29JUN79	20 29JUN79	20	28.3	53.2	419	309	104	12.4	43.1	21.6	10.0	0.0	1.7	0.5	10.7	286	0.93	0.58	13.08
29JUN79	21 29JUN79	21	28.6	55.2	419	309	104	12.4	43.1	21.4	10.0	0.0	1.8	0.5	10.8	284	0.93	0.58	12.11
29JUN79	22 29JUN79	22	28.3	52.7	417	304	105	12.2	43.8	20.7	10.0	0.0	1.8	0.6	10.9	277	0.92	0.59	11.49
29JUN79	23 29JUN79	23	28.6	53.7	416	305	105	12.4	43.4	20.9	9.9	0.0	1.8	0.6	11.0	260	0.90	0.59	11.88
30JUN79	0 30JUN79	0	28.2	54.0	416	306	105	12.3	43.7	20.8	10.0	0.0	1.7	0.6	11.0	278	0.91	0.56	11.94
30JUN79	1 30JUN79	1	28.5	46.6	415	307	105												
30JUN79	2 30JUN79	2	27.9	45.6	414	308	105												
30JUN79	3 30JUN79	3	28.8	49.2	413	309	105	12.1	44.7	20.1	9.9	0.0	1.7	0.6	11.0	270	0.90	0.60	11.84
30JUN79	4 30JUN79	4	28.3	48.1	412	310	105	12.1	44.3	20.3	9.9	0.0	1.7	0.6	11.1	272	0.89	0.60	11.67
30JUN79	5 30JUN79	5	28.4	43.3	411	311	105	12.0	44.4	20.4	9.6	0.0	1.7	0.6	11.1	272	0.85	0.59	11.66
30JUN79	6 30JUN79	6	28.3	45.8	411	312	105	11.8	44.8	20.4	9.7	0.0	1.7	0.6	11.0	272	0.88	0.58	11.81
30JUN79	7 30JUN79	7	28.5	46.0	410	313	104	10.9	40.7	27.5	8.8	0.0	1.6	0.5	10.0	337	0.88	0.40	17.45
30JUN79	8 30JUN79	8	28.5	46.9	410	314	105	11.0	40.3	27.9	8.8	0.0	1.6	0.5	10.0	340	0.88	0.39	17.69
30JUN79	9 30JUN79	9	28.2	49.8	409	314	105	10.8	40.3	28.0	8.7	0.0	1.6	0.5	10.0	341	0.87	0.39	17.33
30JUN79	10 30JUN79	10	32.7	35.8	398	262	104	10.7	41.2	27.3	8.5	0.0	1.6	0.5	10.1	333	0.85	0.39	17.20
30JUN79	11 30JUN79	11	28.4	47.2	508	313	104	12.0	32.0	34.4	9.0	0.0	1.6	0.4	10.5	406	0.77	0.35	20.95
30JUN79	12 30JUN79	12	28.5	49.7	506	315	105	11.3	39.2	29.0	7.7	0.0	1.6	0.5	10.2	355	0.76	0.38	18.54

10:20 *INCREASE PRESSURE IN PI-1 FROM 400 TO 500 PSIG.

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JUNE

27

DATE HOUR	DATE HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AF	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
30JUN79	13 30JUN79	13	28.4	49.3	505	316	104	10.5	41.3	27.8	8.0	0.0	1.6	0.5	10.3	336	0.78	0.38	17.26
30JUN79	14 30JUN79	14	28.8	47.9	504	317	104	9.9	41.8	27.6	8.0	0.0	1.7	0.5	10.5	332	0.76	0.36	16.55
30JUN79	15 30JUN79	15	29.5	47.3	502	316	105	9.7	42.6	26.9	8.1	0.0	1.7	0.5	10.5	324	0.78	0.36	15.48
30JUN79	21 30JUN79	21	28.2	49.7	493	320	105	10.4	41.6	27.1	8.4	0.0	1.5	0.5	10.5	329	0.80	0.38	17.54
30JUN79	22 30JUN79	22	28.3	47.7	492	320	105	10.5	41.5	26.8	8.7	0.0	1.5	0.5	10.5	328	0.82	0.39	17.44
30JUN79	23 30JUN79	23	28.3	46.3	491	321	105	10.5	41.2	27.4	8.6	0.0	1.5	0.5	10.3	323	0.83	0.38	17.98

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

1

DATE	HOURL	DATE	HOURL	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
01JUL79	0	01JUL79	0	28.1	46.1	490	322	105	11.0	42.6	24.9	8.8	0.0	1.5	0.5	10.7	311	0.83	0.44	17.02
01JUL79	1	01JUL79	1	28.2	49.8	488	322	106	11.6	44.7	21.0	9.2	0.0	1.7	0.6	11.3	275	0.82	0.55	12.65
01JUL79	2	01JUL79	2	27.9	56.9	487	322	106	11.8	44.3	21.4	9.0	0.0	1.6	0.6	11.3	279	0.79	0.55	13.08
01JUL79	3	01JUL79	3	28.2	55.5	486	322	105	11.5	45.2	21.4	8.4	0.0	1.6	0.6	11.3	277	0.74	0.54	13.70
01JUL79	4	01JUL79	4	28.1	55.6	484	323	106	11.4	45.9	21.0	8.1	0.0	1.5	0.6	11.5	271	0.71	0.54	13.76
01JUL79	5	01JUL79	5	28.1	55.5	483	323	106	11.8	45.1	21.4	8.2	0.0	1.5	0.6	11.4	277	0.72	0.55	13.87
01JUL79	6	01JUL79	6	28.2	55.6	482	324	106	12.0	44.7	21.9	8.3	0.0	1.5	0.6	10.9	283	0.76	0.55	14.25
01JUL79	7	01JUL79	7	28.3	50.5	481	324	105	12.2	44.6	22.0	8.5	0.0	1.5	0.6	10.7	285	0.79	0.55	14.44
01JUL79	8	01JUL79	8	28.0	48.9	481	325	105	11.9	44.7	22.3	8.8	0.0	0.7	0.6	11.1	288	0.79	0.53	33.70
01JUL79	9	01JUL79	9	28.2	47.6	479	325	105	11.6	43.0	24.5	8.2	0.0	1.4	0.5	10.8	306	0.75	0.47	17.33
01JUL79	10	01JUL79	10	28.0	46.3	479	326	105	10.6	40.4	29.1	7.7	0.0	1.4	0.5	10.2	348	0.76	0.36	20.57
01JUL79	11	01JUL79	11	27.3	51.2	478	326	105	10.7	40.6	29.0	7.6	0.0	1.4	0.5	10.1	347	0.75	0.37	20.49
01JUL79	15	01JUL79	15	28.0	56.8	472	329	104	10.6	39.9	29.2	9.1	0.0	1.6	0.5	10.2	350	0.79	0.36	18.34
01JUL79	16	01JUL79	16	28.3	55.2	471	330	105	10.6	40.1	29.0	8.2	0.0	1.5	0.5	10.1	348	0.81	0.37	18.90
01JUL79	17	01JUL79	17	28.4	55.3	470	330	105	10.8	39.9	29.1	8.2	0.0	1.5	0.5	10.1	349	0.81	0.37	18.83
01JUL79	18	01JUL79	18	28.4	59.4	469	331	105	10.7	39.7	29.4	9.1	0.0	1.6	0.5	10.0	352	0.81	0.36	18.68
01JUL79	19	01JUL79	19	28.4	54.7	468	329	105	10.9	40.1	29.0	8.1	0.0	1.4	0.5	10.0	349	0.80	0.38	20.62
01JUL79	20	01JUL79	20	28.4	53.9	466	330	105	10.7	39.8	29.6	8.0	0.0	1.5	0.5	9.9	354	0.81	0.36	19.64
01JUL79	21	01JUL79	21	28.2	54.5	465	331	105	10.2	40.0	29.8	7.9	0.0	1.5	0.5	10.1	354	0.78	0.34	19.29
01JUL79	22	01JUL79	22	28.4	56.5	464	331	105	10.1	40.4	29.3	7.8	0.0	1.6	0.5	10.3	348	0.76	0.35	18.04
01JUL79	23	01JUL79	23	28.2	57.4	463	331	105	10.3	40.4	28.9	7.9	0.0	1.6	0.5	10.4	345	0.77	0.36	17.82
02JUL79	0	02JUL79	0	27.8	53.5	462	332	105	10.4	40.1	29.2	7.8	0.0	1.6	0.5	10.3	349	0.76	0.35	18.16
02JUL79	1	02JUL79	1	28.0	54.2	461	332	105	10.3	40.2	29.3	7.8	0.0	1.6	0.5	10.3	349	0.76	0.35	18.28
02JUL79	2	02JUL79	2	28.0	55.0	460	332	105	10.2	40.3	29.4	7.8	0.0	1.6	0.5	10.3	350	0.75	0.35	18.69

08:50 BLACK SMOKE FROM INCINERATOR

18:35 BLACK SMOKE FROM INCINERATOR

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

2

DATE	HQJR	DATE	HCUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4	H2S
02JUL79	3	02JUL79	3	28.7	56.4	459	332	105	10.2	40.0	29.7	7.7	0.3	1.6	0.5	10.4	353	0.74	0.34		18.87	
02JUL79	4	02JUL79	4	28.5	55.5	457	333	106	10.2	39.9	29.8	7.6	0.3	1.5	0.5	10.4	354	0.74	0.34		19.43	
02JUL79	5	02JUL79	5	28.0	57.8	456	333	105	10.3	40.2	29.8	7.6	0.3	1.3	0.5	10.4	353	0.73	0.34		23.73	
02JUL79	6	02JUL79	6	28.3	53.7	455	333	105	10.2	40.0	29.9	7.5	0.3	1.5	0.5	10.5	354	0.72	0.34		19.91	
02JUL79	7	02JUL79	7	28.2	55.1	454	334	106	10.1	40.0	29.6	7.7	0.3	1.6	0.5	10.5	351	0.73	0.34		18.94	
02JUL79	8	02JUL79	8	28.1	56.9	453	334	105	10.0	40.3	29.4	7.7	0.0	1.6	0.5	10.6	348	0.73	0.34		18.55	
02JUL79	9	02JUL79	08:35 9	27.9	56.3	452	334	105	10.0	40.7	28.8	7.7	0.3	1.6	0.5	10.6	343	0.73	0.35		18.23	
02JUL79	10	02JUL79	10	28.3	57.0	451	335	105	10.2	40.1	29.2	7.7	0.3	1.6	0.5	10.6	348	0.73	0.35		18.48	
02JUL79	11	02JUL79	11	28.1	56.8	450	335	105	9.9	40.5	29.2	7.7	0.3	1.6	0.5	10.7	346	0.72	0.34		18.36	
02JUL79	12	02JUL79	12	27.9	55.8	449	336	105	9.8	40.7	28.9	7.6	0.3	1.6	0.5	10.8	343	0.71	0.34		18.10	
02JUL79	13	02JUL79	13	28.1	56.1	449	336	105	9.8	40.4	29.4	7.5	0.3	1.6	0.5	10.7	348	0.70	0.33		18.47	
02JUL79	14	02JUL79	14	27.8	56.9	448	336	104	9.8	40.5	29.4	7.5	0.3	1.6	0.5	10.7	348	0.70	0.33		18.60	
02JUL79	15	02JUL79	15	27.9	52.9	447	336	104	9.8	40.5	29.5	7.4	0.0	1.6	0.5	10.7	348	0.69	0.33		18.65	
02JUL79	16	02JUL79	16	27.7	54.5	446	336	104	9.7	40.9	29.2	7.3	0.3	1.6	0.5	10.8	345	0.68	0.33		18.12	
02JUL79	17	02JUL79	16:30 17	28.2	53.8	445	335	104	9.7	41.1	29.0	7.3	0.3	1.6	0.5	10.8	342	0.67	0.34		18.00	
02JUL79	18	02JUL79	18	28.1	53.6	444	336	104	9.7	41.0	29.1	7.3	0.3	1.6	0.5	10.8	344	0.68	0.33		18.09	
02JUL79	19	02JUL79	19	28.1	53.7	443	336	104	9.7	41.0	29.1	7.3	0.3	1.6	0.5	10.7	344	0.68	0.33		18.29	
02JUL79	20	02JUL79	20	28.1	52.5	442	337	104	9.7	40.7	29.6	7.2	0.3	1.6	0.5	10.8	348	0.66	0.33		18.62	
02JUL79	21	02JUL79	21	27.7	54.0	441	337	104	9.7	40.6	29.7	7.1	0.3	1.6	0.5	10.8	349	0.66	0.33		18.51	
02JUL79	22	02JUL79	22	28.0	52.8	440	337	104	9.6	41.2	29.1	7.1	0.3	1.6	0.5	10.9	343	0.65	0.33		18.24	
02JUL79	23	02JUL79	23	27.5	53.3	438	338	104	9.5	41.1	29.3	7.0	0.3	1.6	0.5	10.9	345	0.64	0.33		18.37	
03JUL79	0	03JUL79	0	27.8	50.0	438	338	104	9.5	41.0	29.6	6.9	0.3	1.6	0.5	10.9	346	0.63	0.32		18.21	
03JUL79	1	03JUL79	1	27.9	50.8	436	338	104	9.4	41.4	29.0	7.0	0.0	1.6	0.5	11.0	341	0.63	0.32		17.87	
03JUL79	2	03JUL79	2	28.1	52.1	435	339	104	9.3	41.6	28.8	7.0	0.3	1.6	0.5	11.0	339	0.64	0.32		17.54	

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

3

DATE	HOURL	DATE	HCUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4	H2S
03JUL79	3	03JUL79	3	27.9	53.6	434	338	104	9.3	41.5	28.9	7.1	0.0	1.7	0.5	11.1	340	0.64	0.32	17.46	
03JUL79	4	03JUL79	4	27.9	52.5	433	338	105	9.3	41.2	29.1	7.1	0.0	1.6	0.5	11.1	342	0.65	0.32	17.69	
03JUL79	5	03JUL79	5	27.8	52.0	432	339	105	9.2	41.2	29.3	7.1	0.0	1.6	0.5	11.0	344	0.65	0.31	17.98	
03JUL79	6	03JUL79	6	27.8	53.1	431	340	105	9.3	41.9	29.3	6.5	0.0	1.5	0.5	10.9	342	0.60	0.32	19.63	
03JUL79	7	03JUL79	7	28.0	52.1	431	339	105	9.1	41.3	29.3	7.2	0.0	1.6	0.5	11.1	343	0.65	0.31	17.99	
03JUL79	8	03JUL79	8	28.2	54.3	430	340	104	9.1	41.5	28.8	7.3	0.0	1.7	0.5	11.1	339	0.65	0.32	17.43	
03JUL79	9	03JUL79	9	27.5	53.3	430	340	104	9.0	40.9	29.4	7.2	0.0	1.6	0.5	11.3	344	0.64	0.31	17.83	
03JUL79	10	03JUL79	10	28.0	52.7	429	341	104	8.9	42.2	28.4	7.2	0.0	1.7	0.5	11.2	334	0.64	0.31	17.15	
03JUL79	11	03JUL79	11	28.3	54.3	429	341	103	9.6	39.2	30.5	7.7	0.0	1.3	0.5	11.2	358	0.69	0.31	23.00	
03JUL79	12	03JUL79	12	28.3	55.1	428	342	104	9.0	41.8	28.9	7.2	0.0	1.6	0.5	11.0	339	0.65	0.31	17.89	
03JUL79	13	03JUL79	13	28.0	51.9	427	341	103													
03JUL79	14	03JUL79	14	27.9	55.8	427	342	103	8.9	42.4	28.3	7.4	0.0	1.2	0.5	11.2	334	0.66	0.31	22.94	
03JUL79	15	03JUL79	15	16.7	45.0	425	341	103	9.0	41.6	28.8	7.3	0.0	1.6	0.5	11.2	339	0.65	0.31	17.80	
03JUL79	16	03JUL79	16	16.6	40.8	424	341	103	9.4	36.2	34.1	6.9	0.0	1.6	0.5	11.3	391	0.61	0.28	20.65	
03JUL79	17	03JUL79	17	16.6	40.5	423	341	104	10.0	34.4	36.2	6.6	0.0	1.6	0.4	10.7	413	0.62	0.28	22.95	
03JUL79	18	03JUL79	18	16.4	39.7	422	342	104	10.2	33.8	36.9	6.4	0.0	1.5	0.4	10.7	420	0.60	0.28	23.89	
03JUL79	19	03JUL79	19	16.7	39.2	421	343	104	10.3	32.9	38.1	6.1	0.0	1.5	0.4	10.6	431	0.58	0.27	25.06	
03JUL79	20	03JUL79	20	16.5	39.1	420	343	104	10.2	33.3	37.9	6.0	0.0	1.5	0.4	10.6	429	0.56	0.27	24.82	
03JUL79	21	03JUL79	21	16.5	39.6	419	344	104	10.2	34.3	36.9	5.9	0.0	1.6	0.4	10.6	418	0.55	0.28	23.38	
03JUL79	22	03JUL79	22	16.6	38.7	418	345	104	10.3	34.5	36.8	5.8	0.0	1.5	0.4	10.7	417	0.54	0.28	24.07	
03JUL79	23	03JUL79	23	16.5	38.5	417	345	104	10.3	33.9	37.3	5.7	0.0	1.7	0.4	10.6	423	0.53	0.28	22.45	
04JUL79	0	04JUL79	0	16.5	37.0	416	346	104	10.3	33.7	37.7	5.5	0.0	1.8	0.4	10.6	426	0.52	0.27	21.55	
04JUL79	1	04JUL79	1	16.4	34.5	415	347	104	10.3	34.4	37.2	5.4	0.0	1.8	0.4	10.5	420	0.51	0.28	20.44	
04JUL79	2	04JUL79	2	16.6	35.6	414	347	104	10.2	34.6	37.1	5.3	0.0	1.9	0.4	10.5	419	0.50	0.27	19.79	

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

4

DATE	HOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
04JUL79	3	04JUL79	3	16.7	35.5	413	348	104	10.1	35.0	37.0	5.1	0.0	1.9	0.4	10.5	417	0.49	0.27	19.20
04JUL79	4	04JUL79	4	16.5	35.4	412	349	104	10.1	35.0	37.0	5.0	0.0	2.0	0.4	10.5	416	0.47	0.27	18.73
04JUL79	5	04JUL79	5	16.4	35.4	411	350	104	9.9	34.8	37.4	4.9	0.0	2.0	0.4	10.5	419	0.47	0.26	18.64
04JUL79	6	04JUL79	6	16.6	34.7	410	350	105	9.6	35.5	37.0	4.7	0.0	2.0	0.5	10.7	414	0.44	0.26	18.32
04JUL79	7	04JUL79	7	16.6	34.9	410	351	104	9.3	36.9	35.8	4.7	0.0	2.1	0.5	10.8	401	0.43	0.26	17.24
04JUL79	8	04JUL79	8	16.5	33.0	409	351	105	9.1	36.9	35.9	4.7	0.0	2.1	0.5	10.7	401	0.44	0.26	17.17
04JUL79	9	04JUL79	9	16.6	35.0	409	352	104	9.1	37.3	35.8	4.5	0.0	2.1	0.5	10.8	399	0.42	0.25	17.15
04JUL79	10	04JUL79	10	16.6	34.9	408	352	104	9.0	37.7	35.3	4.5	0.0	2.1	0.5	10.9	395	0.41	0.25	16.86
04JUL79	11	04JUL79	11	16.6	34.8	407	352	104	8.9	38.3	34.7	4.5	0.0	2.1	0.5	11.0	388	0.41	0.26	16.47
04JUL79	12	04JUL79	12	16.6	34.7	407	352	104	8.8	39.3	33.7	4.5	0.0	2.1	0.5	11.1	378	0.40	0.26	15.86
04JUL79	13	04JUL79	13	16.6	34.6	406	352	104	8.8	39.0	33.9	4.5	0.0	2.1	0.5	11.1	380	0.40	0.26	15.89
04JUL79	14	04JUL79	14	16.6	34.5	405	352	104	8.7	39.2	33.7	4.4	0.0	2.1	0.5	11.3	377	0.39	0.26	15.70
04JUL79	15	04JUL79	15	16.6	34.4	404	353	104	8.7	39.0	33.9	4.4	0.0	2.1	0.5	11.3	379	0.39	0.26	15.80
04JUL79	16	04JUL79	16	16.6	34.3	404	353	104	8.6	39.7	33.2	4.4	0.0	2.1	0.5	11.4	372	0.39	0.26	15.57
04JUL79	17	04JUL79	17	16.6	34.2	403	353	104	8.6	40.0	33.0	4.4	0.0	2.1	0.5	11.5	369	0.38	0.26	15.53
04JUL79	18	04JUL79	18	16.6	34.1	402	353	104	8.5	40.2	32.9	4.3	0.0	2.1	0.5	11.6	368	0.37	0.26	15.63
04JUL79	19	04JUL79	19	16.6	34.0	402	353	104	8.4	41.0	32.1	4.2	0.0	2.1	0.5	11.7	360	0.36	0.26	15.38
04JUL79	20	04JUL79	20	16.6	33.9	401	353	104	8.3	41.2	32.0	4.2	0.0	2.1	0.5	11.8	358	0.35	0.26	15.47
04JUL79	21	04JUL79	21	16.6	33.8	400	354	104	8.2	42.6	30.8	4.1	0.0	2.1	0.5	11.7	345	0.35	0.27	15.00
04JUL79	22	04JUL79	22	16.6	33.7	400	354	104	8.1	43.5	29.8	4.0	0.0	2.0	0.5	12.0	336	0.33	0.27	14.63
04JUL79	23	04JUL79	23	16.6	33.6	399	354	104	8.1	43.8	29.5	4.0	0.0	2.0	0.5	12.0	332	0.33	0.27	14.45
05JUL79	0	05JUL79	0	16.6	33.5	398	354	104	8.0	44.2	29.0	4.0	0.0	2.0	0.6	12.1	327	0.33	0.28	14.29
05JUL79	1	05JUL79	1	16.6	33.4	397	354	104	6.6	50.5	27.2	3.3	0.0	1.6	0.6	10.2	302	0.32	0.24	17.27
05JUL79	2	05JUL79	2	16.6	33.3	397	354	104	7.9	44.7	28.6	4.0	0.0	2.0	0.6	12.3	322	0.32	0.28	14.29

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

5

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
05JUL79	3	05JUL79	3	16.6	33.3	396	355	104	7.8	45.4	27.9	4.0	0.0	2.0	0.6	12.4	315	0.32	0.28	13.96
05JUL79	4	05JUL79	4	16.6	33.2	395	355	104	7.8	45.7	27.5	4.0	0.0	2.0	0.6	12.5	311	0.32	0.28	13.83
05JUL79	5	05JUL79	5	16.6	33.1	395	355	104	7.7	45.8	27.3	3.9	0.0	2.0	0.6	12.7	308	0.31	0.28	13.78
05JUL79	6	05JUL79	6	16.6	33.0	394	355	104	7.6	46.3	26.7	4.0	0.0	2.0	0.6	12.8	303	0.32	0.29	13.64
05JUL79	7	05JUL79	7	16.6	32.9	393	355	104	7.6	46.3	26.7	4.0	0.0	1.9	0.6	12.8	303	0.31	0.28	13.83
05JUL79	8	05JUL79	8	16.6	32.8	392	355	104	7.6	46.7	26.4	4.0	0.0	1.9	0.6	12.8	300	0.32	0.29	13.93
05JUL79	9	05JUL79	9	16.6	32.7	392	356	104	7.6	46.8	26.3	4.0	0.0	1.9	0.6	12.8	298	0.31	0.29	14.07
05JUL79	10	05JUL79	10	16.6	32.6	391	356	104	7.5	47.4	25.7	4.1	0.0	1.9	0.6	12.9	293	0.31	0.29	13.91
05JUL79	11	05JUL79	11	16.6	32.5	390	356	104	7.4	47.7	25.2	4.1	0.0	1.9	0.6	13.1	287	0.31	0.29	13.15
05JUL79	12	05JUL79	12	16.6	32.4	390	356	104	7.4	48.5	24.3	4.2	0.0	1.8	0.6	13.2	278	0.32	0.30	13.17
05JUL79	13	05JUL79	13	16.6	32.3	389	356	104	7.4	48.2	24.3	4.3	0.0	1.8	0.6	13.4	279	0.32	0.30	13.36
05JUL79	14	05JUL79	14	16.6	32.2	388	356	104	7.4	48.2	24.3	4.4	0.0	1.8	0.6	13.4	279	0.32	0.30	13.46
05JUL79	15	05JUL79	15	16.6	32.1	388	357	104	7.3	48.9	23.5	4.4	0.0	1.8	0.6	13.5	272	0.32	0.31	13.16
05JUL79	16	05JUL79	16	16.6	32.0	387	357	104	7.3	48.8	23.7	4.4	0.0	1.7	0.6	13.5	273	0.32	0.31	13.95
05JUL79	17	05JUL79	17	16.6	31.9	386	357	104	7.3	48.9	23.6	4.3	0.0	1.7	0.6	13.4	272	0.32	0.31	13.59
05JUL79	18	05JUL79	18	16.6	31.8	385	357	104	7.3	49.4	22.9	4.5	0.0	1.7	0.6	13.5	265	0.33	0.32	13.47
05JUL79	19	05JUL79	19	16.6	31.7	385	357	104	7.3	49.3	23.0	4.5	0.0	1.7	0.6	13.6	266	0.33	0.32	13.66
05JUL79	20	05JUL79	20	16.6	31.6	384	357	104	7.3	48.8	23.3	4.6	0.0	1.7	0.6	13.7	270	0.34	0.31	14.04
05JUL79	21	05JUL79	21	16.6	31.5	383	358	104	7.4	48.6	23.5	4.5	0.0	1.6	0.6	13.7	272	0.33	0.32	14.26
05JUL79	22	05JUL79	22	16.6	31.4	383	358	104	7.4	48.7	22.8	4.7	0.0	1.6	0.6	14.2	265	0.33	0.32	13.91
05JUL79	23	05JUL79	23	16.6	31.3	382	358	104	7.3	49.9	22.0	4.6	0.0	1.6	0.6	13.9	257	0.33	0.33	13.41
06JUL79	0	06JUL79	0	16.6	31.2	381	358	104	7.4	49.6	22.1	5.0	0.0	1.6	0.6	13.7	259	0.36	0.34	14.07
06JUL79	1	06JUL79	1	16.6	31.1	380	358	104	7.4	49.7	22.2	4.7	0.0	1.6	0.6	13.7	260	0.34	0.33	14.24
06JUL79	2	06JUL79	2	16.6	31.0	380	358	104	7.5	49.5	22.6	4.5	0.0	1.6	0.6	13.7	263	0.33	0.33	14.47

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

6

DATE	HQJR	DATE	HCUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
06JUL79	3	06JUL79	3	16.6	30.9	379	359	104	7.4	49.7	22.1	4.6	0.0	1.7	0.6	13.9	259	0.33	0.34	13.33
06JUL79	4	06JUL79	4	16.6	30.8	378	359	104	7.5	49.4	22.4	4.5	0.0	1.6	0.6	14.0	261	0.32	0.33	14.22
06JUL79	5	06JUL79	5	16.6	30.8	378	359	104	7.6	49.5	22.3	4.6	0.0	1.6	0.6	13.8	261	0.33	0.34	14.03
06JUL79	6	06JUL79	6	16.6	30.6	377	359	104	8.1	52.1	18.1	5.1	0.0	1.3	0.7	14.7	222	0.35	0.45	13.87
06JUL79	7	06JUL79	7	16.6	30.5	376	359	104	8.2	52.8	16.2	5.4	0.0	1.7	0.7	15.0	205	0.36	0.51	9.74
06JUL79	8	06JUL79	8	16.6	30.5	376	359	104	8.2	53.2	15.9	5.5	0.0	1.5	0.7	15.0	202	0.36	0.52	10.28
06JUL79	9	06JUL79	9	16.6	30.4	375	360	104	8.2	53.1	15.4	5.9	0.0	1.7	0.7	15.0	198	0.39	0.53	9.23
06JUL79	10	06JUL79	10	16.6	30.3	374	360	104	8.3	52.9	15.7	5.7	0.0	1.7	0.7	15.1	201	0.38	0.53	9.39
06JUL79	11	06JUL79	11	16.6	30.2	373	360	104	8.2	53.9	15.1	5.4	0.0	1.7	0.7	15.1	193	0.36	0.54	9.06
06JUL79	12	06JUL79	12	16.6	30.1	373	360	104												
06JUL79	13	06JUL79	13	16.6	30.0	372	360	104	8.1	54.2	14.8	5.5	0.0	1.6	0.7	15.1	190	0.37	0.55	8.95
06JUL79	14	06JUL79	14	16.6	32.6	371	279	102	8.2	54.1	14.5	5.6	0.0	1.7	0.7	15.1	188	0.37	0.56	8.37
06JUL79	15	06JUL79	15	16.6	33.0	370	360	102	8.1	54.5	14.0	5.7	0.0	1.8	0.7	15.2	183	0.38	0.58	7.90
06JUL79	16	06JUL79	16	16.6	28.1	365	361	103	8.2	54.5	13.6	5.7	0.0	1.7	0.7	15.6	180	0.36	0.60	7.99
06JUL79	17	06JUL79	17	16.8	31.5	369	362	102	8.3	54.6	13.7	5.8	0.0	1.7	0.7	15.2	181	0.38	0.61	8.11
06JUL79	18	06JUL79	18	16.5	29.2	368	362	103	8.3	54.8	13.7	5.9	0.0	1.6	0.7	15.0	182	0.39	0.60	8.44
06JUL79	19	06JUL79	19	16.4	29.8	367	361	104	8.2	54.8	13.4	5.9	0.0	1.6	0.6	15.3	178	0.39	0.62	8.22
06JUL79	20	06JUL79	20	16.8	28.6	366	362	104	8.3	55.0	13.4	6.0	0.0	1.6	0.7	15.1	178	0.39	0.62	8.37
06JUL79	21	06JUL79	21	16.4	28.3	365	363	104	8.3	54.6	13.6	5.9	0.0	1.6	0.7	15.3	181	0.38	0.61	8.54
06JUL79	22	06JUL79	22	16.6	28.1	363	363	104	8.4	54.5	13.8	5.9	0.0	1.6	0.7	15.1	183	0.39	0.61	8.77
06JUL79	23	06JUL79	23	16.5	29.5	363	362	104	8.4	54.6	13.6	5.8	0.0	1.6	0.7	15.3	181	0.38	0.62	8.77
07JUL79	0	07JUL79	0	16.5	28.8	362	363	104	8.5	54.7	13.6	5.8	0.0	1.5	0.7	15.2	181	0.38	0.63	8.85
07JUL79	1	07JUL79	1	16.5	26.8	361	364	104	8.6	54.1	14.1	5.7	0.0	1.5	0.7	15.3	186	0.37	0.61	9.24
07JUL79	2	07JUL79	2	16.6	29.8	361	363	104	8.5	54.6	13.6	5.8	0.0	1.5	0.7	15.3	181	0.38	0.63	8.96

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

7

DATE	HR	DATE	HR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4	H2S
07JUL79	3	07JUL79	3	16.9	29.1	360	362	104	8.5	54.6	13.6	5.8	0.0	1.5	0.7	15.3	180	0.38	0.63	8.84	
07JUL79	4	07JUL79	4	16.6	28.3	359	361	104	8.5	54.5	13.6	5.7	0.0	1.5	0.7	15.4	181	0.37	0.62	8.84	
07JUL79	5	07JUL79	5	16.9	27.5	359	361	104	8.6	54.5	13.7	5.5	0.0	1.5	0.7	15.5	181	0.36	0.63	9.03	
07JUL79	6	07JUL79	6	16.6	28.4	358	363	104	8.6	54.6	13.6	5.6	0.0	1.5	0.7	15.4	180	0.36	0.64	8.91	
07JUL79	7	07JUL79	7	16.7	29.9	358	365	104	8.6	54.7	13.5	5.6	0.0	1.5	0.7	15.3	180	0.37	0.64	8.95	
07JUL79	8	07JUL79	8	16.6	27.6	357	364	104	8.6	54.8	13.6	5.5	0.0	1.5	0.7	15.3	180	0.36	0.63	9.09	
07JUL79	9	07JUL79	9	11.1	27.7	358	365	103	8.5	54.8	13.5	5.5	0.0	1.5	0.7	15.5	179	0.35	0.63	9.01	
07JUL79	10	07JUL79	10	16.3	29.0	358	364	102	8.5	55.4	13.1	5.5	0.0	1.5	0.7	15.3	175	0.36	0.65	8.71	
07JUL79	11	07JUL79	11	30.9	65.1	358	352	102	8.3	55.6	12.5	5.6	0.0	1.7	0.7	15.5	169	0.36	0.67	7.16	
07JUL79	12	07JUL79	12	9.7	59.6	357	328	103	7.8	55.6	11.0	6.5	0.0	1.7	0.7	16.7	155	0.39	0.71	6.33	
07JUL79	13	07JUL79	13	29.9	46.4	357	320	103	8.5	55.6	10.9	6.9	0.0	1.7	0.7	15.7	158	0.44	0.78	6.62	
07JUL79	14	07JUL79	14	30.8	67.5	356	309	103	8.0	55.4	10.0	7.5	0.0	1.7	0.7	16.6	149	0.45	0.80	5.77	
07JUL79	15	07JUL79	15	31.8	50.9	355	296	102	7.8	56.2	9.7	8.5	0.0	1.4	0.7	15.7	148	0.54	0.81	6.91	
07JUL79	16	07JUL79	16	32.2	61.3	354	296	103	7.7	58.3	8.8	9.0	0.0	1.2	0.7	14.3	141	0.63	0.88	7.12	
07JUL79	17	07JUL79	17	32.2	50.1	354	301	102													
07JUL79	18	07JUL79	18	31.7	52.2	353	300	104													
07JUL79	19	07JUL79	19	31.8	50.3	352	299	105													
07JUL79	20	07JUL79	20	32.3	49.5	351	298	104													
07JUL79	21	07JUL79	21	31.9	46.6	350	299	105													
07JUL79	22	07JUL79	22	32.0	49.3	349	300	105	7.7	59.5	7.6	9.6	0.0	1.1	0.7	13.7	131	0.70	1.02	6.94	
07JUL79	23	07JUL79	23	32.2	48.5	348	304	105	7.8	59.5	7.6	9.5	0.0	1.1	0.7	13.7	131	0.69	1.03	7.09	
08JUL79	0	08JUL79	0	32.6	49.3	348	305	104	7.9	59.4	7.9	9.4	0.0	1.0	0.7	13.7	134	0.69	1.00	7.53	
08JUL79	1	08JUL79	1	31.8	50.5	347	306	103	8.0	59.2	7.9	9.4	0.0	1.0	0.7	13.6	134	0.69	1.01	7.57	
08JUL79	2	08JUL79	2	31.7	49.7	347	307	103	8.1	58.9	8.4	9.3	0.0	1.0	0.7	13.6	139	0.68	0.97	8.01	

11:25 HUGE AMOUNTS OF HEAVY BLACK SMOKE FROM INCINERATOR 11.50 FLAME AT THE TOP OF THE INCINERATOR

13:00 DRAINED TAR KNOCKOUT POT-40 GALLON LIQUOR COLLECTED 13.20 FLAME AT THE TOP OF THE INCINERATOR

20:30 DRAINED TAR KNOCKOUT POT-60 GALLON LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

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DATE	HOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
08JUL79	3	08JUL79	3	31.9	49.2	346	307	103	8.1	59.0	8.3	9.3	0.0	1.1	0.7	13.6	138	0.68	0.97	7.89
08JUL79	4	08JUL79	4	31.3	50.1	345	306	103	8.1	58.8	8.6	9.3	0.0	1.1	0.7	13.5	141	0.69	0.93	8.18
08JUL79	5	08JUL79	5	32.3	52.1	345	306	103	8.1	58.5	8.9	9.2	0.0	1.1	0.7	13.5	143	0.69	0.91	8.23
08JUL79	6	08JUL79	6	30.0	56.0	350	310	115												
08JUL79	7	08JUL79	7	30.0	56.7	350	310	115												
08JUL79	8	08JUL79	8	30.0	58.8	355	315	115												
08JUL79	9	08JUL79	9	30.0	108.1	355	315	115												
08JUL79	10	08JUL79	10	30.0	131.2	355	115	105												
08JUL79	11	08JUL79	11	30.0	68.6	355	115	190												
			10.00	**SYSTEM CHANGE - SWITCHED FLOW FROM PI-2 TO PI-3																
08JUL79	12	08JUL79	12	32.0	50.2	343	113	178	15.7	48.8	11.3	4.3	0.0	0.6	0.6	14.7	189	0.29	1.74	18.90
08JUL79	13	08JUL79	13	32.9	47.1	342	114	180	15.4	57.0	9.4	3.3	0.0	0.6	0.7	13.7	153	0.24	1.64	16.04
08JUL79	14	08JUL79	14	41.3	54.5	342	114	187	13.0	60.1	8.3	3.1	0.0	0.6	0.7	14.2	134	0.22	1.57	14.11
08JUL79	15	08JUL79	15	33.5	50.5	341	113	188	11.4	61.2	8.0	2.9	0.0	0.6	0.7	15.2	125	0.19	1.43	14.15
08JUL79	16	08JUL79	16	22.4	95.7	340	200	165	11.1	60.6	7.7	3.0	0.0	0.6	0.7	16.3	122	0.19	1.44	14.04
08JUL79	17	08JUL79	17	33.4	36.4	339	308	68	4.1	69.3	3.7	2.5	12.7	0.0	0.8	7.2	57.7	0.34	1.12	
			16:30	**SYSTEM CHANGE - SWITCHED FLOW FROM PI-3 TO PI-2 - DRAINED TAR KNOCKOUT POT-30 GALLON LIQUOR COLLECTED																
08JUL79	18	08JUL79	18	33.9	45.6	339	365	103	2.0	71.3	3.3	1.8	17.9	0.0	0.9	3.2	45.2	0.55	0.59	
						(C)	(I)	(P)												
08JUL79	19	08JUL79	19	33.7	52.5	338	336	103												
08JUL79	20	08JUL79	20	33.7	48.1	337	309	104												
08JUL79	21	08JUL79	21	33.4	46.5	337	295	104												
08JUL79	22	08JUL79	22	33.5	45.4	336	288	104												
08JUL79	23	08JUL79	23	33.8	43.0	335	283	104												
09JUL79	0	09JUL79	0	33.9	43.3	334	285	104												
09JUL79	1	09JUL79	1	33.0	44.9	334	286	105												
09JUL79	2	09JUL79	2	33.4	45.0	333	279	104												

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

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DATE	HOURL	DATE	HOURL	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2..CH4	CH4	H2S
09JUL79	5	09JUL79	5	33.4	42.8	331	261	104													
09JUL79	6	09JUL79	6	33.3	43.3	331	260	104													
09JUL79	7	09JUL79	7	33.8	42.6	331	263	104													
09JUL79	8	09JUL79	8	28.6	41.4	330	252	104													
			08:27	*DECREASE FLOW TO 15 SCFM																	
09JUL79	9	09JUL79	9	13.1	35.3	330	198	113													
			09:35	*CLOSE IN SYSTEM TO WORK ON SAMPLE TAP																	
09JUL79	10	09JUL79	10	14.7	37.0	330	162	120													
			10:14	*REESTABLISH FLOW																	
09JUL79	11	09JUL79	11	63.7	0.0	330	182	127													
			10:49	*RAISE BACK PRESSURE TO 150 PSIG																	
09JUL79	12	09JUL79	12	12.3	30.7	320	183	151													
			12:05	*DECREASE FLOW TO 10 SCFM																	
09JUL79	13	09JUL79	13	14.9	21.6	328	173	151													
09JUL79	14	09JUL79	14	19.3	46.1	348	118	151	2.4	73.1	1.8	2.6	16.5	0.0	0.9	3.2	33.6	0.79	1.36		
			14:10	**SYSTEM CHANGE - SWITCHED FLOW FROM PI-2 TO PI-1 QI=15-20 SCFM AT 850 PSIG, PRODUCTION OUT OF PI-2 AT 100 PSIG ¹																	
09JUL79	15	09JUL79	15	32.3	0.0	453	94	148	5.9	66.4	5.6	3.7	10.0	0.0	0.8	7.8	86.8	0.48	1.06		
						(I)	(P)	(C)													
09JUL79	16	09JUL79	16	32.5	3.0	587	113	151													
09JUL79	17	09JUL79	17	31.8	0.0	727	111	154													
09JUL79	18	09JUL79	18	21.1	0.0	838	109	164													
09JUL79	19	09JUL79	19	24.2	28.9	889	101	174													
09JUL79	20	09JUL79	20	21.5	13.1	872	105	182													
09JUL79	21	09JUL79	21	12.4	23.0	836	116	192													
09JUL79	22	09JUL79	22	7.0	19.5	852	116	194													
09JUL79	23	09JUL79	23	9.7	27.0	823	116	167	6.8	56.9	26.2	3.6	0.0	0.0	0.7	5.8	294	0.63	0.26		
10JUL79	0	10JUL79	0	7.2	4.4	832	113	168	7.0	59.4	28.3	3.0	0.0	0.0	0.7	1.6	313	1.85	0.25		
10JUL79	1	10JUL79	1	14.4	7.6	843	114	168	11.5	46.9	36.1	3.9	0.0	0.0	0.6	1.1	408	3.58	0.32		
10JUL79	2	10JUL79	2	9.7	0.0	850	113	168	12.5	42.3	39.1	4.5	0.0	0.0	0.5	1.1	443	4.24	0.32		
10JUL79	3	10JUL79	3	11.2	3.0	848	113	169	11.1	43.3	35.7	4.2	0.0	0.0	0.5	5.2	404	0.81	0.31		
10JUL79	4	10JUL79	4	15.7	2.9	857	113	169	9.9	48.1	30.2	3.5	0.0	0.0	0.6	7.8	343	0.46	0.33		

¹ SHUT-IN PI-3 AT 150 PSIG

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

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DATE	HOJR	DATE	HCUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
10JUL79	5	10JUL79	5	9.5	3.0	848	113	169	9.0	52.9	26.2	3.1	0.0	0.0	0.6	8.1	299	0.38	0.34	
10JUL79	6	10JUL79	6	14.1	1.7	847	113	170	8.4	56.1	23.6	2.7	0.0	0.0	0.7	8.4	271	0.32	0.36	16081
10JUL79	7	10JUL79	7	14.9	4.7	857	113	170	7.8	59.3	21.5	2.1	0.0	0.0	0.7	8.5	246	0.25	0.36	877.97
10JUL79	8	10JUL79	8	30.9	2.8	878	114	171	7.4	61.3	20.1	1.9	0.0	0.1	0.7	8.5	229	0.22	0.37	219.43
10JUL79	9	10JUL79	9	20.6	15.2	891	113	171	7.0	63.3	18.7	1.7	0.0	0.2	0.8	8.4	214	0.20	0.37	85.11
10JUL79	10	10JUL79	10	21.3	5.2	860	114	172	6.7	64.5	17.9	1.6	0.0	0.3	0.8	8.3	204	0.19	0.37	51.20
10JUL79	11	10JUL79	11	17.3	6.8	877	114	172	6.1	65.2	16.4	2.7	0.0	0.6	0.8	8.2	191	0.33	0.38	29.24
10JUL79	12	10JUL79	12	43.3	4.5	855	113	173	5.9	66.3	15.4	2.7	0.0	0.7	0.8	8.2	180	0.33	0.38	22.67
10JUL79	13	10JUL79	13	34.4	7.0	868	113	173	5.6	67.7	14.3	2.5	0.0	0.8	0.8	8.3	168	0.30	0.39	18.41
10JUL79	14	10JUL79	14	16.4	3.8	872	114	174	5.3	68.4	13.8	2.5	0.0	0.9	0.8	8.3	162	0.30	0.38	16.17
10JUL79	15	10JUL79	15	6.4	5.6	852	114	174	5.1	69.0	13.4	2.5	0.0	0.9	0.8	8.3	157	0.30	0.38	14.86
10JUL79	16	10JUL79	16	5.5	7.2	846	113	175	4.9	69.5	13.1	2.5	0.0	0.9	0.8	8.3	154	0.30	0.37	13.91
10JUL79	17	10JUL79	17	15.6	4.3	846	114	175	4.8	69.7	12.9	2.5	0.0	1.0	0.9	8.3	151	0.30	0.37	13.33
10JUL79	18	10JUL79	18	10.3	6.6	847	114	175	4.6	70.1	12.6	2.5	0.0	1.0	0.9	8.4	148	0.30	0.36	12.68
10JUL79	19	10JUL79	19	12.9	13.1	840	114	176	4.4	70.4	12.4	2.5	0.0	1.0	0.9	8.4	145	0.29	0.36	12.38
10JUL79	20	10JUL79	20	12.5	5.7	847	114	176	4.3	70.5	12.3	2.6	0.0	1.0	0.9	8.5	145	0.30	0.35	12.22
10JUL79	21	10JUL79	21	13.1	5.6	851	113	177	4.2	70.6	12.2	2.6	0.0	1.0	0.9	8.6	143	0.30	0.34	12.07
10JUL79	22	10JUL79	22	13.2	6.5	852	113	177	4.1	70.5	12.2	2.6	0.0	1.0	0.9	8.6	143	0.31	0.34	11.96
10JUL79	23	10JUL79	23	18.7	7.4	850	114	178	4.0	70.5	12.2	2.7	0.0	1.0	0.9	8.7	143	0.31	0.33	11.83
11JUL79	0	11JUL79	0	14.9	4.6	862	113	178	3.9	70.5	12.1	2.7	0.0	1.0	0.9	8.9	141	0.30	0.32	11.76
11JUL79	1	11JUL79	1	10.0	6.8	857	113	179	3.8	70.8	11.9	2.7	0.0	1.0	0.9	8.9	139	0.30	0.32	11.70
11JUL79	2	11JUL79	2	17.8	6.8	857	114	180	3.7	71.2	11.7	2.7	0.0	1.0	0.9	8.9	137	0.30	0.32	11.63
11JUL79	3	11JUL79	3	16.7	7.8	861	113	180	3.6	71.7	11.3	2.6	0.0	1.0	0.9	8.9	132	0.29	0.32	11.47
11JUL79	4	11JUL79	4	14.1	5.3	862	113	181	3.5	71.8	11.2	2.7	0.0	1.0	0.9	8.9	131	0.30	0.32	11.39

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

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DATE	HOURL	DATE	HCUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4	H2S
11JUL79	5	11JUL79	5	13.1	9.5	860	113	181	3.5	71.9	11.0	2.7	0.0	1.0	0.9	9.0	129	0.30	0.32	11.29	
11JUL79	6	11JUL79	6	14.2	9.9	859	114	182	3.4	72.0	10.9	2.6	0.0	1.0	0.9	9.2	127	0.29	0.31	11.11	
11JUL79	7	11JUL79	7	13.6	11.0	859	114	182	3.3	72.1	10.7	2.6	0.0	0.9	0.9	9.3	126	0.28	0.31	11.68	
11JUL79	8	11JUL79	8	14.0	16.8	857	113	182	3.6	70.3	11.5	3.1	0.0	1.0	0.9	9.7	136	0.32	0.31	12.08	
11JUL79	9	11JUL79	9	14.1	14.4	858	113	182	4.1	66.7	13.2	3.9	0.0	1.0	0.9	10.2	157	0.39	0.31	13.31	
11JUL79	10	11JUL79	10	13.5	18.5	859	105	180	5.0	63.3	14.6	4.9	0.0	0.9	0.9	10.5	177	0.46	0.34	15.78	
11JUL79	11	11JUL79	11	13.4	13.4	858	114	183	5.2	61.9	15.2	5.1	0.0	1.0	0.8	10.8	184	0.47	0.34	15.48	
11JUL79	12	11JUL79	12	12.3	13.3	860	113	183	5.7	59.9	15.6	5.5	0.0	1.1	0.8	11.4	191	0.48	0.36	14.72	
11JUL79	13	11JUL79	13	11.5	14.3	863	113	183	6.2	59.9	15.3	6.2	0.0	1.0	0.8	10.6	191	0.59	0.41	15.05	
11JUL79	14	11JUL79	14	9.4	13.1	860	113	184	6.7	59.7	14.8	5.9	0.0	1.0	0.8	11.2	187	0.53	0.45	14.10	
11JUL79	15	11JUL79	15	9.6	15.3	854	113	185	7.7	58.1	14.6	6.6	0.0	1.2	0.8	11.0	191	0.60	0.52	12.54	
11JUL79	16	11JUL79	16	10.1	14.7	852	113	185	8.0	57.8	14.9	6.5	0.0	1.2	0.8	10.9	194	0.59	0.54	12.15	
11JUL79	17	11JUL79	17	10.0	15.0	851	113	186	8.1	57.3	15.5	6.2	0.0	1.3	0.8	11.0	199	0.56	0.52	12.00	
11JUL79	18	11JUL79	18	9.5	14.2	851	113	187	8.0	56.6	16.3	6.0	0.0	1.4	0.7	10.9	207	0.55	0.49	12.08	
11JUL79	19	11JUL79	19	9.6	14.4	850	113	187	7.6	57.5	16.4	5.5	0.0	1.4	0.8	10.8	205	0.52	0.46	11.67	
11JUL79	20	11JUL79	20	10.6	14.6	850	113	188	7.6	57.7	16.1	5.7	0.0	1.5	0.8	10.7	202	0.54	0.47	10.92	
11JUL79	21	11JUL79	21	10.4	14.3	849	113	189	8.3	56.3	16.2	6.3	0.0	1.5	0.8	10.6	208	0.59	0.51	10.58	
11JUL79	22	11JUL79	22	9.6	14.0	847	113	189	8.6	55.7	16.6	6.4	0.0	1.6	0.7	10.4	213	0.62	0.52	10.62	
11JUL79	23	11JUL79	23	12.5	14.3	845	113	189	8.4	56.0	16.6	6.3	0.0	1.6	0.7	10.4	212	0.61	0.51	10.52	
12JUL79	0	12JUL79	0	13.3	13.6	854	113	190	8.3	56.6	16.2	6.2	0.0	1.6	0.8	10.3	207	0.60	0.51	10.06	
12JUL79	1	12JUL79	1	11.4	13.6	856	113	191	8.0	57.6	15.6	6.0	0.0	1.6	0.8	10.3	200	0.59	0.51	9.58	
12JUL79	2	12JUL79	2	9.8	15.7	857	113	191	7.8	58.1	15.2	6.0	0.0	1.7	0.8	10.4	195	0.58	0.51	9.10	
12JUL79	3	12JUL79	3	10.6	0.0				7.6	58.5	15.1	5.9	0.0	1.7	0.8	10.4	193	0.57	0.50	8.98	
12JUL79	4	12JUL79	4	10.1	14.9	858	113	192	7.4	59.3	15.0	5.5	0.0	1.7	0.8	10.4	190	0.53	0.49	8.93	

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
12JUL79	5	12JUL79	5	10.5	14.3	857	113	193	7.1	60.3	14.7	5.1	0.0	1.7	0.8	10.3	185	0.50	0.48	8.75
12JUL79	6	12JUL79	6	9.8	12.0	855	114	194	7.1	60.1	14.8	5.1	0.0	1.7	0.8	10.5	186	0.49	0.48	8.73
12JUL79	7	12JUL79	7	10.1	15.7	854	116	196	7.6	59.1	15.0	5.3	0.0	1.7	0.8	10.5	190	0.51	0.51	8.87
12JUL79	8	12JUL79	8	11.1	36.2	855	114	194	7.7	58.3	15.4	5.5	0.0	1.7	0.8	10.6	195	0.52	0.50	9.11
12JUL79	9	12JUL79	9	10.7	14.7	855	113	194												
12JUL79	10	12JUL79	10	12.7	14.5	859	113	194	7.0	60.0	14.9	5.3	0.0	1.2	0.8	10.8	187	0.50	0.47	12.28
12JUL79	11	12JUL79	11	11.7	14.2	861	113	195	6.8	60.6	14.5	5.1	0.0	1.6	0.8	10.7	182	0.48	0.47	9.18
12JUL79	12	12JUL79	12	13.1	15.1	863	113	195	6.6	61.6	13.7	4.9	0.0	1.7	0.8	10.7	173	0.46	0.48	8.27
12JUL79	13	12JUL79	13	14.4	15.6	702	113	195	6.4	62.8	12.8	4.9	0.0	1.7	0.8	10.6	163	0.46	0.50	7.71
12JUL79	14	12JUL79	14	14.6	15.3	871	113	195	7.0	62.2	12.4	5.3	0.0	1.7	0.8	10.6	163	0.50	0.57	7.41
12JUL79	15	12JUL79	15	7.5	14.9	857	113	196	7.4	61.8	12.5	5.3	0.0	1.7	0.8	10.6	165	0.50	0.59	7.48
12JUL79	16	12JUL79	16	7.3	15.4	844	113	197	7.4	61.6	12.8	5.1	0.0	1.7	0.8	10.6	167	0.48	0.58	7.64
12JUL79	17	12JUL79	17	15.8	16.2	842	113	197	7.6	60.9	13.1	5.3	0.0	1.7	0.8	10.7	171	0.50	0.58	7.86
12JUL79	18	12JUL79	18	14.4	15.8	853	113	198	7.7	60.7	13.1	5.4	0.0	1.7	0.8	10.7	172	0.50	0.59	7.94
12JUL79	19	12JUL79	19	11.8	15.7	859	113	199	8.0	60.2	13.4	5.4	0.0	1.6	0.8	10.6	176	0.51	0.60	8.20
12JUL79	20	12JUL79	20	10.6	15.9	857	113	200	8.0	60.1	13.4	5.4	0.0	1.6	0.8	10.6	176	0.51	0.59	8.31
12JUL79	21	12JUL79	21	11.6	16.6	855	113	200	7.8	60.0	13.8	5.3	0.0	1.6	0.8	10.7	179	0.49	0.57	8.55
12JUL79	22	12JUL79	22	13.6	19.1	852	113	200	8.0	59.6	13.8	5.4	0.0	1.6	0.8	10.8	180	0.50	0.58	8.55
12JUL79	23	12JUL79	23	15.9	18.1	852	113	200	8.4	59.3	13.4	5.7	0.0	1.6	0.8	10.8	178	0.53	0.63	8.30
13JUL79	0	13JUL79	0	15.4	18.2	864	113	202	8.8	58.6	13.6	5.9	0.0	1.6	0.8	10.9	182	0.54	0.64	8.45
13JUL79	1	13JUL79	1	14.4	18.1	866	113	202	8.6	58.6	14.0	5.6	0.0	1.6	0.8	10.9	184	0.51	0.61	8.62
13JUL79	2	13JUL79	2	13.5	18.1	867	113	203	8.9	57.7	14.4	5.7	0.0	1.6	0.8	10.9	190	0.52	0.62	8.78
13JUL79	3	13JUL79	3	12.7	18.1	865	113	204	8.9	57.5	14.5	5.9	0.0	1.6	0.8	10.8	192	0.55	0.61	8.94
13JUL79	4	13JUL79	4	13.2	18.4	864	113	205	8.5	58.7	14.2	5.5	0.0	1.6	0.8	10.8	186	0.51	0.60	8.75

15:45 DRAINED TAR KNOCKOUT POT-11 GALLON LIQUOR COLLECTED

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

13

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4	H2S
13JUL79	5	13JUL79	5	13.6	18.2	863	113	207	8.4	59.0	13.9	5.4	0.0	1.7	0.8	10.8	183	0.50	0.60		8.44	
13JUL79	6	13JUL79	6	13.3	18.2	861	113	209	8.8	57.6	14.8	5.7	0.0	1.7	0.7	10.7	193	0.53	0.60		8.84	
13JUL79	7	13JUL79	7	15.0	18.5	862	113	210	8.7	57.9	14.6	5.6	0.0	1.7	0.8	10.8	191	0.52	0.60		8.75	
13JUL79	8	13JUL79	8	13.8	19.2	862	113	211	8.6	57.7	14.6	5.8	0.0	1.7	0.7	11.0	191	0.53	0.59		8.63	
13JUL79	9	13JUL79	9	15.5	19.2	864	113	216	9.0	56.4	14.8	6.2	0.0	1.7	0.7	11.1	196	0.56	0.61		8.72	
13JUL79	10	13JUL79	10	13.6	17.5	868	113	216	9.4	54.9	15.9	6.5	0.0	1.7	0.7	10.9	209	0.60	0.60		9.36	
13JUL79	11	13JUL79	11	13.9	14.5	870	113	223	9.6	54.0	16.9	6.3	0.0	1.7	0.7	10.8	219	0.58	0.57		10.05	
13JUL79	12	13JUL79	12	13.2	17.2	863	113	231	9.9	53.1	17.8	6.3	0.0	1.7	0.7	10.6	228	0.59	0.56		10.64	
13JUL79	13	13JUL79	13	16.0	28.6	860	113	233	9.9	53.6	18.1	6.1	0.0	1.6	0.7	10.1	231	0.60	0.54		11.27	
13JUL79	14	13JUL79	14	16.4	18.0	858	113	235	9.1	55.1	17.8	5.5	0.0	1.6	0.7	10.2	224	0.54	0.51		11.03	
13JUL79	15	13JUL79	15	15.0	18.0	875	115	235	8.8	55.1	17.8	5.2	0.0	1.7	0.7	10.7	222	0.49	0.49		10.53	
13JUL79	16	13JUL79	16	15.0	18.0	870	115	245														
13JUL79	17	13JUL79	17	15.0	18.0	870	115	245														
13JUL79	18	13JUL79	18	15.0	18.0	870	115	245	8.5	56.0	17.5	5.3	0.0	1.7	0.7	10.3	218	0.51	0.48		10.44	
13JUL79	19	13JUL79	19	15.0	19.0	845	115	255	8.5	56.1	17.4	5.3	0.0	1.7	0.7	10.2	218	0.53	0.49		10.39	
13JUL79	20	13JUL79	20	15.0	18.0	865	115	255														
13JUL79	21	13JUL79	21	16.0	18.8	845	115	260	7.9	56.7	17.7	4.8	0.0	1.7	0.7	10.5	217	0.46	0.44		10.65	
13JUL79	22	13JUL79	22	15.7	19.6	845	115	264	7.8	56.8	17.5	4.8	0.0	1.7	0.7	10.6	214	0.45	0.45		10.23	
13JUL79	23	13JUL79	23	15.0	20.4	845	115	263	7.8	56.9	17.2	4.8	0.0	1.7	0.7	10.8	211	0.45	0.46		9.97	
14JUL79	0	14JUL79	0	14.6	19.3	841	115	264	7.5	57.7	16.8	4.5	0.0	1.7	0.7	10.9	206	0.41	0.45		9.67	
14JUL79	1	14JUL79	1	17.1	18.4	841	115	265	7.1	58.5	16.5	4.3	0.0	1.8	0.7	11.1	201	0.39	0.43		9.38	
14JUL79	2	14JUL79	2	17.5	17.8	848	115	268	6.9	59.0	16.4	4.2	0.0	1.8	0.7	11.0	198	0.39	0.42		9.23	
14JUL79	3	14JUL79	3	17.3	18.5	849	114	271	6.9	58.9	16.3	4.4	0.0	1.8	0.7	10.9	198	0.40	0.42		8.99	
14JUL79	4	14JUL79	4	17.2	17.9	850	114	275	7.5	58.1	16.4	4.7	0.0	1.8	0.7	10.7	202	0.44	0.46		8.95	

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR JULY

15

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4_H2S
15JUL79	5	15JUL79	5	17.2	26.7	848	115	345	10.2	50.6	19.4	5.5	0.0	2.0	0.6	11.6	243	0.48	0.53	9.53	
15JUL79	6	15JUL79	6	18.1	27.1	849	90	348	10.3	50.5	19.6	5.4	0.0	2.0	0.6	11.5	245	0.47	0.53	9.61	
15JUL79	7	15JUL79	7	17.7	21.6	851	115	350	10.5	49.7	20.1	5.5	0.0	2.1	0.6	11.6	251	0.48	0.52	9.69	
15JUL79	8	15JUL79	8	17.1	27.3	848	115	351	10.3	50.0	20.0	5.4	0.0	2.1	0.6	11.5	250	0.47	0.51	9.50	
15JUL79	9	15JUL79	9	17.1	27.5	850	114	353	9.9	50.5	19.7	5.5	0.0	2.2	0.6	11.6	245	0.48	0.50	9.10	
15JUL79	10	15JUL79	10	17.5	27.4	855	114	352	10.3	49.7	20.2	5.4	0.0	2.2	0.6	11.5	251	0.47	0.51	9.25	
15JUL79	11	15JUL79	11	18.1	30.1	859	114	351	10.0	50.3	20.5	4.9	0.0	2.2	0.6	11.5	251	0.42	0.49	9.42	
15JUL79	12	15JUL79	12	18.5	29.0	860	113	350	9.8	50.0	20.7	5.0	0.0	2.2	0.6	11.8	253	0.42	0.47	9.49	
15JUL79	13	15JUL79	13	18.3	29.9	860	113	347	9.6	50.6	20.2	4.8	0.0	2.2	0.6	11.9	247	0.40	0.48	9.34	
15JUL79	14	15JUL79	14	18.4	31.3	855	115	345	9.5	50.6	19.7	5.2	0.0	2.2	0.6	12.2	243	0.43	0.48	9.07	
15JUL79	15	15JUL79	15	20.4	33.3	862	115	343	10.0	49.6	20.0	5.6	0.0	2.2	0.6	12.0	249	0.47	0.50	9.26	
15JUL79	16	15JUL79	16	19.1	33.6	863	115	340	10.4	48.7	20.8	5.5	0.0	2.1	0.6	11.8	258	0.47	0.50	9.78	
15JUL79	17	15JUL79	17	19.6	31.0	868	115	340	10.4	48.6	21.1	5.4	0.0	2.1	0.6	11.8	261	0.45	0.49	10.00	
15JUL79	18	15JUL79	18	15.3	30.0	863	115	341	10.0	49.4	21.1	4.9	0.0	2.1	0.6	11.8	258	0.42	0.47	9.96	
15JUL79	19	15JUL79	19	14.3	29.4	851	115	340	9.7	50.2	21.1	4.5	0.0	2.1	0.6	11.7	255	0.39	0.46	9.93	
15JUL79	20	15JUL79	20	94.3	31.7	838	115	379													
15JUL79	21	15JUL79	21	17.7	27.7	840	115	328	8.3	54.4	19.5	3.5	0.0	1.4	0.7	12.1	232	0.29	0.42	13.72	
15JUL79	22	15JUL79	22	18.2	26.7	841	115	329	7.6	55.6	18.4	3.4	0.0	2.1	0.7	12.1	218	0.28	0.42	8.59	
15JUL79	23	15JUL79	23	17.1	26.3	840	115	333	8.1	53.9	18.9	4.2	0.0	2.2	0.7	12.0	227	0.35	0.43	8.68	
16JUL79	0	16JUL79	0	16.9	26.6	835	115	337	9.2	51.5	20.2	4.7	0.0	2.1	0.7	11.6	245	0.40	0.46	9.63	
16JUL79	1	16JUL79	1	18.6	26.6	845	115	340	9.6	50.4	21.1	4.9	0.0	2.0	0.6	11.5	256	0.42	0.45	10.62	
16JUL79	2	16JUL79	2	18.7	26.9	847	115	342	9.6	50.0	21.4	4.9	0.0	1.9	0.6	11.6	259	0.42	0.45	11.14	
16JUL79	3	16JUL79	3	17.7	26.9	847	115	345	9.1	51.3	20.7	4.5	0.0	1.9	0.6	11.8	250	0.38	0.44	10.94	
16JUL79	4	16JUL79	4	18.0	27.0	846	115	346	9.0	51.6	20.6	4.4	0.0	1.9	0.6	11.9	248	0.37	0.43	10.73	

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

16

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
16JUL79	5	16JUL79	5	18.9	26.5	855	115	349	8.8	51.9	20.3	4.4	0.0	2.0	0.7	11.9	245	0.37	0.43	10.42
16JUL79	6	16JUL79	6	16.4	26.6	848	115	351	8.7	52.2	20.1	4.4	0.0	2.0	0.7	12.0	242	0.37	0.43	10.15
16JUL79	7	16JUL79	7	20.2	26.4	852	95	354	8.6	52.2	20.3	4.3	0.0	2.0	0.7	12.0	243	0.36	0.42	10.13
16JUL79	8	16JUL79	8	19.5	26.2	857	115	356	8.6	51.7	20.9	4.1	0.0	2.0	0.6	12.1	248	0.34	0.41	10.47
16JUL79	9	16JUL79	9	18.7	26.0	861	114	357	8.1	51.2	22.5	3.8	0.0	1.9	0.7	11.9	261	0.32	0.36	11.69
16JUL79	10	16JUL79	10	17.3	27.1	855	115	358	7.1	48.2	27.4	3.2	0.0	1.7	1.3	11.0	306	0.29	0.26	15.80
16JUL79	11	16JUL79	11	21.2	28.7	868	115	361	7.0	48.1	27.1	3.2	0.0	1.7	1.9	11.0	302	0.29	0.26	15.79
16JUL79	12	16JUL79	12	11.7	28.6	857	115	363	7.0	48.5	27.2	3.2	0.0	1.7	1.4	11.0	304	0.29	0.26	16.21
16JUL79	13	16JUL79	13	21.2	28.3	854	115	363	7.0	49.4	26.8	3.1	0.0	1.7	1.0	11.1	298	0.28	0.26	15.78
16JUL79	14	16JUL79	14	16.8	27.4	866	115	365	7.0	49.2	27.1	3.0	0.0	1.7	0.8	11.2	301	0.27	0.26	16.01
16JUL79	15	16JUL79	15	16.5	26.4	857	115	370	7.0	48.9	27.3	3.2	0.0	1.7	0.8	11.2	304	0.28	0.26	16.08
16JUL79	16	16JUL79	16	17.1	27.9	849	115	373	7.1	49.1	27.1	3.2	0.0	1.7	0.7	11.1	303	0.29	0.26	16.12
16JUL79	17	16JUL79	17	18.9	28.8	845	114	374	7.1	49.0	27.3	3.1	0.0	1.7	0.7	11.2	304	0.27	0.26	16.32
16JUL79	18	16JUL79	18	18.9	28.0	850	115	375	7.0	48.8	27.7	3.0	0.0	1.7	0.7	11.2	307	0.27	0.25	16.57
16JUL79	19	16JUL79	19	19.0	28.4	852	114	376	6.8	49.0	27.7	3.0	0.0	1.7	0.7	11.2	307	0.27	0.25	16.56
16JUL79	20	16JUL79	20	18.9	29.5	852	115	377	6.8	48.9	27.9	3.0	0.0	1.7	0.7	11.1	309	0.27	0.24	16.70
16JUL79	21	16JUL79	21	16.5	24.6	731	124	376	6.6	49.5	27.6	2.8	0.0	1.7	0.7	11.1	305	0.26	0.24	16.59
16JUL79	22	16JUL79	22	14.3	27.9	832	167	380	6.6	50.6	27.1	2.8	0.0	1.6	0.7	10.8	299	0.26	0.24	17.32
16JUL79	23	16JUL79	23	11.6	23.4	813	165	382	6.6	52.0	26.8	2.8	0.0	1.3	0.7	9.8	297	0.29	0.25	20.43
17JUL79	0	17JUL79	0	13.2	27.3	797	171	347	6.3	51.4	26.5	2.7	0.0	1.4	0.7	10.9	293	0.25	0.24	18.58
17JUL79	1	17JUL79	1	13.2	30.7	790	164	314	6.6	47.9	27.3	2.6	0.0	1.7	0.7	13.2	301	0.20	0.24	15.82
17JUL79	2	17JUL79	2	13.9	25.2	785	165	316	6.5	48.2	27.6	2.7	0.0	1.9	0.7	12.4	304	0.21	0.24	14.60
17JUL79	3	17JUL79	3	13.6	24.0	783	165	318	6.5	48.5	28.3	2.9	0.0	1.8	0.7	11.3	311	0.26	0.23	15.42
17JUL79	4	17JUL79	4	12.8	22.4	782	165	320												

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

18

DATE	MOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4_H2S
18JUL79	5	18JUL79	5	12.0	23.8	718	164	237	7.3	46.9	28.6	3.3	0.0	1.8	0.6	11.5	318	0.29	0.26	15.72	
18JUL79	6	18JUL79	6	12.2	22.5	714	164	238	7.3	46.9	28.6	3.3	0.0	1.8	0.6	11.5	319	0.29	0.25	15.72	
18JUL79	7	18JUL79	7	12.1	22.3	712	164	239	7.3	47.0	28.5	3.3	0.0	1.8	0.6	11.5	317	0.29	0.26	15.62	
18JUL79	8	18JUL79	8	10.9	20.8	712	164	240													
18JUL79	9	18JUL79	9	11.4	20.8	714	163	240													
18JUL79	10	18JUL79	10	12.1	13.7	714	163	241													
18JUL79	11	18JUL79	11	10.8	20.3	714	162	241													
18JUL79	12	18JUL79	12	10.3	19.4	715	162	242													
18JUL79	13	18JUL79	13	11.3	19.2	715	162	243													
18JUL79	14	18JUL79	14	11.7	21.3	719	162	243	6.8	48.6	27.0	3.5	0.0	1.9	0.6	11.5	302	0.31	0.25	14.00	
18JUL79	15	18JUL79	15	12.6	22.2	725	162	244	7.3	48.7	27.7	2.9	0.0	1.2	0.6	11.6	308	0.25	0.26	22.37	
18JUL79	16	18JUL79	16	11.0	21.0	724	162	245	6.6	49.0	26.8	3.3	0.0	2.0	0.6	11.7	299	0.29	0.25	13.75	
18JUL79	17	18JUL79	17	10.4	21.5	720	162	246	6.6	49.8	26.5	3.3	0.0	1.6	0.6	11.6	295	0.28	0.25	17.05	
18JUL79	18	18JUL79	18	10.4	22.9	713	162	248	6.4	49.5	26.5	3.4	0.0	2.0	0.6	11.6	294	0.29	0.24	13.09	
18JUL79	19	18JUL79	19	14.3	22.3	711	162	249	6.4	49.3	26.5	3.5	0.0	2.1	0.6	11.5	296	0.30	0.24	12.91	
18JUL79	20	18JUL79	20	12.0	19.3	712	162	250	6.7	48.7	26.7	3.9	0.0	2.0	0.6	11.5	299	0.33	0.25	13.04	
18JUL79	21	18JUL79	21	11.7	22.4	713	162	251	7.0	48.0	27.0	3.8	0.0	2.0	0.6	11.6	303	0.33	0.26	13.32	
19JUL79	22	18JUL79	22	10.7	22.7	712	162	252	6.9	48.8	26.9	3.5	0.0	1.7	0.6	11.5	301	0.31	0.26	15.65	
18JUL79	23	18JUL79	23	11.2	20.4	711	162	253	7.0	48.2	26.9	3.7	0.0	2.0	0.6	11.6	302	0.32	0.26	13.54	
19JUL79	0	19JUL79	0	11.9	21.2	712	161	253	7.1	48.0	26.9	3.6	0.0	2.0	0.6	11.6	302	0.31	0.26	13.45	
19JUL79	1	19JUL79	1	10.7	20.4	712	162	255	7.2	47.8	27.1	3.6	0.0	2.0	0.6	11.7	304	0.30	0.26	13.46	
19JUL79	2	19JUL79	2	11.2	20.1	707	162	255	7.2	47.9	27.0	3.5	0.0	2.0	0.6	11.8	302	0.29	0.27	13.31	
19JUL79	3	19JUL79	3	11.7	24.1	704	162	256	7.1	48.4	26.7	3.4	0.0	2.0	0.6	11.7	299	0.29	0.26	13.06	
19JUL79	4	19JUL79	4	10.7	19.1	702	162	257	7.1	48.1	26.9	3.4	0.0	2.0	0.6	11.8	301	0.29	0.27	13.20	

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

19

DATE	HOJR	DATE	HOUP	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
19JUL79	5	19JUL79	5	11.3	21.5	701	162	258	7.3	47.4	27.3	3.5	0.0	2.0	0.6	11.9	306	0.29	0.27	13.45
19JUL79	6	19JUL79	6	11.6	21.3	701	162	258	7.3	47.4	27.5	3.4	0.0	2.0	0.6	11.7	308	0.29	0.27	13.47
19JUL79	7	19JUL79	7	10.3	19.1	698	162	259	7.2	47.2	27.7	3.5	0.0	2.0	0.6	11.8	310	0.29	0.26	13.64
19JUL79	8	19JUL79	8	12.0	19.9	698	162	259	7.3	46.9	28.0	3.5	0.0	1.9	0.6	11.8	313	0.30	0.26	14.74
19JUL79	9	19JUL79	9		19.2	701			4.2	62.0	18.2	3.0	0.0	0.9	0.7	10.9	204	0.28	0.23	19.29
19JUL79	10	19JUL79	10	11.3	19.7	708	162	259	6.1	53.0	23.8	3.3	0.0	1.7	0.7	11.6	266	0.28	0.26	14.19
19JUL79	11	19JUL79	11	10.6	19.0	708	162	260	5.3	56.7	21.5	3.1	0.0	1.3	0.7	11.3	241	0.27	0.25	16.54
19JUL79	12	19JUL79	12	11.7	19.8	710	162	261	7.1	48.1	26.8	3.4	0.0	2.0	0.6	11.9	300	0.29	0.27	13.27
19JUL79	13	19JUL79	13	10.1	22.4	714	162	261	7.3	47.5	26.9	3.5	0.0	2.1	0.6	12.1	303	0.29	0.27	13.02
19JUL79	14	19JUL79	14	9.1	20.7	715	162	262	7.5	47.4	27.0	3.5	0.0	2.1	0.6	12.0	303	0.29	0.28	12.79
19JUL79	15	19JUL79	15	11.1	22.5	716	162	263	7.6	47.5	26.6	3.5	0.0	2.1	0.6	12.0	300	0.29	0.29	12.55
19JUL79	16	19JUL79	16	13.5	22.0	720	162	264	7.8	47.6	26.4	3.4	0.0	2.1	0.6	12.0	298	0.29	0.30	12.53
19JUL79	17	19JUL79	17	14.5	22.3	724	162	264	7.9	47.7	26.4	3.3	0.0	2.1	0.6	12.1	298	0.27	0.30	12.52
19JUL79	18	19JUL79	18	10.4	25.3	725	162	266	7.7	48.4	26.1	3.2	0.0	2.1	0.6	11.9	294	0.27	0.29	12.31
19JUL79	19	19JUL79	19	12.1	24.4	719	162	268	7.8	48.2	25.8	3.6	0.0	2.1	0.6	11.9	293	0.30	0.30	12.37
19JUL79	20	19JUL79	20	12.3	23.7	715	162	269	8.7	46.5	25.9	4.3	0.0	2.1	0.7	11.9	299	0.36	0.33	12.51
19JUL79	21	19JUL79	21	13.0	24.7	711	162	270	9.4	43.7	27.0	4.4	0.0	2.1	1.6	11.9	313	0.37	0.35	13.16
19JUL79	22	19JUL79	22	11.4	23.5	710	162	270	5.3	43.2	27.6	4.1	0.0	2.1	2.0	11.7	317	0.35	0.34	13.11
19JUL79	23	19JUL79	23	10.0	22.8	705	162	271	5.1	43.6	28.0	3.9	0.0	2.0	1.9	11.6	320	0.34	0.32	13.66
20JUL79	0	20JUL79	0	11.0	22.7	699	162	271	8.8	44.1	28.3	3.7	0.0	2.0	1.4	11.7	322	0.32	0.31	13.84
20JUL79	1	20JUL79	1	8.8	23.4	693	162	272	8.5	45.0	28.1	3.6	0.0	2.1	1.0	11.7	318	0.30	0.30	13.50
20JUL79	2	20JUL79	2		0.0	684			8.4	45.5	27.7	3.6	0.0	2.1	0.9	11.7	315	0.31	0.30	13.10
20JUL79	3	20JUL79	3	10.9	21.4	677	162	273	8.6	45.3	27.6	3.8	0.0	2.1	0.8	11.7	314	0.32	0.31	12.88
20JUL79	4	20JUL79	4	15.0	21.8	683	162	274	8.8	45.2	27.5	3.8	0.0	2.2	0.7	11.8	314	0.32	0.32	12.69

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

20

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
20JUL79	5	20JUL79	5	14.0	22.5	688	162	275	8.9	44.9	27.9	3.7	0.0	2.2	0.7	11.8	317	0.31	0.32	12.79
20JUL79	6	20JUL79	6	16.7	23.5	703	162	275	8.8	44.6	28.2	3.6	0.0	2.2	0.7	11.8	320	0.31	0.31	12.85
20JUL79	7	20JUL79	7	12.3	24.9	715	162	276	8.8	44.5	28.3	3.7	0.0	2.2	0.6	11.9	322	0.31	0.31	12.96
20JUL79	8	20JUL79	8	10.9	25.3	708	162	276	8.9	44.3	28.4	3.7	0.0	2.2	0.6	11.9	323	0.31	0.31	12.94
20JUL79	9	20JUL79	9	10.5	25.0	704			9.1	44.5	28.0	3.8	0.0	2.2	0.6	11.9	319	0.32	0.33	12.80
20JUL79	10	20JUL79	10	12.4	25.2	703	162	277	9.4	43.8	28.4	3.9	0.0	2.2	0.6	11.8	324	0.33	0.33	13.06
20JUL79	11	20JUL79	11	13.3	25.3	707	162	278	9.6	43.3	28.8	3.9	0.0	2.1	0.6	11.7	329	0.33	0.33	13.43
20JUL79	12	20JUL79	12	13.0	23.3	710	163	278												
20JUL79	13	20JUL79	13	12.9	24.4	712	162	279												
20JUL79	14	20JUL79	14	14.8	23.7															
20JUL79	15	20JUL79	15	14.0	24.4	715	163	281												
20JUL79	16	20JUL79	16	13.2	25.8	717	162	282												
20JUL79	17	20JUL79	17	12.7	25.9	717	162	282												
20JUL79	18	20JUL79	18	13.3	26.1	714	162	283												
20JUL79	19	20JUL79	19	12.1	25.3	709	162	284												
20JUL79	20	20JUL79	20	11.1	26.5	703	162	285	9.5	42.5	30.1	4.1	0.0	1.6	0.6	11.6	343	0.36	0.32	19.12
20JUL79	21	20JUL79	21	13.0	26.2	697	162	286	9.4	42.5	29.9	4.2	0.0	1.9	0.6	11.5	341	0.36	0.32	15.59
20JUL79	22	20JUL79	22	12.2	25.8	693	162	287	9.4	42.6	29.8	4.2	0.0	2.0	0.6	11.5	340	0.37	0.31	15.22
20JUL79	23	20JUL79	23	11.6	26.3	688	162	287	9.4	42.5	29.8	4.4	0.0	2.0	0.6	11.4	340	0.38	0.31	15.26
21JUL79	0	21JUL79	0	11.0	25.1	684	162	289	9.4	42.3	29.9	4.5	0.0	2.0	0.6	11.4	342	0.39	0.32	15.04
21JUL79	1	21JUL79	1	8.8	25.1	678	162	289	9.5	41.8	30.3	4.5	0.0	2.0	0.5	11.4	346	0.39	0.31	15.31
21JUL79	2	21JUL79	2	9.1	24.8	675	162	289	9.6	41.3	30.9	4.4	0.0	2.0	0.5	11.3	352	0.38	0.31	15.67
21JUL79	3	21JUL79	3	11.1	23.8	673	162	291	9.5	41.4	31.1	4.2	0.0	2.0	0.5	11.3	353	0.37	0.31	15.82
21JUL79	4	21JUL79	4	10.1	23.2	671	162	291	9.3	41.5	31.3	4.1	0.0	2.0	0.5	11.3	354	0.36	0.30	15.95

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

21

DATE	MOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
21JUL79	5	21JUL79	5	11.4	19.6	668	162	291	9.2	41.7	31.2	4.1	0.0	2.0	0.6	11.4	353	0.36	0.29	15.99
21JUL79	6	21JUL79	6	11.4	25.1	668	162	292	9.0	42.4	30.8	4.0	0.0	2.0	0.6	11.3	348	0.35	0.29	15.71
21JUL79	7	21JUL79	7	11.8	23.0	669	162	292	8.8	43.2	30.2	4.0	0.0	2.0	0.6	11.3	341	0.35	0.29	15.36
21JUL79	8	21JUL79	8	13.1	23.1	676	162	292	8.7	43.0	30.2	4.1	0.0	2.0	0.6	11.5	341	0.35	0.29	15.42
21JUL79	9	21JUL79	9	11.3	22.7	679	162	292	8.8	42.6	30.4	4.1	0.0	2.0	0.6	11.6	344	0.35	0.29	15.50
21JUL79	10	21JUL79	10	13.1	23.1	681	162	293	8.8	42.6	30.4	4.0	0.0	2.0	0.6	11.6	344	0.35	0.29	15.30
21JUL79	11	21JUL79	11	11.5	22.2	684	162	293	8.7	43.2	30.1	3.9	0.0	2.0	0.6	11.6	340	0.34	0.29	15.10
21JUL79	12	21JUL79	12	13.5	22.4	686	162	294	8.5	44.0	29.4	3.8	0.0	2.0	0.6	11.7	332	0.33	0.29	14.72
21JUL79	13	21JUL79	13	9.9	22.4	687	162	295	8.3	44.9	28.8	3.8	0.0	2.0	0.5	11.7	325	0.32	0.29	14.61
21JUL79	14	21JUL79	14	11.6	17.5	684	161	296	8.1	45.9	28.1	3.6	0.0	2.0	0.6	11.7	316	0.31	0.29	14.22
21JUL79	15	21JUL79	15	13.6	22.3	684	162	296	7.9	47.0	27.3	3.5	0.0	2.0	0.6	11.8	308	0.30	0.29	13.94
21JUL79	17	21JUL79	17	12.7	23.2	683	162	298	7.5	47.7	27.0	3.3	0.0	1.9	0.6	11.9	304	0.28	0.28	13.89
21JUL79	18	21JUL79	18	12.1	21.0	681	162	299	7.4	48.1	26.9	3.2	0.0	1.9	0.6	11.8	302	0.28	0.28	13.83
21JUL79	19	21JUL79	19	10.0	22.6	677	162	300	7.2	48.8	26.5	3.2	0.0	1.9	0.6	11.7	297	0.27	0.27	13.68
21JUL79	20	21JUL79	20		0.0				7.0	49.2	26.3	3.2	0.0	1.9	0.6	11.8	294	0.27	0.27	13.73
21JUL79	21	21JUL79	21	11.1	21.3	667	162	301	6.9	49.2	26.3	3.2	0.0	1.9	0.6	11.8	294	0.27	0.26	14.01
21JUL79	22	21JUL79	22	9.7	21.6	664	162	302	6.9	48.7	26.7	3.3	0.0	1.9	0.6	11.9	298	0.28	0.26	14.41
21JUL79	23	21JUL79	23	13.1	21.8	664	162	303	6.9	48.4	26.9	3.4	0.0	1.8	0.6	11.9	301	0.28	0.26	14.71
22JUL79	0	22JUL79	0	10.5	23.0	662	162	304	7.0	48.0	27.1	3.5	0.0	1.8	0.6	11.9	303	0.29	0.26	14.90
22JUL79	1	22JUL79	1	11.7	24.3	660	162	304	7.2	47.7	26.9	3.8	0.0	1.8	0.6	12.0	303	0.32	0.27	14.92
22JUL79	2	22JUL79	2	12.8	24.7	657	162	305	7.6	47.0	26.9	4.0	0.0	1.8	0.6	12.1	305	0.33	0.28	15.10
22JUL79	3	22JUL79	3	11.6	24.1	654	162	306	7.9	45.7	27.6	4.2	0.0	1.8	0.6	12.2	314	0.35	0.29	15.64
22JUL79	4	22JUL79	4	11.0	24.6	651	162	306	8.3	44.4	28.5	4.3	0.0	1.8	0.6	12.1	324	0.35	0.29	16.10
22JUL79	5	22JUL79	5	12.4	23.4	649	162	306	8.5	44.3	28.4	4.4	0.0	1.8	0.6	11.9	324	0.37	0.30	15.93

14:55 DRAINED TAR KNOCKOUT POT-2.5 GALLON LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

22

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
22JUL79	6	22JUL79	6	12.1	24.1	646	162	307	8.8	43.7	28.7	4.5	0.0	1.8	0.6	11.9	328	0.38	0.31	16.09
22JUL79	7	22JUL79	7	11.2	23.4	643	162	307	8.9	43.5	29.2	4.2	0.0	1.8	0.6	11.8	332	0.36	0.31	16.48
22JUL79	8	22JUL79	8	12.2	24.2	643	162	307	9.0	44.1	29.3	4.1	0.0	1.4	0.5	11.6	333	0.36	0.31	20.90
22JUL79	9	22JUL79	9	12.5	24.3	648	162	308	9.0	43.9	29.0	4.2	0.0	1.7	0.6	11.6	331	0.36	0.31	16.75
22JUL79	10	22JUL79	10	11.7	24.7	648	162	308	9.1	43.5	29.3	4.2	0.0	1.8	0.6	11.6	334	0.36	0.31	16.55
22JUL79	11	22JUL79	11	11.3	21.3	646	162	308	9.1	43.4	29.4	4.1	0.0	1.8	0.6	11.5	335	0.36	0.31	16.49
22JUL79	12	22JUL79	12	10.7	20.8	645	162	309	9.3	42.7	30.3	3.9	0.0	1.8	0.6	11.5	343	0.33	0.31	16.82
22JUL79	13	22JUL79	13	11.4	21.2	647	162	309	9.2	42.7	30.8	3.5	0.0	1.8	0.6	11.4	347	0.31	0.30	16.91
22JUL79	14	22JUL79	14	11.6	19.8	643	162	309	9.0	43.3	30.7	3.4	0.0	1.8	0.6	11.2	345	0.30	0.29	16.63
22JUL79	15	22JUL79	15	13.0	20.3	655	162	310	8.8	44.4	30.1	3.2	0.0	1.9	0.6	11.2	337	0.28	0.29	16.24
22JUL79	16	22JUL79	16	11.9	20.6	659	162	310	8.4	45.7	29.1	3.1	0.0	1.8	0.6	11.3	326	0.27	0.29	15.83
22JUL79	17	22JUL79	17	11.8	22.7	657	162	311	8.1	46.8	28.4	3.0	0.0	1.8	0.6	11.3	318	0.26	0.28	15.50
22JUL79	18	22JUL79	18	13.7	22.0	654	162	313	7.7	48.0	27.5	3.0	0.0	1.8	0.6	11.4	308	0.26	0.28	14.90
22JUL79	19	22JUL79	19	12.1	25.0	650	162	314	7.5	48.4	26.9	3.2	0.0	1.9	0.6	11.5	302	0.28	0.28	14.52
22JUL79	20	22JUL79	20	12.7	30.1	648	163	315	7.6	47.9	27.0	3.3	0.0	1.9	0.6	11.7	303	0.29	0.28	14.44
22JUL79	21	22JUL79	21	12.9	22.6	645	162	315	7.7	47.2	27.3	3.6	0.0	1.9	0.5	11.8	308	0.30	0.28	14.40
22JUL79	22	22JUL79	22	12.5	22.7	642	162	316	7.9	46.7	27.6	3.5	0.0	1.9	0.6	11.9	310	0.29	0.29	14.26
22JUL79	23	22JUL79	23	12.5	23.3	638	162	317	7.9	46.9	27.5	3.5	0.0	2.0	0.6	11.6	310	0.30	0.29	14.05
23JUL79	0	23JUL79	0	12.9	22.1	634	162	318	7.9	47.1	27.4	3.4	0.0	2.0	0.6	11.7	309	0.29	0.29	13.93
23JUL79	1	23JUL79	1	13.4	21.1	629	162	318	7.8	47.2	27.2	3.5	0.0	1.9	0.6	11.7	307	0.30	0.29	14.01
23JUL79	2	23JUL79	2	12.3	22.9	626	162	319	7.8	47.6	27.0	3.4	0.0	1.9	0.6	11.7	304	0.29	0.29	14.06
23JUL79	3	23JUL79	3	13.0	22.0	624	162	319	7.6	48.5	26.6	3.2	0.0	1.7	0.6	11.7	299	0.28	0.28	15.76
23JUL79	4	23JUL79	4	13.1	20.6	624	162	320	7.4	49.1	26.1	3.2	0.0	1.9	0.6	11.6	293	0.28	0.28	13.72
23JUL79	5	23JUL79	5	12.4	20.0	625	162	320	7.3	49.5	25.9	3.2	0.0	1.9	0.6	11.6	291	0.27	0.28	13.55

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

23

DATE	HQJR	DATE	HCUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	C3	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
23JUL79	6	23JUL79	6	12.7	20.2	626	162	321	7.1	50.0	25.7	3.1	0.0	1.9	0.6	11.6	288	0.27	0.28	13.45
23JUL79	7	23JUL79	7	12.5	21.4	626	162	321	6.9	50.4	25.5	3.1	0.0	1.9	0.6	11.6	286	0.26	0.27	13.36
23JUL79	8	23JUL79	8	12.1	23.6	623	162	322	6.7	50.6	25.4	3.1	0.0	1.9	0.6	11.6	284	0.27	0.26	13.34
23JUL79	9	23JUL79	9	13.2	28.7	607	162	322	6.7	50.4	25.4	3.2	0.0	1.9	0.6	11.7	284	0.28	0.26	13.29
23JUL79	10	23JUL79	10	10.8	32.9	578	163	323	6.8	50.1	25.5	3.4	0.0	1.9	0.6	11.7	286	0.29	0.27	13.40
23JUL79	11	23JUL79	11	13.4	31.3	558	163	324												
23JUL79	12	23JUL79	12	46.2	115.8	524	164	324												
23JUL79	13	23JUL79	12:30 13	A BRIEF POWER FAILURE					12.0	43.0	21.5	10.2	0.0	2.0	0.6	10.7	284	0.95	0.56	10.82
23JUL79	14	23JUL79	14	12.5	43.1	417	164	307	12.9	40.4	23.6	10.4	0.0	1.8	0.5	9.5	312	1.09	0.59	13.46
23JUL79	15	23JUL79	15	12.2	36.0	406	163	307	14.9	38.2	26.3	9.8	0.0	1.6	0.5	8.7	341	1.12	0.56	16.88
23JUL79	16	23JUL79	16	12.8	35.3	401	163	307	14.8	36.8	28.9	8.9	0.0	1.4	0.5	8.7	363	1.03	0.51	20.17
23JUL79	17	23JUL79	17	12.7	34.4	399	163	308	14.3	36.5	30.1	9.4	0.0	1.4	0.5	8.9	372	0.94	0.47	21.48
23JUL79	18	23JUL79	18	12.3	34.2	327	163	309	12.7	36.6	30.5	9.0	0.0	1.5	0.5	9.2	373	0.87	0.45	20.98
23JUL79	19	23JUL79	19	12.9	32.8	397	163	309	12.2	36.6	30.9	7.7	0.0	1.6	0.5	9.4	374	0.82	0.43	19.53
23JUL79	20	23JUL79	20	14.8	33.6	397	163	310	12.9	36.5	31.2	7.6	0.0	1.7	0.5	9.6	376	0.80	0.41	18.06
23JUL79	21	23JUL79	21	13.0	32.8	396	163	311	12.8	35.5	32.3	7.5	0.0	1.9	0.5	9.7	385	0.77	0.40	17.16
23JUL79	22	23JUL79	22	13.2	32.9	398	163	312	12.7	35.2	32.7	7.2	0.0	2.0	0.5	9.8	389	0.74	0.39	16.35
23JUL79	23	23JUL79	23	12.0	30.2	399	163	312	12.5	35.5	32.7	6.9	0.0	2.1	0.5	9.9	387	0.70	0.38	15.81
24JUL79	0	24JUL79	0	12.7	29.2	400	163	313	12.7	36.1	32.4	6.0	0.0	2.1	0.5	10.3	382	0.58	0.39	15.46
24JUL79	1	24JUL79	1	12.4	28.6	396	162	314	12.7	37.4	32.0	5.0	0.0	1.6	0.5	10.7	375	0.47	0.40	19.63
24JUL79	2	24JUL79	2	12.7	42.7	394	163	314	12.4	37.6	31.1	5.0	0.0	2.1	0.5	11.4	364	0.44	0.40	14.88
24JUL79	3	24JUL79	3	11.9	28.7	393	163	315	12.0	38.4	30.4	5.0	0.0	2.2	0.5	11.6	356	0.43	0.39	13.71
24JUL79	4	24JUL79	4	11.9	28.9	393	163	315	11.6	38.4	30.4	5.1	0.0	2.3	0.5	11.7	355	0.44	0.38	13.40
24JUL79	5	24JUL79	5	11.5	29.2	392	163	315	11.5	37.7	31.3	5.4	0.0	2.3	0.5	11.5	365	0.47	0.37	13.76

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

24

DATE	HOURL	DATE	HOURL	INFLO	OUTFLO	PI1	PI2	PI3	F2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2	CH4	CH4	H2S
24JUL79	6	24JUL79	6	11.8	27.8	391	163	316	11.3	37.0	31.9	5.6	0.0	2.2	0.5	11.4	372	0.50	0.35	14.21		
24JUL79	7	24JUL79	7	12.1	22.6	390	163	316	11.1	37.1	32.0	5.6	0.0	2.2	0.5	11.4	372	0.49	0.35	14.48		
24JUL79	8	24JUL79	8	12.1	27.8	390	163	316	10.8	38.5	31.6	5.2	0.0	2.0	0.5	11.5	365	0.45	0.34	16.09		
24JUL79	9	24JUL79	9	11.8	26.6	391	133	316	10.5	39.0	31.1	5.1	0.0	2.0	0.5	11.7	359	0.44	0.34	15.18		
24JUL79	10	24JUL79	10	11.4	27.2	391	163	317	10.3	39.6	30.7	5.0	0.0	2.1	0.5	11.8	354	0.42	0.34	14.75		
24JUL79	11	24JUL79	11	11.2	22.4	392	163	317	10.1	39.8	30.6	4.9	0.0	2.1	0.5	12.0	353	0.41	0.33	14.80		
24JUL79	12	24JUL79	12	10.8	24.1	392	163	317	10.0	39.6	30.8	4.9	0.0	2.1	0.5	12.1	354	0.41	0.33	14.94		
24JUL79	13	24JUL79	13	10.8	27.6	390	163	318	9.9	40.3	31.4	5.1	0.0	0.4	0.5	12.3	360	0.42	0.32	82.21		
24JUL79	14	24JUL79	14	10.7	18.8	389	162	319	9.7	39.6	30.8	5.1	0.0	1.8	0.5	12.4	354	0.41	0.32	17.01		
24JUL79	15	24JUL79	15	11.9	25.1	389	162	319	9.7	39.9	30.6	5.1	0.0	2.0	0.5	12.2	351	0.42	0.32	15.11		
24JUL79	16	24JUL79	16	11.7	25.9	389	162	319	9.7	40.1	30.4	5.1	0.0	2.0	0.5	12.2	350	0.41	0.32	15.03		
24JUL79	17	24JUL79	17		0.0				9.6	40.2	30.4	5.0	0.0	2.0	0.5	12.3	349	0.41	0.32	15.24		
24JUL79	19	24JUL79	19	10.8	25.2	389	162	321	9.5	40.1	30.5	5.1	0.0	2.0	0.5	12.4	350	0.41	0.31	15.56		
24JUL79	20	24JUL79	20	10.8	26.1	389	162	320	9.5	39.9	30.6	5.1	0.0	1.9	0.5	12.4	351	0.41	0.31	15.71		
24JUL79	21	24JUL79	21	10.9	27.5	388	162	322	9.6	39.8	30.5	5.2	0.0	1.9	0.5	12.4	351	0.42	0.31	15.77		
24JUL79	22	24JUL79	22	11.2	25.4	389	162	322	9.6	39.9	30.4	5.2	0.0	1.9	0.5	12.4	350	0.42	0.32	15.75		
24JUL79	23	24JUL79	23	12.2	25.4	319	162	323	9.6	40.0	30.4	5.1	0.0	1.9	0.5	12.4	349	0.41	0.32	15.81		
25JUL79	0	25JUL79	0	13.0	26.8	391	162	323	9.6	40.0	30.5	5.1	0.0	1.9	0.5	12.4	350	0.41	0.31	15.93		
25JUL79	1	25JUL79	1	11.5	26.0	390	162	323	9.6	40.1	30.3	5.1	0.0	1.9	0.5	12.4	349	0.41	0.32	15.87		
25JUL79	2	25JUL79	2	11.3	26.3	390	162	323	9.5	40.6	29.7	5.2	0.0	1.9	0.5	12.5	343	0.42	0.32	15.58		
25JUL79	3	25JUL79	3	11.2	25.9	390	162	324	9.5	40.9	29.4	5.4	0.0	1.9	0.5	12.5	339	0.43	0.32	15.37		
25JUL79	4	25JUL79	4	11.7	26.0	390	162	324	9.5	40.9	29.2	5.5	0.0	1.9	0.5	12.5	338	0.44	0.32	15.29		
25JUL79	5	25JUL79	5	11.9	26.1	391	162	325	9.5	40.7	29.3	5.5	0.0	1.9	0.5	12.5	340	0.44	0.32	15.37		
25JUL79	6	25JUL79	6	12.0	26.2	391	162	325	9.5	40.6	29.5	5.5	0.0	1.9	0.5	12.5	341	0.44	0.32	15.51		

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[illegible]

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
26JUL79	7	26JUL79	7	10.8	22.0	398	162	335	10.5	45.0	23.2	4.9	0.0	2.0	0.6	13.9	280	0.35	0.45	11.63
26JUL79	8	26JUL79	8	10.7	28.6	398	162	335	10.4	45.1	23.1	4.8	0.0	2.0	0.6	13.9	279	0.35	0.45	11.63
26JUL79	9	26JUL79	9	10.9	28.0	399	162	335	10.4	45.2	23.1	4.9	0.0	2.0	0.6	14.0	278	0.35	0.45	11.61
26JUL79	10	26JUL79	10	11.1	26.7	400	162	336	10.4	45.2	23.0	4.8	0.0	2.0	0.6	14.0	278	0.34	0.45	11.61
26JUL79	11	26JUL79	11	11.0	21.3	400	162	336	10.4	45.3	23.0	4.7	0.0	2.0	0.6	14.0	277	0.34	0.45	11.59
26JUL79	12	26JUL79	12	11.1	24.1	400	162	336	10.4	45.3	23.1	4.7	0.0	2.0	0.6	14.1	278	0.33	0.45	11.70
26JUL79	13	26JUL79	13	11.0	28.0	400	162	337	10.3	45.2	23.0	4.6	0.0	2.0	0.6	14.3	276	0.32	0.45	11.67
26JUL79	14	26JUL79	14	10.9	26.5	401	162	336	10.4	45.3	23.1	4.6	0.0	2.0	0.6	14.1	277	0.33	0.45	11.67
26JUL79	15	26JUL79	15	15.6	28.5	402	162	336	10.4	45.3	23.2	4.6	0.0	2.0	0.6	14.0	278	0.33	0.45	11.79
26JUL79	16	26JUL79	16	21.1	33.1	409	163	336	10.4	45.2	23.1	4.6	0.0	1.9	0.6	14.3	278	0.33	0.45	12.19
26JUL79	17	26JUL79	17	22.0	36.3	416	163	338	10.4	45.5	22.8	4.7	0.0	1.9	0.6	14.1	275	0.33	0.46	11.82
26JUL79	18	26JUL79	18	22.0	38.9	417	163	339	10.1	47.5	20.7	5.2	0.0	1.9	0.6	14.0	254	0.37	0.49	10.80
26JUL79	19	26JUL79	19	21.9	39.6	419	163	339	9.7	49.7	18.3	5.9	0.0	1.9	0.6	13.9	232	0.42	0.53	9.58
26JUL79	20	26JUL79	20	21.8	40.5	421	163	340	9.6	50.2	17.5	6.4	0.0	1.9	0.6	13.6	225	0.47	0.55	9.20
26JUL79	21	26JUL79	21	21.8	47.0	423	163	340	9.7	49.8	17.8	6.7	0.0	1.9	0.6	13.5	229	0.50	0.55	9.45
26JUL79	22	26JUL79	22	22.9	42.8	424	163	341	9.9	49.0	18.3	7.0	0.0	1.9	0.6	13.3	236	0.53	0.54	9.90
26JUL79	23	26JUL79	23	22.1	47.5	426	163	341	10.3	47.7	19.2	7.2	0.0	1.8	0.6	13.2	247	0.55	0.53	10.39
27JUL79	0	27JUL79	0	22.3	45.6	429	163	341	10.6	46.6	20.1	7.3	0.0	1.8	0.6	13.0	257	0.56	0.53	11.37
27JUL79	1	27JUL79	1	22.0	46.4	431	163	342	11.1	45.3	21.1	7.3	0.0	1.7	0.6	12.9	269	0.57	0.52	12.30
27JUL79	2	27JUL79	2	22.3	45.8	433	163	342												
27JUL79	3	27JUL79	3	22.5	47.9	434	163	342	11.8	43.4	23.0	7.0	0.0	1.6	0.5	12.6	289	0.55	0.51	14.83
27JUL79	4	27JUL79	4	21.9	47.6	435	163	342	12.0	42.9	23.5	6.9	0.0	1.6	0.5	12.5	295	0.55	0.51	14.41
27JUL79	5	27JUL79	5	21.6	46.9	435	163	343	12.2	42.4	24.1	6.8	0.0	1.7	0.5	12.3	300	0.55	0.51	14.17
27JUL79	6	27JUL79	6	22.0	46.7	435	163	343	12.2	42.4	24.2	6.7	0.0	1.8	0.5	12.1	301	0.55	0.50	13.76

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

27

DATE	HOJR	DATE	HOJR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
27JUL79	7	27JUL79	7	22.3	46.6	435	163	343	12.2	42.4	24.3	6.7	0.0	1.8	0.5	12.1	302	0.56	0.50	13.31
27JUL79	8	27JUL79	8		0.0				12.2	42.5	24.3	6.6	0.0	1.9	0.5	12.0	301	0.55	0.50	12.72
27JUL79	9	27JUL79	9	23.0	45.6	434	163	344	12.1	42.6	24.3	6.5	0.0	1.9	0.5	12.0	301	0.54	0.50	12.51
27JUL79	10	27JUL79	10	23.8	44.8	436	163	344	11.9	43.1	24.1	6.4	0.0	2.0	0.5	12.0	298	0.54	0.49	12.00
27JUL79	11	27JUL79	11	23.5	46.9	436	163	344	11.6	43.9	23.4	6.4	0.0	2.1	0.6	12.0	291	0.53	0.50	11.43
27JUL79	12	27JUL79	12	23.7	142.6	414	175	272	10.7	47.8	22.2	5.1	0.5	1.5	0.6	11.9	272	0.43	0.48	14.94
27JUL79	13	27JUL79	13	22.3	87.9	369	184	154	10.4	46.2	20.3	6.1	0.6	1.9	0.6	14.2	255	0.43	0.51	10.72
27JUL79	14	27JUL79	14	21.6	100.1	342	177	152	10.5	45.4	19.3	7.4	0.0	2.1	0.6	14.7	249	0.50	0.54	9.06
27JUL79	15	27JUL79	15	22.4	52.4	330	171	151	10.9	44.6	19.5	7.8	0.0	2.2	0.5	14.4	254	0.54	0.56	8.98
27JUL79	16	27JUL79	16	21.5	47.8	324	168	151	11.1	44.6	19.7	7.8	0.0	2.1	0.6	14.0	256	0.56	0.56	9.22
27JUL79	17	27JUL79	17	21.1	47.2	320	166	151	11.2	44.9	19.6	7.9	0.0	2.1	0.6	13.7	256	0.57	0.57	9.43
27JUL79	18	27JUL79	18	21.4	45.1	317	166	151	11.3	45.3	19.6	7.9	0.0	2.0	0.6	13.3	256	0.60	0.58	9.69
27JUL79	19	27JUL79	19	23.0	44.2	315	165	152	11.4	45.9	19.4	8.0	0.0	2.0	0.6	12.8	254	0.62	0.59	9.84
27JUL79	20	27JUL79	20	24.3	45.1	315	164	152	11.4	46.2	19.2	8.1	0.0	1.9	0.6	12.6	253	0.64	0.59	9.92
27JUL79	21	27JUL79	21	21.1	43.8	311	164	152	11.3	46.9	18.9	8.1	0.0	1.9	0.6	12.3	250	0.66	0.60	9.95
27JUL79	22	27JUL79	22	20.1	42.1	307	163	152	11.2	47.1	18.8	8.1	0.0	1.9	0.6	12.3	248	0.66	0.60	10.09
27JUL79	23	27JUL79	23	22.5	41.0	306	163	152	11.4	46.4	19.5	8.0	0.0	1.9	0.6	12.4	255	0.65	0.58	10.45
28JUL79	0	28JUL79	0	22.6	41.0	303	163	152	11.4	46.1	19.7	7.9	0.0	1.9	0.6	12.5	257	0.63	0.58	10.50
28JUL79	1	28JUL79	1	32.5	46.2	312	162	152	11.3	46.5	19.4	7.8	0.0	1.9	0.6	12.6	254	0.62	0.58	10.45
28JUL79	2	28JUL79	2	32.2	51.9	322	162	152	11.0	47.7	18.3	7.9	0.0	1.8	0.6	12.7	242	0.62	0.60	10.06
28JUL79	3	28JUL79	3	32.7	54.5	324	162	153	10.0	50.9	15.6	8.5	0.0	1.7	0.6	12.7	214	0.67	0.64	9.37
28JUL79	4	28JUL79	4	33.8	55.3	326	161	153	9.5	52.2	14.5	9.0	0.0	1.5	0.6	12.6	203	0.72	0.65	9.41
28JUL79	5	28JUL79	5	33.2	55.8	327	161	152	9.4	52.3	14.3	9.4	0.0	1.5	0.7	12.5	202	0.75	0.66	9.56
28JUL79	6	28JUL79	6	31.1	56.0	327	161	152	9.5	51.9	14.5	9.6	0.0	1.5	0.6	12.4	205	0.78	0.65	9.73

09:30 DRAINED TAR KNOCKOUT POT-5.5 GALLON LIQUOR COLLECTED

12:30 **SYSTEM CHANGE - SWITCH PRODUCTION FROM PI-2 TO PI-3

(I) (C) (P)

01:00 *FLOW CHANGED TO 30 SCFM

HOUPLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

28

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
28JUL79	7	28JUL79	7	30.1	56.3	328	160	152	9.7	51.4	14.8	9.8	0.0	1.5	0.6	12.2	209	0.80	0.65	9.83
28JUL79	8	28JUL79	8	31.8	56.4	330	160	152	9.9	50.8	15.2	9.8	0.0	1.5	0.6	12.1	214	0.81	0.65	9.89
28JUL79	9	28JUL79	9	33.2	56.7	330	160	152	10.2	50.1	15.7	9.3	0.0	1.6	0.6	12.0	220	0.82	0.65	10.01
28JUL79	10	28JUL79	10	32.5	61.4	332	160	153	10.5	49.4	16.2	9.8	0.0	1.6	0.6	11.9	225	0.82	0.65	10.06
28JUL79	11	28JUL79	11	32.5	58.6	334	160	154	10.7	49.0	16.6	9.7	0.0	1.6	0.6	11.8	230	0.82	0.65	10.11
28JUL79	12	28JUL79	12	32.3	63.4	333	159	153	10.9	48.6	16.9	9.5	0.0	1.7	0.6	11.8	233	0.81	0.64	10.10
28JUL79	13	28JUL79	13	32.7	59.0	333	159	152	10.9	48.5	17.0	9.5	0.0	1.7	0.6	11.8	234	0.80	0.64	10.01
28JUL79	14	28JUL79	14	30.6	57.8	334	159	152	11.0	48.3	17.2	9.4	0.0	1.7	0.6	11.8	236	0.80	0.64	10.10
28JUL79	15	28JUL79	15	38.5	60.5	338	159	152	11.1	48.0	17.5	9.3	0.0	1.7	0.6	11.8	240	0.79	0.63	10.22
28JUL79	16	28JUL79	16	39.9	66.3	350	159	152	11.0	48.5	17.2	9.3	0.0	1.7	0.6	11.8	235	0.79	0.64	9.92
28JUL79	17	28JUL79	17	40.0	67.8	355	158	153	10.4	50.3	16.0	9.4	0.0	1.6	0.6	11.7	222	0.81	0.65	9.70
28JUL79	18	28JUL79	18	40.0	110.5	358	158	152	10.0	50.5	15.8	9.7	0.0	1.6	0.6	11.7	220	0.83	0.64	9.80
28JUL79	19	28JUL79	19	40.8	72.3	362	158	152	10.1	50.2	16.0	9.9	0.0	1.6	0.6	11.7	223	0.84	0.63	10.18
28JUL79	20	28JUL79	20	41.1	73.2	366	158	151	10.3	49.6	16.4	10.0	0.0	1.6	0.6	11.6	228	0.86	0.63	10.47
28JUL79	21	28JUL79	21	41.0	74.5	370	158	151	10.4	48.9	16.9	10.0	0.0	1.6	0.6	11.6	233	0.86	0.62	10.64
28JUL79	22	28JUL79	22	41.2	75.7	375	157	151	10.7	48.2	17.5	10.0	0.0	1.6	0.6	11.5	240	0.87	0.61	11.27
28JUL79	23	28JUL79	23	37.4	74.4	377	157	151	10.9	47.7	17.9	10.0	0.0	1.6	0.6	11.4	244	0.88	0.61	11.21
29JUL79	0	29JUL79	0	33.6	73.6	379	129	151	11.2	46.5	18.9	9.9	0.0	1.7	0.6	11.2	255	0.88	0.59	11.39
29JUL79	1	29JUL79	1	35.2	72.7	382	157	151	11.5	45.3	19.9	9.9	0.0	1.7	0.6	11.2	266	0.89	0.58	11.64
29JUL79	2	29JUL79	2	36.6	74.7	388	157	151	11.9	44.0	20.9	9.9	0.0	1.8	0.6	11.1	277	0.89	0.57	11.84
29JUL79	3	29JUL79	3	36.8	76.1	394	157	151	12.1	43.7	21.1	10.0	0.0	1.8	0.5	10.9	280	0.91	0.57	11.70
29JUL79	4	29JUL79	4	33.7	74.1	395	157	151	12.3	43.0	21.7	9.8	0.0	1.8	0.5	10.8	286	0.91	0.57	11.89
29JUL79	5	29JUL79	5	30.9	70.0	392	156	151	12.4	42.3	22.6	9.5	0.0	1.8	0.5	10.8	295	0.88	0.55	12.22
29JUL79	6	29JUL79	6	28.5	67.3	392	156	151	12.4	41.9	23.1	9.3	0.0	1.9	0.5	10.9	299	0.85	0.54	12.22

04:15 *REDUCED FLOW TO 30 SCFM

15:00 *CHANGED FLOW TO 45 SCFM 15:19 *COULD NOT MAINTAIN FLOW, LOWERED FLOW TO 40 SCFM

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

29

DATE	HOJR	DATE	HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
29JUL79	7	29JUL79	7	23.7	45.7	372	172	151	11.3	45.1	21.5	8.2	1.7	1.8	0.6	10.2	276	0.81	0.53	12.05
29JUL79	8	29JUL79	8	21.6	82.9	232	285	175	26.3	36.1	16.1	9.1	7.3	0.7	0.5	5.4	269	1.49	1.64	24.49
29JUL79	9	29JUL79	9	21.5	87.5	167	458	179	40.1	6.2	29.5	10.4	0.0	2.2	0.1	11.4	455	0.92	1.36	13.31
29JUL79	10	29JUL79	10	19.7	48.5	167	624	185	39.4	5.9	29.4	9.3	0.0	2.4	0.1	13.4	448	0.69	1.34	12.08
29JUL79	11	29JUL79	11	20.2	26.6	167	772	188	36.9	7.2	31.0	9.5	0.0	2.5	0.1	13.9	453	0.61	1.19	12.51
29JUL79	12	29JUL79	12	15.4	23.4	167	848	189	34.5	8.3	32.9	7.8	0.0	2.4	0.1	13.9	462	0.56	1.05	13.42
29JUL79	13	29JUL79	13	15.4	19.5	167	840	189	32.7	9.5	33.9	7.3	0.0	2.6	0.2	13.9	465	0.53	0.96	13.29
29JUL79	14	29JUL79	14	0.0	16.8	167	832	189	30.7	10.8	34.7	7.1	0.0	2.6	0.2	13.9	465	0.51	0.89	13.10
29JUL79	15	29JUL79	15	7.1	15.4	167	823	187	29.4	11.7	35.3	6.8	0.0	2.7	0.2	13.9	466	0.49	0.83	12.98
29JUL79	16	29JUL79	16	4.9	13.4	167	858	185	28.7	12.2	35.5	6.6	0.0	2.9	0.2	14.0	466	0.47	0.81	12.37
29JUL79	17	29JUL79	17	0.0	13.2	167	877	185	27.8	12.4	35.9	6.5	0.0	2.9	0.2	14.3	467	0.45	0.77	12.25
29JUL79	18	29JUL79	18	0.0	8.8	167	882	185	27.7	12.1	35.9	6.3	0.0	3.1	0.2	14.6	465	0.43	0.77	11.62
29JUL79	19	29JUL79	19	28.6	30.0	350	286	198	9.8	55.7	14.1	3.0	10.3	0.6	0.7	6.2	181	0.48	0.69	22.40
29JUL79	20	29JUL79	20	50.3	0.0	348	162	248	7.8	57.9	14.4	4.8	7.9	0.0	0.7	6.7	183	0.72	0.55	
29JUL79	21	29JUL79	21	41.9	0.1	384	162	293	12.7	44.7	22.9	9.2	0.0	0.0	0.6	11.0	294	0.75	0.55	
29JUL79	22	29JUL79	22	46.0	0.0	415	162	338	12.6	44.5	22.8	8.7	0.0	0.0	0.5	10.9	295	0.81	0.55	
29JUL79	23	29JUL79	23	41.0	8.1	447	162	378	12.4	45.1	22.7	8.9	0.0	0.0	0.6	10.3	294	0.87	0.55	
30JUL79	0	30JUL79	0	35.6	148.4	468	195	333	10.2	52.7	18.4	6.5	0.0	0.1	0.7	11.4	237	0.57	0.55	252.69
30JUL79	1	30JUL79	1	22.1	104.1	417	164	220	6.6	62.1	9.3	2.0	0.0	0.7	0.7	18.4	121	0.11	0.71	12.67
30JUL79	2	30JUL79	2	20.2	40.4	373	163	221	5.4	67.1	6.1	2.5	0.0	0.9	0.8	17.2	85.8	0.14	0.89	6.48
30JUL79	3	30JUL79	3	19.6	31.7	356	163	221	5.6	68.0	5.7	2.2	0.0	1.0	0.8	16.7	81.8	0.13	0.98	5.95
30JUL79	4	30JUL79	4	18.4	29.8	352	163	222	5.9	67.6	6.1	2.0	0.0	1.0	0.8	16.7	86.1	0.12	0.95	6.37
30JUL79	5	30JUL79	5	15.2	27.4	344	163	223	6.0	67.3	6.6	1.8	0.0	1.0	0.8	16.5	90.5	0.11	0.91	6.75
30JUL79	6	30JUL79	6	14.9	23.5	335	163	223	6.0	67.2	6.8	1.7	0.0	1.0	0.8	16.4	92.8	0.10	0.88	6.91

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

30

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
30JUL79	7	30JUL79	7	14.3	23.2	330	163	223	6.1	67.1	7.2	1.7	0.0	1.0	0.7	16.3	96.0	0.10	0.85	7.04
30JUL79	8	30JUL79	8	15.3	21.2	327	163	223	6.2	66.5	7.7	1.6	0.0	1.0	0.8	16.1	101	0.10	0.81	7.30
30JUL79	9	30JUL79	9	10.8	110.9	236	200	222	4.1	70.5	5.9	1.4	9.1	0.3	0.9	9.3	75.9	0.15	0.70	22.20
30JUL79	10	30JUL79	10	12.1	19.3	169	280	219	5.7	53.9	17.7	3.5	2.0	0.0	0.7	12.9	218	0.27	0.55	
					(P)	(I)	(C)													
30JUL79	11	30JUL79	11	11.1	15.1	160	342	216	16.3	40.6	23.5	4.3	0.0	0.1	0.6	14.6	300	0.30	0.70	212.53
30JUL79	12	30JUL79	12	11.6	13.7	165	415	211	20.1	34.5	25.0	4.1	0.0	1.0	0.5	14.9	326	0.28	0.80	26.31
30JUL79	13	30JUL79	13	10.8	30.7	170	436	204	21.0	33.1	25.9	3.1	0.0	1.1	0.5	15.3	335	0.20	0.81	23.34
30JUL79	14	30JUL79	14	11.3	45.3	169	336	199	21.2	33.1	27.9	1.6	0.0	0.9	0.5	14.9	350	0.11	0.76	30.24
30JUL79	15	30JUL79	15	13.0	32.7	165	273	194	21.8	33.2	27.1	1.4	0.0	1.1	0.5	14.9	344	0.09	0.80	24.69
30JUL79	16	30JUL79	16	12.7	24.1	168	249	191												
30JUL79	17	30JUL79	17	12.8	21.8	168	238	187												
30JUL79	18	30JUL79	18	12.5	18.7	168	231	183												
30JUL79	19	30JUL79	19	12.4	17.7	168	227	181												
30JUL79	20	30JUL79	20	12.5	16.7	168	226	178												
30JUL79	21	30JUL79	21	12.5	17.5	168	225	176												
30JUL79	22	30JUL79	22	12.7	18.2	168	225	174												
30JUL79	23	30JUL79	23	12.3	22.0	168	225	171	18.7	31.1	27.8	5.0	0.0	1.0	0.5	15.8	352	0.32	0.67	27.60
31JUL79	0	31JUL79	0	12.4	24.0	168	226	169												
31JUL79	1	31JUL79	1	12.8	31.0	168	226	167	20.2	26.0	31.1	5.2	0.0	1.0	0.5	15.9	391	0.33	0.65	30.70
31JUL79	2	31JUL79	2	13.1	38.0	168	226	165												
31JUL79	3	31JUL79	3	13.3	21.0	168	226	164												
31JUL79	4	31JUL79	4	49.7	30.9	169	258	162												
31JUL79	5	31JUL79	5	8.6	19.9	168	248	161	16.8	33.7	28.3	4.3	0.0	1.1	0.5	15.3	349	0.28	0.59	26.20
31JUL79	6	31JUL79	6	11.2	16.3	168	228	160												

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR JULY

31

DATE	HOJR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
31JUL79	7	31JUL79	7	11.4	15.1	168	218	159												
31JUL79	8	31JUL79	8	11.5	13.4	168	215	158												
31JUL79	9	31JUL79	9	9.6	14.0	175	225	165												
31JUL79	10	31JUL79	10	9.0	16.1	175	225	165												
31JUL79	11	31JUL79	11	12.0	18.4	165	227	155												
31JUL79	12	31JUL79	12	46.6	26.8	265	289	154	17.7	26.2	32.6	5.2	0.0	1.9	0.5	15.9	397	0.33	0.54	17.31
31JUL79	13	31JUL79	13	10.0	16.1	175	225	160												
31JUL79	14	31JUL79	14	10.0	20.3	175	240	160												
31JUL79	15	31JUL79	15	10.0	23.1	175	245	160												
31JUL79	16	31JUL79	16	10.0	42.0	180	475	150												
31JUL79	17	31JUL79	17	36.5	0.0	215	165	165												
31JUL79	18	31JUL79	18	42.6	0.0	275	170	180												
31JUL79	19	31JUL79	19	42.6	0.0	335	165	195												
31JUL79	20	31JUL79	20	38.4	0.0	375	165	220												
31JUL79	21	31JUL79	21	38.4	0.0	380	165	265												
31JUL79	22	31JUL79	22	13.2	50.4	315	165	205												
31JUL79	23	31JUL79	23	15.3	27.8	237	163	180												

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

1

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
01AUG79	0	01AUG79	0	14.6	20.7	200	162	181												
						(I)	(P)	(C)												
01AUG79	1	01AUG79	1	14.4	20.0	223	162	181												
01AUG79	2	01AUG79	2	14.3	19.6	221	162	152												
01AUG79	3	01AUG79	3	13.3	18.5	220	162	182												
01AUG79	4	01AUG79	4	13.9	17.9	220	162	182												
01AUG79	5	01AUG79	5	12.8	18.0	220	162	183												
01AUG79	6	01AUG79	6	13.1	17.5	219	162	183												
01AUG79	7	01AUG79	7	13.7	17.8	219	162	184												
01AUG79	8	01AUG79	8	13.3	17.8	220	162	184												
01AUG79	9	01AUG79	9	11.8	16.5	219	162	184												
01AUG79	10	01AUG79	10	12.2	13.1	219	162	184												
			10:30	DRAINED TANK KNOCKOUT POT. 23 GALLON LIQUOR COLLECTED																
01AUG79	11	01AUG79	11	12.9	15.8	219	162	184												
01AUG79	12	01AUG79	12	12.6	17.0	220	162	184												
01AUG79	13	01AUG79	13	10.4	16.8	225	165	190												
01AUG79	14	01AUG79	14	11.5	18.4	221	162	185												
01AUG79	15	01AUG79	15	12.7	16.3	221	162	185												
01AUG79	16	01AUG79	16	10.0	16.8	220	162	186												
01AUG79	17	01AUG79	17	12.3	18.2	222	162	186												
01AUG79	18	01AUG79	18	12.4	17.2	222	162	187												
01AUG79	19	01AUG79	19	12.3	16.9	222	162	188												
01AUG79	20	01AUG79	20	9.0	16.6	222	162	188												
01AUG79	21	01AUG79	21	11.9	16.2	222	162	188												
01AUG79	22	01AUG79	22	11.8	16.7	222	162	189												
01AUG79	23	01AUG79	23	11.4	16.3	223	162	189												

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

2

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
02AUG79	0	02AUG79	0	11.5	16.1	223	162	189												
02AUG79	1	02AUG79	1	11.9	16.1	224	162	189												
02AUG79	2	02AUG79	2	12.5	16.6	224	162	190												
02AUG79	8	02AUG79	8	11.5	16.6	229	162	191												
02AUG79	9	02AUG79	9	11.7	16.6	229	162	191												
02AUG79	10	02AUG79	10	11.3	16.2	230	162	191												
02AUG79	11	02AUG79	11	11.4	16.5	230	162	191												
02AUG79	12	02AUG79	12	11.3	16.1	230	162	191												
02AUG79	13	02AUG79	13	11.7	16.5	231	162	192												
02AUG79	14	02AUG79	14	12.2	17.4	233	162	191												
02AUG79	15	02AUG79	15	11.8	17.2	234	162	192												
02AUG79	16	02AUG79	16	12.5	17.5	235	162	192	3.2	72.3	2.4	2.1	0.0	0.6	0.9	18.5	41.2	0.11	1.30	4.13
02AUG79	17	02AUG79	17	12.5	16.0	235	162	193	3.2	72.3	2.4	2.2	0.0	0.6	0.9	18.4	41.4	0.12	1.31	4.06
02AUG79	18	02AUG79	18	12.7	16.3	235	162	193	3.3	72.2	2.4	2.3	0.0	0.6	0.9	18.4	41.8	0.12	1.36	3.94
02AUG79	19	02AUG79	19	11.8	16.2	235	162	194	3.3	72.0	2.4	2.4	0.0	0.6	0.9	18.3	42.4	0.13	1.39	3.88
02AUG79	20	02AUG79	20	12.9	15.8	236	162	194	3.4	71.8	2.4	2.5	0.0	0.6	0.9	18.3	42.7	0.14	1.43	3.79
02AUG79	21	02AUG79	21	12.6	16.0	237	162	195	3.5	71.7	2.4	2.6	0.0	0.6	0.9	18.3	43.3	0.14	1.45	3.75
02AUG79	22	02AUG79	22	12.3	16.3	238	162	195	3.6	71.5	2.4	2.7	0.0	0.6	0.9	18.3	44.1	0.15	1.48	3.73
02AUG79	23	02AUG79	23	12.3	16.7	238	162	195	3.7	71.3	2.5	2.7	0.0	0.7	0.9	18.3	45.0	0.15	1.50	3.76
03AUG79	0	03AUG79	0	12.6	16.7	239	162	195	3.8	71.2	2.5	2.7	0.0	0.7	0.9	18.3	45.4	0.15	1.52	3.73
03AUG79	1	03AUG79	1	12.3	16.8	239	162	196	3.9	71.2	2.5	2.7	0.0	0.7	0.9	18.2	45.4	0.15	1.57	3.62
03AUG79	2	03AUG79	2	13.1	16.9	239	162	195	4.2	70.8	2.6	2.8	0.0	0.7	0.9	18.1	48.1	0.15	1.62	3.66
03AUG79	3	03AUG79	3	9.6	14.7	230	165	200	4.3	70.7	2.6	2.7	0.0	0.7	0.9	18.1	48.3	0.15	1.65	3.61
03AUG79	4	03AUG79	4	9.6	14.7	230	165	200	4.4	70.6	2.6	2.8	0.0	0.7	0.9	18.0	48.8	0.16	1.69	3.56

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

3

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
03AUG79	5	03AUG79	5	9.6	16.1	230	165	200	4.5	70.4	2.6	2.8	0.0	0.7	0.9	18.1	49.3	0.16	1.73	3.51
03AUG79	6	03AUG79	6	9.6	16.8	230	165	200	4.5	70.3	2.7	2.9	0.0	0.7	0.9	18.0	50.4	0.16	1.67	3.65
03AUG79	7	03AUG79	7	9.6	16.8	235	165	200	4.6	70.1	2.7	2.9	0.0	0.8	0.9	18.0	50.8	0.16	1.70	3.60
03AUG79	8	03AUG79	8	11.6	40.1	242	148	195	4.6	70.2	2.8	2.9	0.0	0.8	0.9	18.0	51.3	0.16	1.65	3.64
03AUG79	9	03AUG79	9	11.8	56.2	233	119	164	4.8	65.2	6.9	2.7	0.0	0.9	0.8	18.7	53.0	0.14	0.70	8.00
03AUG79	10	03AUG79	10	12.0	21.9	218	113	151	5.3	62.0	9.6	3.1	0.0	0.9	0.8	18.4	122	0.17	0.55	10.96
03AUG79	11	03AUG79	11	55.3	28.4	228	114	152	5.1	66.6	5.3	3.4	0.0	0.9	0.8	17.9	79.8	0.19	0.97	6.02
03AUG79	12	03AUG79	12	6.3	24.6	228	113	151	5.6	66.6	4.6	3.5	0.0	0.9	0.8	18.0	74.3	0.20	1.22	4.86
03AUG79	13	03AUG79	13	12.0	23.1	217	113	151	5.5	67.2	4.0	3.8	0.0	1.0	0.8	17.8	69.4	0.22	1.38	4.20
03AUG79	14	03AUG79	14	11.6	19.1	213	113	151	5.4	67.5	3.6	4.2	0.0	1.0	0.8	17.5	66.1	0.24	1.50	3.71
03AUG79	15	03AUG79	15	11.7	22.1	212	113	151	5.7	67.1	3.7	4.1	0.0	1.0	0.8	17.6	67.9	0.23	1.56	3.86
03AUG79	16	03AUG79	16	11.9	21.8	211	113	152	6.1	66.9	3.8	3.9	0.0	0.9	0.8	17.6	69.2	0.22	1.60	3.99
03AUG79	17	03AUG79	17	11.7	19.4	211	113	152	6.2	66.8	3.8	3.7	0.0	1.0	0.8	17.6	69.9	0.21	1.62	4.01
03AUG79	18	03AUG79	18	11.6	17.5	210	113	153	6.3	66.8	3.9	3.7	0.0	1.0	0.8	17.6	70.1	0.21	1.64	3.97
03AUG79	19	03AUG79	19	11.1	19.8	210	113	154	6.3	67.0	3.8	3.6	0.0	1.0	0.8	17.5	69.5	0.20	1.66	3.96
03AUG79	20	03AUG79	20	11.2	16.8	210	113	154	6.3	67.1	3.8	3.5	0.0	1.0	0.8	17.5	69.0	0.20	1.68	3.85
03AUG79	21	03AUG79	21	11.2	17.0	209	113	154	6.4	67.1	3.8	3.5	0.0	1.0	0.8	17.5	69.4	0.20	1.67	3.82
03AUG79	22	03AUG79	22	10.9	18.5	209	113	154	6.4	67.2	3.8	3.4	0.0	1.0	0.8	17.4	69.5	0.19	1.67	3.86
03AUG79	23	03AUG79	23	11.6	26.6	200	138	155	6.4	67.2	3.8	3.3	0.0	1.0	0.8	17.4	68.9	0.19	1.69	3.83
04AUG79	0	04AUG79	0	12.3	47.8	171	198	155	1.0	76.5	0.7	1.0	17.2	0.1	0.9	3.1	13.3	0.32	1.38	10.29
04AUG79	1	04AUG79	1	12.5	3.8	167	267	155	0.2	77.2	0.2	1.0	19.7	0.0	0.9	1.0	6.1	1.04	0.90	
04AUG79	2	04AUG79	2	12.9	9.2	167	340	153												
04AUG79	3	04AUG79	3	12.6	6.5	167	403	153												
04AUG79	4	04AUG79	4	12.9	2.1	167	462	154												

08:45 *LOWER BACK PRESSURE TO 100 PSIG
 11:20 DRAINED TAR KNOCKOUT POT. 23 GALLON LIQUOR COLLECTED
 23:50 **SYSTEM CHANGE. INJECT IN PI-2 AND PRODUCE OUT OF PI-1
 (P) (I) (C)

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
04AUG79	5	04AUG79	5	11.4	0.0	167	525	153												
04AUG79	6	04AUG79	6	11.5	0.0	167	588	152	2.8	68.8	5.4	4.8	0.0	0.0	0.8	17.3	77.7	0.28	0.53	
04AUG79	7	04AUG79	7	10.9	0.0	167	649	152	4.3	64.6	7.1	4.4	0.0	0.0	0.8	18.8	98.2	0.24	0.61	
04AUG79	8	04AUG79	8	21.5	3.9	167	726	151	6.5	59.6	9.2	4.5	0.0	0.0	0.7	19.5	126	0.23	0.70	
04AUG79	9	04AUG79	9	16.2	3.3	168	818	150	8.7	55.4	10.9	4.6	0.0	0.0	0.7	19.7	151	0.23	0.80	
04AUG79	10	04AUG79	10	3.0	0.0	169	857	150	11.0	51.6	12.2	4.6	0.0	0.0	0.7	19.9	171	0.23	0.90	
04AUG79	11	04AUG79	11	7.9	5.3	168	878	150	13.3	48.4	13.1	4.7	0.0	0.0	0.6	19.9	187	0.24	1.01	
04AUG79	12	04AUG79	12	6.8	76.4	310	414	167	7.4	62.4	6.6	2.9	10.8	0.0	0.8	9.5	58.7	0.30	1.12	
04AUG79	13	04AUG79	13	14.9	0.1	282	163	217	0.4	76.7	0.3	1.1	20.5	0.0	0.9	0.4	7.8	3.02	1.22	
04AUG79	14	04AUG79	14	12.4	0.1	273	162	234												
04AUG79	15	04AUG79	15	11.4	0.1	278	163	244												
04AUG79	16	04AUG79	16	11.2	0.1	285	162	252												
04AUG79	17	04AUG79	17	13.9	0.1	292	162	259												
04AUG79	18	04AUG79	18	13.3	117.0	281	172	179	6.5	64.8	9.0	2.7	0.0	0.2	0.8	16.1	119	0.17	0.72	54.50
04AUG79	19	04AUG79	19	12.6	29.5	252	163	171	7.0	61.7	12.1	2.3	0.0	0.3	0.7	16.0	150	0.14	0.58	46.86
04AUG79	20	04AUG79	20	13.4	20.7	235	163	172	5.2	67.3	8.5	1.8	0.0	0.3	0.8	16.1	107	0.11	0.62	28.28
04AUG79	21	04AUG79	21	12.9	18.7	227	163	173	3.8	71.5	5.5	1.4	0.0	0.3	0.9	16.7	70.8	0.08	0.69	17.78
04AUG79	22	04AUG79	22	13.2	17.3	223	163	173	3.1	72.5	4.4	1.3	0.0	0.3	0.9	17.4	57.8	0.07	0.71	13.70
04AUG79	23	04AUG79	23	12.9	17.3	222	163	173	2.9	72.9	4.0	1.3	0.0	0.3	0.9	17.7	52.8	0.07	0.72	11.77
05AUG79	0	05AUG79	0	13.1	16.7	221	163	173	2.8	73.1	3.8	1.4	0.0	0.3	0.9	17.7	51.0	0.08	0.74	11.12
05AUG79	1	05AUG79	1	12.8	16.7	221	163	174	2.8	73.4	3.6	1.4	0.0	0.3	0.9	17.7	49.3	0.08	0.77	12.36
05AUG79	2	05AUG79	2	13.4	16.2	220	163	174	2.8	73.4	3.5	1.4	0.0	0.3	0.9	17.8	47.8	0.08	0.81	11.64
05AUG79	3	05AUG79	3	13.2	16.2	220	163	174	2.7	73.6	3.3	1.4	0.0	0.3	0.9	17.8	45.7	0.08	0.84	10.81
05AUG79	4	05AUG79	4	13.1	16.1	219	163	175	2.7	73.7	3.1	1.4	0.0	0.3	0.9	17.9	43.8	0.08	0.87	10.21

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
05AUG79	5	05AUG79	5	13.1	15.9	219	163	175	2.6	73.8	2.9	1.4	0.0	0.3	0.9	18.0	42.2	0.08	0.90	9.62
05AUG79	6	05AUG79	6	13.3	16.0	219	163	175	2.6	73.8	2.8	1.5	0.0	0.3	0.9	18.1	41.0	0.08	0.92	9.57
05AUG79	7	05AUG79	7	12.8	15.8	218	163	175	2.5	73.8	2.7	1.5	0.0	0.3	0.9	18.2	39.7	0.09	0.95	8.72
05AUG79	8	05AUG79	8	17.8	16.6	223	163	175	2.6	73.8	2.6	1.6	0.0	0.3	0.9	18.3	39.2	0.09	0.98	7.86
05AUG79	9	05AUG79	9	22.0	21.3	234	163	176	2.6	73.7	2.5	1.7	0.0	0.3	0.9	18.3	38.5	0.09	1.02	7.30
05AUG79	10	05AUG79	10	24.3	26.4	241	163	176	2.6	73.6	2.4	1.7	0.0	0.4	0.9	18.4	37.9	0.09	1.07	6.82
05AUG79	11	05AUG79	11	25.9	26.4	244	163	176	2.5	73.7	2.0	2.1	0.0	0.4	0.9	18.4	35.0	0.11	1.21	5.72
05AUG79	12	05AUG79	12	22.1	27.5	244	163	176	2.5	73.4	1.7	3.1	0.0	0.3	0.9	18.2	34.4	0.17	1.46	5.02
05AUG79	13	05AUG79	13	27.3	28.8	248	163	176	2.7	72.4	1.5	4.1	0.0	0.3	0.9	18.0	37.0	0.23	1.74	4.69
05AUG79	14	05AUG79	14	34.5	37.9	264	164	178	3.0	71.4	1.5	4.9	0.0	0.4	0.9	17.9	40.5	0.28	2.01	4.16
05AUG79	15	05AUG79	15	34.8	41.3	274	164	179	3.3	71.0	1.4	5.8	0.0	0.3	0.9	17.4	43.0	0.34	2.30	5.37
05AUG79	16	05AUG79	16	39.2	45.4	281	164	181	3.3	70.4	1.4	7.3	0.0	0.3	0.9	16.4	47.4	0.45	2.46	4.14
05AUG79	17	05AUG79	17	38.5	50.1	288	164	183												
05AUG79	18	05AUG79	18	39.3	49.8	292	164	186												
05AUG79	19	05AUG79	19	36.2	52.3	294	164	186												
05AUG79	20	05AUG79	20	39.5	52.3	297	164	186												
05AUG79	21	05AUG79	21	38.7	52.6	302	164	187												
05AUG79	22	05AUG79	22	38.3	53.2	305	164	188												
05AUG79	23	05AUG79	23	38.6	51.6	307	164	188	5.8	64.7	3.2	11.6	0.0	0.5	0.8	13.4	87.7	0.87	1.79	6.03
06AUG79	0	06AUG79	0	39.0	52.3	310	164	190	6.0	64.2	3.4	11.8	0.0	0.6	0.8	13.2	91.0	0.90	1.75	5.68
06AUG79	1	06AUG79	1	38.5	52.8	312	164	190	6.2	64.0	3.7	11.6	0.0	0.6	0.8	13.2	93.0	0.88	1.68	5.78
06AUG79	2	06AUG79	2	31.9	50.7	309	164	189	6.3	63.8	3.8	11.4	0.0	0.7	0.8	13.3	94.1	0.86	1.65	5.72
06AUG79	3	06AUG79	3	31.0	48.1	304	164	189	6.6	63.5	3.9	11.1	0.0	0.7	0.8	13.5	95.0	0.82	1.68	5.68
06AUG79	4	06AUG79	4	31.0	46.5	304	164	189	7.2	62.8	4.1	10.3	0.0	0.7	0.8	14.0	97.3	0.74	1.75	5.62

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
06AUG79	5	06AUG79	5	30.7	45.9	304	164	189	7.5	62.8	4.3	9.7	0.0	0.8	0.7	14.3	97.5	0.68	1.75	5.55
06AUG79	6	06AUG79	6	30.9	45.5	305	164	189	7.5	62.9	4.3	9.2	0.0	0.8	0.8	14.5	56.2	0.63	1.74	5.46
06AUG79	7	06AUG79	7	31.5	44.5	307	164	190	7.5	63.0	4.4	8.8	0.0	0.8	0.8	14.8	95.3	0.59	1.72	5.54
06AUG79	8	06AUG79	8	31.1	44.2	308	164	190	7.5	63.0	4.4	8.5	0.0	0.8	0.8	15.0	94.6	0.56	1.72	5.70
06AUG79	9	06AUG79	9	21.6	26.1	307	167	190	7.6	63.0	4.5	8.0	0.0	0.8	0.8	15.3	94.5	0.53	1.70	5.62
06AUG79	10	06AUG79	10	24.1	40.8	203	193	224	13.0	55.1	7.8	8.6	4.8	0.1	0.7	10.5	146	0.82	1.68	76.71
06AUG79	11	06AUG79	11	24.8	36.4	169	207	220	22.1	40.3	12.5	9.1	0.9	0.5	0.5	14.6	224	0.62	1.78	26.41
06AUG79	12	06AUG79	12	20.1	32.9	169	211	217	20.1	38.8	16.9	7.9	0.0	1.4	0.5	14.4	258	0.54	1.19	12.47
06AUG79	13	06AUG79	13	20.7	27.5	169	211	213	16.6	40.6	20.3	6.8	0.0	1.4	0.5	13.7	277	0.50	0.82	14.49
06AUG79	14	06AUG79	14	22.4	34.0	169	216	219	13.5	49.7	17.4	5.2	0.0	1.2	0.6	12.4	233	0.42	0.77	14.75
06AUG79	15	06AUG79	15	25.9	26.9	168	224	227	11.0	57.9	14.3	3.9	0.0	1.0	0.7	11.3	190	0.34	0.77	14.04
06AUG79	16	06AUG79	16	25.7	26.5	168	232	234	9.2	63.8	12.1	3.0	0.0	0.9	0.8	10.2	159	0.29	0.76	13.76
06AUG79	17	06AUG79	17	25.7	25.1	168	241	242	8.2	66.9	10.9	2.6	0.0	0.9	0.8	9.7	143	0.26	0.75	12.70
06AUG79	18	06AUG79	18	25.7	28.7	168	250	252	7.8	67.5	10.7	2.5	0.0	0.9	0.8	9.8	139	0.26	0.73	12.36
06AUG79	19	06AUG79	19	30.3	27.8	168	262	262	7.4	68.1	10.5	2.7	0.0	0.9	0.8	9.7	136	0.28	0.70	11.48
06AUG79	20	06AUG79	20	30.7	25.1	168	284	286	7.3	68.6	9.7	2.9	0.0	0.9	0.8	9.8	129	0.30	0.75	11.12
06AUG79	21	06AUG79	21	32.5	43.0	168	299	298	7.6	66.9	9.2	3.9	0.0	0.9	0.8	10.8	128	0.36	0.83	10.15
06AUG79	22	06AUG79	22	32.9	56.2	169	298	291	8.9	64.5	6.0	6.7	0.0	0.8	0.8	12.4	109	0.54	1.47	7.75
06AUG79	23	06AUG79	23	31.5	62.8	169	298	274	10.7	61.9	5.0	8.3	0.0	0.7	0.8	12.7	110	0.66	2.16	7.42
07AUG79	0	07AUG79	0	32.9	62.7	169	297	257	12.4	59.7	4.9	9.3	0.0	0.7	0.7	12.3	118	0.76	2.56	6.64
07AUG79	1	07AUG79	1	31.7	61.2	169	297	241	13.6	58.1	5.1	9.4	0.0	0.8	0.7	12.3	124	0.77	2.68	6.04
07AUG79	2	07AUG79	2	30.8	57.5	169	295	228	14.1	58.0	5.0	8.6	0.0	0.9	0.7	12.6	123	0.68	2.81	5.80
07AUG79	3	07AUG79	3	40.9	37.1	200	260	218	14.2	58.6	5.0	7.5	0.0	0.8	0.7	13.1	119	0.57	2.84	6.09
07AUG79	4	07AUG79	4	31.3	51.0	168	290	213	13.7	59.9	5.1	6.1	0.0	0.8	0.7	13.7	114	0.44	2.68	6.20

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
07AUG79	5	07AUG79	5	31.9	48.7	168	288	209	13.1	61.0	5.1	5.3	0.0	0.8	0.7	14.0	109	0.38	2.58	6.27
07AUG79	6	07AUG79	6	31.2	46.9	168	287	206	12.4	62.0	4.8	4.9	0.0	0.8	0.8	14.4	103	0.34	2.61	5.95
07AUG79	7	07AUG79	7	31.8	46.0	168	287	205	11.6	62.6	4.4	5.0	0.0	0.8	0.8	14.9	96.6	0.33	2.65	5.50
07AUG79	8	07AUG79	8	30.1	46.7	168	287	205	11.3	62.6	4.2	5.2	0.0	0.8	0.8	15.2	94.1	0.34	2.69	5.08
07AUG79	9	07AUG79	9	40.6	53.0	170	286	212	10.9	62.2	3.6	6.4	0.0	0.7	0.8	15.5	91.2	0.41	2.99	5.31
07AUG79	10	07AUG79	10	38.6	60.4	171	286	216	12.1	58.4	3.6	10.2	0.0	0.7	0.7	14.3	107	0.71	3.36	5.03
07AUG79	11	07AUG79	11	37.1	62.2	171	286	216	13.3	56.1	4.2	11.8	0.0	0.7	0.7	13.2	121	0.90	3.21	5.67
07AUG79	12	07AUG79	12	36.4	61.6	171	285	214	13.9	55.4	4.7	11.9	0.0	0.7	0.7	12.8	128	0.93	2.98	6.28
07AUG79	13	07AUG79	13	36.1	59.0	171	285	211	13.8	55.9	4.8	10.9	0.0	0.8	0.7	13.0	127	0.84	2.86	6.32
07AUG79	14	07AUG79	14	37.3	56.0	170	284	210	13.4	58.1	4.9	8.0	0.0	0.8	0.7	14.0	117	0.57	2.73	6.03
07AUG79	15	07AUG79	15	39.8	55.6	170	284	211	12.0	60.4	4.6	6.1	0.0	0.9	0.7	15.3	103	0.40	2.64	5.36
07AUG79	16	07AUG79	16	39.8	57.3	170	284	213	11.0	61.4	4.2	5.5	0.0	0.8	0.8	16.3	94.3	0.34	2.64	5.19
07AUG79	17	07AUG79	17	39.5	58.7	170	283	214	11.0	60.4	4.0	6.9	0.0	0.9	0.7	16.1	96.4	0.43	2.76	4.31
07AUG79	18	07AUG79	18	39.6	60.0	170	283	213	11.1	59.1	3.9	8.8	0.0	0.9	0.7	15.3	103	0.57	2.84	4.20
07AUG79	19	07AUG79	19	39.7	61.7	169	282	213	11.4	58.0	4.0	10.8	0.0	0.9	0.7	14.2	110	0.76	2.89	4.39
07AUG79	20	07AUG79	20	39.4	62.0	170	282	213	12.0	56.9	4.2	12.1	0.0	0.9	0.7	13.2	118	0.92	2.88	4.75
07AUG79	21	07AUG79	21	39.4	62.8	170	282	213	12.6	55.9	4.7	12.6	0.0	0.9	0.7	12.6	127	0.99	2.71	5.19
07AUG79	22	07AUG79	22	39.6	63.5	170	281	214	13.2	55.2	5.1	12.8	0.0	0.9	0.7	12.2	133	1.05	2.60	5.49
07AUG79	23	07AUG79	23	39.4	63.8	170	281	213	13.6	54.5	5.4	13.0	0.0	1.0	0.7	11.9	139	1.09	2.51	5.61
08AUG79	0	08AUG79	0	39.4	63.6	170	280	213	14.0	53.9	5.7	13.0	0.0	1.0	0.7	11.7	143	1.11	2.45	5.68
08AUG79	1	08AUG79	1	39.6	63.8	170	280	213	14.1	53.6	5.9	13.2	0.0	1.0	0.7	11.4	146	1.16	2.37	5.67
08AUG79	2	08AUG79	2	39.8	63.7	170	280	212	14.4	53.2	6.1	13.4	0.0	1.1	0.6	11.2	149	1.19	2.38	5.45
08AUG79	3	08AUG79	3	39.9	63.4	170	279	212	14.5	53.2	6.2	13.2	0.0	1.1	0.7	11.2	149	1.18	2.35	5.49
08AUG79	4	08AUG79	4	13.3	73.3	160	159	144												

09:00 *INCREASE AIR FLOW TO 40 SCFM

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

8

DATE	HR	DATE	HR	INFL	OUTFL	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
08AUG79	5	08AUG79	5	0.0	94.1	102	98	92												
			05:03	**SHUT OFF COMPRESSOR. REDUCED PRESSURE TO 0 PSIG TO REMOVE WIRE FROM PI-2 AND PI-3																
08AUG79	6	08AUG79	6	0.0	105.9	49	45	36												
08AUG79	7	08AUG79	7	0.0	39.2	17	15	15												
08AUG79	8	08AUG79	8	0.0	0.0	16	15	15	23.4	13.8	32.9	5.8	0.0	2.4	0.3	21.5	420	0.27	0.71	13.92
08AUG79	9	08AUG79	9	0.0	0.0	17	15	15	24.8	12.2	34.0	5.8	0.0	2.1	0.3	20.8	435	0.28	0.73	16.40
08AUG79	10	08AUG79	10	59.1	4.6	19	88	15												
			10:03	**STARTED COMPRESSORS. INJECTION IN PI-3 AND PRODUCTION OUT OF PI-1, PI-2 SHUT-IN AFTER PRESSURIZING IT FIRST TO 150 PSIG																
08AUG79	11	08AUG79	11	38.8	1.9	33	168	42												
						(P)	(C)	(I)												
08AUG79	12	08AUG79	12	40.0	16.6	68	167	99												
08AUG79	13	08AUG79	13	39.9	24.6	115	165	133	9.7	52.6	22.3	3.1	0.0	0.1	0.7	11.6	262	0.27	0.43	213.72
08AUG79	14	08AUG79	14	40.7	45.1	142	165	154	7.5	66.6	12.2	2.1	0.0	0.3	0.8	10.5	152	0.19	0.61	46.77
			14:18	POWER FAILURE 14.20 POWER FAILURE 14.24 POWER FAILURE 14.25 POWER FAILURE																
08AUG79	15	08AUG79	15	37.2	56.0	165	170	195	6.3	70.5	2.0	7.4	0.0	0.4	0.8	12.6	63.0	0.58	3.22	4.38
08AUG79	16	08AUG79	16	42.0	52.9	169	172	201	7.7	67.0	2.3	8.7	0.0	0.6	0.8	13.0	74.6	0.67	3.38	4.09
08AUG79	17	08AUG79	17	41.9	55.0	169	180	202	8.7	64.7	2.6	9.3	0.0	0.6	0.8	13.2	83.5	0.71	3.35	4.07
08AUG79	18	08AUG79	18	41.9	56.0	170	187	203	9.1	64.3	2.7	8.8	0.0	0.7	0.8	13.5	84.4	0.65	3.34	3.98
08AUG79	19	08AUG79	19	60.8	81.3	168	194	218	9.5	63.7	2.9	8.7	0.0	0.7	0.8	13.7	86.4	0.63	3.29	4.02
			19:10	*INCREASE AIR FLOW TO 60 SCFM																
08AUG79	20	08AUG79	20	61.5	84.5	168	205	235	10.0	62.6	2.8	10.1	0.0	0.7	0.8	13.0	91.9	0.78	3.58	3.83
08AUG79	21	08AUG79	21	61.8	91.8	168	217	244	10.7	60.5	3.2	12.3	0.0	0.7	0.7	11.9	105	1.03	3.38	4.28
08AUG79	22	08AUG79	22	62.8	97.3	168	229	249	12.0	58.1	4.1	13.4	0.0	0.8	0.7	10.9	122	1.23	2.90	5.03
08AUG79	23	08AUG79	23	61.9	101.9	168	239	254	13.5	55.6	5.1	14.0	0.0	0.9	0.7	10.2	139	1.38	2.63	5.58
09AUG79	0	09AUG79	0	61.4	104.0	168	246	257	14.6	53.8	5.9	14.4	0.0	1.0	0.7	9.7	151	1.48	2.47	5.92
09AUG79	1	09AUG79	1	61.6	104.7	168	252	260	14.9	53.3	6.3	14.4	0.0	1.0	0.6	9.5	156	1.51	2.37	6.10
09AUG79	2	09AUG79	2	63.1	105.9	168	255	263	14.8	53.2	6.4	14.3	0.0	1.1	0.6	9.6	157	1.49	2.31	6.09
09AUG79	3	09AUG79	3	63.2	106.7	168	258	265	14.6	53.0	6.6	14.3	0.0	1.1	0.6	9.7	158	1.47	2.21	6.11
09AUG79	4	09AUG79	4	62.3	105.7	168	260	267	14.4	53.1	6.8	14.1	0.0	1.1	0.6	9.8	159	1.45	2.12	6.15

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
09AUG79	5	09AUG79	5	63.2	104.3	168	261	267	14.0	53.4	6.9	14.0	0.0	1.1	0.7	9.9	158	1.42	2.03	6.05
09AUG79	6	09AUG79	6	63.0	103.7	168	262	268	13.6	53.8	6.9	14.0	0.0	1.1	0.7	9.9	157	1.41	1.96	6.12
09AUG79	7	09AUG79	7	61.3	102.7	168	263	269	13.4	54.0	7.2	14.0	0.0	0.8	0.7	9.9	159	1.41	1.88	9.17
09AUG79	8	09AUG79	8	59.4	95.6	139	264	260	13.7	53.2	7.4	13.9	0.0	1.1	0.7	10.1	161	1.37	1.85	6.74
09AUG79	9	09AUG79	08:06	*INCREASE AIR FLOW TO 80 SCFM						08:10	*GENERATOR FAILURE. REDUCE FLOW TO 35 SCFM						174	1.33	1.76	6.68
			9	32.9	78.5	169	263	237	14.7	51.1	8.4	13.7	0.0	1.3	0.6	10.3				
09AUG79	10	09AUG79	10	26.3	62.4	169	263	218	16.4	48.9	9.5	12.8	0.0	1.4	0.6	10.4	187	1.22	1.72	6.85
09AUG79	11	09AUG79	11	25.8	60.0	157	262	213	17.5	47.6	10.3	11.7	0.0	1.5	0.6	10.8	196	1.08	1.65	6.95
09AUG79	12	09AUG79	11:38	POWER FAILURE																
			12	34.6	47.2	169	261	218	17.5	48.5	10.2	10.4	0.0	1.5	0.6	11.3	190	0.93	1.71	6.77
09AUG79	13	09AUG79	12:30	DRAINED TAR KNOCKOUT POT. 2 GALLON LIQUOR COLLECTED																
			13	36.8	59.3	169	261	221	16.6	50.6	9.4	9.7	0.0	1.5	0.6	11.6	177	0.83	1.76	6.48
09AUG79	14	09AUG79	13:57	POWER FAILURE																
			14	76.6	77.7	169	260	269	14.3	54.7	7.7	9.1	0.0	1.3	0.7	12.3	151	0.74	1.85	5.58
09AUG79	15	09AUG79	14:00	*INCREASE AIR FLOW TO 80 SCFM																
			15	80.3	101.7	169	263	286	10.6	60.2	5.2	9.8	0.0	1.0	0.7	12.5	116	0.79	2.06	5.17
09AUG79	16	09AUG79	16	80.8	111.9	169	273	298	9.6	60.2	4.7	12.0	0.0	0.9	0.7	11.9	116	1.01	2.05	5.18
09AUG79	17	09AUG79	17	79.9	117.3	167	284	306	10.5	58.2	5.5	12.9	0.0	1.0	0.7	11.2	129	1.15	1.92	5.50
09AUG79	18	09AUG79	18	80.0	120.4	169	293	311	11.3	56.5	6.1	13.6	0.0	1.1	0.8	10.6	140	1.29	1.83	5.77
09AUG79	19	09AUG79	19	80.1	122.3	169	301	315	11.8	55.2	6.7	13.8	0.0	1.1	1.2	10.2	148	1.35	1.76	6.10
09AUG79	20	09AUG79	20	79.4	123.4	166	307	319	12.1	55.0	7.0	13.9	0.0	1.1	0.8	10.1	153	1.38	1.73	6.22
09AUG79	21	09AUG79	21	73.0	124.2	169	313	324	12.4	54.4	7.5	14.0	0.0	1.1	0.7	9.9	158	1.42	1.66	6.71
09AUG79	22	09AUG79	22	62.5	116.8	168	317	314	12.6	53.9	7.8	14.0	0.0	1.2	0.7	9.9	162	1.42	1.62	6.69
09AUG79	23	09AUG79	22:02	*REDUCE AIR FLOW TO 60 SCFM																
			23	58.8	100.1	175	320	320	13.8	51.9	8.7	13.6	0.0	1.3	0.6	10.0	174	1.36	1.58	6.64
10AUG79	0	10AUG79	0	62.3	103.1	168	316	303	14.0	51.9	8.7	13.1	0.0	1.3	0.6	10.2	173	1.28	1.61	6.51
10AUG79	1	10AUG79	1	62.4	101.6	168	315	305	13.7	52.7	8.4	12.7	0.0	1.3	0.7	10.6	168	1.20	1.63	6.39
10AUG79	2	10AUG79	2	62.3	100.7	168	314	308	13.3	53.2	8.2	12.4	0.0	1.3	0.7	11.0	163	1.13	1.63	6.29
10AUG79	3	10AUG79	3	63.0	99.1	168	313	309	13.1	53.6	8.0	12.0	0.0	1.3	0.7	11.3	160	1.06	1.64	6.15
10AUG79	4	10AUG79	4	62.3	98.4	168	312	311	12.7	54.2	7.7	11.9	0.0	1.3	0.7	11.5	155	1.04	1.65	6.06

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
10AUG79	5	10AUG79	5	62.3	97.2	168	311	312	12.5	54.5	7.6	12.0	0.0	1.2	0.7	11.5	153	1.04	1.66	6.07
10AUG79	6	10AUG79	6	42.5	86.9	168	311	294	12.4	54.8	7.5	11.8	0.0	1.2	0.7	11.7	151	1.01	1.66	6.06
10AUG79	7	10AUG79	7	39.1	74.0	168	309	281	13.9	51.7	8.7	11.1	0.0	1.4	0.6	12.4	167	0.90	1.60	6.15
10AUG79	8	10AUG79	8	39.8	68.8	168	308	276	15.0	50.6	9.4	10.1	0.0	1.6	0.6	12.7	174	0.79	1.59	6.07
10AUG79	9	10AUG79	9	38.2	65.9	168	307	274	14.8	51.4	9.3	9.5	0.0	1.5	0.6	12.8	170	0.75	1.59	6.03
10AUG79	10	10AUG79	10	37.6	62.9	169	306	272	14.5	52.2	9.1	9.1	0.0	1.5	0.6	12.9	166	0.71	1.59	5.97
10AUG79	11	10AUG79	11	37.6	61.3	169	305	271	14.2	52.9	8.8	8.7	0.0	1.5	0.7	13.2	161	0.66	1.61	5.89
10AUG79	12	10AUG79	12	37.5	59.8	169	304	271	13.9	53.8	8.5	8.3	0.0	1.5	0.7	13.3	156	0.63	1.63	5.80
10AUG79	13	10AUG79	13	37.4	58.9	169	303	272	13.5	54.7	8.2	8.0	0.0	1.4	0.7	13.5	150	0.59	1.64	5.73
10AUG79	14	10AUG79	14	37.3	58.3	169	303	272	13.3	55.2	8.1	7.8	0.0	1.4	0.7	13.7	147	0.57	1.65	5.70
10AUG79	15	10AUG79	15	40.3	60.8	169	301	278	12.6	56.8	7.4	7.3	0.0	1.3	0.7	13.8	137	0.53	1.69	5.54
10AUG79	16	10AUG79	16	21.7	102.3	205	300	190	14.2	55.5	8.5	6.0	5.6	0.3	0.7	9.6	149	0.63	1.67	24.65
10AUG79	17	10AUG79	17	21.7	63.1	221	299	152	27.1	33.4	17.9	7.6	0.6	0.6	0.4	12.9	289	0.60	1.52	30.88
10AUG79	18	10AUG79	18	21.2	39.1	214	298	152	24.9	33.9	19.2	7.1	0.0	1.0	0.4	13.5	293	0.52	1.30	18.52
10AUG79	19	10AUG79	19	20.8	33.0	212	297	152	21.8	38.7	18.6	6.0	0.0	1.1	0.5	13.4	274	0.45	1.18	17.36
10AUG79	20	10AUG79	20	20.7	30.3	213	296	152	18.6	45.5	16.6	4.7	0.0	1.0	0.6	13.0	240	0.36	1.12	16.37
10AUG79	21	10AUG79	21	20.5	28.6	215	295	152	15.7	50.4	15.5	3.8	0.0	1.0	0.6	13.0	216	0.29	1.02	16.26
10AUG79	22	10AUG79	22	21.3	25.2	218	294	151	13.6	54.0	14.6	3.2	0.0	0.9	0.7	13.0	195	0.25	0.94	16.33
10AUG79	23	10AUG79	23	20.2	25.0	221	293	152	12.1	56.8	13.7	2.8	0.0	0.8	0.7	13.2	183	0.21	0.89	17.05
11AUG79	0	11AUG79	0	21.1	26.2	224	292	151	10.9	58.9	12.8	2.4	0.0	0.7	0.7	13.4	170	0.18	0.85	17.99
11AUG79	1	11AUG79	1	20.2	27.1	226	291	151	9.9	60.3	12.4	2.2	0.0	0.7	0.7	13.8	162	0.16	0.80	18.66
11AUG79	2	11AUG79	2	21.0	24.2	228	290	151	8.9	61.5	12.0	2.0	0.0	0.7	0.7	14.2	154	0.14	0.74	17.99
11AUG79	3	11AUG79	3	19.8	24.7	231	290	151	8.2	62.6	11.5	1.9	0.0	0.7	0.8	14.4	146	0.13	0.72	17.03
11AUG79	4	11AUG79	4	20.9	21.2	234	289	151	7.5	63.8	10.9	1.7	0.0	0.7	0.8	14.6	138	0.12	0.69	16.12

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
11AUG79	5	11AUG79	5	20.4	21.3	237	288	152	7.0	64.9	10.3	1.6	0.0	0.7	0.8	14.8	130	0.11	0.68	15.80
11AUG79	6	11AUG79	6	20.9	20.8	240	288	151	6.5	65.9	9.7	1.6	0.0	0.6	0.8	14.9	122	0.11	0.67	15.56
11AUG79	7	11AUG79	7	20.2	18.5	245	287	151	6.0	66.7	9.4	1.4	0.0	0.6	0.8	15.0	117	0.10	0.64	15.05
11AUG79	8	11AUG79	8	20.4	19.3	251	286	151	5.6	67.8	8.8	1.4	0.0	0.7	0.8	14.9	109	0.09	0.63	13.20
11AUG79	9	11AUG79	9	20.7	45.6	257	286	152	5.2	68.8	8.2	1.3	0.0	0.7	0.8	15.0	103	0.09	0.63	12.38
11AUG79	10	11AUG79	10	20.6	22.5	229	285	151	4.6	70.3	7.3	1.2	0.0	0.7	0.8	15.1	90.9	0.08	0.64	11.11
11AUG79	11	11AUG79	11	20.4	22.2	250	285	151	4.2	71.5	6.6	1.0	0.0	0.6	0.9	15.2	82.2	0.07	0.64	10.50
11AUG79	12	11AUG79	12	29.1	22.0	250	284	152	3.9	72.4	6.2	1.0	0.0	0.6	0.9	15.2	76.6	0.06	0.63	9.88
11AUG79	13	11AUG79	12:25 13	35.4	23.1	265	284	152	3.5	73.0	5.7	0.9	0.0	0.6	0.9	15.3	71.4	0.06	0.62	9.62
11AUG79	14	11AUG79	14	37.6	27.5	290	283	159	3.3	73.8	5.2	0.9	0.0	0.6	0.9	15.4	64.8	0.06	0.63	8.76
11AUG79	15	11AUG79	14:35 15	35.5	24.2	315	286	175	3.3	74.6	4.5	0.8	0.0	0.6	0.9	15.4	57.7	0.05	0.73	7.72
11AUG79	16	11AUG79	16	36.5	28.2	350	294	175	2.8	76.0	3.7	0.6	0.0	0.5	0.9	15.5	47.5	0.04	0.77	7.29
11AUG79	17	11AUG79	17	37.9	26.3	365	307	175	2.4	77.0	3.1	0.5	0.0	0.4	0.9	15.6	40.6	0.03	0.77	7.32
11AUG79	18	11AUG79	18	36.1	21.1	385	324	175	2.2	76.8	3.1	0.6	0.0	0.4	0.9	16.1	39.2	0.04	0.72	7.84
11AUG79	19	11AUG79	19	37.2	23.7	400	342	176	2.1	77.0	2.9	0.5	0.0	0.4	0.9	16.2	36.9	0.03	0.74	7.94
11AUG79	20	11AUG79	20	37.3	88.3	395	280	188	1.9	77.1	2.7	0.6	0.0	0.3	0.9	16.4	34.5	0.04	0.72	7.81
11AUG79	21	11AUG79	20:30 21	37.4	125.3	355	189	194	1.6	77.9	1.0	0.9	0.7	0.2	0.9	17.5	17.8	0.05	1.60	4.35
11AUG79	22	11AUG79				(I)	(P)	(C)												
11AUG79	22	11AUG79	22	34.8	69.1	288	189	195	2.1	73.4	2.7	1.8	0.7	0.5	0.9	18.7	39.2	0.09	0.78	5.40
11AUG79	23	11AUG79	23	35.8	54.9	295	189	199	3.1	70.8	2.3	3.1	0.0	0.9	0.7	19.1	42.3	0.16	1.36	2.47
12AUG79	0	12AUG79	0	35.5	69.5	285	190	200	4.0	69.7	2.0	3.8	0.0	0.9	0.8	18.8	44.5	0.20	2.05	2.17
12AUG79	1	12AUG79	00:59 1	36.0	64.4	275	189	176	4.1	70.9	1.8	4.1	1.0	0.9	0.8	17.3	43.9	0.23	2.28	2.05
12AUG79	2	12AUG79				(I)	(C)	(P)												
12AUG79	2	12AUG79	2	36.6	41.7	275	192	176	1.8	77.1	3.0	0.7	1.0	0.9	0.3	15.9	37.8	0.04	0.60	3.25
12AUG79	3	12AUG79	3	35.4	43.2	275	199	176	4.5	68.4	3.1	3.8	0.0	0.9	1.1	18.2	57.4	0.21	1.43	3.46
12AUG79	4	12AUG79	4	34.7	43.3	275	204	176	4.3	69.5	2.3	3.8	0.0	0.9	0.9	18.3	48.6	0.21	1.86	2.53

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

12

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
12AUG79	5	12AUG79	5	35.7	43.2	275	210	176	4.7	69.0	2.3	4.0	0.0	0.9	0.8	18.2	50.8	0.22	2.05	2.55
12AUG79	6	12AUG79	6	36.7	43.3	285	216	176	4.9	68.7	2.3	4.4	0.0	0.9	0.8	18.0	52.5	0.24	2.14	2.57
12AUG79	7	12AUG79	7	37.5	41.4	285	224	176	5.2	68.4	2.3	4.6	0.0	0.8	0.8	17.8	54.5	0.26	2.25	2.82
12AUG79	8	12AUG79	8	32.5	46.4	290	228	177	5.5	67.9	2.4	4.9	0.0	0.8	0.8	17.6	57.4	0.28	2.28	2.94
12AUG79	9	12AUG79	9	37.1	51.0	275	229	176	5.8	67.4	2.6	5.1	0.0	0.9	0.8	17.4	60.5	0.29	2.25	3.03
12AUG79	10	12AUG79	10	34.5	64.3	280	229	176	6.1	66.7	2.8	5.4	0.0	0.9	0.8	17.3	64.6	0.31	2.19	3.25
12AUG79	11	12AUG79	11	37.5	55.8	270	228	176	6.4	65.8	3.1	5.7	0.0	0.9	0.8	17.4	69.0	0.33	2.08	3.50
12AUG79	12	12AUG79	12	37.4	53.2	267	228	176	6.6	65.4	3.1	6.0	0.0	0.9	0.8	17.3	71.1	0.35	2.11	3.52
12AUG79	13	12AUG79	13	37.1	52.9	267	228	176	6.8	65.1	3.2	6.2	0.0	0.9	0.8	17.1	72.5	0.36	2.14	3.65
12AUG79	14	12AUG79	14	37.0	52.4	267	228	175	7.0	64.5	3.3	6.4	0.0	0.9	0.8	17.1	75.6	0.37	2.12	3.83
12AUG79	15	12AUG79	15	36.1	55.2	270	228	176	7.2	64.5	3.4	6.5	0.0	0.7	0.8	17.1	76.9	0.38	2.13	5.09
12AUG79	16	12AUG79	16	34.2	52.3	270	227	176	7.3	64.1	3.5	6.7	0.0	0.8	0.8	16.9	79.0	0.39	2.10	4.29
12AUG79	17	12AUG79	17	35.9	53.5	270	227	176												
12AUG79	18	12AUG79	18	37.7	54.7	275	227	176												
12AUG79	19	12AUG79	19	38.1	55.3	278	228	176												
12AUG79	20	12AUG79	20	38.6	54.1	280	229	176	8.2	63.5	4.0	7.1	0.0	0.6	0.8	15.7	89.0	0.45	2.05	7.19
12AUG79	21	12AUG79	21	38.1	54.2	283	231	177	8.3	63.3	4.1	7.2	0.0	0.8	0.8	15.6	90.0	0.46	2.01	5.08
12AUG79	22	12AUG79	22	37.1	55.3	285	233	177	8.4	63.1	4.2	7.2	0.0	0.9	0.8	15.4	91.4	0.46	2.01	4.65
12AUG79	23	12AUG79	23	38.4	54.4	285	234	177	8.5	62.9	4.3	7.1	0.0	0.9	0.8	15.5	92.4	0.46	2.00	4.64
13AUG79	0	13AUG79	0	38.5	54.6	295	235	177	8.7	62.7	4.4	6.9	0.0	0.9	0.8	15.7	93.9	0.44	1.97	5.19
13AUG79	1	13AUG79	1	38.5	59.2	300	237	177	8.8	62.7	4.4	6.5	0.0	0.9	0.8	16.0	92.8	0.41	1.98	4.80
13AUG79	2	13AUG79	2	38.5	69.8	300	238	143	8.4	62.0	4.6	5.7	0.0	1.0	0.8	17.6	90.5	0.32	1.85	4.76
13AUG79	3	13AUG79	3	38.3	57.0	295	237	144	8.2	62.9	4.5	5.6	0.0	1.0	0.8	17.0	88.8	0.33	1.83	4.62
13AUG79	4	13AUG79	4	38.3	55.2	290	237	143	8.1	63.7	4.4	5.6	0.0	1.0	0.8	16.4	87.3	0.34	1.85	4.59

01:55 *REDUCED BACK PRESSURE

196

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

13

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
13AUG79	5	13AUG79	5	38.4	54.8	285	237	143	8.1	64.1	4.4	5.7	0.0	0.9	0.8	16.0	88.0	0.35	1.83	4.74
13AUG79	6	13AUG79	6	37.6	54.8	285	237	144	8.1	64.1	4.5	5.8	0.0	0.9	0.8	15.8	88.8	0.36	1.82	4.79
13AUG79	7	13AUG79	7	37.8	54.5	285	236	144	8.2	63.9	4.5	5.9	0.0	0.9	0.8	15.7	90.2	0.38	1.81	4.90
13AUG79	8	13AUG79	8	37.5	55.5	295	236	143	8.4	63.7	4.6	6.0	0.0	0.9	0.8	15.6	91.9	0.39	1.82	4.96
13AUG79	9	13AUG79	9	37.9	56.7	300	236	142	8.5	63.5	4.7	6.2	0.0	0.9	0.8	15.4	93.5	0.40	1.82	5.03
13AUG79	10	13AUG79	10	48.5	62.6	305	236	142	8.6	63.4	4.7	6.3	0.0	0.9	0.8	15.3	94.8	0.42	1.81	5.09
13AUG79	11	13AUG79	11	51.2	68.8	325	236	142	8.6	63.6	4.6	6.6	0.0	0.9	0.8	14.9	94.3	0.44	1.86	4.97
13AUG79	12	13AUG79	12	50.3	72.4	335	236	142	8.1	64.1	4.4	7.0	0.0	0.9	0.8	14.7	91.7	0.48	1.86	4.70
13AUG79	13	13AUG79	13	50.1	74.0	345	236	142	8.2	63.4	4.5	7.8	0.0	0.9	0.8	14.4	96.2	0.54	1.81	5.05
13AUG79	14	13AUG79	14	49.6	76.1	346	236	142	8.6	62.3	5.0	8.4	0.0	0.9	0.8	14.1	104	0.60	1.72	5.64
13AUG79	15	13AUG79	15	29.3	73.9	355	236	142	9.1	61.0	5.6	8.8	0.0	0.9	0.7	13.8	113	0.64	1.61	6.23
13AUG79	16	13AUG79	16	21.8	57.8	329	235	141	9.7	59.0	6.6	9.1	0.0	1.0	0.7	14.0	126	0.65	1.46	6.97
13AUG79	17	13AUG79	17	21.5	50.3	315	235	142	11.2	54.8	9.0	9.3	0.0	1.0	0.7	14.1	154	0.66	1.24	9.44
13AUG79	18	13AUG79	18	22.6	47.5	310	235	142	13.0	50.2	11.9	9.1	0.0	1.1	0.6	14.1	189	0.65	1.09	11.25
13AUG79	19	13AUG79	19	22.4	45.3	308	235	142	14.0	48.3	13.4	8.6	0.0	1.2	0.6	13.9	206	0.62	1.04	11.28
13AUG79	20	13AUG79	20	22.3	43.4	306	235	142	14.4	47.6	14.2	8.1	0.0	1.3	0.6	13.7	213	0.59	1.02	10.65
13AUG79	21	13AUG79	21	22.6	42.2	308	235	142	14.5	48.0	14.3	7.5	0.0	1.4	0.6	13.7	212	0.55	1.02	9.93
13AUG79	22	13AUG79	22	22.5	40.8	308	235	142	14.2	49.1	13.9	7.0	0.0	1.6	0.6	13.7	205	0.51	1.02	8.86
13AUG79	23	13AUG79	23	22.7	39.2	308	236	142	14.0	50.0	13.4	6.6	0.0	1.6	0.6	13.8	199	0.48	1.04	8.40
14AUG79	0	14AUG79	0	22.5	38.1	315	237	142	13.9	50.7	13.1	6.2	0.0	1.5	0.6	13.8	195	0.45	1.06	8.45
14AUG79	1	14AUG79	1	22.8	37.1	315	239	142	13.3	52.4	12.3	5.9	0.0	1.6	0.6	14.0	183	0.42	1.08	7.65
14AUG79	2	14AUG79	2	22.8	36.4	315	240	142	13.1	53.0	11.9	5.6	0.0	1.6	0.7	14.1	178	0.40	1.10	7.32
14AUG79	3	14AUG79	3	22.7	35.8	315	241	142	12.9	54.0	11.4	5.2	0.0	1.6	0.7	14.3	171	0.36	1.13	7.22
14AUG79	4	14AUG79	4	22.5	35.1	315	242	142	12.6	54.9	10.9	5.0	0.0	1.6	0.7	14.4	165	0.35	1.15	6.75

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

14

DATE	HR	DATE	HR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
14AUG79	5	14AUG79	5	22.8	34.7	315	244	142	12.3	55.8	10.6	4.6	0.0	1.5	0.7	14.5	159	0.31	1.17	6.92
14AUG79	6	14AUG79	6	23.5	34.3	315	245	142	12.0	56.5	10.1	4.5	0.0	1.6	0.7	14.6	153	0.31	1.18	6.36
14AUG79	7	14AUG79	7	5.7	7.5	315	258	161	11.7	57.0	9.8	4.4	0.0	1.6	0.7	14.7	149	0.30	1.20	6.08
14AUG79	8	14AUG79	8	16.5	42.5	163	271	152	11.5	57.9	9.6	4.3	0.0	1.1	0.7	14.8	146	0.29	1.20	8.53
14AUG79	9	14AUG79	9	21.8	28.3	315	271	152	11.4	58.4	9.6	4.0	0.0	1.4	0.7	14.4	145	0.28	1.15	6.68
14AUG79	10	14AUG79	10	22.5	30.2	315	271	151	12.0	54.3	11.9	4.2	0.0	1.6	0.7	15.3	171	0.28	1.00	7.60
14AUG79	11	14AUG79	11	32.1	32.2	324	270	152	12.2	54.4	11.8	3.8	0.0	1.6	0.7	15.6	168	0.24	1.03	7.29
14AUG79	12	14AUG79	12	39.5	39.7	340	270	152	11.3	58.1	9.9	3.3	0.0	1.6	0.7	15.2	145	0.22	1.14	6.30
14AUG79	13	14AUG79	13	39.1	46.5	365	270	152	10.1	61.6	8.1	2.9	0.0	1.5	0.7	15.1	122	0.19	1.25	5.20
14AUG79	14	14AUG79	14	35.1	38.4	375	275	152	8.4	65.6	5.8	2.6	0.0	1.5	0.8	15.2	93.1	0.17	1.44	3.87
14AUG79	15	14AUG79	15	38.9	35.3	377	292	152	7.5	67.2	5.0	2.6	0.0	1.5	0.8	15.4	81.9	0.17	1.51	3.36
14AUG79	16	14AUG79	16	39.1	29.6	391	314	152	7.2	68.5	4.7	2.9	0.0	1.3	0.8	14.6	78.7	0.20	1.54	3.51
14AUG79	17	14AUG79	17	39.3	36.0	405	333	152	7.1	68.4	4.5	3.2	0.0	1.3	0.8	14.8	77.0	0.22	1.59	3.56
14AUG79	18	14AUG79	18	39.6	45.2	420	345	152	7.1	68.0	4.3	3.6	0.0	1.1	0.8	15.0	76.7	0.24	1.67	3.72
14AUG79	19	14AUG79	19	40.1	22.7	430	366	152	7.2	67.1	4.2	4.0	0.0	1.1	0.8	15.5	77.8	0.25	1.70	3.75
14AUG79	20	14AUG79	20	40.1	28.0	449	397	152	7.3	66.3	4.3	4.1	0.0	1.1	0.8	16.1	79.1	0.26	1.65	3.87
14AUG79	21	14AUG79	21	40.3	100.4	473	417	154	7.6	66.8	4.5	4.3	0.0	0.9	0.8	15.0	82.8	0.29	1.68	5.01
14AUG79	22	14AUG79	22	34.5	117.0	485	406	153	8.2	63.4	5.3	5.0	0.0	1.0	0.8	16.3	94.5	0.30	1.56	5.16
14AUG79	23	14AUG79	23	39.3	81.0	447	380	153	8.6	62.5	5.6	5.4	0.0	1.1	0.8	16.1	101	0.33	1.53	5.35
15AUG79	0	15AUG79	0	40.2	74.1	445	356	153	9.0	61.8	5.9	5.9	0.0	1.1	0.7	15.5	106	0.38	1.53	5.40
15AUG79	1	15AUG79	1	40.0	70.8	435	337	153	9.6	60.9	6.2	6.2	0.0	1.1	0.7	15.2	112	0.41	1.54	5.47
15AUG79	2	15AUG79	2	40.2	68.6	425	324	153	9.9	60.5	6.5	6.5	0.0	1.0	0.7	14.9	117	0.43	1.53	6.19
15AUG79	3	15AUG79	3	40.5	67.5	415	318	153	10.2	59.6	7.0	6.7	0.0	1.1	0.7	14.7	123	0.46	1.46	6.26
15AUG79	4	15AUG79	4	40.1	66.5	415	314	153	10.4	58.9	7.3	6.9	0.0	1.2	0.7	14.5	128	0.48	1.42	6.23

07:05 **SYSTEM SHUT-IN TO REPAIR GENERATOR

08:05 **SYSTEM BACK ON LINE

11:30 *INCREASE AIR FLOW TO 40 SCFM

21:55 LARGE PRODUCTION FLOW INCREASE WAS OBSERVED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

15

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
15AUG79	5	15AUG79	5	40.0	66.4	415	312	153	10.7	58.5	7.6	7.0	0.0	1.1	0.7	14.4	132	0.49	1.40	6.79
15AUG79	6	15AUG79	6	40.1	66.4	415	312	153	10.8	57.9	8.0	7.2	0.0	1.2	0.7	14.2	137	0.51	1.34	6.97
15AUG79	7	15AUG79	7	39.8	75.1	415	313	153	11.0	57.2	8.4	7.4	0.0	1.3	0.7	14.1	142	0.52	1.31	6.61
15AUG79	8	15AUG79	8	39.6	66.5	425	314	153	11.0	57.0	8.6	7.4	0.0	1.3	0.7	14.0	145	0.53	1.27	6.67
15AUG79	9	15AUG79	9	30.1	51.6	430	315	152	11.0	56.8	9.0	7.5	0.0	1.1	0.7	13.9	149	0.54	1.22	8.10
15AUG79	10	15AUG79	10	0.0	11.2	315	308	152	11.0	56.4	9.2	7.6	0.0	1.3	0.7	13.9	150	0.55	1.20	7.20
15AUG79	11	15AUG79	11	0.0	128.0	282	205	177	10.0	57.2	9.7	5.7	2.2	0.9	0.7	14.2	147	0.40	1.03	10.39
15AUG79	12	15AUG79	12	0.0	44.5	290	164	170	14.9	36.6	18.6	5.3	0.4	2.6	0.5	20.0	249	0.27	0.80	7.10
15AUG79	13	15AUG79	13	15.1	42.5	287	164	152	20.1	19.4	29.6	7.0	0.0	3.8	0.3	19.9	381	0.35	0.68	7.89
15AUG79	14	15AUG79	14	20.5	37.7	277	164	159	20.3	18.7	30.6	7.8	0.0	3.7	0.3	18.7	394	0.42	0.67	8.26
15AUG79	15	15AUG79	15	21.2	35.2	267	164	162	20.2	24.0	29.8	7.4	0.0	3.2	0.3	15.0	384	0.49	0.68	9.22
15AUG79	16	15AUG79	16	21.5	35.7	257	164	165	17.0	39.5	21.5	5.1	0.0	2.6	0.5	13.7	284	0.37	0.79	8.15
15AUG79	17	15AUG79	17	20.1	33.4	248	164	166	13.7	51.3	15.7	3.7	0.0	2.0	0.6	12.9	212	0.29	0.87	7.68
15AUG79	18	15AUG79	18	20.9	29.6	238	163	168	11.4	57.0	12.8	3.2	0.0	1.7	0.7	13.2	173	0.24	0.89	7.36
15AUG79	19	15AUG79	19	21.0	31.0	229	163	170	10.3	59.5	11.5	2.8	0.0	1.6	0.7	13.5	156	0.21	0.90	7.28
15AUG79	20	15AUG79	20	20.4	30.0	221	163	171	9.7	61.0	10.5	2.6	0.0	1.5	0.8	13.9	144	0.19	0.93	6.98
15AUG79	21	15AUG79	21	20.7	28.9	214	163	173	9.2	62.0	9.7	2.4	0.0	1.5	0.8	14.4	134	0.17	0.95	6.57
15AUG79	22	15AUG79	22	21.0	28.4	207	163	175	9.0	62.1	9.3	2.4	0.0	1.5	0.8	14.9	129	0.16	0.98	6.24
15AUG79	23	15AUG79	23	20.9	26.9	201	163	176	9.0	62.7	8.6	2.3	0.0	1.5	0.8	15.2	121	0.15	1.05	5.73
16AUG79	0	16AUG79	0	29.3	29.5	195	164	179	8.8	63.2	8.1	2.3	0.0	1.5	0.8	15.3	116	0.15	1.08	5.45
16AUG79	1	16AUG79	1	28.3	36.0	190	164	182	8.3	64.2	7.5	2.3	0.0	1.5	0.8	15.4	109	0.15	1.11	5.09
16AUG79	2	16AUG79	2	28.0	37.9	187	164	183	7.0	67.2	5.7	2.2	0.0	1.3	0.8	15.7	86.2	0.14	1.22	4.27
16AUG79	3	16AUG79	3	33.0	37.5	184	164	185	6.3	68.2	4.7	2.4	0.0	1.2	0.8	16.4	74.9	0.15	1.33	3.98
16AUG79	4	16AUG79	4	35.0	40.7	181	164	188	6.4	67.6	4.6	2.6	0.0	1.2	0.8	16.8	74.8	0.16	1.37	4.04

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

16

DATE	HR	DATE	HR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
16AUG79	5	16AUG79	5	34.7	42.7	179	164	190	6.1	68.1	4.2	2.8	0.0	1.1	0.8	16.8	70.4	0.17	1.46	3.70
16AUG79	6	16AUG79	6	32.5	43.2	177	164	192	5.9	68.3	3.8	3.2	0.0	1.1	0.8	16.8	67.0	0.19	1.55	3.47
16AUG79	7	16AUG79	7	32.9	43.5	116	164	193	6.0	67.8	3.7	3.6	0.0	1.1	0.8	16.9	68.0	0.21	1.60	3.43
16AUG79	8	16AUG79	8	32.4	43.3	51	164	194	6.2	67.4	3.7	3.9	0.0	1.1	0.8	16.8	65.0	0.23	1.67	3.35
16AUG79	9	16AUG79	9	31.9	43.6	48	164	195	6.5	66.9	3.7	4.2	0.0	1.1	0.8	16.8	71.2	0.25	1.72	3.38
16AUG79	10	16AUG79	10	31.7	44.3	60	164	196	6.6	66.5	3.9	4.3	0.0	1.1	0.8	16.7	73.7	0.26	1.71	3.47
16AUG79	11	16AUG79	11	31.9	44.6	77	164	197	6.8	66.3	3.8	4.4	0.0	1.1	0.8	16.7	73.9	0.27	1.78	3.35
16AUG79	12	16AUG79	12	31.0	43.2	93	164	197	7.1	65.9	3.9	4.6	0.0	1.1	0.8	16.6	75.8	0.28	1.82	3.39
16AUG79	13	16AUG79	13	32.8	44.7	109	164	199	7.3	65.6	4.0	4.8	0.0	1.1	0.8	16.3	78.4	0.29	1.83	3.47
16AUG79	14	16AUG79	14	31.8	45.8	102	164	199	7.5	65.3	4.0	4.9	0.0	1.2	0.8	16.2	79.8	0.30	1.85	3.46
16AUG79	15	16AUG79	15	33.8	45.4	56	164	201	7.8	65.0	4.3	4.9	0.0	1.1	0.8	16.2	83.1	0.30	1.83	3.94
16AUG79	16	16AUG79	16	64.3	54.5	39	164	202	8.0	64.7	4.4	4.9	0.0	1.0	0.8	16.1	84.8	0.31	1.84	4.19
16AUG79	17	16AUG79	17	81.0	82.5	41	165	208												
16AUG79	18	16AUG79	18	75.4	95.7	42	165	213	8.2	65.2	4.3	5.4	0.0	0.0	0.8	16.1	86.0	0.34	1.92	395.00
16AUG79	19	16AUG79	19	74.0	104.4	44	165	215												
16AUG79	20	16AUG79	20	72.6	102.5	45	165	216	6.8	64.6	3.3	10.3	0.0	0.9	0.8	13.3	87.0	0.78	2.10	3.67
16AUG79	21	16AUG79	21	72.0	103.2	46	165	217	7.5	63.5	3.8	10.6	0.0	1.0	0.8	12.9	95.6	0.82	1.95	3.92
16AUG79	22	16AUG79	22	71.6	106.0	48	165	219	8.4	61.5	5.0	10.8	0.0	1.1	0.7	12.4	111	0.87	1.68	4.59
16AUG79	23	16AUG79	23	71.0	108.5	49	165	220	9.3	59.3	6.6	10.9	0.0	1.2	0.7	12.0	130	0.91	1.42	5.49
17AUG79	0	17AUG79	0	70.7	112.0	51	165	222	10.4	56.5	8.5	10.9	0.0	1.3	0.7	11.6	153	0.94	1.22	6.59
17AUG79	1	17AUG79	1	65.6	116.2	52	165	224	11.7	53.3	11.1	10.6	0.0	1.5	0.6	11.1	182	0.95	1.05	7.66
17AUG79	2	17AUG79	2	67.9	120.4	54	165	227	12.9	49.7	14.5	10.0	0.0	1.6	0.6	10.6	218	0.95	0.89	8.81
17AUG79	3	17AUG79	3	67.9	126.0	55	165	230	14.4	44.9	18.7	9.6	0.0	1.9	0.5	10.0	262	0.96	0.77	9.95
17AUG79	4	17AUG79	4	71.4	134.5	57	166	234	15.9	40.5	22.5	9.3	0.0	2.0	0.5	9.2	304	1.01	0.71	11.12

16:10 *INCREASE AIR FLOW

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

17

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
17AUG79	5	17AUG79	5	68.6	151.9	58	167	237	14.7	40.5	23.8	9.2	0.0	2.2	0.5	9.1	313	1.01	0.62	10.68
17AUG79	6	17AUG79	6	56.0	138.4	59	165	238	13.3	40.4	24.7	9.0	0.0	2.3	0.5	9.8	317	0.92	0.54	10.53
17AUG79	7	17AUG79	7	56.4	133.1	60	164	239	12.8	39.4	26.1	8.6	0.0	2.4	0.5	10.2	328	0.84	0.49	10.84
17AUG79	8	17AUG79	8	56.9	129.7	62	165	245	12.3	39.9	26.0	8.2	0.0	2.5	0.5	10.6	324	0.77	0.47	10.39
17AUG79	9	17AUG79	9	62.0	114.6	63	164	250	11.6	41.6	24.8	7.7	0.0	2.5	0.5	11.3	308	0.68	0.47	9.80
		09:30	*DRAINED TAR KNOCKOUT POT. 0.5 GALLON LIQUOR COLLECTED. INCREASED INJECTION FLOW TO 80 SCFM																	
17AUG79	10	17AUG79	10	76.9	117.1	64	164	258	10.5	45.2	22.4	7.4	0.0	2.4	0.6	11.5	280	0.64	0.47	9.21
17AUG79	11	17AUG79	11	76.6	169.7	65	138	254	9.5	47.6	20.5	7.1	0.0	2.4	0.6	12.4	256	0.57	0.46	8.52
		11:05	*REDUCE BACK PRESSURE TO 100 PSIG																	
17AUG79	12	17AUG79	12	76.1	106.7	66	114	250	8.8	49.7	19.0	7.0	0.0	2.1	0.6	12.8	239	0.55	0.47	9.04
17AUG79	13	17AUG79	13	76.6	106.9	66	114	282	8.4	50.6	18.8	6.9	0.0	2.0	0.6	12.7	236	0.55	0.44	9.37
17AUG79	14	17AUG79	14	64.0	105.0	67	114	315	8.1	50.7	18.2	6.9	0.0	2.0	0.6	13.5	228	0.51	0.44	9.00
17AUG79	15	17AUG79	15	75.7	89.3	68	114	346	8.0	51.7	17.8	7.0	0.0	1.9	0.6	12.9	225	0.54	0.45	9.49
17AUG79	16	17AUG79	16	74.4	69.3	735	115	415												
17AUG79	17	17AUG79	17	61.6	92.4	765	115	475												
17AUG79	18	17AUG79	18	63.9	83.9	68	113	552	8.2	49.0	20.4	6.4	0.0	2.0	0.6	13.5	249	0.47	0.40	10.26
17AUG79	19	17AUG79	19	59.0	108.5	68	89	579	8.0	47.5	20.9	6.1	0.0	2.4	0.6	14.5	253	0.42	0.39	8.71
		19:33	*FURTHER REDUCE BACK PRESSURE TO 50 PSIG																	
17AUG79	20	17AUG79	20	62.6	80.2	68	65	639	8.1	47.9	21.5	6.0	0.0	2.2	0.6	13.7	258	0.44	0.38	9.82
17AUG79	21	17AUG79	21	62.7	86.4	68	65	702	7.9	49.0	20.6	5.9	0.0	2.2	0.6	13.9	248	0.42	0.38	9.46
17AUG79	22	17AUG79	22	63.0	86.0	682	66	735	7.7	49.3	20.8	5.8	0.0	2.1	0.6	13.7	250	0.42	0.37	10.02
17AUG79	23	17AUG79	23	58.8	80.9	825	66	766	7.8	47.4	22.3	5.5	0.0	2.2	0.6	14.3	264	0.38	0.35	10.34
18AUG79	0	18AUG79	0	77.8	89.0	843	66	789	7.7	47.2	22.7	5.3	0.0	2.2	0.6	14.4	267	0.37	0.34	10.51
18AUG79	1	18AUG79	1	55.3	100.1	863	67	811	7.6	47.8	22.4	5.1	0.0	2.2	0.6	14.3	263	0.36	0.34	10.07
18AUG79	2	18AUG79	2	70.0	136.3	840	71	777	7.5	47.3	22.3	5.1	0.0	2.3	0.6	15.0	262	0.34	0.34	9.74
18AUG79	3	18AUG79	3	78.5	148.1	805	76	641	8.0	48.2	21.0	5.1	0.0	2.4	0.6	14.7	250	0.35	0.38	8.77
18AUG79	4	18AUG79	4	79.3	148.9	722	78	433	8.4	50.6	17.9	5.3	0.0	2.4	0.6	14.8	222	0.36	0.47	7.45

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

18

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
18AUG79	5	18AUG79	5	79.3	148.8	585	77	277	9.3	50.7	14.9	6.0	0.0	2.5	0.6	15.9	197	0.38	0.62	5.89
18AUG79	6	18AUG79	6	79.2	122.8	487	62	214	10.5	48.4	15.1	7.5	0.0	2.7	0.6	15.2	208	0.49	0.69	5.70
18AUG79	7	18AUG79	7	79.1	147.0	441	67	212	10.9	50.3	14.1	7.6	0.0	2.5	0.6	13.9	199	0.55	0.77	5.56
18AUG79	8	18AUG79	8	78.7	145.0	400	67	216	11.8	49.8	13.3	7.9	0.0	2.5	0.6	14.1	195	0.56	0.88	5.38
18AUG79	9	18AUG79	9	77.8	143.8	367	67	218	11.3	51.7	12.0	8.0	0.0	2.4	0.6	14.0	181	0.57	0.95	4.98
18AUG79	10	18AUG79	10	78.0	140.7	343	67	219	10.2	55.3	10.0	7.5	0.0	2.1	0.7	14.2	156	0.53	1.02	4.81
18AUG79	11	18AUG79	11	60.2	134.9	319	67	219	9.8	56.7	9.2	7.6	0.0	1.6	0.7	14.6	147	0.52	1.06	5.87
18AUG79	12	18AUG79	12	76.5	128.8	304	66	220	9.8	56.6	8.6	7.9	0.0	1.7	0.7	14.7	142	0.54	1.14	5.17
18AUG79	13	18AUG79	13	76.8	124.6	297	66	222	9.5	57.5	8.1	8.1	0.0	1.6	0.7	14.5	137	0.55	1.17	4.99
18AUG79	14	18AUG79	14	74.8	122.8	244	66	224	9.5	57.6	7.4	8.6	0.0	1.7	0.7	14.5	131	0.60	1.28	4.38
18AUG79	15	18AUG79	15	75.0	119.8	285	66	226	9.4	57.3	7.7	8.9	0.0	1.6	0.7	14.4	135	0.62	1.22	4.84
18AUG79	16	18AUG79	16	76.4	119.2	283	66	229	9.4	57.2	7.6	9.1	0.0	1.6	0.7	14.4	134	0.63	1.24	4.81
18AUG79	17	18AUG79	17	76.3	119.8	282	66	230	9.5	57.6	7.3	9.3	0.0	1.5	0.7	14.0	132	0.66	1.30	4.71
18AUG79	18	18AUG79	18	76.4	117.6	282	66	232	9.2	58.1	7.0	9.5	0.0	1.5	0.7	14.0	129	0.68	1.31	4.70
18AUG79	19	18AUG79	19	76.6	121.6	281	66	233	9.3	57.9	7.1	9.9	0.0	1.4	0.7	13.7	131	0.72	1.31	4.94
18AUG79	20	18AUG79	20	76.6	119.9	280	66	235	9.4	57.6	7.1	10.1	0.0	1.5	0.7	13.6	133	0.74	1.32	4.86
18AUG79	21	18AUG79	21	76.8	118.4	281	66	237	9.6	57.5	7.2	10.0	0.0	1.5	0.7	13.5	134	0.74	1.34	4.91
18AUG79	22	18AUG79	22	74.2	107.3	283	66	241	9.5	57.7	7.3	10.1	0.0	1.5	0.7	13.3	135	0.75	1.30	4.93
18AUG79	23	18AUG79	23	76.6	118.6	285	66	244	9.7	57.3	7.4	10.0	0.0	1.5	0.7	13.3	137	0.75	1.31	4.91
19AUG79	0	19AUG79	0	87.7	119.5	286	66	246	9.7	57.3	7.7	10.1	0.0	1.5	0.6	13.2	139	0.76	1.27	5.13
19AUG79	1	19AUG79	1	88.2	121.2	288	66	249	9.8	56.8	7.9	10.1	0.0	1.5	0.7	13.1	142	0.77	1.24	5.18
19AUG79	2	19AUG79	2	87.9	121.2	289	66	250	10.0	56.6	8.1	10.1	0.0	1.5	0.7	13.0	144	0.78	1.24	5.29
19AUG79	3	19AUG79	3	87.9	121.6	291	66	252	10.1	56.4	8.2	10.2	0.0	1.5	0.7	12.9	146	0.79	1.23	5.36
19AUG79	4	19AUG79	4	87.8	121.9	292	66	254	10.3	56.1	8.3	10.3	0.0	1.6	0.7	12.8	148	0.80	1.24	5.35

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

19

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	G2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S											
19AUG79	5	19AUG79	5	88.2	123.4	293	66	256	10.3	55.8	8.6	10.2	0.0	1.6	0.7	12.8	151	0.79	1.19	5.44											
19AUG79	6	19AUG79	6	88.2	123.9	294	66	257	10.4	55.6	8.8	10.2	0.0	1.6	0.7	12.8	153	0.80	1.18	5.49											
19AUG79	7	19AUG79	7	80.4	112.7	284	58	256	10.3	55.7	8.5	10.3	0.0	1.7	0.7	12.8	150	0.80	1.22	5.07											
19AUG79	8	19AUG79	8	0.0	0.0	281	64	237	10.4	55.8	7.9	10.8	0.0	1.7	0.7	12.8	146	0.84	1.31	4.72											
19AUG79	9	19AUG79	9	0.0	59.8	278	52	236	10.2	56.4	7.7	11.3	0.0	1.5	0.7	12.2	145	0.93	1.32	5.26											
19AUG79	10	19AUG79	10	0.0	71.5	278	64	236	10.3	55.9	7.9	11.6	0.0	1.4	0.7	12.1	148	0.96	1.30	5.49											
19AUG79	11	19AUG79	10:00 11	DRAINED TAR KNOCKOUT POT.							54.95	GALLON LIQUOR COLLECTED			1.4	0.7	12.1	154	0.98	1.28	5.88										
19AUG79	12	19AUG79	12	0.0	139.7	273	67	241	10.8	54.8	8.6	11.7	0.0	1.4	0.7	11.9	158	0.98	1.24	5.56											
19AUG79	13	19AUG79	12:55 13	**LP/HV COMPRESSORS DOWN. HP/LV COMPRESSORS WERE BROUGHT ON LINE							90.8	134.0	278	67	242	11.7	52.9	9.5	11.6	0.0	1.5	0.7	12.1	169	0.55	1.22	6.23				
19AUG79	14	19AUG79	13:15 14	**SWITCH BACK TO LP/HV COMPRESSORS							46.6	65.0	288	65	248	10.3	56.0	8.3	11.7	0.0	1.6	0.7	11.5	153	1.02	1.23	5.27				
19AUG79	15	19AUG79	15	0.0	0.0	289	63	248	10.3	55.7	8.5	11.8	0.0	1.6	0.7	11.4	155	1.04	1.20	5.47											
19AUG79	16	19AUG79	16	95.4	135.8	290	66	251	10.6	54.9	9.1	11.9	0.0	1.4	0.7	11.5	162	1.03	1.17	6.41											
19AUG79	17	19AUG79	17	104.6	151.9	290	66	252	11.0	53.8	9.6	12.0	0.0	1.4	0.7	11.5	169	1.04	1.14	6.71											
19AUG79	18	19AUG79	18	101.8	150.4	291	66	254	11.6	52.8	10.2	11.9	0.0	1.5	0.6	11.4	176	1.04	1.14	6.74											
19AUG79	19	19AUG79	19	101.9	151.5	292	66	256	11.7	52.5	10.5	11.8	0.0	1.6	0.6	11.3	179	1.04	1.11	6.62											
19AUG79	20	19AUG79	20	101.3	152.1	293	66	258	11.9	52.0	10.8	11.8	0.0	1.6	0.6	11.2	183	1.05	1.10	6.58											
19AUG79	21	19AUG79	21	98.9	150.6	294	66	259	12.1	51.2	11.4	11.7	0.0	1.7	0.6	11.2	185	1.05	1.06	6.85											
19AUG79	22	19AUG79	21:30 22	DRAINED TAR KNOCKOUT POT.							4.0	GALLON LIQUOR COLLECTED			98.9	148.1	295	65	261	12.2	51.0	11.9	11.5	0.0	1.7	0.6	11.1	193	1.03	1.03	7.04
19AUG79	23	19AUG79	23	98.9	163.1	280	96	263	12.3	50.7	12.3	11.3	0.0	1.7	0.6	11.1	197	1.02	1.00	7.11											
20AUG79	0	20AUG79	0	0.0	0.0	331	157	310																							
20AUG79	1	20AUG79	00:15 1	TAR KNOCKOUT POT DRAINED.							128	GALLON LIQUOR COLLECTED			0.0	0.0	329	114	308												
20AUG79	2	20AUG79	01:30 2	TAR KNOCKOUT POT DRAINED.							124	GALLON LIQUOR COLLECTED			0.0	21.9	313	68	283												
20AUG79	3	20AUG79	3	0.0	9.9	306	64	276																							
20AUG79	4	20AUG79	4	29.5	18.5	337	64	314																							
				04:00	**STARTED HP/LV COMPRESSORS AIR INJECTION. SHUT DOWN LP/HV AIR INJECTION																										

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

20

DATE	HOUR	DATE	HOUR	INFLD	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
20AUG79	5	20AUG79	5	29.5	34.0	382	64	375												
20AUG79	6	20AUG79	6	29.5	51.7	454	64	433	12.9	44.6	23.5	6.3	0.0	1.7	0.5	10.6	255	0.59	0.55	14.05
20AUG79	7	20AUG79	7	37.9	62.9	508	64	477	11.8	47.0	20.9	6.4	0.0	2.5	0.6	11.0	265	0.58	0.56	8.38
20AUG79	8	20AUG79	8	39.8	63.4	557	63	518	10.6	49.0	19.0	6.4	0.0	3.0	0.6	11.4	243	0.57	0.56	6.33
20AUG79	9	20AUG79	9	64.2	99.4	500	107	446	9.8	50.5	18.0	6.7	0.0	2.8	0.6	11.6	232	0.58	0.54	6.42
20AUG79	10	20AUG79	10	95.1	123.1	357	68	295	09:45 DRAINED TAR KNOCKOUT POT. 91 GALLON LIQUOR COLLECTED											
20AUG79	11	20AUG79	11	95.1	142.0	402	66	172												
20AUG79	12	20AUG79	12	95.1	132.0	404	66	170	9.6	53.4	13.5	8.1	0.0	2.2	0.7	12.5	190	0.64	0.72	5.98
20AUG79	13	20AUG79	13	95.1	137.0	394	66	174	9.1	54.9	12.6	8.4	0.0	2.0	0.7	12.2	182	0.68	0.72	6.21
20AUG79	14	20AUG79	14	95.1	135.2	378	66	176												
20AUG79	15	20AUG79	15	95.1	134.5	365	66	177	9.4	54.6	12.1	8.3	0.0	1.9	0.7	13.0	176	0.64	0.78	6.35
20AUG79	16	20AUG79	16	95.1	133.1	356	66	179	9.3	55.4	11.5	8.3	0.0	1.9	0.7	12.8	170	0.65	0.82	6.00
20AUG79	17	20AUG79	17	95.1	137.8	346	66	181	9.5	56.8	11.3	8.8	0.0	1.7	0.7	11.2	171	0.79	0.84	6.45
20AUG79	18	20AUG79	18	95.1	133.1	340	66	182	9.1	55.8	10.7	8.8	0.0	1.8	0.7	13.2	163	0.67	0.85	5.88
20AUG79	19	20AUG79	19	95.1	133.1	336	66	183	9.3	55.7	10.7	8.9	0.0	1.8	0.7	13.0	164	0.69	0.87	6.01
20AUG79	20	20AUG79	20	95.1	133.0	333	66	185	9.3	55.6	10.6	9.1	0.0	1.8	0.7	12.9	164	0.70	0.88	5.56
20AUG79	21	20AUG79	21	95.1	129.8	329	66	187	9.1	55.4	11.1	8.8	0.0	1.8	0.7	13.0	168	0.68	0.82	6.20
20AUG79	22	20AUG79	22	95.1	134.3	326	66	188	9.3	55.2	11.0	9.1	0.0	1.8	0.7	13.0	168	0.70	0.85	6.11
20AUG79	23	20AUG79	23	95.2	134.3	322	66	190	9.3	55.3	10.8	9.4	0.0	1.8	0.7	12.7	167	0.74	0.86	6.13
21AUG79	0	21AUG79	0	95.8	134.0	319	66	192	9.4	55.8	10.9	9.6	0.0	1.7	0.7	11.8	169	0.81	0.86	6.35
21AUG79	1	21AUG79	1	97.7	139.4	314	66	195	9.2	54.7	10.6	9.6	0.0	2.0	0.7	13.3	165	0.72	0.87	5.40
21AUG79	2	21AUG79	2	95.6	136.7	312	66	195	9.4	54.6	10.9	9.7	0.0	1.7	0.7	12.9	170	0.75	0.86	6.39
21AUG79	3	21AUG79	3	96.2	138.1	311	66	197	9.6	54.4	11.2	9.8	0.0	1.7	0.7	12.6	173	0.77	0.86	6.47
21AUG79	4	21AUG79	4	96.4	138.8	309	66	199	9.7	54.2	11.3	9.8	0.0	1.8	0.7	12.6	174	0.78	0.86	6.37

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	G2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
21AUG79	5	21AUG79	5	96.6	139.4	308	66	201	9.8	54.1	11.3	9.8	0.0	1.8	0.7	12.5	175	0.78	0.87	6.42
21AUG79	6	21AUG79	6	94.5	138.7	304	66	202	10.2	53.2	11.7	9.9	0.0	1.8	0.7	12.6	181	0.78	0.87	6.61
21AUG79	7	21AUG79	7	95.7	140.0	302	66	204	10.3	53.4	11.6	9.8	0.0	1.7	0.7	12.5	180	0.79	0.89	7.00
21AUG79	8	21AUG79	8	96.0	140.7	300	66	206	10.3	53.3	11.7	9.9	0.0	1.8	0.7	12.4	181	0.80	0.88	6.67
21AUG79	9	21AUG79	9	456.1	686.4	293	66	206	10.8	51.9	12.3	10.0	0.0	1.8	0.6	12.6	188	0.79	0.88	6.80
			09:20	**HP/LV COMPRESSORS OFF, STARTED LP/HV AIR INJECTION																
21AUG79	10	21AUG79	10	88.6	135.4	291	66	208	11.4	51.1	12.7	9.7	0.0	1.8	0.6	12.7	153	0.77	0.90	6.92
21AUG79	11	21AUG79	11	93.8	139.7	294	66	210	10.8	52.4	12.3	9.7	0.0	1.9	0.6	12.2	187	0.79	0.88	6.40
21AUG79	12	21AUG79	12	94.9	141.2	292	66	212	10.7	52.5	12.3	9.8	0.0	1.8	0.6	12.2	187	0.80	0.87	6.64
21AUG79	13	21AUG79	13	96.0	140.2	292	66	214												
21AUG79	14	21AUG79	14	102.8	148.9	302	66	192	11.0	53.9	11.4	9.6	0.0	1.6	0.7	11.9	179	0.81	0.97	7.23
21AUG79	15	21AUG79	15	122.4	172.9	310	67	224	9.8	55.3	10.3	10.4	0.0	1.7	0.7	11.8	167	0.88	0.95	6.00
21AUG79	16	21AUG79	16	115.4	166.1	303	67	226	10.1	54.3	11.1	10.5	0.0	1.6	0.7	11.8	176	0.89	0.92	6.92
			16:15	DRAINED TAR KNOCKOUT POT. 2 GALLON LIQUOR COLLECTED																
21AUG79	17	21AUG79	17	99.9	152.9	296	66	223	11.2	51.0	12.8	10.5	0.0	1.6	0.6	12.3	156	0.86	0.88	7.95
21AUG79	18	21AUG79	18	129.9	185.7	312	68	235	10.4	54.6	10.3	10.9	0.0	1.7	0.7	11.5	170	0.95	1.02	6.07
21AUG79	19	21AUG79	19	118.2	167.7	314	68	239	9.6	55.0	10.7	10.9	0.0	1.8	0.7	11.1	172	0.98	0.90	5.81
21AUG79	20	21AUG79	20	105.0	183.5	314	66	240	9.8	54.6	11.0	11.1	0.0	1.6	0.7	11.3	176	0.98	0.89	7.01
21AUG79	21	21AUG79	21	105.0	120.2	314	66	241	9.7	54.6	11.1	11.1	0.0	1.6	0.7	11.3	177	0.98	0.87	7.16
21AUG79	22	21AUG79	22	89.0	126.8	314	66	241	9.5	54.8	10.8	11.2	0.0	1.6	0.7	11.5	173	0.97	0.89	6.64
21AUG79	23	21AUG79	23	91.0	136.3	315	66	242	9.8	54.6	10.5	11.9	0.0	1.6	0.7	10.9	174	1.09	0.93	6.48
			23:45	DRAINED TAR KNOCKOUT POT. 100 GALLON LIQUOR COLLECTED																
22AUG79	0	22AUG79	0	91.0	144.2	316	66	242	9.8	54.6	10.5	11.9	0.0	1.6	0.7	10.9	174	1.09	0.93	6.48
22AUG79	1	22AUG79	1	91.0	151.6	315	65	242	9.8	54.8	10.5	12.2	0.0	1.1	0.7	11.0	174	1.11	0.93	9.29
22AUG79	2	22AUG79	2	91.0	158.4	316	65	244	10.0	54.2	10.5	12.5	0.0	1.5	0.7	10.6	177	1.18	0.95	7.09
			02:45	DRAINED TAR KNOCKOUT POT. 70 GALLON LIQUOR COLLECTED																
22AUG79	3	22AUG79	3	91.0	164.4	316	65	247	10.2	53.5	11.0	12.6	0.0	1.6	0.7	10.3	183	1.22	0.93	7.10
22AUG79	4	22AUG79	4	91.0	171.2	316	66	249	10.9	52.3	11.5	13.0	0.0	1.6	0.6	10.1	150	1.29	0.95	7.13

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
22AUG79	5 22AUG79	5 91.0	177.7	316	66	253	11.1	52.2	11.5	13.0	0.0	1.6	0.6	9.9	191	1.31	0.96	6.99
		05:45 DRAINED TAR KNOCKOUT POT. 65 GALLON LIQUOR COLLECTED																
22AUG79	6 22AUG79	6 91.0	183.1	316	66	257	11.3	51.5	12.0	13.0	0.0	1.7	0.6	9.8	197	1.33	0.94	7.27
		06:00 DRAINED TAR KNOCKOUT POT																
22AUG79	7 22AUG79	7 91.0	189.3	316	66	261	11.7	50.7	12.6	13.1	0.0	1.7	0.6	9.7	204	1.35	0.93	7.49
22AUG79	8 22AUG79	8 91.8	144.7	316	65	264	11.6	49.5	13.2	13.8	0.0	1.5	0.6	9.8	212	1.41	0.88	8.71
22AUG79	9 22AUG79	9 484.4	770.7	316	67	267	11.7	49.1	13.6	13.7	0.0	1.6	0.6	9.7	216	1.41	0.86	8.63
		09:22 DRAINED TAR KNOCKOUT POT. 62.5 GALLON LIQUOR COLLECTED																
22AUG79	10 22AUG79	10 235.0	400.6	316	65	270	12.1	47.9	14.4	13.8	0.0	1.6	0.6	9.7	226	1.43	0.84	9.17
22AUG79	11 22AUG79	11 235.0	405.5	316	65	274	12.3	47.3	14.9	13.7	0.0	1.7	0.6	9.5	231	1.44	0.82	9.02
22AUG79	12 22AUG79	12 235.0	415.1	317	66	277	12.2	47.3	15.3	13.4	0.0	1.6	0.6	9.5	234	1.41	0.80	9.33
22AUG79	13 22AUG79	13 238.3	408.8	275	71	147	12.4	45.5	17.1	13.3	0.0	1.6	0.6	9.5	252	1.40	0.73	10.42
22AUG79	14 22AUG79	14 7.8	13.3	116	92	15	12.5	45.6	17.3	13.1	0.0	1.6	0.6	9.3	254	1.41	0.72	10.59
		14:25 DRAINED TAR KNOCKOUT POT. 88 GALLON LIQUOR COLLECTED																
22AUG79	15 22AUG79	15 0.0	0.0				12.6	45.8	17.0	13.0	0.0	1.6	0.6	9.4	251	1.38	0.74	10.56
22AUG79	17 22AUG79	17 0.0	0.0				12.8	45.9	16.6	12.9	0.0	1.6	0.6	9.5	248	1.36	0.77	10.37
22AUG79	18 22AUG79	18 250.0	625.0	316	66	288	12.9	45.6	16.8	13.0	0.0	1.6	0.6	9.5	250	1.37	0.77	10.37
22AUG79	19 22AUG79	19 248.4	426.5	315	65	288	12.7	45.5	17.1	12.8	0.0	1.7	0.6	9.6	252	1.33	0.74	10.09
		19:50 DRAINED TAR KNOCKOUT POT. 88 GALLON LIQUOR COLLECTED																
22AUG79	20 22AUG79	20 252.5	429.9	315	65	289	12.5	45.9	17.3	12.7	0.0	1.7	0.4	9.6	253	1.32	0.72	10.30
22AUG79	21 22AUG79	21 254.3	430.8	315	66	289	12.4	46.1	17.0	12.7	0.0	1.7	0.6	9.6	249	1.32	0.73	10.11
22AUG79	22 22AUG79	22 250.5	427.7	315	65	289	12.2	45.7	17.6	12.7	0.0	1.7	0.6	9.5	255	1.34	0.69	10.37
22AUG79	23 22AUG79	23 249.3	418.2	315	65	289	12.4	46.5	16.2	12.8	0.0	1.7	0.6	9.7	242	1.33	0.77	9.29
23AUG79	0 23AUG79	0 246.5	417.9	314	65	288	12.5	46.1	16.7	12.7	0.0	1.8	0.6	9.7	247	1.31	0.75	9.43
		00:00 DRAINED TAR KNOCKOUT POT. 61.3 GALLON LIQUOR COLLECTED																
23AUG79	1 23AUG79	1 252.9	424.5	313	65	288	12.4	46.5	16.3	12.7	0.0	1.8	0.6	9.7	243	1.31	0.76	9.27
23AUG79	2 23AUG79	2 253.1	423.8	313	65	288	12.5	46.6	16.2	12.7	0.0	1.8	0.6	9.7	241	1.31	0.77	9.21
23AUG79	3 23AUG79	3 246.5	419.7	313	65	288	12.2	45.9	17.4	12.5	0.0	1.7	0.6	9.6	252	1.30	0.70	10.05
23AUG79	4 23AUG79	4 244.0	418.8	313	66	288	12.3	45.5	17.7	12.5	0.0	1.7	0.6	9.6	255	1.30	0.70	10.18
23AUG79	5 23AUG79	5 242.3	419.0	313	65	288	12.3	45.1	18.3	12.3	0.0	1.8	0.6	9.6	260	1.28	0.67	10.43

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
23AUG79	6	23AUG79	6	236.0	412.7	313	66	289	12.2	44.7	19.1	12.1	0.0	1.7	0.6	9.6	268	1.27	0.64	10.98
23AUG79	7	23AUG79	7	239.4	408.3	313	65	289	12.4	45.8	17.6	12.2	0.0	1.8	0.6	9.7	253	1.25	0.70	9.87
23AUG79	8	23AUG79	8	246.8	417.5	313	65	289	12.4	46.2	17.1	12.3	0.0	1.8	0.6	9.8	248	1.26	0.73	9.69
23AUG79	9	23AUG79	9	248.7	415.9	313	65	289	12.4	46.7	16.3	12.3	0.0	1.8	0.6	9.9	241	1.25	0.76	9.19
23AUG79	10	23AUG79	10	290.8	486.9	314	64	288	12.4	46.6	16.3	12.4	0.0	1.8	0.6	9.9	241	1.25	0.76	9.17
23AUG79	11	23AUG79	11	243.0	408.6	314	65	288	12.5	46.4	16.6	12.3	0.0	1.8	0.6	9.9	244	1.24	0.76	9.31
23AUG79	12	23AUG79	12	234.4	397.1	313	65	288	12.4	46.1	17.1	12.3	0.0	1.8	0.6	9.8	248	1.25	0.73	9.69
23AUG79	13	23AUG79	12:25	244.5	409.2	314	65	288	12.4	46.7	16.6	12.2	0.0	1.7	0.6	9.9	243	1.24	0.75	9.50
23AUG79	14	23AUG79	14	243.6	412.7	315	65	290	12.4	46.1	17.4	12.0	0.0	1.7	0.6	9.8	251	1.23	0.72	10.01
23AUG79	15	23AUG79	15	236.4	419.3	316	66	291	11.7	44.0	21.4	11.3	0.0	1.6	0.5	9.3	286	1.22	0.55	12.97
23AUG79	16	23AUG79	16	236.2	415.4	315	66	289	11.6	44.4	21.2	11.2	0.0	1.7	0.6	9.4	284	1.20	0.55	12.79
23AUG79	17	23AUG79	17	231.0	408.7	314	65	289	11.7	44.1	21.3	11.3	0.0	1.6	0.5	9.4	285	1.20	0.55	13.04
23AUG79	18	23AUG79	17:40	229.8	403.0	314	65	289	11.6	44.5	21.2	11.3	0.0	1.4	0.6	9.4	284	1.20	0.55	14.78
23AUG79	19	23AUG79	19	232.5	408.0	314	65	290	11.7	44.5	21.1	11.3	0.0	1.5	0.6	9.4	283	1.20	0.55	13.92
23AUG79	20	23AUG79	20	231.1	407.6	314	65	290	11.7	44.3	21.2	11.3	0.0	1.6	0.5	9.4	284	1.20	0.55	13.29
23AUG79	21	23AUG79	21	230.3	408.0	314	65	290	11.8	44.1	21.3	11.2	0.0	1.6	0.5	9.4	286	1.20	0.56	13.11
23AUG79	22	23AUG79	22	228.4	406.0	314	65	290	11.8	43.9	21.5	11.2	0.0	1.6	0.5	9.4	287	1.19	0.55	13.04
23AUG79	23	23AUG79	23	226.6	403.6	314	65	290	12.0	43.8	21.5	11.1	0.0	1.7	0.5	9.4	287	1.19	0.56	12.81
24AUG79	0	24AUG79	23:50	225.6	403.2	314	65	290	12.1	43.7	21.6	11.1	0.0	1.7	0.5	9.3	289	1.19	0.56	12.76
24AUG79	1	24AUG79	1	226.6	404.1	314	65	290	12.0	43.8	21.5	11.1	0.0	1.7	0.5	9.3	288	1.19	0.56	12.78
24AUG79	2	24AUG79	2	226.0	381.2	314	65	290												
24AUG79	3	24AUG79	3	225.7	400.8	314	65	290	12.1	44.0	21.4	11.0	0.0	1.7	0.5	9.4	286	1.17	0.57	12.93
24AUG79	4	24AUG79	4	223.8	397.6	314	65	290	12.2	44.0	21.2	11.0	0.0	1.7	0.5	9.4	285	1.17	0.58	12.56
24AUG79	5	24AUG79	04:30	223.6	398.2	314	65	290	12.3	43.9	21.2	11.0	0.0	1.7	0.5	9.4	286	1.18	0.58	12.43

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

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DATE	HOUR	DATE	HOUR	INFL	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
24AUG79	6	24AUG79	6	222.8	397.3	314	65	290	12.3	43.8	21.3	10.9	0.0	1.7	0.5	9.4	286	1.17	0.58	12.48
24AUG79	7	24AUG79	7	223.6	397.8	314	65	290	12.3	43.9	21.2	11.0	0.0	1.7	0.5	9.4	285	1.16	0.58	12.41
24AUG79	8	24AUG79	8	223.5	399.4	313	65	289	12.3	43.7	21.3	10.9	0.0	1.7	0.5	9.6	286	1.14	0.58	12.40
24AUG79	9	24AUG79	9	642.5	1143	314	65	289	12.3	43.9	21.2	10.9	0.0	1.7	0.5	9.5	285	1.16	0.58	12.38
24AUG79	10	24AUG79	10	225.0	398.8	314	66	289	12.1	44.1	21.1	11.2	0.0	1.6	0.4	9.6	284	1.16	0.57	12.99
24AUG79	11	24AUG79	11	235.7	407.9	322	65	296	12.1	45.1	20.0	11.1	0.0	1.7	0.6	9.4	273	1.18	0.60	11.48
24AUG79	12	24AUG79	12	230.5	406.1	320	65	293	12.1	44.3	20.9	10.9	0.0	1.7	0.5	9.6	281	1.14	0.58	12.50
24AUG79	13	24AUG79	13	219.4	395.3	315	65	288	12.5	43.3	21.7	10.7	0.0	1.8	0.5	9.4	250	1.14	0.58	12.32
24AUG79	14	24AUG79	14	213.9	385.6	310	65	289	12.5	43.3	21.6	10.8	0.0	1.7	0.5	9.5	289	1.13	0.58	12.54
24AUG79	15	24AUG79	15	221.6	391.9	314	65	290	12.2	44.1	21.2	10.6	0.0	1.7	0.5	9.5	284	1.11	0.58	12.36
24AUG79	16	24AUG79	16	217.7	385.1	314	65	290	12.1	44.1	21.4	10.5	0.0	1.7	0.5	9.6	285	1.09	0.57	12.57
24AUG79	17	24AUG79	17	218.4	386.1	314	65	290	12.0	44.2	21.4	10.4	0.0	1.7	0.5	9.7	285	1.08	0.56	12.54
24AUG79	18	24AUG79	18	219.9	385.9	308	65	288	12.1	44.5	20.9	10.6	0.0	1.8	0.5	9.6	281	1.11	0.58	11.75
24AUG79	19	24AUG79	19	215.2	377.6	314	65	291	12.0	44.5	21.1	10.5	0.0	1.7	0.5	9.7	281	1.08	0.57	12.31
24AUG79	20	24AUG79	20	218.3	382.5	314	65	291	12.0	44.6	21.0	10.5	0.0	1.7	0.5	9.7	281	1.08	0.57	12.31
24AUG79	21	24AUG79	21	219.4	383.9	313	65	290	11.9	44.6	21.1	10.5	0.0	1.7	0.5	9.7	281	1.08	0.56	12.34
24AUG79	22	24AUG79	22	219.3	383.0	313	65	291	11.9	44.7	20.9	10.5	0.0	1.7	0.5	9.7	279	1.08	0.57	12.27
24AUG79	23	24AUG79	23	218.0	376.8	313	65	291	12.1	44.0	21.3	10.5	0.0	1.7	0.5	9.8	284	1.08	0.57	12.18
25AUG79	0	25AUG79	0	218.0	359.1	313	65	291												
25AUG79	1	25AUG79	1	215.1	378.0	313	65	291	12.0	44.4	21.1	10.4	0.0	1.7	0.5	9.8	281	1.07	0.57	12.12
25AUG79	2	25AUG79	2	213.6	373.8	313	65	290	12.0	44.6	21.1	10.3	0.0	1.7	0.5	9.8	281	1.05	0.57	12.14
25AUG79	3	25AUG79	3	219.5	381.3	313	65	290	11.9	44.9	20.7	10.3	0.0	1.7	0.6	9.9	277	1.04	0.58	11.91
25AUG79	4	25AUG79	4	219.4	377.8	315	66	291	11.8	45.3	20.4	10.3	0.0	1.7	0.6	9.9	274	1.04	0.58	11.95
25AUG79	5	25AUG79	5	229.7	396.2	314	66	291	11.9	45.3	20.4	10.4	0.0	1.7	0.6	9.8	274	1.06	0.58	11.91

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

25

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
25AUG79	6	25AUG79	6	222.3	383.0	307	65	288	12.5	45.3	19.6	10.3	0.0	1.9	0.6	9.7	268	1.06	0.64	10.36
25AUG79	7	25AUG79	7	228.4	388.9	312	65	290	12.1	45.9	19.6	10.4	0.0	1.8	0.6	9.7	267	1.08	0.62	11.06
25AUG79	8	25AUG79	8	230.5	392.5	313	65	291	11.9	45.9	19.8	10.4	0.0	1.7	0.6	9.8	268	1.06	0.60	11.70
25AUG79	9	25AUG79	9	228.7	389.5	314	65	291	11.9	45.8	19.8	10.3	0.0	1.7	0.6	9.9	268	1.04	0.60	11.69
25AUG79	10	25AUG79	10	226.0	375.5	314	65	291	12.2	45.6	20.1	10.4	0.0	1.7	0.6	9.5	272	1.10	0.61	11.71
25AUG79	11	25AUG79	11	222.3	380.9	314	65	291	12.1	45.6	19.9	10.3	0.0	1.7	0.6	9.9	269	1.04	0.61	11.60
25AUG79	12	25AUG79	12	223.0	382.6	314	65	291	12.2	45.5	20.0	10.2	0.0	1.7	0.6	9.8	270	1.04	0.61	11.65
25AUG79	13	25AUG79	13	223.6	382.5	314	65	290	12.1	45.6	19.8	10.3	0.0	1.7	0.6	9.9	268	1.03	0.61	11.61
25AUG79	14	25AUG79	14	222.5	381.5	314	65	290	12.2	45.5	19.9	10.2	0.0	1.7	0.5	10.0	270	1.03	0.61	11.91
25AUG79	15	25AUG79	15	220.7	379.5	314	65	290	12.2	45.4	20.0	10.2	0.0	1.7	0.6	9.9	270	1.03	0.61	11.57
25AUG79	16	25AUG79	16	217.5	375.5	314	65	290	12.4	45.2	20.0	10.2	0.0	1.7	0.6	9.9	271	1.04	0.62	11.45
25AUG79	17	25AUG79	17	638.9	1103	314	65	290	12.5	45.2	20.0	10.1	0.0	1.7	0.6	9.8	271	1.03	0.62	11.47
25AUG79	18	25AUG79	18	222.7	382.3	314	65	291	12.3	45.5	20.0	10.0	0.0	1.7	0.6	9.9	270	1.01	0.62	11.60
25AUG79	19	25AUG79	19	222.0	380.9	313	65	291	12.3	45.5	20.0	10.0	0.0	1.7	0.6	9.9	270	1.00	0.61	11.63
25AUG79	20	25AUG79	20	221.3	379.4	314	65	291	12.4	45.5	19.8	10.1	0.0	1.7	0.6	9.9	269	1.02	0.62	11.58
25AUG79	21	25AUG79	21	223.1	382.0	314	65	291	12.3	45.6	19.7	10.1	0.0	1.7	0.6	10.0	268	1.01	0.62	11.59
25AUG79	22	25AUG79	22	220.2	377.6	314	65	291	12.3	45.5	20.0	10.0	0.0	1.7	0.6	9.9	270	1.01	0.62	11.73
25AUG79	23	25AUG79	23	223.9	383.6	314	65	291	12.4	45.6	19.9	10.0	0.0	1.7	0.6	9.9	269	1.01	0.62	11.77
26AUG79	0	26AUG79	0	218.6	375.8	314	65	291	12.4	45.4	20.0	10.0	0.0	1.7	0.6	9.9	270	1.01	0.62	11.70
26AUG79	1	26AUG79	1	217.3	371.7	314	66	291	12.4	45.7	19.8	10.0	0.0	1.7	0.6	9.9	268	1.01	0.63	11.74
26AUG79	2	26AUG79	2	212.4	365.1	312	67	291	12.4	45.4	20.1	10.0	0.0	1.7	0.6	9.9	271	1.01	0.62	11.92
26AUG79	3	26AUG79	3	216.5	372.3	313	66	290	12.4	45.4	19.9	10.1	0.0	1.7	0.6	9.9	270	1.02	0.62	11.75
26AUG79	4	26AUG79	4	220.0	370.5	314	67	291	12.1	46.4	19.5	9.9	0.0	1.6	0.6	9.9	264	1.00	0.62	11.95
26AUG79	5	26AUG79	5	224.9	377.8	314	67	291	12.0	46.5	19.4	9.9	0.0	1.6	0.6	10.0	263	0.99	0.62	12.06

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

26

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
26AUG79	6	26AUG79	6	223.7	377.4	314	67	291	11.9	46.3	19.7	10.2	0.0	1.3	0.6	10.1	266	1.01	0.60	14.76
26AUG79	7	26AUG79	7	221.9	377.8	314	67	291	11.9	45.9	19.4	10.1	0.0	1.5	0.5	10.6	264	0.95	0.61	12.84
26AUG79	8	26AUG79	8	221.4	374.6	314	67	291	12.0	46.1	19.6	10.1	0.0	1.6	0.6	10.1	265	1.01	0.61	12.43
26AUG79	9	26AUG79	9	220.2	372.1	314	67	290	12.0	46.2	19.4	10.1	0.0	1.6	0.6	10.1	264	1.00	0.62	12.10
26AUG79	10	26AUG79	10	220.8	372.5	314	67	290	12.0	46.3	19.4	10.1	0.0	1.6	0.5	10.1	264	1.00	0.62	12.30
26AUG79	11	26AUG79	11	218.8	369.9	314	66	290	12.0	46.2	19.5	10.1	0.0	1.6	0.6	10.1	264	1.00	0.62	12.05
26AUG79	12	26AUG79	12	218.8	369.7	314	67	290	12.1	46.2	19.5	10.0	0.0	1.6	0.6	10.1	264	1.00	0.62	12.25
26AUG79	13	26AUG79	13	220.3	374.8	315	66	290	12.1	45.9	19.9	9.9	0.0	1.6	0.6	10.1	268	0.99	0.61	12.27
26AUG79	14	26AUG79	14	218.2	369.4	314	67	289	12.1	46.1	19.7	9.9	0.0	1.6	0.6	10.1	266	0.98	0.61	12.08
26AUG79	15	26AUG79	15	217.7	369.4	314	66	290	12.1	46.0	19.8	9.8	0.0	1.6	0.5	10.1	267	0.97	0.61	12.15
26AUG79	16	26AUG79	16	216.1	366.0	314	66	290	12.1	46.1	19.6	9.8	0.0	1.6	0.6	10.1	265	0.97	0.62	11.99
26AUG79	17	26AUG79	17	216.4	366.9	314	67	290	12.2	46.1	19.6	9.8	0.0	1.6	0.6	10.1	265	0.97	0.62	11.96
26AUG79	18	26AUG79	18	217.0	368.3	314	67	291	12.1	46.0	19.7	9.8	0.0	1.6	0.6	10.1	266	0.97	0.62	12.01
26AUG79	19	26AUG79	19	212.1	361.0	314	66	291	12.2	45.9	19.9	9.8	0.0	1.7	0.6	10.1	267	0.97	0.61	12.00
26AUG79	20	26AUG79	20	214.2	365.1	314	66	291	12.2	45.8	19.9	9.8	0.0	1.7	0.6	10.1	268	0.96	0.61	12.05
26AUG79	21	26AUG79	21	213.3	364.0	314	66	291	12.2	45.8	20.0	9.8	0.0	1.7	0.6	10.1	269	0.96	0.61	12.09
26AUG79	22	26AUG79	22	214.2	362.6	314	66	291	12.1	46.1	19.9	9.7	0.0	1.5	0.6	10.2	267	0.96	0.61	13.47
26AUG79	23	26AUG79	23	215.0	346.4	314	66	291												
27AUG79	2	27AUG79	2	215.0	374.1	314	67	291												
27AUG79	3	27AUG79	3	215.0	389.6	314	68	291												
27AUG79	4	27AUG79	4	215.0	389.4	314	67	291												
27AUG79	5	27AUG79	5	215.0	386.8	313	67	290												
27AUG79	6	27AUG79	6	215.0	391.4	314	67	291												
27AUG79	7	27AUG79	7	215.0	392.4	313	67	291												

08:47 DRAINED TAR KNOCKOUT POT. 106.5 GALLON LIQUOR COLLECTED

19:30 DRAINED TAR KNOCKOUT POT. 55.7 GALLON LIQUOR COLLECTED

00:00/01:05 POWER FAILURE

04:55 DRAINED TAR KNOCKOUT POT. 80 GALLON LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

27

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
27AUG79	8	27AUG79	8	215.0	391.6	314	67	291												
27AUG79	9	27AUG79	9	215.0	391.3	314	67	291												
27AUG79	10	27AUG79	10	215.0	391.8	314	66	290												
27AUG79	11	27AUG79	11	215.0	385.5	314	67	290												
27AUG79	12	27AUG79	12	215.0	368.2	295	47	273												
27AUG79	13	27AUG79	13	215.0	382.0	314	67	290												
27AUG79	14	27AUG79	14	215.0	380.5	312	67	290												
27AUG79	15	27AUG79	15	215.0	385.3	314	67	290												
27AUG79	18	27AUG79	18	84.0	172.1	335	201	311												
27AUG79	19	27AUG79	19	84.0	181.6	340	202	315												
27AUG79	20	27AUG79	20	84.0	182.5	342	201	317												
27AUG79	21	27AUG79	21	84.0	172.0	343	201	319												
27AUG79	22	27AUG79	22	84.0	177.1	348	201	323												
27AUG79	23	27AUG79	23	84.0	178.4	351	201	326												
28AUG79	0	28AUG79	0	84.0	175.1	352	201	328												
28AUG79	1	28AUG79	1	84.0	168.0	355	201	331												
28AUG79	2	28AUG79	2	84.0	169.8	357	201	332												
28AUG79	3	28AUG79	3	84.0	166.6	359	201	334												
28AUG79	4	28AUG79	4	88.0	175.6	361	201	337	14.2	39.1	26.0	7.8	0.0	1.5	0.5	10.9	328	0.71	0.55	17.63
28AUG79	5	28AUG79	5	80.4	174.9	363	201	339	13.0	35.9	31.5	7.1	0.0	1.8	0.4	10.2	377	0.70	0.41	17.12
28AUG79	6	28AUG79	6	78.7	173.3	365	201	340	12.7	35.5	32.3	6.9	0.0	2.0	0.4	10.2	384	0.68	0.39	16.10
28AUG79	7	28AUG79	7	78.0	170.2	380	231	342	12.6	35.8	32.0	6.9	0.0	2.0	0.4	10.2	381	0.68	0.39	15.68
28AUG79	8	28AUG79	8	93.2	205.1	420	261	370	12.1	35.5	32.6	6.7	0.0	2.0	0.4	10.6	384	0.63	0.37	16.24
28AUG79	9	28AUG79	9	80.5	186.5	412	245	383	11.6	33.7	35.2	6.3	0.0	2.0	0.4	10.8	407	0.59	0.33	17.72

14:15 DRAINED TAR KNOCKOUT POT. 27 GALLON LIQUOR COLLECTED
16:35 **SWITCH FROM LP/HV COMPRESSORS TO HP/LV COMPRESSORS. INCREASE BACK PRESSURE FROM 55 TO 190 PSIG

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

28

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
28AUG79	10	28AUG79	10	66.9	146.9	407	251	379	11.9	35.6	33.7	6.2	0.0	2.2	0.4	9.9	393	0.62	0.35	15.26
28AUG79	11	28AUG79	11	60.7	138.1	429	282	255	11.5	34.3	34.2	5.9	0.0	2.3	0.4	11.3	396	0.52	0.33	14.61
28AUG79	12	28AUG79	12	31.9	74.3				11.3	33.6	37.5	5.8	0.0	1.9	0.4	9.5	427	0.62	0.30	19.29
28AUG79	13	28AUG79	13	57.0	133.4				11.1	33.4	37.1	5.6	0.0	2.2	0.4	10.3	422	0.54	0.30	17.11
28AUG79	14	28AUG79	14	61.4	142.9	454	269	422	11.0	33.6	36.9	5.4	0.0	2.3	0.4	10.4	420	0.52	0.30	16.34
28AUG79	15	28AUG79	15	60.2	140.5				10.9	33.4	37.3	5.3	0.0	2.2	0.4	10.4	423	0.51	0.29	16.60
28AUG79	16	28AUG79	16	61.5	143.5	459			10.9	33.5	37.2	5.2	0.0	2.3	0.4	10.5	422	0.50	0.29	16.34
28AUG79	17	28AUG79	17	34.3	75.3	466			10.7	35.6	35.4	5.1	0.0	2.3	0.4	10.4	403	0.49	0.30	15.66
28AUG79	18	28AUG79	18	37.0	76.3				10.4	37.9	33.2	5.0	0.0	2.3	0.5	10.7	380	0.47	0.31	14.46
28AUG79	19	28AUG79	19	76.1	153.3				10.3	38.8	32.5	5.0	0.0	2.2	0.5	10.9	372	0.46	0.32	15.02
28AUG79	20	28AUG79	20	62.0	155.5	458	259		10.2	38.8	32.2	5.0	0.0	2.2	0.5	11.0	365	0.45	0.32	14.43
28AUG79	21	28AUG79	21	62.0	152.1	339	293		10.2	38.8	32.2	5.0	0.0	2.2	0.5	11.0	365	0.45	0.32	14.43
28AUG79	22	28AUG79	22	49.5	150.1	376	244		13.8	25.8	39.0	6.4	0.0	2.3	0.3	12.4	453	0.52	0.35	17.06
28AUG79	23	28AUG79	23	48.4	176.8	324	167		15.0	21.4	38.9	6.8	0.0	3.4	0.3	14.2	457	0.48	0.38	11.39
29AUG79	0	29AUG79	0	32.6	139.4	322	157		16.6	18.3	39.5	7.3	0.0	3.6	0.3	14.4	470	0.51	0.42	10.95
29AUG79	1	29AUG79	1	41.1	124.4	317	153	294	16.7	25.8	34.8	6.7	0.0	3.5	0.3	12.2	421	0.55	0.48	10.06
29AUG79	2	29AUG79	2	28.1	58.4				15.1	37.6	26.7	5.7	0.0	3.3	0.5	11.1	332	0.52	0.57	8.05
29AUG79	3	29AUG79	3	59.2	109.9				14.2	42.0	22.8	5.4	0.0	3.1	0.5	11.9	289	0.46	0.63	7.27
29AUG79	4	29AUG79	4	30.5	53.8				13.6	44.3	21.1	5.2	0.0	2.8	0.6	12.4	270	0.42	0.64	7.43
29AUG79	5	29AUG79	5	90.3	150.4	317	142	294	13.1	46.9	19.2	5.1	0.0	2.7	0.6	12.5	249	0.41	0.68	7.10
29AUG79	6	29AUG79	6	101.5	156.4	317	101	294	12.5	50.7	16.3	5.0	0.0	2.6	0.6	12.4	218	0.40	0.76	6.34
29AUG79	7	29AUG79	7	101.0	153.2	317	114	294												
29AUG79	8	29AUG79	8	101.0	151.0	317	114	294												
29AUG79	9	29AUG79	9	107.3	146.5	313	114	294	10.4	57.2	11.8	4.6	0.0	1.9	0.7	13.5	165	0.34	0.89	6.09

13:15 DRAINED TAR KNOCKOUT POT. 9.4 GALLON LIQUOR COLLECTED

20:00 **SWITCHED FROM HP/LV COMPRESSOR TO LP/HV COMPRESSORS BUT LP/HV AIR INJECTION HAS NOT STARTED YET

21:30 DRAINED TAR KNOCKOUT POT. 20 GALLON LIQUOR COLLECTED

00:30 **LP/HV AIR INJECTION STARTED

05:10 *REDUCE BACK PRESSURE TO 120 PSIG 05:50 DRAINED TAR KNOCKOUT POT. 59 GALLON LIQUOR COLLECTED

06:40 *REDUCE BACK PRESSURE TO 100 PSIG

08:41 POWER SURGE

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

29

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CG_CO2	H2_CH4	CH4_H2S
29AUG79	10	29AUG79	10	111.5	164.6	320	120	300												
29AUG79	11	29AUG79	11	106.1	141.2	317	114	294	9.6	58.7	10.9	4.6	0.0	1.8	0.7	13.7	154	0.34	0.88	6.21
29AUG79	12	29AUG79	11:10	313.0	414.3	317	86	293	0.25	GALLON LIQUOR COLLECTED				1.7	0.7	13.8	150	0.34	0.89	6.08
29AUG79	13	29AUG79	12:25	179.0	226.6	317	65	292	8.6	61.7	8.2	4.3	0.0	1.8	0.7	14.7	123	0.29	1.04	4.46
29AUG79	14	29AUG79	13:30	197.2	239.7	317	65	292	7.9	64.2	7.3	4.5	0.0	1.3	0.8	13.9	112	0.32	1.08	5.53
29AUG79	15	29AUG79	15	198.0	245.5	317	65	292												
29AUG79	16	29AUG79	16	198.0	244.3	317	65	292												
29AUG79	17	29AUG79	17	198.0	247.4	316	65	293												
29AUG79	18	29AUG79	18	198.0	251.8	316	65	293												
29AUG79	19	29AUG79	19	198.0	253.2	316	65	293												
29AUG79	20	29AUG79	20	198.0	252.3	317	65	293												
29AUG79	21	29AUG79	20:40	198.0	263.8	321	65	298	50	GALLON LIQUOR COLLECTED										
29AUG79	22	29AUG79	22	198.0	264.5	321	65	298												
29AUG79	23	29AUG79	23	198.0	264.2	321	65	298												
30AUG79	0	30AUG79	0	198.6	262.9	321	65	298	8.8	59.0	8.9	7.7	0.0	1.3	0.7	13.6	141	0.57	1.00	6.91
30AUG79	1	30AUG79	1	198.2	264.0	321	65	298	8.9	58.6	9.0	7.8	0.0	1.3	0.7	13.6	143	0.58	0.95	6.77
30AUG79	2	30AUG79	2	198.6	266.8	321	65	297	9.0	58.1	9.3	8.0	0.0	1.4	0.7	13.5	147	0.59	0.97	6.85
30AUG79	3	30AUG79	3	196.6	267.1	321	65	298	9.2	57.5	9.6	8.2	0.0	1.4	0.7	13.4	151	0.61	0.96	6.92
30AUG79	4	30AUG79	4	91.3	125.0	219	80	156	9.5	57.0	9.9	8.2	0.0	1.4	0.7	13.3	155	0.62	0.96	6.87
30AUG79	5	30AUG79	5	194.0	269.0	321	65	297	9.7	56.6	10.0	8.3	0.0	1.5	0.7	13.2	157	0.63	0.97	6.77
30AUG79	6	30AUG79	05:50	194.0	269.0	321	65	297	66.8	GALLON LIQUOR COLLECTED				1.5	0.7	13.1	160	0.64	0.96	6.76
30AUG79	7	30AUG79	7	194.0	269.0	321	65	297	9.9	56.0	10.5	8.4	0.0	1.5	0.7	13.0	163	0.65	0.94	6.95
30AUG79	8	30AUG79	8	194.0	269.0	321	65	297	9.9	55.9	10.7	8.4	0.0	1.5	0.7	12.9	164	0.65	0.93	7.03
30AUG79	9	30AUG79	9	194.0	269.0	321	65	297	10.0	55.3	11.0	8.5	0.0	1.5	0.7	13.0	168	0.65	0.91	7.20

HOURLY RESULTS FROM PRICETOWN 1 FIELD TEST FOR AUGUST

30

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
30AUG79	10	30AUG79	10	194.0	269.0	321	65	297	10.1	55.7	10.9	8.4	0.0	1.5	0.7	12.7	168	0.66	0.92	7.17
30AUG79	11	30AUG79	11	194.0	269.0	321	65	297	10.4	54.7	11.2	8.6	0.0	1.6	0.7	12.9	172	0.66	0.93	7.13
30AUG79	12	30AUG79	12	194.0	269.0	321	65	297	12:05 DRAINED TAR KNOCKOUT POT. 30.5 GALLON LIQUOR COLLECTED											
30AUG79	13	30AUG79	13	194.0	269.0	321	65	297												
30AUG79	14	30AUG79	14	194.0	269.0	321	65	297												
30AUG79	15	30AUG79	15	194.0	269.0	321	65	297	15:35 *INCREASED BACK PRESSURE TO 60 PSIG											
30AUG79	16	30AUG79	16	194.0	269.0	321	65	297												
30AUG79	17	30AUG79	17	192.3	273.8	288	74	298	10.6	54.8	12.2	8.5	0.0	0.4	0.7	12.7	183	0.66	0.87	28.55
30AUG79	18	30AUG79	18	190.8	275.5	322	74	298	10.9	54.1	12.1	8.4	0.0	1.2	0.7	12.6	182	0.67	0.90	10.22
30AUG79	19	30AUG79	19	190.0	276.0	322	74	298	10.9	53.7	12.6	8.4	0.0	1.0	0.7	12.7	187	0.66	0.86	12.45
30AUG79	20	30AUG79	20	208.1	305.3	321	70	298	11.2	53.2	12.3	8.4	0.0	1.5	0.6	12.7	185	0.66	0.91	8.24
30AUG79	21	30AUG79	21	197.8	289.3	321	65	298	11.3	53.4	12.2	8.5	0.0	1.5	0.7	12.5	184	0.68	0.93	8.14
30AUG79	22	30AUG79	22	197.6	288.9	321	65	298	11.3	53.4	12.2	8.5	0.0	1.5	0.7	12.4	185	0.68	0.92	8.26
30AUG79	23	30AUG79	23	196.2	288.0	321	65	298	11.3	53.2	12.5	8.5	0.0	1.5	0.6	12.4	187	0.68	0.91	8.32
31AUG79	0	31AUG79	0	196.5	288.5	321	65	298	11.3	53.2	12.5	8.5	0.0	1.5	0.6	12.4	187	0.69	0.90	8.25
31AUG79	1	31AUG79	1	195.7	288.5	321	65	298	11.2	53.0	12.7	8.5	0.0	1.5	0.6	12.4	190	0.69	0.88	8.38
31AUG79	2	31AUG79	2	196.1	289.3	321	65	299	11.1	52.9	13.0	8.5	0.0	1.5	0.6	12.4	191	0.69	0.85	8.70
31AUG79	3	31AUG79	3	194.1	288.1	321	65	298	11.2	52.6	13.1	8.6	0.0	1.5	0.6	12.3	193	0.70	0.86	8.69
31AUG79	4	31AUG79	4	195.8	291.1	321	65	298	11.3	52.5	13.2	8.5	0.0	1.5	0.6	12.3	195	0.69	0.86	8.71
31AUG79	5	31AUG79	5	164.8	246.6	321	65	298	11.4	52.2	13.5	8.5	0.0	1.5	0.6	12.3	197	0.69	0.84	8.92
31AUG79	6	31AUG79	6	188.7	283.2	321	65	298	11.4	52.0	13.9	8.3	0.0	1.5	0.6	12.3	201	0.68	0.82	9.23
31AUG79	7	31AUG79	7	193.1	289.1	321	65	298	11.3	52.2	13.6	8.4	0.0	1.6	0.6	12.3	198	0.68	0.83	8.60
31AUG79	8	31AUG79	8	192.2	289.4	322	65	298	11.3	51.9	13.8	8.4	0.0	1.6	0.6	12.3	200	0.68	0.82	8.64
31AUG79	9	31AUG79	9	200.2	287.4	322	65	298	12.0	54.4	10.1	8.2	0.0	1.7	0.7	12.9	165	0.64	1.18	5.85

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR AUGUST

31

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	C2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
31AUG79	10	31AUG79	10	201.2	287.4	322	65	297	12.2	54.7	10.0	7.9	0.0	1.8	0.7	12.8	163	0.62	1.22	5.56
31AUG79	11	31AUG79	11	199.0	285.3	322	65	297	12.4	54.5	10.1	7.8	0.0	1.8	0.7	12.7	165	0.61	1.23	5.46
31AUG79	12	31AUG79	12	200.5	287.7	322	65	297	12.5	54.4	10.2	7.7	0.0	1.9	0.7	12.7	165	0.60	1.23	5.43
31AUG79	13	31AUG79	13	195.1	283.6	323	65	296	12.6	53.7	10.6	7.7	0.0	1.9	0.7	12.8	170	0.60	1.18	5.61
31AUG79	14	31AUG79	14	195.3	283.1	322	65	297	12.6	53.9	10.5	7.8	0.0	1.9	0.7	12.6	170	0.62	1.19	5.47
31AUG79	15	31AUG79	15	194.9	284.6	322	65	297	12.7	53.5	10.9	7.7	0.0	1.9	0.7	12.6	174	0.61	1.16	5.60
31AUG79	16	31AUG79	16	194.7	284.1	322	65	297	12.8	53.5	10.9	7.6	0.0	2.0	0.6	12.5	174	0.61	1.17	5.43
31AUG79	17	31AUG79	17	194.9	284.8	322	65	298	12.9	53.4	11.0	7.6	0.0	2.0	0.7	12.5	175	0.61	1.17	5.64
31AUG79	18	31AUG79	18	195.3	286.3	322	65	298	12.9	53.3	11.1	7.6	0.0	2.0	0.7	12.4	176	0.61	1.16	5.71
31AUG79	19	31AUG79	19	195.0	285.7	322	65	298	13.3	52.9	11.2	7.5	0.0	2.0	0.7	12.4	178	0.60	1.18	5.72
31AUG79	20	31AUG79	20	233.0	295.0	330	65	310	20:55 DRAINED TAR KNOCKOUT POT. 45.5 GALLON LIQUOR COLLECTED											
31AUG79	21	31AUG79	21	230.4	295.0	330	65	310												
31AUG79	22	31AUG79	22	230.4	295.0	330	65	310												
31AUG79	23	31AUG79	23	250.3	295.0	330	65	310												

1

DATE	HOUR	DATE	HOUR	INFL0	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
01SEP79	0	01SEP79	0	40.0	229.9	321	65	299	12.8	53.0	11.8	7.4	0.0	1.9	0.7	12.3	182	0.60	1.09	6.10
01SEP79	1	01SEP79	1	43.6	211.6	266	46	246	12.8	53.0	11.9	7.3	0.0	1.9	0.7	12.4	182	0.59	1.08	6.11
01SEP79	2	01SEP79	2	47.5	288.3	321	65	299	12.7	53.0	11.9	7.3	0.0	1.9	0.7	12.4	182	0.58	1.07	6.15
01SEP79	3	01SEP79	3	62.3	285.8	321	65	299	12.7	53.3	11.8	7.3	0.0	1.9	0.6	12.5	180	0.58	1.08	6.12
01SEP79	4	01SEP79	4	65.6	284.8	321	65	299	12.6	53.2	11.9	7.2	0.0	1.9	0.7	12.5	182	0.58	1.06	6.26
01SEP79	5	01SEP79	5	68.4	284.7	321	65	298	12.6	53.2	11.9	7.2	0.0	1.9	0.7	12.5	182	0.58	1.06	6.23
01SEP79	6	01SEP79	05:10 6	69.4	287.7	321	65	298	12.6	53.2	12.0	7.2	0.0	1.9	0.7	12.5	182	0.58	1.05	6.24
01SEP79	7	01SEP79	7	69.3	288.1	321	65	298	12.5	53.4	11.9	7.2	0.0	1.9	0.7	12.5	181	0.58	1.05	6.20
01SEP79	8	01SEP79	8	72.6	287.9	322	65	298	12.5	53.2	11.9	7.2	0.0	1.9	0.7	12.5	182	0.58	1.05	6.25
01SEP79	9	01SEP79	9	72.2	286.8	322	65	297	12.6	53.0	12.2	7.2	0.0	1.9	0.7	12.5	184	0.58	1.03	6.34
01SEP79	10	01SEP79	10	82.3	289.1	322	65	297	12.5	53.0	12.2	7.2	0.0	1.9	0.7	12.5	184	0.57	1.03	6.30
01SEP79	11	01SEP79	11	80.3	284.9	323	65	297	12.5	52.9	12.3	7.2	0.0	1.9	0.7	12.6	185	0.57	1.02	6.33
01SEP79	12	01SEP79	12	78.1	280.5	323	65	296	12.5	52.7	12.4	7.1	0.0	2.0	0.7	12.6	186	0.57	1.01	6.35
01SEP79	13	01SEP79	12:15 13	80.3	285.1	322	65	296	12.5	52.9	12.3	7.1	0.0	2.0	0.7	12.6	185	0.56	1.02	6.26
01SEP79	14	01SEP79	14	77.5	287.5	323	65	296	12.6	52.7	12.4	7.1	0.0	2.0	0.7	12.6	186	0.56	1.01	6.34
01SEP79	15	01SEP79	15	79.4	288.1	322	65	297	12.6	52.7	12.4	7.1	0.0	2.0	0.7	12.6	186	0.56	1.01	6.33
01SEP79	16	01SEP79	16	76.4	286.3	322	65	297	12.6	52.5	12.6	7.0	0.0	2.0	0.7	12.6	188	0.56	1.00	6.38
01SEP79	17	01SEP79	17	78.5	286.8	322	65	298	12.6	52.5	12.6	7.0	0.0	2.0	0.7	12.6	188	0.56	1.00	6.43
01SEP79	18	01SEP79	18	201.3	287.2	322	65	298	12.6	52.6	12.6	7.0	0.0	1.9	0.7	12.6	188	0.56	1.00	6.45
01SEP79	19	01SEP79	18:15 19	152.6	286.0	322	65	298	12.6	52.6	12.7	7.0	0.0	2.0	0.7	12.6	188	0.56	0.99	6.48
01SEP79	20	01SEP79	20	165.7	287.1	322	65	298	12.6	52.2	12.8	7.1	0.0	2.0	0.7	12.6	191	0.56	0.98	6.47
01SEP79	21	01SEP79	21	210.9	285.0	322	65	298	12.7	52.2	12.9	7.1	0.0	2.0	0.6	12.5	191	0.57	0.98	6.44
01SEP79	22	01SEP79	22	108.3	284.6	322	65	298	12.8	51.9	13.0	7.2	0.0	2.0	0.7	12.5	193	0.57	0.98	6.46
01SEP79	23	01SEP79	23	162.6	284.4	322	65	299	12.6	52.2	13.1	7.0	0.0	2.0	0.7	12.5	192	0.56	0.96	6.54
23:30 * AR INJECTION INTO PI-1																				

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

2

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
02SEP79	0 02SEP79	0	196.5	284.9	322	65	299	12.6	51.9	13.2	6.9	0.0	2.0	1.1	12.4	193	0.56	0.96	6.70
		00:50 DRAINED TAR KNOCKOUT POT. 52 GALLON LIQUOR COLLECTED																	
02SEP79	1 02SEP79	1	161.7	330.6	320	45	298	12.6	51.9	13.0	6.9	0.0	2.2	0.8	12.7	191	0.54	0.97	5.92
		01:10 *REDUCED BACK PRESSURE IN PI-2 TO 25 PSIG 01:25 DRAINED TAR KNOCKOUT POT. 75 GALLON LIQUOR COLLECTED																	
02SEP79	2 02SEP79	2	161.7	288.6	315	41	292	12.9	51.5	13.4	7.0	0.0	2.0	0.7	12.5	197	0.56	0.96	6.68
02SEP79	3 02SEP79	3	153.5	282.0	310	41	288	13.2	50.9	13.8	7.0	0.0	2.1	0.7	12.5	201	0.56	0.96	6.71
02SEP79	4 02SEP79	4	154.9	280.2	307	41	285	13.2	51.0	13.6	7.1	0.0	2.0	0.6	12.5	200	0.57	0.96	6.69
02SEP79	5 02SEP79	5	154.9	275.0	306	40	284	13.2	51.0	13.5	7.1	0.0	2.0	0.6	12.4	199	0.58	0.98	6.66
		05:30 TRIED TO DRAIN TAR KNOCKOUT POT BUT NO LIQUOR FOUND																	
02SEP79	6 02SEP79	6	155.4	276.8	305	40	283	13.2	51.0	13.7	7.0	0.0	2.0	0.6	12.4	201	0.57	0.96	6.70
02SEP79	7 02SEP79	7	155.1	274.4	303	41	282	13.1	51.6	13.4	6.9	0.0	2.0	0.7	12.4	197	0.56	0.97	6.80
02SEP79	8 02SEP79	8	156.0	276.0	308	41	283	12.7	52.1	13.3	7.0	0.0	1.7	0.7	12.5	195	0.56	0.95	7.75
		08:30 *AR INJECTION INTO PI-1																	
02SEP79	9 02SEP79	9	157.2	298.0	324	41	300	11.6	54.9	11.3	7.1	0.0	1.8	1.1	12.3	172	0.58	1.03	6.43
02SEP79	10 02SEP79	10	170.0	311.2	325	35	299	11.4	54.7	11.4	7.4	0.0	1.7	0.8	12.6	174	0.58	1.00	6.55
		10:55 *REDUCED BACK PRESSURE IN PI-2 TO 10 PSIG. DRAINED TAR KNOCKOUT POT. 35 GALLON LIQUOR COLLECTED																	
02SEP79	11 02SEP79	11	186.9	313.0	325	28	299	11.5	54.4	11.8	7.2	0.0	1.8	0.7	12.6	177	0.58	0.98	6.60
		11:30 DRAINED TAR KNOCKOUT POT. 53 GALLON LIQUOR COLLECTED																	
02SEP79	12 02SEP79	12	182.4	300.1	325	27	299	11.6	54.3	12.0	7.2	0.0	1.7	0.7	12.5	179	0.57	0.97	6.99
02SEP79	13 02SEP79	13	174.8	299.8	325	30	315												
02SEP79	14 02SEP79	14	194.6	299.6	325	27	299	11.9	53.5	12.5	7.1	0.0	1.7	0.6	12.6	185	0.56	0.95	7.26
02SEP79	15 02SEP79	15	184.2	298.2	325	27	300	12.0	53.3	12.6	7.1	0.0	1.8	0.7	12.5	186	0.57	0.95	7.04
02SEP79	16 02SEP79	16	180.5	298.3	324	27	300	12.0	53.1	12.7	7.1	0.0	1.8	0.7	12.6	188	0.57	0.94	7.09
02SEP79	17 02SEP79	17	180.9	299.1	324	27	300	12.1	53.0	12.8	7.1	0.0	1.8	0.7	12.5	189	0.57	0.95	7.10
02SEP79	18 02SEP79	18	184.2	298.9	324	27	301	12.2	52.8	12.8	7.1	0.0	1.8	0.7	12.6	185	0.56	0.95	7.03
02SEP79	19 02SEP79	19	170.4	301.0	324	27	301	12.1	52.9	12.8	7.0	0.0	1.8	0.7	12.6	189	0.56	0.95	7.03
02SEP79	20 02SEP79	20	177.8	310.6	324	27	301	12.2	52.9	12.9	7.0	0.0	1.8	0.6	12.6	190	0.56	0.94	7.01
02SEP79	21 02SEP79	21	182.4	312.3	324	27	301	12.2	52.7	13.0	7.0	0.0	1.8	0.7	12.6	191	0.56	0.94	7.12
02SEP79	22 02SEP79	22	174.4	308.0	324	27	301	12.3	52.5	13.1	7.0	0.0	1.9	0.7	12.6	192	0.56	0.94	6.98
02SEP79	23 02SEP79	23	174.0	300.2	324	27	301	12.3	52.5	13.0	7.0	0.0	1.9	0.7	12.6	191	0.56	0.94	7.03

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217

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

3

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
03SEP79	0	03SEP79	0	174.4	300.9	324	27	301	12.3	52.3	13.3	7.0	0.0	1.8	0.7	12.5	194	0.56	0.92	7.25
03SEP79	1	03SEP79	1	170.0	299.7	324	27	301	12.5	52.6	13.2	6.8	0.0	1.8	0.7	12.5	193	0.54	0.94	7.31
03SEP79	2	03SEP79	2	170.0	291.4	324	27	301	01:25 DRAINED TAR KNOCKOUT POT. ONLY 1 QUART LIQUOR COLLECTED											
03SEP79	3	03SEP79	3	170.0	300.8	324	26	301	12.4	53.2	13.4	7.2	0.0	0.5	0.7	12.7	196	0.56	0.92	26.50
03SEP79	4	03SEP79	4	170.0	298.8	324	27	301	12.4	52.2	13.7	7.0	0.0	1.6	0.7	12.5	198	0.56	0.91	8.66
03SEP79	5	03SEP79	5	170.0	299.0	324	26	301	12.4	52.2	13.3	7.0	0.0	1.8	0.7	12.6	194	0.56	0.93	7.34
03SEP79	6	03SEP79	6	170.0	297.6	324	26	301	12.4	51.9	13.5	7.0	0.0	1.8	0.7	12.7	196	0.55	0.92	7.37
03SEP79	7	03SEP79	7	170.0	295.5	324	27	301	12.3	52.1	13.4	7.0	0.0	1.8	0.7	12.7	195	0.55	0.92	7.58
03SEP79	8	03SEP79	8	170.0	295.2	324	26	301	12.4	52.1	13.5	7.0	0.0	1.7	0.7	12.7	196	0.55	0.92	7.92
03SEP79	9	03SEP79	9	168.8	297.5	325	26	301	12.6	52.1	13.9	7.2	0.0	1.5	0.7	12.2	201	0.59	0.90	9.43
03SEP79	10	03SEP79	10	172.8	289.2	325	26	301												
03SEP79	11	03SEP79	11	176.7	287.4	325	27	301												
03SEP79	12	03SEP79	12	168.8	286.2	291	26	300												
03SEP79	13	03SEP79	13	168.8	286.8	325	27	300												
03SEP79	14	03SEP79	14	176.7	284.9	325	27	299												
03SEP79	15	03SEP79	15	180.1	287.4	325	27	300	14:20 DRAINED TAR KNOCKOUT POT. 33.7 GALLON LIQUOR COLLECTED											
03SEP79	16	03SEP79	16	174.8	286.9	325	26	300												
03SEP79	17	03SEP79	17	170.8	287.3	324	26	300												
03SEP79	18	03SEP79	18	168.8	293.2	324	26	300	12.3	51.9	13.5	7.3	0.0	1.7	0.6	12.6	197	0.58	0.91	7.77
03SEP79	19	03SEP79	19	172.0	293.2	324	26	301	12.3	51.8	13.6	7.4	0.0	1.8	0.6	12.5	198	0.59	0.91	7.53
03SEP79	20	03SEP79	20	172.8	291.2	324	26	301	12.3	51.7	13.6	7.4	0.0	1.8	0.6	12.6	198	0.59	0.90	7.39
03SEP79	21	03SEP79	21	168.8	250.1	325	26	302	12.2	51.8	13.5	7.4	0.0	1.9	0.6	12.6	197	0.59	0.90	7.32
03SEP79	22	03SEP79	22	169.6	290.2	325	26	302	12.1	52.1	13.4	7.3	0.0	1.8	0.6	12.6	195	0.58	0.90	7.30
03SEP79	23	03SEP79	23	170.4	291.4	325	27	302	12.1	52.0	13.4	7.4	0.0	1.9	0.6	12.6	196	0.58	0.90	7.19

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

4

DATE	HOUR	DATE	HOUR	INFL3	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
04SEP79	0	04SEP79	0	172.0	290.2	325	27	302	12.1	51.9	13.6	7.3	0.0	1.8	0.6	12.7	197	0.58	0.89	7.35
04SEP79	1	04SEP79	1	168.4	293.9	325	27	302	12.1	51.7	13.7	7.4	0.0	1.9	0.6	12.7	198	0.58	0.89	7.36
04SEP79	2	04SEP79	2	170.0	291.7	325	27	302	12.2	51.7	13.8	7.2	0.0	1.9	0.6	12.7	199	0.57	0.88	7.41
04SEP79	3	04SEP79	3	170.0	291.9	325	26	302	12.1	51.9	13.7	7.2	0.0	1.8	0.6	12.7	198	0.56	0.89	7.44
04SEP79	4	04SEP79	4	170.0	289.3	325	26	302	12.1	51.9	13.7	7.1	0.0	1.9	0.6	12.7	198	0.56	0.88	7.37
04SEP79	5	04SEP79	5	170.0	289.9	325	27	302	12.1	51.9	13.7	7.1	0.0	1.8	0.6	12.7	197	0.56	0.88	7.42
04SEP79	6	04SEP79	6	170.0	291.2	325	27	302	12.1	51.9	13.7	7.1	0.0	1.9	0.6	12.7	198	0.56	0.88	7.40
04SEP79	7	04SEP79	7	170.0	287.9	325	26	302	11.9	51.9	13.7	7.2	0.0	1.8	0.6	12.8	198	0.56	0.87	7.53
04SEP79	8	04SEP79	8	170.0	289.2	325	26	302	11.9	51.6	13.8	7.2	0.0	1.9	0.6	12.9	198	0.56	0.86	7.39
04SEP79	9	04SEP79	9	169.2	290.3	326	27	301	12.1	50.7	14.2	7.3	0.0	1.9	0.6	13.2	203	0.55	0.86	7.46
04SEP79	10	04SEP79	10	168.8	289.6	326	27	300	12.1	51.4	14.2	7.1	0.0	1.7	0.6	12.9	203	0.55	0.85	8.59
04SEP79	11	04SEP79	11	168.8	291.9	326	26	300	12.1	51.5	13.9	7.2	0.0	1.8	0.6	12.8	200	0.56	0.87	7.53
04SEP79	12	04SEP79	12	170.4	289.3	326	27	300	12.1	51.3	14.1	7.1	0.0	1.9	0.6	12.8	202	0.55	0.86	7.43
04SEP79	13	04SEP79	13	170.4	289.4	326	27	301	12.2	51.0	14.3	7.0	0.0	1.9	0.6	12.8	204	0.55	0.85	7.38
04SEP79	14	04SEP79	14	170.4	290.0	326	27	300	12.2	51.2	14.1	7.1	0.0	1.9	0.6	12.8	202	0.55	0.86	7.28
04SEP79	15	04SEP79	15	164.8	285.5	326	27	301	12.2	51.2	14.1	7.0	0.0	2.0	0.6	12.8	202	0.55	0.86	7.20
04SEP79	16	04SEP79	16	156.3	287.1	326	26	301	12.2	51.3	14.2	6.9	0.0	2.0	0.6	12.8	202	0.54	0.86	7.28
04SEP79	17	04SEP79	17	168.8	287.0	291	26	302	12.2	51.4	14.1	7.0	0.0	1.9	0.6	12.7	202	0.55	0.86	7.30
04SEP79	18	04SEP79	18	170.4	249.3	325	27	302	12.3	51.1	14.3	7.1	0.0	1.9	0.6	12.7	204	0.56	0.86	7.37
04SEP79	19	04SEP79	19	170.4	285.8	325	26	302	12.1	51.4	14.2	7.1	0.0	1.8	0.6	12.8	203	0.55	0.85	8.13
04SEP79	20	04SEP79	20	164.3	289.8	325	26	302	12.0	51.5	14.2	7.0	0.0	1.8	0.6	12.8	202	0.55	0.84	7.70
04SEP79	21	04SEP79	21	168.0	288.4	325	26	302	12.0	51.6	14.0	7.1	0.0	1.9	0.6	12.8	200	0.55	0.85	7.39
04SEP79	22	04SEP79	22	168.0	286.9	325	26	302	11.9	51.5	14.1	7.0	0.0	1.9	0.6	12.8	201	0.55	0.85	7.39
04SEP79	23	04SEP79	23	167.6	284.4	325	26	303	11.9	51.6	14.1	7.0	0.0	1.9	0.6	12.8	201	0.55	0.84	7.37

16:30 DRAINED TAR KNOCKOUT POT. 41 GALLON LIQUOR COLLECTED

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

5

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
05SEP79	0	05SEP79	0	170.4	286.8	325	26	302	11.9	51.6	14.2	7.0	0.0	1.9	0.5	12.8	201	0.55	0.84	7.30
05SEP79	1	05SEP79	1	164.8	286.6	325	26	303	12.1	51.2	14.5	7.1	0.0	1.8	0.6	12.7	205	0.56	0.84	7.98
05SEP79	2	05SEP79	2	168.0	288.1	325	26	302	12.1	51.2	14.4	7.0	0.0	1.8	0.6	12.9	204	0.55	0.84	8.07
05SEP79	3	05SEP79	3	170.4	286.6	325	26	302	11.7	52.1	14.0	6.8	0.0	1.5	0.6	13.3	199	0.51	0.83	9.40
05SEP79	4	05SEP79	4	162.7	285.4	325	26	302	11.8	51.9	14.1	6.9	0.0	1.8	0.6	12.9	199	0.53	0.84	7.65
05SEP79	5	05SEP79	5	163.9	285.3	325	26	302	11.8	51.9	13.9	6.9	0.0	1.9	0.6	13.0	198	0.54	0.84	7.41
05SEP79	6	05SEP79	6	166.8	280.9	289	26	302	11.7	51.9	14.0	6.9	0.0	1.9	0.6	12.9	199	0.53	0.84	7.44
05SEP79	7	05SEP79	7	164.8	283.6	325	26	302	11.7	52.0	14.0	6.9	0.0	1.9	0.6	12.9	198	0.54	0.84	7.51
05SEP79	8	05SEP79	8	164.8	284.9	326	26	302	11.7	52.0	13.9	6.9	0.0	1.9	0.6	12.9	198	0.54	0.84	7.47
05SEP79	9	05SEP79	9	171.2	281.1	326	26	301	12.0	51.7	13.9	7.1	0.0	1.9	0.6	12.9	199	0.55	0.87	7.45
05SEP79	10	05SEP79	10	162.3	281.9	326	26	301	11.7	52.0	13.9	6.9	0.0	1.9	0.6	12.9	198	0.53	0.84	7.29
05SEP79	11	05SEP79	11	183.5	279.5	326	26	301	11.7	52.1	13.8	6.9	0.0	1.9	0.6	13.0	197	0.53	0.85	7.31
05SEP79	12	05SEP79	12	163.5	284.4	326	26	301	11.7	52.0	13.9	6.8	0.0	1.9	0.6	12.9	198	0.53	0.84	7.27
05SEP79	13	05SEP79	13	156.3	280.9	326	26	301	11.7	52.1	14.1	6.7	0.0	1.9	0.6	13.0	199	0.51	0.83	7.58
05SEP79	14	05SEP79	14	161.8	296.6	326	26	302	11.9	51.8	14.1	6.7	0.0	1.9	0.6	12.9	200	0.52	0.84	7.47
				14:30 DRAINED TAR KNOCKOUT POT. 10 GALLON LIQUOR COLLECTED																
05SEP79	15	05SEP79	15	155.9	637.1	316	220	168	11.9	51.8	13.7	6.8	0.0	1.9	0.6	13.1	196	0.52	0.87	7.22
				15:25 **SYSTEM CHANGE. SWITCHED PRODUCTION WELL FROM PI-2 TO PI-3																
05SEP79	16	05SEP79	16	161.8	428.3	310	227	20	12.8	53.8	12.0	6.7	0.3	1.8	0.7	12.5	181	0.54	1.07	6.49
				(I) (C) (P)																
05SEP79	17	05SEP79	17	238.2	415.2	325	233	20	10.7	59.9	8.3	6.9	0.4	1.5	0.7	12.4	139	0.55	1.29	5.65
05SEP79	18	05SEP79	18	275.7	413.9	325	233	20	10.1	58.2	8.5	8.3	0.0	1.4	0.7	12.8	144	0.65	1.18	6.18
05SEP79	19	05SEP79	19	273.2	409.5	325	234	20	10.1	57.8	8.6	8.6	0.0	1.3	0.7	12.8	145	0.67	1.18	6.44
05SEP79	20	05SEP79	20	260.7	402.2	325	235	20	10.0	57.7	8.9	8.6	0.0	1.4	0.7	12.7	148	0.68	1.11	6.54
05SEP79	21	05SEP79	21	258.0	380.7	325	235	20												
05SEP79	22	05SEP79	22	230.9	344.0	281	210	20	10.3	56.7	9.6	8.5	0.0	1.5	0.7	12.7	156	0.67	1.07	6.44
05SEP79	23	05SEP79	23	214.8	272.5	324	236	18	11.0	54.1	11.5	8.2	0.0	1.7	0.7	12.8	176	0.64	0.96	6.87

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

6

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
06SEP79	0	06SEP79	0	214.4	282.7	325	237	18	11.9	51.1	14.3	7.6	0.0	1.6	0.6	13.0	204	0.58	0.83	9.03
06SEP79	1	06SEP79	1	63.8	293.9	325	237	18	11.7	51.6	13.8	7.4	0.0	1.8	0.6	12.9	199	0.58	0.85	7.50
06SEP79	2	06SEP79	2	169.6	273.5	325	238	18	11.9	50.8	14.4	7.3	0.0	1.9	0.6	13.1	205	0.56	0.82	7.44
06SEP79	3	06SEP79	3	154.6	257.9	325	238	18	12.1	49.5	15.5	7.1	0.0	2.0	0.6	13.2	215	0.54	0.78	7.63
06SEP79	4	06SEP79	4	134.9	243.9	325	238	17	12.3	48.2	16.6	6.9	0.0	2.1	0.5	13.3	227	0.52	0.74	7.76
06SEP79	5	06SEP79	5	125.5	234.4	325	238	17	12.4	47.4	17.4	6.6	0.0	2.2	0.6	13.4	234	0.50	0.71	7.82
06SEP79	6	06SEP79	6	113.6	217.8	325	239	17	12.5	46.2	18.5	6.4	0.0	2.3	0.6	13.5	244	0.48	0.68	8.03
06SEP79	7	06SEP79	7	110.5	204.2	326	239	17	12.8	44.8	19.7	6.2	0.0	2.4	0.6	13.5	256	0.46	0.65	8.19
06SEP79	8	06SEP79	8	98.9	193.5	326	239	17	12.9	43.6	20.9	6.0	0.0	2.5	0.5	13.5	268	0.45	0.62	8.42
06SEP79	9	06SEP79	9	100.2	316.3	325	95	162	13.6	43.5	19.7	6.2	0.2	2.6	0.5	13.2	260	0.47	0.69	7.54
06SEP79	10	06SEP79	10	170.0	313.4	324	27	247	11.9	52.7	14.5	6.0	0.2	2.3	0.6	12.4	201	0.48	0.83	6.19
06SEP79	11	06SEP79	11	196.0	314.3	325	27	246	10.8	54.2	13.3	6.2	0.0	2.0	0.7	12.8	187	0.49	0.81	6.84
06SEP79	12	06SEP79	12	190.0	316.2	325	27	247	10.5	54.7	13.0	6.3	0.0	1.9	0.7	13.0	183	0.49	0.81	6.85
06SEP79	13	06SEP79	13	191.8	322.3	325	28	247	10.2	55.1	12.7	6.4	0.0	1.8	0.7	13.1	179	0.49	0.81	6.92
06SEP79	14	06SEP79	14	201.8	346.7	325	27	248	10.1	55.2	12.4	6.6	0.0	1.8	0.7	13.2	176	0.50	0.81	6.88
06SEP79	15	06SEP79	15	201.8	329.5	325	27	248	10.1	55.1	12.4	6.6	0.0	1.8	0.7	13.3	177	0.50	0.81	6.95
06SEP79	16	06SEP79	16	209.4	339.0	325	27	249	10.0	55.3	12.3	6.6	0.0	1.8	0.7	13.3	175	0.50	0.81	6.90
06SEP79	17	06SEP79	17	197.0	335.3	324	27	251	10.0	55.4	12.0	6.8	0.0	1.8	0.7	13.3	173	0.51	0.83	6.75
06SEP79	18	06SEP79	18	197.7	333.9	324	27	253	10.0	55.4	12.0	6.8	0.0	1.8	0.7	13.3	173	0.51	0.83	6.74
06SEP79	19	06SEP79	19	201.8	336.6	324	27	222	10.0	55.3	12.1	6.8	0.0	1.8	0.7	13.3	174	0.51	0.83	6.72
06SEP79	20	06SEP79	20	197.0	337.0	324	27	255	10.0	55.3	12.0	6.9	0.0	1.8	0.7	13.3	173	0.52	0.83	6.68
06SEP79	21	06SEP79	21	192.8	337.3	324	27	256	9.9	55.3	12.0	6.9	0.0	1.8	0.7	13.4	173	0.52	0.82	6.72
06SEP79	22	06SEP79	22	190.0	335.2	324	27	257	9.9	55.2	12.0	7.0	0.0	1.8	0.7	13.4	173	0.52	0.83	6.65
06SEP79	23	06SEP79	23	194.9	337.0	324	27	258	10.1	55.5	12.0	7.1	0.0	1.5	0.3	13.4	174	0.53	0.84	7.77

09:00 *SYSTEM CHANGE. SWITCHED PRODUCTION WELL FROM PI-3 TO PI-2
(I) (P) (C)

17:30 DRAINED TAR KNOCKOUT POT. 81.7 GALLON LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

7

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
07SEP79	0 07SEP79	0	192.1	337.3	324	27 259	10.0	55.3	11.8	7.1	0.0	1.8	0.7	13.3	172	0.53	0.85	6.52
07SEP79	1 07SEP79	1	192.5	335.9	324	26 260	10.2	54.7	12.1	7.1	0.0	1.9	0.7	13.3	176	0.54	0.84	6.54
07SEP79	2 07SEP79	2	192.5	336.1	324	27 260	10.2	54.7	12.2	7.2	0.0	1.9	0.7	13.2	176	0.54	0.84	6.49
07SEP79	3 07SEP79	3	193.5	339.1	324	27 261	10.2	54.8	12.1	7.1	0.0	1.9	0.7	13.2	176	0.54	0.84	6.49
07SEP79	4 07SEP79	4	193.5	340.7	324	27 261	10.3	54.8	12.0	7.1	0.0	1.9	0.7	13.2	175	0.54	0.86	6.45
07SEP79	5 07SEP79	5	193.5	341.2	324	26 262	10.4	54.6	12.1	7.2	0.0	1.9	0.7	13.2	177	0.54	0.86	6.49
07SEP79	6 07SEP79	6	188.9	336.7	324	26 263												
07SEP79	7 07SEP79	7	188.9	339.9	325	26 263	10.4	54.3	12.5	7.2	0.0	1.8	0.7	13.1	181	0.55	0.83	6.92
07SEP79	8 07SEP79	8	186.4	339.4	325	26 264	10.5	53.8	12.8	7.2	0.0	1.9	0.7	13.1	184	0.55	0.82	6.81
07SEP79	9 07SEP79	9	190.0	339.0	325	26 264	10.5	54.0	12.6	7.2	0.0	1.8	0.7	13.2	182	0.54	0.83	6.91
07SEP79	10 07SEP79	10	186.0	341.9	325	26 265	10.5	54.0	12.6	7.1	0.0	1.8	0.7	13.3	181	0.53	0.83	6.85
07SEP79	11 07SEP79	11	190.0	341.9	325	26 265	10.7	53.8	12.7	7.2	0.0	1.9	0.7	13.1	183	0.54	0.84	6.76
07SEP79	12 07SEP79	11:30 DRAINED TAR KNOCKOUT POT. 14 GALLON LIQUOR COLLECTED 12	190.0	341.8	325	26 265	10.6	53.8	12.8	7.1	0.0	1.9	0.7	13.1	184	0.54	0.83	6.83
07SEP79	13 07SEP79	13	193.2	339.6	325	26 266	10.6	53.8	12.9	7.0	0.0	1.9	0.7	13.1	185	0.54	0.82	6.73
07SEP79	14 07SEP79	14	193.2	343.5	325	26 267	10.7	53.7	13.0	7.0	0.0	1.9	0.7	13.0	186	0.54	0.82	6.75
07SEP79	15 07SEP79	15	191.4	346.0	325	26 268	10.8	53.7	13.0	7.0	0.0	1.9	0.7	13.0	186	0.54	0.83	6.76
07SEP79	16 07SEP79	16	189.6	343.5	324	26 269	10.7	53.9	12.9	7.0	0.0	1.9	0.7	12.9	185	0.54	0.83	6.93
07SEP79	17 07SEP79	17	183.5	338.8	324	26 271	10.7	53.8	13.0	7.0	0.0	1.9	0.7	13.0	185	0.54	0.82	6.77
07SEP79	18 07SEP79	18	190.7	342.5	324	26 272	10.6	53.8	12.9	7.1	0.0	1.9	0.7	13.1	185	0.54	0.83	6.74
07SEP79	19 07SEP79	19	183.5	336.0	324	26 272												
07SEP79	20 07SEP79	20	183.1	335.2	324	26 273												
07SEP79	21 07SEP79	21	187.9	340.6	324	26 274												
07SEP79	22 07SEP79	22	192.8	342.9	324	26 275	10.6	53.6	13.2	7.1	0.0	1.6	0.6	13.3	187	0.54	0.80	8.05
07SEP79	23 07SEP79	23	189.6	344.9	324	26 276	10.8	53.1	13.2	7.2	0.0	1.8	0.6	13.3	189	0.54	0.81	7.21

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

8

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
08SEP79	0	08SEP79	0	182.7	344.7	324	26	277	10.9	52.8	13.3	7.3	0.0	1.9	0.6	13.2	190	0.55	0.82	6.97
08SEP79	1	08SEP79	1	186.0	342.2	324	26	278	10.8	53.0	13.3	7.1	0.0	1.9	0.6	13.2	189	0.54	0.82	6.93
08SEP79	2	08SEP79	2	177.8	343.8	324	26	279	10.8	52.8	13.5	7.1	0.0	1.9	0.6	13.3	191	0.53	0.80	6.96
08SEP79	3	08SEP79	3	180.5	345.2	324	26	280	10.9	52.5	13.6	7.1	0.0	1.9	0.6	13.3	193	0.54	0.80	7.18
08SEP79	4	08SEP79	4	180.5	343.5	324	26	280	11.0	52.5	13.5	7.1	0.0	2.0	0.6	13.3	192	0.53	0.82	6.89
08SEP79	5	08SEP79	5	180.5	344.0	324	26	281	11.0	52.7	13.3	7.1	0.0	2.0	0.6	13.3	190	0.54	0.83	6.75
08SEP79	6	08SEP79	6	180.9	341.5	324	26	283	11.1	52.5	13.4	7.2	0.0	2.0	0.6	13.2	191	0.54	0.83	6.66
08SEP79	7	08SEP79	7	178.6	342.3	324	26	286	11.1	53.1	13.1	7.1	0.0	2.0	0.6	13.0	189	0.55	0.84	6.71
08SEP79	8	08SEP79	8	182.4	344.8	325	26	289	11.0	53.2	13.1	7.0	0.0	2.0	0.6	13.1	187	0.54	0.84	6.68
08SEP79	9	08SEP79	9	175.9	343.6	325	26	292	11.1	53.1	12.7	7.3	0.0	2.0	0.6	13.2	185	0.55	0.88	6.35
08SEP79	10	08SEP79	10	184.2	344.9	325	26	294	11.3	52.6	12.9	7.4	0.0	2.0	0.6	13.1	188	0.57	0.87	6.38
08SEP79	11	08SEP79	11	175.9	343.8	325	26	294	11.4	52.4	13.0	7.4	0.0	2.0	0.6	13.2	189	0.56	0.88	6.45
08SEP79	12	08SEP79	12	184.2	345.3	325	26	294	10.1	52.6	13.5	7.8	0.0	2.0	0.7	13.3	152	0.59	0.74	6.91
08SEP79	13	08SEP79	13	184.2	341.5	325	26	295	9.9	52.8	13.6	7.8	0.0	2.0	0.7	13.3	192	0.58	0.72	6.79
08SEP79	14	08SEP79	14	174.8	341.4	325	26	295	9.9	53.1	13.4	7.7	0.0	1.9	0.7	13.4	190	0.57	0.73	7.14
08SEP79	15	08SEP79	15	172.8	338.5	325	26	295	9.2	53.5	13.5	7.7	0.0	1.9	0.7	13.5	189	0.57	0.68	7.14
08SEP79	16	08SEP79	16	172.8	339.2	325	26	295	9.8	52.9	13.6	7.7	0.0	2.0	0.7	13.5	190	0.57	0.72	6.94
08SEP79	17	08SEP79	17	191.4	347.5	325	26	296	10.4	48.9	19.4	7.1	0.0	1.5	0.6	12.1	249	0.59	0.54	13.25
08SEP79	18	08SEP79	18	189.6	344.5	325	26	296	10.5	48.8	19.3	7.2	0.0	1.6	0.5	12.2	248	0.59	0.54	12.08
08SEP79	19	08SEP79	19	181.6	343.7	325	26	296	10.4	48.9	19.0	7.1	0.0	1.6	0.6	12.4	245	0.57	0.55	11.66
08SEP79	20	08SEP79	20	179.4	335.6	324	26	296	10.4	48.9	18.9	7.2	0.0	1.6	0.6	12.3	244	0.58	0.55	11.71
08SEP79	21	08SEP79	21	185.3	345.4	324	26	297	10.5	49.0	18.8	7.1	0.0	1.6	0.6	12.4	243	0.58	0.56	11.72
08SEP79	22	08SEP79	22	180.0	344.4	324	26	297	10.5	49.2	18.4	7.2	0.0	1.6	0.6	12.4	240	0.58	0.57	11.52
08SEP79	23	08SEP79	23	182.4	344.0	324	26	297	10.5	49.4	18.2	7.2	0.0	1.5	0.6	12.5	238	0.58	0.58	11.76

10:00 DRAINED TAR KNOCKOUT POT. 8 GALLON LIQUOR COLLECTED

19:00 DRAINED TAR KNOCKOUT POT. 14.13 GALLON LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

9

DATE HOUR	DATE HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
09SEP79	0 09SEP79	0 179.7	344.6	324	26	297	10.4	49.4	18.2	7.2	0.0	1.6	0.6	12.5	237	0.58	0.57	11.25
09SEP79	1 09SEP79	1 178.2	343.5	324	26	298	10.2	49.9	18.1	7.2	0.0	1.6	0.6	12.5	235	0.57	0.56	11.35
09SEP79	2 09SEP79	2 173.6	342.5	325	53	298	10.1	50.1	17.8	7.3	0.0	1.5	0.6	12.5	233	0.58	0.57	11.84
09SEP79	3 09SEP79	3 174.4	338.8	325	26	302	9.8	51.1	17.2	7.3	0.0	1.5	0.6	12.5	226	0.58	0.57	11.47
09SEP79	4 09SEP79	4 192.5	328.7	324	26	302	10.0	49.6	18.3	7.2	0.0	1.6	0.6	12.7	237	0.57	0.55	11.60
09SEP79	5 09SEP79	5 170.0	327.0	323	26	302	10.0	50.3	17.7	7.2	0.0	1.6	0.6	12.5	231	0.57	0.56	11.25
09SEP79	6 09SEP79	6 172.4	324.4	323	26	302	9.9	50.8	17.5	7.1	0.0	1.5	0.6	12.7	228	0.56	0.57	11.30
09SEP79	7 09SEP79	7 176.3	318.8	275	26	302	9.8	50.7	17.5	7.2	0.0	1.5	0.6	12.7	229	0.57	0.56	11.86
09SEP79	8 09SEP79	8 184.9	319.5	324	26	301	9.7	50.6	17.4	7.2	0.0	1.4	0.6	13.0	227	0.55	0.56	12.05
09SEP79	9 09SEP79	08:30 DRAINED TAR KNOCKOUT POT. 9.4 GALLON LIQUOR COLLECTED																
09SEP79	9 09SEP79	9 183.5	320.6	324	26	300	9.8	50.5	17.5	7.1	0.0	1.5	0.6	12.9	228	0.55	0.56	11.89
09SEP79	10 09SEP79	10 175.1	320.8	324	26	299	9.8	50.6	17.6	7.0	0.0	1.5	0.6	12.9	229	0.54	0.55	11.95
09SEP79	11 09SEP79	11 187.1	323.2	324	26	299	9.7	50.9	17.4	7.0	0.0	1.4	0.6	12.9	226	0.54	0.56	12.29
09SEP79	12 09SEP79	12 186.0	323.9	281	26	299	9.7	51.1	17.2	7.1	0.0	1.4	0.6	12.9	224	0.55	0.56	11.88
09SEP79	13 09SEP79	13 178.6	321.6	324	26	255	9.7	50.8	17.3	7.1	0.0	1.5	0.6	12.9	226	0.55	0.56	11.76
09SEP79	14 09SEP79	14 181.6	325.2	324	26	299	9.7	50.9	17.4	7.1	0.0	1.5	0.6	12.8	226	0.56	0.56	11.67
09SEP79	15 09SEP79	15 194.9	322.2	324	26	299	9.7	51.0	17.3	7.1	0.0	1.5	0.6	12.8	226	0.56	0.56	11.63
09SEP79	16 09SEP79	16 188.9	323.2	323	26	300	9.7	51.1	17.1	7.1	0.0	1.5	0.6	12.8	224	0.56	0.57	11.45
09SEP79	17 09SEP79	17 188.2	325.2	323	26	300	9.6	51.3	16.9	7.2	0.0	1.5	0.6	12.8	222	0.56	0.57	11.36
09SEP79	18 09SEP79	18 183.8	321.8	323	26	300	9.6	51.2	16.9	7.3	0.0	1.5	0.6	12.8	222	0.57	0.57	11.16
09SEP79	19 09SEP79	19 177.1	321.7	323	26	300	9.7	51.2	16.9	7.4	0.0	1.5	0.6	12.8	222	0.58	0.57	11.41
09SEP79	20 09SEP79	20 174.8	320.7	323	26	300	9.7	51.2	16.8	7.3	0.0	1.5	0.6	12.9	221	0.57	0.58	11.17
09SEP79	21 09SEP79	21 188.9	320.8	323	26	300	9.7	51.0	16.9	7.4	0.0	1.5	0.6	12.9	222	0.57	0.58	10.88
09SEP79	22 09SEP79	22 178.6	324.0	323	26	300	9.8	50.8	16.9	7.4	0.0	1.6	0.6	12.9	223	0.58	0.58	10.71
09SEP79	23 09SEP79	23 183.5	322.6	323	26	300	9.8	50.9	16.8	7.5	0.0	1.5	0.6	12.8	223	0.59	0.59	10.94

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
10SEP79	0	10SEP79	0	176.3	318.1	323	26	300	10.0	50.6	17.0	7.6	0.0	1.6	0.6	12.7	225	0.60	0.59	10.70
10SEP79	1	10SEP79	1	183.8	322.7	323	26	300	10.0	50.4	17.2	7.6	0.0	1.6	0.6	12.6	227	0.60	0.58	10.66
10SEP79	2	10SEP79	2	175.1	323.5	323	26	300	10.1	50.0	17.4	7.6	0.0	1.6	0.6	12.6	230	0.60	0.58	10.72
10SEP79	3	10SEP79	3	174.0	321.1	323	26	300	10.1	50.2	17.1	7.7	0.0	1.6	0.6	12.6	227	0.61	0.59	10.54
10SEP79	4	10SEP79	4	176.3	324.7	323	26	300	10.2	50.2	17.2	7.6	0.0	1.6	0.6	12.6	227	0.60	0.59	10.46
10SEP79	5	10SEP79	5	173.6	323.4	323	26	300	10.1	50.3	17.4	7.4	0.0	1.6	0.6	12.6	229	0.58	0.58	10.75
10SEP79	6	10SEP79	6	174.8	322.7	323	26	299	10.2	50.0	17.7	7.3	0.0	1.6	0.6	12.6	232	0.58	0.58	11.08
10SEP79	7	10SEP79	7	176.7	321.7	323	26	299	10.1	49.8	17.7	7.2	0.0	1.7	0.6	12.8	232	0.56	0.57	10.74
10SEP79	8	10SEP79	8	173.2	321.4	323	26	299	10.2	49.8	17.9	7.3	0.0	1.6	0.6	12.6	234	0.58	0.57	11.20
10SEP79	9	10SEP79	9	172.8	317.6	324	26	298	10.1	49.4	17.7	7.2	0.0	1.6	0.6	13.4	231	0.54	0.57	11.22
10SEP79	10	10SEP79	10	171.6	318.6	335	25	310												
10SEP79	11	10SEP79	11	170.4	318.6	335	25	310												
10SEP79	12	10SEP79	12	171.6	318.6	335	25	310												
10SEP79	13	10SEP79	13	187.5	318.6	335	25	310												
10SEP79	14	10SEP79	14	171.6	0.0				10.2	50.1	17.8	7.2	0.0	1.6	0.6	12.5	232	0.58	0.57	11.05
10SEP79	15	10SEP79	15	172.8	326.3	324	26	298	10.2	50.1	17.8	7.2	0.0	1.6	0.6	12.4	233	0.58	0.57	10.97
10SEP79	16	10SEP79	16	189.6	326.6	324	26	299	10.2	50.5	17.3	7.3	0.0	1.6	0.6	12.6	227	0.58	0.59	10.69
10SEP79	17	10SEP79	17	186.4	316.6	324	26	299												
10SEP79	18	10SEP79	18	182.4	319.8	324	26	299												
10SEP79	19	10SEP79	19	184.2	315.9	323	26	299												
10SEP79	20	10SEP79	20	181.6	320.7	323	26	299	19:00 DRAINED TAR KNOCKOUT POT. 13.7 GALLON LIQUOR COLLECTED											
10SEP79	21	10SEP79	21	182.7	326.4	323	26	299	10.0	50.4	17.1	7.8	0.0	1.5	0.6	12.7	226	0.61	0.59	11.30
10SEP79	22	10SEP79	22	180.1	323.9	323	26	299	10.1	50.0	17.2	7.8	0.0	1.5	0.6	12.7	228	0.62	0.58	11.15
10SEP79	23	10SEP79	23	181.2	323.0	323	26	299	10.1	49.6	17.6	7.9	0.0	1.6	0.6	12.6	232	0.62	0.58	11.16

40URLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
11SEP79	0	11SEP79	0	181.2	325.0	323	26	299	10.1	49.6	17.5	8.1	0.0	1.5	0.6	12.6	232	0.64	0.58	11.68
11SEP79	1	11SEP79	1	180.5	321.3	323	26	299	10.3	49.1	17.6	8.3	0.0	1.6	0.6	12.5	234	0.66	0.59	11.08
11SEP79	2	11SEP79	2	178.6	324.1	323	26	299	10.4	49.1	17.6	8.2	0.0	1.6	0.6	12.4	235	0.66	0.59	10.88
11SEP79	3	11SEP79	3	176.7	324.4	323	26	298	10.4	49.0	17.8	8.1	0.0	1.6	0.6	12.4	236	0.65	0.58	11.05
11SEP79	4	11SEP79	4	172.8	323.1	323	26	298	10.4	49.3	17.6	8.0	0.0	1.6	0.6	12.5	234	0.64	0.59	11.14
11SEP79	5	11SEP79	5	180.1	323.9	323	26	298	10.4	49.3	17.6	8.0	0.0	1.6	0.6	12.5	234	0.65	0.59	11.09
11SEP79	6	11SEP79	6	172.8	323.2	323	26	298	10.5	49.1	17.7	8.0	0.0	1.6	0.6	12.5	235	0.64	0.59	11.04
11SEP79	7	11SEP79	7	186.4	321.8	323	26	298	10.6	49.0	17.7	8.0	0.0	1.6	0.6	12.5	236	0.64	0.60	11.02
11SEP79	8	11SEP79	8	163.9	324.3	324	26	297	10.5	48.8	17.8	8.0	0.0	1.6	0.6	12.7	236	0.63	0.59	11.14
11SEP79	9	11SEP79	9	171.6	313.0	324	26	297	10.7	48.3	18.0	7.9	0.0	1.6	0.6	12.8	238	0.62	0.60	11.12
11SEP79	10	11SEP79	10	172.0	320.1	324	26	296	10.7	48.5	18.1	7.9	0.0	1.6	0.6	12.6	240	0.63	0.59	11.12
11SEP79	11	11SEP79	11	170.4	323.5	324	26	296	10.7	48.1	18.4	7.8	0.0	1.6	0.6	12.7	242	0.62	0.58	11.45
11SEP79	12	11SEP79	12	172.0	326.1	324	26	296	10.6	48.8	18.3	7.6	0.0	1.5	0.6	12.5	240	0.61	0.58	11.92
11SEP79	13	11SEP79	13	170.4	322.8	324	26	296	10.6	48.9	18.3	7.6	0.0	1.6	0.6	12.4	240	0.61	0.58	11.77
11SEP79	14	11SEP79	14	176.7	325.2	324	26	296	10.6	49.2	18.2	7.6	0.0	1.6	0.6	12.3	239	0.62	0.58	11.50
11SEP79	15	11SEP79	15	170.4	310.2	324	26	297	10.6	48.9	18.4	7.7	0.0	1.6	0.6	12.3	241	0.62	0.57	11.55
11SEP79	16	11SEP79	16	170.4	325.6	324	26	297	10.5	49.2	18.1	7.6	0.0	1.6	0.6	12.4	238	0.62	0.58	11.44
11SEP79	17	11SEP79	17	170.8	323.7	324	26	297	10.5	49.0	18.3	7.6	0.0	1.6	0.6	12.4	240	0.61	0.57	11.39
11SEP79	18	11SEP79	18	174.8	313.0	324	26	297												
11SEP79	19	11SEP79	19	89.8	314.5	324	26	298												
11SEP79	20	11SEP79	20	93.8	316.0	324	26	298												
11SEP79	21	11SEP79	21	96.5	310.9	323	26	297	20:00 DRAINED TAR KNOCKOUT POT. 6.3 GALLON LIQUOR COLLECTED											
11SEP79	22	11SEP79	22	95.3	299.5	323	26	297												
11SEP79	23	11SEP79	23	91.9	311.4	324	26	297												

20:00 DRAINED TAR KNOCKOUT POT. 6.3 GALLON LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
12SEP79	0	12SEP79	0	86.2	313.5	323	26	297												
12SEP79	1	12SEP79	1	84.7	307.4	323	26	297												
12SEP79	2	12SEP79	2	84.1	321.1	323	26	298	10.7	48.4	19.8	7.5	0.0	0.5	0.6	12.6	255	0.60	0.54	43.02
12SEP79	3	12SEP79	3	82.4	312.4	323	26	298												
12SEP79	4	12SEP79	4	88.8	321.8	323	26	298	10.8	47.7	19.6	7.3	0.0	1.5	0.6	12.4	253	0.59	0.55	12.94
12SEP79	5	12SEP79	5	86.1	313.6	323	26	298												
12SEP79	6	12SEP79	6	86.8	305.5	323	26	298												
12SEP79	7	12SEP79	7	86.0	365.3	323	23	298	10.7	47.7	19.8	7.2	0.0	1.6	0.6	12.4	254	0.58	0.54	12.54
12SEP79	8	12SEP79	8	104.0	298.7	324	24	297	11.0	47.3	19.9	7.2	0.0	1.6	0.6	12.4	256	0.58	0.55	12.43
12SEP79	9	12SEP79	9	172.0	278.8	324	24	296	10.7	47.6	20.0	7.1	0.0	1.6	0.5	12.6	256	0.57	0.54	12.84
12SEP79	10	12SEP79	10	174.4	268.4	325	24	297	10.7	47.6	19.8	7.2	0.0	1.6	0.6	12.6	254	0.57	0.54	12.19
12SEP79	11	12SEP79	11	174.4	289.6	326	24	297	10.7	47.8	19.7	7.1	0.0	1.6	0.6	12.6	252	0.56	0.54	12.22
12SEP79	12	12SEP79	12	177.2	280.0	326	24	297	10.6	48.0	19.6	7.0	0.0	1.6	0.6	12.5	251	0.56	0.54	11.93
12SEP79	13	12SEP79	13	183.3	282.6	327	24	297	10.7	47.9	19.6	7.0	0.0	1.7	0.6	12.5	251	0.56	0.54	11.67
12SEP79	14	12SEP79	14	187.2	284.0	327	24	297	11.2	47.2	20.2	6.5	0.0	1.4	0.6	13.0	257	0.50	0.55	14.92
12SEP79	15	12SEP79	15	187.8	282.9	326	24	298	10.7	48.0	19.5	7.0	0.0	1.6	0.6	12.5	251	0.56	0.55	12.02
12SEP79	16	12SEP79	16	181.4	277.8	326	24	299	10.8	47.8	19.6	7.0	0.0	1.7	0.6	12.5	252	0.56	0.55	11.51
12SEP79	17	12SEP79	17	185.5	287.7	326	24	300	10.8	47.8	19.7	6.9	0.0	1.7	0.6	12.5	252	0.55	0.55	11.52
12SEP79	18	12SEP79	18	186.5	274.0	326	24	300												
12SEP79	19	12SEP79	19	184.6	267.0	325	24	300												
12SEP79	20	12SEP79	20	185.4	272.7	326	24	300												
12SEP79	21	12SEP79	21	182.8	269.8	325	24	301												
12SEP79	22	12SEP79	22	185.2	286.3	325	24	301	10.6	48.0	20.0	6.8	0.0	1.2	0.6	12.7	255	0.54	0.53	16.06
12SEP79	23	12SEP79	23	182.6	276.4	325	24	301	10.6	48.0	19.6	6.9	0.0	1.5	0.6	12.7	251	0.55	0.54	12.68

08:00 DRAINED TAR KNOCKOUT POT. 4.0 GALLON LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

13

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
13SEP79	0	13SEP79	0	182.2	274.6	325	24	301	10.6	48.3	19.5	6.8	0.0	1.6	0.6	12.6	249	0.54	0.54	11.95
13SEP79	1	13SEP79	1	184.0	277.5	325	24	301	10.5	49.0	18.7	6.9	0.0	1.6	0.6	12.7	241	0.54	0.56	11.52
13SEP79	2	13SEP79	2	182.4	288.3	325	24	301	10.5	48.3	19.2	7.0	0.0	1.7	0.6	12.7	247	0.55	0.55	11.63
13SEP79	3	13SEP79	3	181.8	282.9	325	24	301	10.5	48.0	19.6	6.9	0.0	1.7	0.6	12.7	250	0.54	0.54	11.54
13SEP79	4	13SEP79	4	180.2	281.0	325	24	302	10.6	48.7	19.0	6.8	0.0	1.7	0.5	12.8	244	0.53	0.56	11.40
13SEP79	5	13SEP79	5	167.7	282.1	325	24	302	10.5	49.2	18.3	6.9	0.0	1.7	0.6	12.8	238	0.54	0.57	10.97
13SEP79	6	13SEP79	6	166.9	278.0	325	24	302	10.4	49.5	18.3	6.8	0.0	1.7	0.6	12.8	237	0.53	0.56	11.09
13SEP79	7	13SEP79	7	221.9	270.9	323	24	302												
13SEP79	8	13SEP79	8	177.5	276.7	326	24	301												
13SEP79	9	13SEP79	9	186.0	283.3	326	24	302	10.1	50.5	17.7	6.7	0.0	1.4	0.6	12.9	230	0.52	0.57	12.54
13SEP79	10	13SEP79	10	148.0	305.0	335	25	310												
13SEP79	11	13SEP79	11	148.0	305.0	335	25	310												
13SEP79	12	13SEP79	12	185.3	280.9	326	24	301	10.2	50.0	18.0	6.6	0.0	1.6	0.6	13.0	233	0.51	0.56	11.22
13SEP79	13	13SEP79	13	350.2	626.1	325	28	127	10.1	53.6	15.7	6.4	0.8	1.4	0.7	11.8	209	0.54	0.64	11.33
13SEP79	14	13SEP79	14	385.8	480.0	325	25	16	8.8	57.6	11.2	7.4	0.0	1.2	0.7	13.0	163	0.57	0.79	9.08
13SEP79	15	13SEP79	15	353.0	466.9	325	24	17	8.4	57.6	10.4	8.5	0.0	1.2	0.7	13.1	158	0.65	0.81	8.76
13SEP79	16	13SEP79	16	335.3	426.7	325	25	17	8.4	57.2	10.4	9.1	0.0	1.2	0.7	13.0	159	0.70	0.81	8.68
13SEP79	17	13SEP79	17	290.3	398.6	325	24	17	8.5	56.0	11.2	9.4	0.0	1.3	0.7	12.9	168	0.73	0.77	8.89
13SEP79	18	13SEP79	18	282.3	396.3	325	24	17	8.7	55.4	11.7	9.3	0.0	1.3	0.7	12.9	174	0.72	0.74	9.20
13SEP79	19	13SEP79	19	279.0	387.1	325	24	17	8.8	55.3	11.9	9.1	0.0	1.3	0.7	12.9	176	0.71	0.74	9.34
13SEP79	20	13SEP79	20	272.1	386.1	325	24	17	9.0	55.2	12.0	8.9	0.0	1.3	0.7	12.9	177	0.69	0.75	9.32
13SEP79	21	13SEP79	21	269.5	377.4	325	24	17	9.2	55.0	12.1	8.9	0.0	1.3	0.7	12.8	178	0.69	0.76	9.18
13SEP79	22	13SEP79	22	260.2	374.4	325	24	17	9.4	54.6	12.4	8.9	0.0	1.4	0.7	12.7	181	0.70	0.76	9.14
13SEP79	23	13SEP79	23	262.8	375.0	325	24	17	9.6	54.1	12.8	8.8	0.0	1.4	0.7	12.7	186	0.69	0.75	9.27

13:05 **SYSTEM CHANGE. PRODUCTION OUT OF PI-2 AS WELL AS PI-3
(I) (P) (P)

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
14SEP79	0	14SEP79	0	262.7	379.4	325	24	17	9.7	53.7	13.1	8.8	0.0	1.4	0.7	12.6	190	0.69	0.74	9.36
14SEP79	1	14SEP79	1	252.8	377.3	325	24	17	9.8	53.2	13.5	8.7	0.0	1.4	0.7	12.6	194	0.69	0.73	9.53
14SEP79	2	14SEP79	2	251.4	375.0	325	24	17	9.9	52.8	13.8	8.7	0.0	1.4	0.7	12.6	197	0.69	0.72	9.59
14SEP79	3	14SEP79	3	258.5	377.1	325	24	17	10.0	52.5	14.1	8.7	0.0	1.5	0.6	12.5	200	0.70	0.71	9.67
14SEP79	4	14SEP79	4	254.6	374.8	325	24	17	10.2	52.0	14.4	8.7	0.0	1.5	0.6	12.5	204	0.70	0.70	9.77
14SEP79	5	14SEP79	5	242.8	373.2	325	24	17	10.2	51.7	14.8	8.7	0.0	1.5	0.6	12.5	207	0.70	0.69	9.94
14SEP79	6	14SEP79	6	239.1	355.2	325	24	17	10.3	51.5	15.0	8.6	0.0	1.5	0.6	12.4	209	0.69	0.69	10.02
14SEP79	7	14SEP79	7	236.9	352.9	325	24	17	10.2	51.7	14.9	8.6	0.0	1.5	0.6	12.5	208	0.69	0.69	10.03
14SEP79	8	14SEP79	8	242.1	360.3	326	24	16	10.3	51.4	15.1	8.5	0.0	1.5	0.6	12.5	210	0.68	0.68	10.11
14SEP79	9	14SEP79	9	241.3	360.6	326	24	16	10.3	51.5	15.1	8.4	0.0	1.5	0.6	12.6	210	0.67	0.68	10.06
14SEP79	10	14SEP79	10	235.2	355.2	325	24	16	10.3	51.4	15.3	8.2	0.0	1.5	0.6	12.6	211	0.65	0.67	10.09
14SEP79	11	14SEP79	11	237.8	351.2	325	24	17	10.3	51.4	15.3	8.2	0.0	1.5	0.6	12.6	211	0.66	0.68	10.05
14SEP79	12	14SEP79	12	239.7	346.9	325	24	16	10.3	51.5	15.3	8.2	0.0	1.5	0.6	12.5	211	0.66	0.68	10.10
14SEP79	13	14SEP79	13	235.4	351.2	325	24	16	10.2	51.8	15.2	8.2	0.0	1.5	0.6	12.5	210	0.65	0.67	10.08
14SEP79	14	14SEP79	14	231.4	337.2	325	24	16	10.1	52.1	15.0	8.2	0.0	1.5	0.6	12.4	208	0.66	0.68	10.03
14SEP79	15	14SEP79	15	230.9	337.1	325	24	16	14:15 DRAINED TAR KNOCKOUT POT. 23.5 GALLON LIQUOR COLLECTED											
14SEP79	16	14SEP79	16	225.5	334.3	325	24	16												
14SEP79	17	14SEP79	17	229.7	335.4	325	24	16												
14SEP79	18	14SEP79	18	246.7	329.7	325	24	16												
14SEP79	19	14SEP79	19	221.8	331.8	325	24	15												
14SEP79	20	14SEP79	20	231.6	340.5	325	23	15	10.7	50.7	16.5	8.0	0.0	1.1	0.6	12.4	223	0.65	0.65	15.34
14SEP79	21	14SEP79	21	214.6	343.0	325	24	15	10.7	50.5	16.4	8.1	0.0	1.4	0.6	12.4	223	0.65	0.65	11.80
14SEP79	22	14SEP79	22	216.2	338.3	325	24	15	10.7	50.3	16.6	8.0	0.0	1.5	0.6	12.3	225	0.65	0.64	11.30
14SEP79	23	14SEP79	23	215.4	335.5	325	24	15	10.7	50.0	16.8	8.0	0.0	1.5	0.6	12.4	227	0.65	0.63	11.20

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
15SEP79	0	15SEP79	0	219.5	337.9	325	24	15	10.7	50.0	16.9	8.0	0.0	1.5	0.6	12.3	228	0.65	0.63	11.15
15SEP79	1	15SEP79	1	217.2	337.2	325	24	15	10.6	50.1	16.8	8.0	0.0	1.5	0.6	12.3	227	0.65	0.63	11.07
15SEP79	2	15SEP79	2	219.2	329.1	325	24	15	10.5	50.3	16.7	8.0	0.0	1.5	0.6	12.4	225	0.64	0.63	11.02
15SEP79	3	15SEP79	3	220.9	334.0	325	24	15	10.5	50.6	16.4	8.0	0.0	1.5	0.6	12.4	222	0.64	0.64	11.02
15SEP79	4	15SEP79	4	229.8	326.0	325	24	15	10.5	50.7	16.4	7.9	0.0	1.5	0.6	12.5	221	0.63	0.64	11.06
15SEP79	5	15SEP79	5	227.0	323.4	325	24	15	10.4	51.0	16.2	7.7	0.0	1.5	0.6	12.6	218	0.61	0.64	10.95
15SEP79	6	15SEP79	6	225.0	324.2	325	24	15	10.4	50.9	16.3	7.7	0.0	1.5	0.6	12.7	220	0.61	0.64	10.99
15SEP79	7	15SEP79	7	226.3	327.5	325	24	15	10.4	50.8	16.4	7.7	0.0	1.5	0.6	12.6	221	0.61	0.63	11.06
15SEP79	8	15SEP79	8	224.2	324.1	326	24	15												
15SEP79	9	15SEP79	9	230.7	323.0	326	24	15												
15SEP79	10	15SEP79	10	234.9	325.5	326	24	15												
15SEP79	11	15SEP79	11	228.5	311.7	326	24	15												
15SEP79	12	15SEP79	12	228.4	316.5	326	24	15												
15SEP79	13	15SEP79	13	229.9	318.7	326	24	15												
15SEP79	14	15SEP79	14	228.1	317.9	326	24	15												
15SEP79	15	15SEP79	15	226.9	321.0	326	24	15	10.1	51.5	15.8	8.1	0.0	1.1	0.6	12.9	215	0.63	0.64	14.47
15SEP79	16	15SEP79	16	221.7	325.3	326	24	15	10.1	51.4	15.7	8.0	0.0	1.3	0.6	12.8	214	0.62	0.64	12.23
15SEP79	17	15SEP79	17	226.8	327.1	326	24	15	10.0	51.2	16.3	7.9	0.0	1.0	0.6	12.9	220	0.62	0.62	16.44
15SEP79	18	15SEP79	18	223.5	323.2	325	24	15	10.1	51.1	15.9	8.1	0.0	1.3	0.6	12.9	216	0.63	0.63	12.40
15SEP79	19	15SEP79	19	222.4	324.4	325	24	15	10.1	50.8	16.0	8.2	0.0	1.4	0.6	12.8	218	0.64	0.63	11.57
15SEP79	20	15SEP79	20	222.0	317.8	325	24	15	10.1	50.7	16.0	8.2	0.0	1.4	0.6	12.8	218	0.64	0.63	11.27
15SEP79	21	15SEP79	21	230.1	319.1	325	24	15	10.2	50.9	15.8	8.2	0.0	1.4	0.6	12.9	216	0.64	0.64	10.99
15SEP79	22	15SEP79	22	213.0	320.8	325	24	15	10.2	50.8	15.8	8.3	0.0	1.5	0.6	12.8	216	0.65	0.65	10.86
15SEP79	23	15SEP79	23	218.1	322.8	325	24	15	10.3	50.5	16.0	8.3	0.0	1.5	0.6	12.8	218	0.65	0.64	10.96

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DATE	HOUR	DATE	HOUR	INFL0	OUTFLO	P11	P12	P13	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
16SEP79	0	16SEP79	0	215.5	320.5	325	24	15	10.3	50.7	15.8	8.3	0.0	1.5	0.6	12.8	217	0.65	0.65	10.80
16SEP79	1	16SEP79	1	221.7	318.7	325	24	15	10.3	50.7	15.8	8.3	0.0	1.5	0.6	12.8	217	0.65	0.65	10.73
16SEP79	2	16SEP79	2	217.5	317.5	325	24	15	10.3	50.5	15.9	8.4	0.0	1.5	0.6	12.7	218	0.66	0.65	10.75
16SEP79	3	16SEP79	3	215.9	319.7	325	24	15	10.3	50.4	16.0	8.5	0.0	1.5	0.6	12.7	219	0.67	0.65	10.80
16SEP79	4	16SEP79	4	216.3	318.2	325	24	15	10.3	50.4	16.1	8.4	0.0	1.5	0.6	12.7	220	0.67	0.64	10.85
16SEP79	5	16SEP79	5	216.0	323.3	325	24	15	10.3	50.6	16.1	8.4	0.0	1.5	0.6	12.6	220	0.67	0.64	10.99
16SEP79	6	16SEP79	6	215.4	314.6	325	24	15	10.2	50.6	16.4	8.3	0.0	1.5	0.6	12.5	222	0.66	0.62	11.06
16SEP79	7	16SEP79	7	214.9	316.0	325	24	15	10.3	50.1	16.4	8.4	0.0	1.5	0.5	12.7	223	0.66	0.63	10.92
16SEP79	8	16SEP79	8	207.4	311.6	325	24	15	10.4	50.2	16.2	8.4	0.0	1.5	0.6	12.7	221	0.67	0.64	10.81
16SEP79	9	16SEP79	9	212.8	304.2	326	24	15												
16SEP79	10	16SEP79	10	189.6	305.1	326	24	15												
16SEP79	11	16SEP79	11	210.3	301.9	325	24	15												
16SEP79	12	16SEP79	12	221.2	304.7	326	24	15												
16SEP79	13	16SEP79	13	201.0	301.9	327	24	15	10.4	49.1	17.4	8.3	0.0	1.4	0.6	12.7	233	0.65	0.60	12.29
16SEP79	14	16SEP79	14	205.4	303.4	326	24	15	10.5	49.0	17.6	8.2	0.0	1.5	0.6	12.7	235	0.64	0.59	12.01
16SEP79	15	16SEP79	15	205.4	302.9	326	24	15	10.5	49.0	17.6	8.2	0.0	1.5	0.6	12.6	234	0.65	0.60	11.72
16SEP79	16	16SEP79	16	204.6	301.9	326	24	15	10.5	49.1	17.4	8.1	0.0	1.6	0.6	12.7	233	0.64	0.60	11.22
16SEP79	17	16SEP79	17	205.9	310.6	325	24	15	10.6	49.0	17.4	8.1	0.0	1.6	0.6	12.7	233	0.64	0.61	10.97
16SEP79	18	16SEP79	18	206.2	315.8	325	24	15	10.5	49.1	17.5	8.0	0.0	1.6	0.6	12.7	233	0.63	0.60	10.91
16SEP79	19	16SEP79	19	206.8	308.0	325	24	15	10.6	49.2	17.3	8.0	0.0	1.6	0.6	12.6	232	0.64	0.61	10.94
16SEP79	20	16SEP79	20	202.5	312.2	325	24	15	10.5	49.0	17.4	8.1	0.0	1.6	0.6	12.8	232	0.64	0.61	10.99
16SEP79	21	16SEP79	21	201.5	445.3	326	24	15	49.9	24.8	24.6	0.6	0.0	0.0	0.0	0.0	406	133.00	2.03	10170
16SEP79	22	16SEP79	22	204.6	310.0	324	24	15	11.0	51.1	16.6	6.8	0.0	1.4	0.6	12.4	222	0.55	0.67	11.72
16SEP79	23	16SEP79	23	211.0	312.3	324	24	15	10.8	50.2	17.8	6.8	0.0	1.6	0.6	12.1	234	0.56	0.61	11.44

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

17

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
17SEP79	0	17SEP79	0	212.6	318.3	324	24	15	10.8	50.2	17.9	6.7	0.0	1.6	0.6	12.1	234	0.56	0.61	11.38
17SEP79	1	17SEP79	1	210.7	311.6	324	24	15	10.8	50.2	17.9	6.8	0.0	1.6	0.6	12.1	234	0.56	0.60	11.26
17SEP79	2	17SEP79	2	213.2	310.0	324	24	15	10.8	50.3	17.9	6.7	0.0	1.6	0.6	12.1	234	0.55	0.60	11.27
17SEP79	3	17SEP79	3	211.1	307.8	324	24	15	10.8	50.4	17.8	6.7	0.0	1.6	0.6	12.1	232	0.55	0.61	11.23
17SEP79	4	17SEP79	4	208.1	307.8	324	24	15	10.8	50.3	17.9	6.8	0.0	1.6	0.6	12.1	234	0.56	0.60	11.14
17SEP79	5	17SEP79	5	207.4	310.9	324	24	15	10.8	50.4	17.8	6.8	0.0	1.6	0.6	12.1	233	0.56	0.60	11.05
17SEP79	6	17SEP79	6	207.8	305.5	324	24	15	10.8	50.3	17.9	6.7	0.0	1.6	0.6	12.1	234	0.56	0.60	11.17
17SEP79	7	17SEP79	7	209.8	308.0	324	24	15	10.8	50.4	17.8	6.7	0.0	1.6	0.6	12.1	233	0.55	0.60	11.15
17SEP79	8	17SEP79	8	183.1	139.7	325	170	15	10.8	50.5	17.7	6.7	0.0	1.6	0.6	12.1	232	0.55	0.61	11.21
17SEP79	9	17SEP79	9	23.5	0.2	327	270	15	08:35 **SYSTEM CHANGE. CLOSE PI-2. PRODUCTION OUT OF PI-3 ONLY											
17SEP79	10	17SEP79	10	23.5	0.2	326	269	15	11.1	46.1	23.2	4.6	0.0	1.6	0.6	12.8	281	0.36	0.48	14.23
17SEP79	11	17SEP79	11	216.3	363.9	325	193	31	12.3	41.4	25.1	4.5	0.0	1.9	0.5	14.3	303	0.31	0.49	12.97
17SEP79	12	17SEP79	12	186.1	370.5	325	92	154	17.0	36.3	23.9	6.6	0.0	3.1	0.5	12.5	314	0.53	0.71	7.72
17SEP79	13	17SEP79	13	160.7	262.1	326	178	126	15.8	37.1	24.7	6.0	0.0	2.6	0.5	13.3	316	0.45	0.64	9.40
17SEP79	14	17SEP79	14	171.6	244.4	326	298	16	13.5	44.5	20.0	5.4	0.0	2.7	0.6	13.4	259	0.41	0.68	7.37
17SEP79	15	17SEP79	15	151.9	241.3	325	297	16	13.3	47.9	18.4	5.4	0.0	2.3	0.6	12.1	242	0.45	0.72	7.83
17SEP79	16	17SEP79	16	172.0	238.2	325	297	17												
17SEP79	17	17SEP79	17	143.1	226.5	325	297	17	12.3	49.4	17.4	5.3	0.0	1.9	0.6	13.1	229	0.40	0.71	9.17
17SEP79	18	17SEP79	18	93.5	195.1	325	297	17	12.3	47.9	18.6	5.2	0.0	2.0	0.6	13.4	241	0.39	0.66	9.12
17SEP79	19	17SEP79	19	187.7	530.2	325	151	18	13.6	44.8	20.0	5.5	0.0	2.2	0.6	13.4	260	0.41	0.68	9.06
17SEP79	20	17SEP79	20	325.4	408.1	324	25	18	13.3	53.5	12.5	5.4	0.0	2.2	0.7	12.6	183	0.43	1.06	5.76
17SEP79	21	17SEP79	21	317.2	408.8	324	25	18	11.1	58.1	10.0	5.7	0.0	1.9	0.7	12.4	153	0.46	1.12	5.32
17SEP79	22	17SEP79	22	329.3	414.2	323	25	18	10.4	59.2	9.2	6.1	0.0	1.7	0.7	12.7	144	0.48	1.12	5.45
17SEP79	23	17SEP79	23	307.9	411.9	324	25	18	9.8	58.7	10.2	6.3	0.0	1.5	0.7	12.7	153	0.50	0.96	6.63

12:00 DRAINED TAR KNOCKOUT POT. 65.2 GALLON LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

18

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_M2S
18SEP79	0	18SEP79	0	287.1	392.1	324	25	18	9.7	58.4	10.0	6.7	0.0	1.5	0.7	13.0	152	0.51	0.96	6.76
18SEP79	1	18SEP79	1	266.3	370.5	324	25	18	9.7	57.8	10.4	6.8	0.0	1.5	0.7	13.1	156	0.52	0.93	7.02
18SEP79	2	18SEP79	2	248.5	350.9	324	25	18	9.8	56.8	11.1	6.9	0.0	1.5	0.7	13.2	164	0.52	0.88	7.26
18SEP79	3	18SEP79	3	237.1	339.1	325	25	18	10.0	56.0	11.7	6.9	0.0	1.6	0.7	13.2	170	0.52	0.86	7.33
18SEP79	4	18SEP79	4	221.7	325.2	324	25	18	10.2	55.3	12.2	6.8	0.0	1.7	0.7	13.2	175	0.52	0.84	7.31
18SEP79	5	18SEP79	5	211.5	300.9	325	25	18	10.4	54.3	12.8	6.8	0.0	1.7	0.7	13.4	182	0.51	0.81	7.33
18SEP79	6	18SEP79	6	258.9	351.3	324	25	18	10.8	55.0	12.6	6.9	0.0	1.6	0.7	12.5	182	0.55	0.85	7.68
18SEP79	7	18SEP79	7	236.5	335.4	324	25	18	10.4	55.2	12.0	6.8	0.0	1.7	0.7	13.1	174	0.52	0.87	7.01
18SEP79	8	18SEP79	8	226.9	322.9	325	25	18	10.4	55.1	12.0	7.0	0.0	1.7	0.7	13.1	175	0.53	0.86	7.14
18SEP79	9	18SEP79	9	231.0	323.7	325	25	18	10.4	56.9	10.0	7.6	0.0	1.5	0.7	12.9	157	0.59	1.04	6.55
18SEP79	10	18SEP79	10	234.0	320.4	325	25	17	10.5	56.4	10.0	7.7	0.0	1.6	0.7	13.0	158	0.60	1.05	6.12
18SEP79	11	18SEP79	11	233.8	324.5	325	25	29	10.6	56.5	9.9	7.7	0.0	1.7	0.7	13.0	156	0.59	1.07	5.89
18SEP79	12	18SEP79	12	234.3	320.9	325	25	17	10.7	56.5	9.8	7.6	0.0	1.7	0.7	13.0	156	0.58	1.09	5.78
18SEP79	13	18SEP79	13	233.0	321.7	326	25	17	10.8	56.6	9.7	7.5	0.0	1.7	0.7	13.1	155	0.57	1.11	5.68
18SEP79	14	18SEP79	14	234.5	315.2	326	25	17												
18SEP79	15	18SEP79	15	234.0	317.6	325	25	17												
18SEP79	16	18SEP79	16	235.6	319.8	325	25	17	11.0	57.7	9.7	7.4	0.0	1.2	0.7	12.4	154	0.59	1.14	8.33
18SEP79	17	18SEP79	17	229.5	318.7	325	25	17	11.0	56.7	9.9	7.0	0.0	1.6	0.7	13.1	156	0.54	1.12	6.33
18SEP79	18	18SEP79	18	232.5	314.3	325	24	17	11.1	56.2	10.1	7.1	0.0	1.6	0.7	13.2	158	0.54	1.10	6.11
18SEP79	19	18SEP79	19	258.3	311.6	319	25	17	11.1	56.0	10.2	7.1	0.0	1.7	0.7	13.2	155	0.54	1.09	6.02
18SEP79	20	18SEP79	20	230.0	312.2	325	25	18	11.2	54.8	11.0	7.2	0.0	1.8	0.7	13.4	167	0.53	1.02	6.08
18SEP79	21	18SEP79	21	224.3	314.3	325	25	18	11.2	56.0	10.1	7.0	0.0	1.8	0.7	13.2	158	0.53	1.11	5.75
18SEP79	22	18SEP79	22	225.7	312.2	325	24	17	11.1	56.4	9.9	7.0	0.0	1.7	0.7	13.2	156	0.53	1.12	5.69
18SEP79	23	18SEP79	23	225.3	310.7	325	24	18	11.0	56.3	9.9	7.1	0.0	1.8	0.7	13.2	156	0.53	1.12	5.63

11:15 DRAINED TAR KNOCKOUT POT. 11.8 GALLON LIQUOR COLLECTED

234

14 1

[illegible]

40URLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

20

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
20SEP79	0	20SEP79	0	209.9	293.5	324	24	18	10.9	56.0	10.6	6.9	0.0	1.5	0.7	13.4	163	0.51	1.02	6.99
20SEP79	1	20SEP79	1	213.7	292.5	324	24	18	10.9	55.9	10.6	6.9	0.0	1.6	0.7	13.3	162	0.52	1.03	6.59
20SEP79	2	20SEP79	2	213.3	292.5	324	24	18	10.9	56.2	10.4	6.9	0.0	1.6	0.7	13.3	160	0.51	1.04	6.39
20SEP79	3	20SEP79	3	211.8	290.3	324	24	18	10.8	56.2	10.5	6.8	0.0	1.6	0.7	13.3	161	0.51	1.04	6.36
20SEP79	4	20SEP79	4	215.9	291.9	324	24	18	10.8	56.2	10.4	6.9	0.0	1.7	0.7	13.4	159	0.52	1.05	6.22
20SEP79	5	20SEP79	5	228.1	326.9	325	24	18	10.9	56.2	10.3	6.9	0.0	1.7	0.7	13.3	155	0.52	1.05	6.16
20SEP79	6	20SEP79	6	209.7	405.2	325	24	18	10.9	56.2	10.3	7.0	0.0	1.7	0.7	13.3	160	0.52	1.05	6.12
20SEP79	7	20SEP79	7	198.8	279.6	324	25	19	10.9	56.2	10.3	6.9	0.0	1.7	0.7	13.3	159	0.52	1.06	6.14
20SEP79	8	20SEP79	8	200.1	301.1	324	26	19	11.0	55.9	10.6	6.8	0.0	1.7	0.7	13.4	162	0.51	1.04	6.17
20SEP79	9	20SEP79	9	189.4	290.0	324	25	18	11.0	56.0	10.5	6.7	0.0	1.7	0.7	13.4	161	0.50	1.05	6.14
20SEP79	10	20SEP79	10	197.4	286.5	324	24	52												
20SEP79	11	20SEP79	11	175.1	247.7	325	48	300	10.5	57.1	10.7	6.3	1.3	1.5	0.7	12.9	160	0.49	0.98	7.27
20SEP79	12	20SEP79	12	175.3	252.0	325	24	476	10.8	56.3	11.2	6.3	1.3	1.7	0.7	12.9	166	0.49	0.97	6.74
20SEP79	13	20SEP79	13	168.8	263.6	326	24	562	11.6	53.9	11.9	6.6	0.0	1.8	0.7	13.6	176	0.49	0.97	6.59
20SEP79	14	20SEP79	14	147.3	254.2	320	25	606	11.8	53.4	12.3	6.5	0.0	1.9	0.7	13.4	180	0.48	0.96	6.30
20SEP79	15	20SEP79	15	27.8	214.0	294	24	595	13.4	46.2	16.2	6.5	0.0	2.4	0.6	14.8	224	0.44	0.83	6.84
20SEP79	16	20SEP79	16	294.1	206.9	288	24	581	17.4	30.7	24.4	7.3	0.0	3.3	0.4	16.5	322	0.44	0.71	7.38
20SEP79	17	20SEP79	17	152.5	202.2	325	46	568	15.1	45.7	16.1	6.1	0.0	2.9	0.6	13.5	228	0.45	0.94	5.65
20SEP79	18	20SEP79	18	176.4	380.1	325	48	558	12.8	52.2	12.8	5.9	0.0	2.4	0.6	13.2	187	0.45	1.00	5.41
20SEP79	19	20SEP79	19	180.2	321.2	325	45	547	12.3	53.9	11.8	6.0	0.0	2.2	0.7	13.1	175	0.46	1.05	5.31
20SEP79	20	20SEP79	20	125.5	258.0	325	50	437	12.8	52.1	12.0	5.5	0.0	2.3	0.6	14.7	178	0.38	1.06	5.24
20SEP79	21	20SEP79	21	276.8	666.9	324	37	182	12.4	51.5	12.4	5.7	0.0	2.0	0.6	15.3	182	0.37	1.00	6.10
20SEP79	22	20SEP79	22	367.9	552.6	323	25	19	9.8	61.6	7.1	6.2	0.0	1.5	0.8	13.1	122	0.48	1.38	4.86
20SEP79	23	20SEP79	23	422.2	555.2	323	26	19	8.7	63.1	6.0	7.1	0.0	1.4	0.8	12.8	111	0.56	1.44	4.17

1 PI-1 STATUS 11:30 *INCREASED HP/LV REGULATOR TO 450 PSIG. LITTLE FLOW IN PI-3

2 LIQUOR COLLECTED

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

21

DATE	HJUP	DATE	HOUP	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
21SEP79	0	21SEP79	0	442.5	569.4	322	26	19	8.1	63.4	5.6	8.1	0.0	1.3	0.8	12.8	107	0.63	1.45	4.43
21SEP79	1	21SEP79	1	426.0	553.4	323	25	19	7.9	63.1	5.4	8.9	0.0	1.2	0.8	12.7	107	0.70	1.47	4.65
21SEP79	2	21SEP79	2	404.9	523.6	323	25	19	7.9	62.5	5.7	9.4	0.0	1.1	0.8	12.5	112	0.75	1.39	4.98
21SEP79	3	21SEP79	3	367.0	504.3	323	25	19	8.0	62.1	6.0	9.5	0.0	1.2	0.8	12.5	115	0.76	1.35	5.07
21SEP79	4	21SEP79	4	337.9	447.5	324	25	18	8.2	61.6	6.0	9.7	0.0	1.2	0.8	12.5	117	0.77	1.36	4.91
21SEP79	5	21SEP79	5	259.9	380.6	324	25	18	8.5	60.3	6.7	9.7	0.0	1.3	0.7	12.7	125	0.76	1.26	5.17
21SEP79	6	21SEP79	6	262.8	374.5	325	28	17	9.1	58.8	7.8	9.4	0.0	1.4	0.7	12.7	137	0.74	1.17	5.52
21SEP79	7	21SEP79	7	264.4	375.0	325	24	17	9.6	58.3	8.1	9.2	0.0	1.5	0.7	12.6	141	0.73	1.18	5.37
21SEP79	8	21SEP79	8	258.2	371.5	325	24	18	9.8	58.1	8.0	9.4	0.0	1.6	0.7	12.5	141	0.75	1.22	5.14
21SEP79	9	21SEP79	9	256.4	370.0	325	24	18	10.0	57.5	8.4	9.4	0.0	1.6	0.7	12.4	146	0.75	1.18	5.26
21SEP79	10	21SEP79	10	259.0	373.8	325	24	18	10.1	56.8	8.9	9.4	0.0	1.7	0.7	12.4	151	0.76	1.14	5.32
21SEP79	11	21SEP79	11	255.6	368.6	325	24	18	10.2	56.7	9.0	9.3	0.0	1.7	0.7	12.4	152	0.75	1.13	5.38
21SEP79	12	21SEP79	12	252.2	360.4	325	24	18	10.2	56.7	9.3	9.2	0.0	1.7	0.7	12.3	154	0.74	1.10	5.55
21SEP79	13	21SEP79	13	248.4	359.1	325	24	18	10.1	57.3	9.4	8.6	0.0	1.6	0.7	12.3	153	0.70	1.08	5.68
21SEP79	14	21SEP79	14	249.9	355.8	325	24	18	10.3	57.3	9.2	8.3	0.0	1.6	0.7	12.4	151	0.67	1.12	5.67
21SEP79	15	21SEP79	15	238.0	354.8	325	24	18	10.4	57.5	9.6	8.3	0.0	1.0	0.7	12.5	155	0.66	1.08	9.58
21SEP79	16	21SEP79	16	237.1	350.1	325	24	17	10.3	57.1	9.6	8.2	0.0	1.5	0.7	12.5	155	0.65	1.08	6.36
21SEP79	17	21SEP79	17	172.2	288.7	325	24	112	10.4	56.5	10.0	8.1	0.0	1.6	0.7	12.8	158	0.63	1.03	6.20
21SEP79	18	21SEP79	18	155.4	262.1	325	24	207	11.0	53.2	11.9	8.1	0.0	1.9	0.7	13.3	179	0.61	0.92	6.34
21SEP79	19	21SEP79	19	152.6	266.1	325	24	226	11.5	51.3	13.3	8.0	0.0	2.1	0.6	13.2	194	0.60	0.86	6.27
21SEP79	20	21SEP79	20	136.7	257.9	325	24	244	12.2	49.1	15.2	7.6	0.0	2.4	0.6	12.9	215	0.58	0.80	6.37
21SEP79	21	21SEP79	21	134.5	254.1	325	24	263	12.6	48.3	15.9	7.2	0.0	2.4	0.6	12.9	221	0.56	0.79	6.58
21SEP79	22	21SEP79	22	115.8	236.1	325	24	278	12.9	47.7	16.1	7.1	0.0	2.4	0.6	13.2	224	0.54	0.80	6.66
21SEP79	23	21SEP79	23	122.6	246.8	325	24	280	13.1	46.7	16.8	7.1	0.0	2.4	0.6	13.3	232	0.53	0.78	7.05

13:30 DRAINED TAR KNOCKOUT POT. 10 GALLON LIQUOR COLLECTED

17:09 **CLOSE PI-3

(I) (P) (C)

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

22

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
22SEP79	0	22SEP79	0	132.0	261.1	325	24	280	13.1	46.6	17.2	7.0	0.0	2.5	0.6	13.2	235	0.53	0.76	6.99
22SEP79	1	22SEP79	1	135.4	261.9	325	24	281	13.1	46.6	17.4	6.9	0.0	2.3	0.6	13.0	237	0.53	0.75	7.52
22SEP79	2	22SEP79	2	139.4	272.2	325	24	281	13.1	47.0	17.1	6.9	0.0	2.4	0.6	12.8	234	0.54	0.76	7.00
22SEP79	3	22SEP79	3	132.0	275.8	325	24	281	12.9	47.0	17.4	6.9	0.0	2.6	0.6	12.6	237	0.55	0.74	6.82
22SEP79	4	22SEP79	4	128.9	275.4	325	24	281	12.5	47.2	17.9	6.7	0.0	2.5	0.6	12.6	239	0.53	0.70	7.14
22SEP79	5	22SEP79	5	127.3	278.3	325	24	281	12.2	48.4	17.3	6.6	0.0	2.4	0.6	12.5	232	0.53	0.71	7.06
22SEP79	6	22SEP79	6	143.1	275.8	325	24	281	12.3	48.1	17.7	6.5	0.0	2.5	0.6	12.4	236	0.52	0.69	7.20
22SEP79	7	22SEP79	7	158.3	280.5	325	24	281	12.1	48.8	17.1	6.6	0.0	2.4	0.6	12.4	230	0.53	0.71	7.18
22SEP79	8	22SEP79	8	157.0	193.5	325	61	282	12.0	49.3	16.8	6.5	0.0	2.3	0.6	12.4	226	0.52	0.71	7.26
22SEP79	9	22SEP79	9	158.3	305.2	325	41	282	12.1	49.2	17.2	6.3	0.0	2.5	0.6	12.2	229	0.51	0.71	6.99
22SEP79	10	22SEP79	10	147.9	308.3	325	47	282												
22SEP79	11	22SEP79	11	145.4	238.0	325	42	281												
22SEP79	12	22SEP79	12	144.8	309.2	325	60	282	11.8	52.9	14.7	5.6	0.0	1.7	0.7	12.6	201	0.44	0.81	8.59
22SEP79	13	22SEP79	13	156.4	404.5	325	67	282	11.8	52.6	14.4	5.6	0.0	2.0	0.7	12.8	199	0.44	0.82	7.34
22SEP79	14	22SEP79	14	160.4	309.2	325	82	282	11.8	52.8	14.2	5.7	0.0	2.0	0.7	12.8	197	0.44	0.83	6.94
22SEP79	15	22SEP79	15	164.8	515.0	325	78	282	11.7	53.1	14.0	5.7	0.0	2.1	0.7	12.9	194	0.44	0.83	6.73
22SEP79	16	22SEP79	16	187.0	405.6	325	84	282	11.5	53.6	13.7	5.7	0.0	2.1	0.7	12.8	191	0.44	0.83	6.64
22SEP79	17	22SEP79	17	259.9	632.7	326	63	182	11.2	53.2	12.9	5.6	0.0	2.1	0.7	14.3	182	0.39	0.87	6.06
22SEP79	18	22SEP79	18	334.5	435.9	325	24	18	11.2	57.2	10.9	5.5	0.0	1.9	0.7	12.6	162	0.44	1.03	5.82
22SEP79	19	22SEP79	19	326.4	425.0	325	24	18	9.8	61.7	8.8	5.2	0.0	1.6	0.8	12.2	136	0.43	1.11	5.46
22SEP79	20	22SEP79	20	313.8	409.7	325	24	18	8.8	63.3	7.6	5.3	0.0	1.4	0.8	12.7	121	0.42	1.16	5.36
22SEP79	21	22SEP79	21	306.1	398.0	325	24	18	8.5	63.5	7.2	5.6	0.0	1.3	0.8	13.1	117	0.43	1.18	5.41
22SEP79	22	22SEP79	22	292.8	393.8	325	24	18	8.2	63.2	7.0	6.0	0.0	1.3	0.8	13.6	115	0.44	1.18	5.41
22SEP79	23	22SEP79	23	283.7	388.5	325	24	18	8.2	61.9	7.2	6.7	0.0	1.3	0.8	14.0	119	0.47	1.14	5.52

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
23SEP79	0	23SEP79	0	277.7	386.9	325	24	18	8.3	60.5	7.7	7.2	0.0	1.4	0.7	14.2	126	0.51	1.08	5.64
23SEP79	1	23SEP79	1	265.4	381.0	325	24	18	8.4	59.9	7.9	7.5	0.0	1.4	0.7	14.2	129	0.53	1.07	5.66
23SEP79	2	23SEP79	2	269.5	379.8	325	24	18	8.5	59.7	7.9	7.7	0.0	1.4	0.7	14.1	130	0.55	1.07	5.61
23SEP79	3	23SEP79	3	243.1	368.2	325	24	18	8.6	59.3	8.0	7.9	0.0	1.4	0.7	14.0	133	0.57	1.07	5.60
23SEP79	4	23SEP79	4	247.1	364.3	325	24	18	8.8	58.6	8.5	8.1	0.0	1.5	0.7	13.8	138	0.58	1.04	5.74
23SEP79	5	23SEP79	5	241.3	362.0	325	24	18	9.1	57.9	8.9	8.2	0.0	1.5	0.7	13.7	144	0.60	1.02	5.90
23SEP79	6	23SEP79	6	246.1	363.4	325	24	18	9.3	57.3	9.5	8.2	0.0	1.5	0.7	13.6	150	0.61	0.98	6.14
23SEP79	7	23SEP79	7	244.3	358.0	325	24	18	9.2	57.4	9.6	8.2	0.0	1.5	0.7	13.4	151	0.61	0.96	6.20
23SEP79	8	23SEP79	8	127.7	916.3	233	419	130	23.7	44.5	7.5	12.2	1.6	1.2	0.5	9.9	190	1.23	3.14	6.37
23SEP79	9	23SEP79	9	22.4	633.2	118	679	215	54.6	7.6	6.8	19.0	0.0	1.5	0.1	10.3	303	1.84	8.00	4.59
23SEP79	10	23SEP79	10	22.3	268.0	118	539	412	51.2	13.0	4.9	17.7	0.0	1.8	0.2	11.2	269	1.57	10.38	2.71
23SEP79	11	23SEP79	11	22.0	433.9	118	194	174	37.3	29.7	5.5	17.4	0.0	1.3	0.4	8.5	229	2.06	6.71	4.40
23SEP79	12	23SEP79	12	22.5	131.9	118	173	162	36.3	30.1	5.7	18.3	0.0	1.1	0.4	8.0	231	2.28	6.35	5.00
23SEP79	13	23SEP79	13	24.3	3.4	118	172	162	33.9	31.7	5.6	19.4	0.0	1.1	0.4	7.8	226	2.48	6.01	5.36
23SEP79	14	23SEP79	14	232.8	1737	155	145	140	31.9	34.0	7.4	14.6	1.3	1.7	0.4	9.8	221	1.49	4.33	4.41
23SEP79	15	23SEP79	15	338.1	1848	128	94	82	22.9	48.4	6.8	4.3	1.2	2.2	0.6	14.7	155	0.29	3.35	3.14
23SEP79	16	23SEP79	16	325.9	1679	90	25	18												
23SEP79	17	23SEP79	17	488.6	1194	105	23	18												
23SEP79	18	23SEP79	18	1443	1223	202	24	19												
23SEP79	19	23SEP79	19	1185	1627	258	26	20	4.5	68.4	0.7	16.2	0.0	0.5	0.8	8.9	73.1	1.82	6.21	1.52
23SEP79	20	23SEP79	20	1284	1944	301	26	20	4.7	67.3	0.8	17.9	0.0	0.5	0.8	7.9	79.6	2.26	6.08	1.44
23SEP79	21	23SEP79	21	1302	2039	309	26	20	5.2	66.1	0.9	19.5	0.0	0.6	0.8	7.0	86.9	2.79	6.03	1.49
23SEP79	22	23SEP79	22	1352	2109	314	27	21	5.8	65.2	1.0	20.6	0.0	0.6	0.8	6.0	93.7	3.41	6.06	1.63
23SEP79	23	23SEP79	23	1296	2113	311	27	21	6.7	64.3	1.1	20.8	0.0	0.6	0.8	5.6	99.1	3.75	5.88	1.90

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLD	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
24SEP79	0	24SEP79	0	1245	2143	312	28	35	7.6	63.6	1.4	20.9	0.0	0.6	0.8	5.2	104	3.99	5.56	2.21
24SEP79	1	24SEP79	1	1161	2172	313	28	21	8.3	62.8	1.6	20.9	0.0	0.6	0.8	5.1	109	4.11	5.18	2.55
24SEP79	2	24SEP79	2	1164	2213	314	28	21	9.0	61.9	1.9	20.8	0.0	0.7	0.8	5.0	113	4.12	4.87	2.84
24SEP79	3	24SEP79	3	1159	2253	315	28	21	9.7	61.1	2.1	20.7	0.0	0.7	0.7	5.0	117	4.11	4.65	3.11
24SEP79	4	24SEP79	4	1153	2290	314	28	21	10.3	60.5	2.3	20.8	0.0	0.7	0.7	4.8	122	4.34	4.52	3.31
24SEP79	5	24SEP79	5	1154	2273	315	29	22												
24SEP79	6	24SEP79	6	1147	1944	315	31	24												
24SEP79	7	24SEP79	7	1140	2348	315	29	23												
24SEP79	8	24SEP79	8	1144	2287	315	40	30												
24SEP79	9	24SEP79	9	1148	2202	315	65	57												
			08:45	*INCREASE BACK PRESSURE TO 50 PSIG																
24SEP79	10	24SEP79	10	1150	2101	315	79	73	13.5	56.9	3.7	21.0	0.0	0.5	0.7	3.7	146	5.62	3.69	7.37
			10:20	*INCREASE BACK PRESSURE TO 75 PSIG																
24SEP79	11	24SEP79	11	1153	2311	315	90	81	14.1	55.9	3.9	20.9	0.0	0.7	0.7	3.8	151	5.57	3.57	5.78
24SEP79	12	24SEP79	12	1162	2335	316	90	80	14.3	55.5	4.1	20.9	0.0	0.7	0.7	3.8	153	5.53	3.45	5.63
			12:00	**ATTEMPT TO DRAIN TAR KNOCKOUT POT FAILED. CLOGGED																
24SEP79	13	24SEP79	13	1162	2368	316	90	80	14.5	55.5	4.2	20.5	0.0	0.7	0.7	3.8	154	5.33	3.41	5.78
24SEP79	14	24SEP79	14	1153	2311	316	91	81	14.5	55.3	4.3	20.5	0.0	0.8	0.7	3.9	154	5.19	3.36	5.47
			14:40	**SHUT IN PI-3																
24SEP79	15	24SEP79	15	1152	2430	315	91	81	14.1	55.1	4.4	20.6	0.0	0.8	0.7	4.4	154	4.72	3.23	5.48
					(I)	(P)	(C)													
24SEP79	16	24SEP79	16	1160	1838	315	90	81	13.9	55.3	4.5	19.9	0.0	0.8	0.7	4.9	153	4.08	3.07	5.64
24SEP79	17	24SEP79	17	1143	2299	315	90	81	13.8	55.5	4.7	19.2	0.0	0.8	0.7	5.3	151	3.60	2.95	5.49
24SEP79	18	24SEP79	18	1140	2307	315	90	81	14.1	55.4	4.7	18.7	0.0	0.9	0.7	5.5	151	3.38	2.99	5.19
24SEP79	19	24SEP79	19	1138	2287	315	138	81	13.8	55.9	4.8	17.9	0.0	0.9	0.7	6.0	148	2.96	2.90	5.23
24SEP79	20	24SEP79	20	1140	2292	315	90	81	13.5	56.1	4.7	17.8	0.0	0.9	0.7	6.2	147	2.86	2.87	4.99
24SEP79	21	24SEP79	21	1146	2308	315	90	81	13.2	56.4	4.6	17.7	0.0	0.9	0.7	6.4	145	2.77	2.86	5.06
24SEP79	22	24SEP79	22	1136	2317	315	90	81	13.0	56.5	4.6	17.8	0.0	1.0	0.7	6.4	144	2.80	2.84	4.65
24SEP79	23	24SEP79	23	1132	2325	315	90	82	12.6	56.7	4.5	18.0	0.0	1.0	0.7	6.6	142	2.73	2.81	4.57

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
25SEP79	0	25SEP79	0	1131	2316	315	90	81	12.1	57.1	4.4	18.1	0.0	0.9	0.7	6.7	140	2.69	2.75	4.84
25SEP79	1	25SEP79	1	1119	2311	315	90	81	11.7	57.4	4.3	18.2	0.0	0.9	0.7	6.7	138	2.70	2.69	4.79
25SEP79	2	25SEP79	2	1117	2296	315	90	81	11.3	57.8	4.3	18.4	0.0	0.9	0.7	6.7	137	2.75	2.63	4.82
25SEP79	3	25SEP79	3	1121	2278	315	90	81	10.8	58.2	4.2	18.5	0.0	0.9	0.7	6.7	136	2.77	2.57	4.92
25SEP79	4	25SEP79	4	1114	2278	315	90	82	10.7	58.2	4.2	18.6	0.0	0.9	0.7	6.6	135	2.81	2.54	4.95
25SEP79	5	25SEP79	5	1116	2273	315	90	81	10.6	58.3	4.1	18.8	0.0	0.8	0.7	6.6	135	2.87	2.55	4.90
25SEP79	6	25SEP79	6	1111	2265	315	90	82	10.3	58.5	4.0	19.1	0.0	0.8	0.7	6.5	134	2.92	2.53	4.88
25SEP79	7	25SEP79	7	1110	2251	315	90	82	10.0	58.8	4.0	19.1	0.0	0.8	0.7	6.6	132	2.92	2.51	4.88
25SEP79	8	25SEP79	8	1118	2241	315	90	82	9.9	59.1	4.0	18.6	0.0	0.8	0.7	6.8	131	2.73	2.49	4.85
25SEP79	9	25SEP79	9	1099	2235	314	90	82	9.9	59.0	4.0	18.6	0.0	0.9	0.7	6.9	130	2.69	2.48	4.64
25SEP79	10	25SEP79	10	1132	2243	315	90	81	9.9	59.1	4.0	18.4	0.0	0.9	0.7	7.0	130	2.63	2.50	4.53
25SEP79	11	25SEP79	11	1139	2307	316	90	81	9.8	59.1	3.9	18.6	0.0	0.9	0.7	7.0	129	2.64	2.53	4.46
25SEP79	12	25SEP79	12	1135	2207	316	90	81	9.8	59.2	3.9	18.6	0.0	0.9	0.7	7.1	128	2.62	2.53	4.38
25SEP79	13	25SEP79	13	1139	2195	316	90	81	9.7	59.3	3.8	18.4	0.0	0.9	0.7	7.2	127	2.56	2.52	4.38
25SEP79	14	25SEP79	14	1058	2158	295	90	81	19 GALLON LIQUOR COLLECTED ALONG WITH THE PARTICULATE MATTER											
25SEP79	15	25SEP79	15	1053	2071	267	144	81												
25SEP79	16	25SEP79	16	1306	2176	315	90	81												
25SEP79	17	25SEP79	17	1336	2175	314	90	81												
25SEP79	18	25SEP79	18	1330	1859	315	90	82												
25SEP79	19	25SEP79	19	808.1	590.9	316	42	43	9.3	60.6	3.8	18.5	0.0	0.0	0.7	7.1	127	2.61	2.41	
25SEP79	20	25SEP79	20	726.6	2986	316	117	81												
25SEP79	21	25SEP79	21	1275	2117	315	90	82	8.7	61.5	3.8	15.8	0.0	0.7	0.7	8.8	116	1.79	2.28	5.72
25SEP79	22	25SEP79	22	1284	2036	315	90	81	8.2	62.0	3.7	16.0	0.0	0.6	0.7	8.8	114	1.82	2.24	6.27
25SEP79	23	25SEP79	23	1284	2035	315	90	82	7.9	62.1	3.6	16.4	0.0	0.7	0.8	8.6	113	1.89	2.21	5.01

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
26SEP79	0	26SEP79	0	1292	2032	293	90	82	7.7	62.3	3.5	16.1	0.0	0.8	0.8	8.9	111	1.82	2.17	4.61
26SEP79	1	26SEP79	1	1289	2086	315	90	82	7.5	62.7	3.5	15.5	0.0	0.8	0.8	9.2	109	1.70	2.11	4.64
26SEP79	2	26SEP79	2	1288	2037	315	90	82	7.5	62.5	3.5	15.7	0.0	0.8	0.8	9.2	109	1.72	2.13	4.54
26SEP79	3	26SEP79	3	1290	1956	293	90	82	7.6	62.4	3.6	15.9	0.0	0.8	0.8	9.0	110	1.76	2.12	4.75
26SEP79	4	26SEP79	4	1289	1960	315	90	82												
26SEP79	5	26SEP79	5	1298	2037	315	90	82	7.5	62.3	3.6	16.8	0.0	0.2	0.8	8.8	114	1.92	2.06	17.80
26SEP79	6	26SEP79	6	1290	2034	315	90	82	7.5	62.2	3.6	16.5	0.0	0.6	0.8	8.8	113	1.88	2.05	6.25
26SEP79	7	26SEP79	7	1288	2032	315	90	82	7.4	62.2	3.6	16.5	0.0	0.6	0.8	9.0	112	1.83	2.08	6.04
26SEP79	8	26SEP79	8	1200	2030	297	90	82	7.6	61.9	3.7	16.4	0.0	0.3	0.8	9.3	113	1.75	2.05	13.11
26SEP79	9	26SEP79	9	1247	2032	311	90	82												
26SEP79	10	26SEP79	10	1300	2086	315	91	81												
26SEP79	11	26SEP79	11	1261	2036	315	91	81												
26SEP79	12	26SEP79	12	1328	2030	313	91	81												
26SEP79	13	26SEP79	13	1316	2139	316	91	81												
26SEP79	14	26SEP79	14	944.7	1016	311	91	81												
26SEP79	15	26SEP79	15	1321	1873	315	91	81												
26SEP79	16	26SEP79	16	1315	2011	245	91	300												
26SEP79	17	26SEP79	17	1304	2012	315	91	93												
26SEP79	18	26SEP79	18	1301	2018	315	91	93												
26SEP79	19	26SEP79	19	1307	2016	315	91	93												
26SEP79	20	26SEP79	20	1301	2010	315	91	93												
26SEP79	21	26SEP79	21	1300	2012	315	91	93												
26SEP79	22	26SEP79	22	1301	2017	315	91	94												
26SEP79	23	26SEP79	23	1294	2034	315	91	94												

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
27SEP79	0	27SEP79	0	1293	2012	315	91	94	7.6	61.3	3.8	17.0	0.0	0.3	0.7	9.3	116	1.83	1.97	12.59
27SEP79	1	27SEP79	1	1303	2011	315	91	94	7.7	60.9	3.8	17.3	0.0	0.6	0.7	8.9	117	1.93	2.00	6.21
27SEP79	2	27SEP79	2	1307	2021	315	91	94	7.9	60.4	3.9	17.4	0.0	0.8	0.7	8.8	120	1.97	2.01	4.95
27SEP79	3	27SEP79	3	1301	2039	315	91	94	8.2	59.7	3.9	17.9	0.0	0.9	0.7	8.7	122	2.07	2.07	4.34
27SEP79	4	27SEP79	4	1299	2045	315	91	94	8.3	59.4	4.0	18.3	0.0	0.9	0.7	8.4	124	2.18	2.10	4.21
27SEP79	5	27SEP79	5	1294	2044	315	91	94	8.2	59.3	3.9	18.4	0.0	0.9	0.7	8.5	124	2.16	2.09	4.29
27SEP79	6	27SEP79	6	1302	2031	315	91	94	7.9	59.6	3.9	18.3	0.0	0.9	0.7	8.7	122	2.10	2.03	4.48
27SEP79	7	27SEP79	7	1297	2029	315	91	94	7.8	59.7	3.9	18.3	0.0	0.9	0.7	8.7	122	2.11	2.02	4.50
27SEP79	8	27SEP79	8	1298	1626	315	91	93	7.8	59.4	3.8	18.8	0.0	0.9	0.7	8.5	123	2.21	2.06	4.27
27SEP79	9	27SEP79	9	1301	2023	315	91	93	7.7	59.4	3.8	18.9	0.0	0.9	0.7	8.5	123	2.21	2.02	4.33
27SEP79	10	27SEP79	10	1308	2025	315	91	93	7.6	59.2	3.8	19.1	0.0	0.9	0.7	8.6	123	2.23	1.99	4.33
27SEP79	11	27SEP79	11	1306	2025	315	91	93	7.6	59.2	3.8	19.1	0.0	0.9	0.7	8.7	123	2.20	2.00	4.27
27SEP79	12	27SEP79	12	1315	2074	315	91	92	7.9	59.0	3.9	18.9	0.0	0.9	0.7	8.7	124	2.17	2.03	4.12
27SEP79	13	27SEP79	13	1322	2319	317	91	92	7.9	59.5	3.9	18.5	0.0	0.9	0.7	8.7	123	2.13	2.05	4.45
27SEP79	14	27SEP79	14	1324	2057	318	91	92	7.9	59.5	3.8	18.5	0.0	0.9	0.7	8.7	122	2.13	2.08	4.24
27SEP79	15	27SEP79	15	1317	2038	318	91	92	7.9	59.3	3.7	18.7	0.0	0.9	0.7	8.8	122	2.12	2.10	4.09
27SEP79	16	27SEP79	16	1321	2031	318	91	92	7.9	59.4	3.8	18.5	0.0	0.9	0.7	8.8	122	2.11	2.10	4.08
27SEP79	17	27SEP79	17	1321	2040	318	91	93	7.9	59.5	3.7	18.6	0.0	0.9	0.7	8.7	121	2.13	2.12	4.07
27SEP79	18	27SEP79	18	1320	2040	317	91	93	7.9	59.4	3.7	18.6	0.0	0.9	0.7	8.7	122	2.14	2.11	4.08
27SEP79	19	27SEP79	19	1319	2061	318	91	93	7.8	58.9	3.8	19.0	0.0	0.9	0.7	8.9	123	2.14	2.08	3.99
27SEP79	20	27SEP79	20	1317	2076	317	91	93	7.6	58.2	3.8	19.1	0.0	1.0	0.7	9.5	123	2.00	2.03	3.77
27SEP79	21	27SEP79	21	1315	2075	318	91	93	7.5	58.3	3.7	18.9	0.0	1.0	0.7	10.0	120	1.89	2.03	3.61
27SEP79	22	27SEP79	22	1311	2066	317	91	93	7.5	58.3	3.6	18.8	0.0	1.1	0.7	10.0	120	1.88	2.07	3.40
27SEP79	23	27SEP79	23	1314	2058	317	91	93	7.7	58.7	3.6	18.5	0.0	1.1	0.7	9.7	119	1.90	2.14	3.42

13:00-13:13 **WATER INJECTION INTO PI-2

16:15 DRAINED TAR KNOCKOUT POT. NO LIQUOR COLLECTED

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

28

DATE	HOUR	DATE	HOUR	INFLD	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
28SEP79	0	28SEP79	0	1313	2099	317	91	93												
28SEP79	1	28SEP79	1	1309	2101	317	91	93												
28SEP79	2	28SEP79	2	1314	2088	318	91	93												
28SEP79	3	28SEP79	3	1302	2060	318	91	93												
28SEP79	4	28SEP79	4	1301	2039	318	91	93												
28SEP79	5	28SEP79	5	1306	2001	318	90	93	6.8	60.6	3.4	18.1	0.0	0.4	0.7	9.8	113	1.84	2.01	7.61
28SEP79	6	28SEP79	6	1300	1993	318	90	93	6.8	60.4	3.3	18.4	0.0	0.7	0.7	9.6	113	1.93	2.06	4.50
28SEP79	7	28SEP79	7	1191	1948	293	90	93	7.0	60.0	3.3	18.9	0.0	0.9	0.7	9.2	116	2.05	2.11	3.79
28SEP79	8	28SEP79	8	1279	1881	315	114	116	7.1	60.0	3.3	19.0	0.0	0.9	0.7	8.9	116	2.14	2.15	3.68
28SEP79	9	28SEP79	9	1278	1977	315	114	116	7.3	59.8	3.4	19.3	0.0	0.9	0.7	8.6	118	2.23	2.15	3.74
28SEP79	10	28SEP79	10	1288	1978	315	114	116	7.5	59.7	3.5	19.2	0.0	0.9	0.7	8.4	120	2.28	2.14	3.89
28SEP79	11	28SEP79	11	1288	1983	316	114	116	7.7	59.7	3.6	19.2	0.0	0.9	0.7	8.2	121	2.32	2.15	3.93
28SEP79	12	28SEP79	12	1283	1990	316	114	116	7.8	59.6	3.6	19.2	0.0	0.9	0.7	8.1	122	2.36	2.13	4.01
28SEP79	13	28SEP79	13	1288	1999	316	114	116	7.9	59.4	3.7	19.2	0.0	0.9	0.7	8.1	123	2.38	2.14	4.02
28SEP79	14	28SEP79	14	1293	2004	316	114	116	8.1	59.4	3.8	19.3	0.0	0.8	0.7	8.0	124	2.41	2.15	4.56
28SEP79	15	28SEP79	15	1299	2007	316	114	115	8.1	59.3	3.8	18.9	0.0	0.9	0.7	8.2	124	2.32	2.14	4.14
28SEP79	16	28SEP79	16	1297	2002	316	113	115	8.2	59.4	3.9	18.4	0.0	0.9	0.7	8.4	124	2.20	2.13	4.15
28SEP79	17	28SEP79	17	1302	2003	316	114	115	8.2	59.5	3.9	18.2	0.0	0.9	0.7	8.5	123	2.14	2.13	4.14
28SEP79	18	28SEP79	18	1298	2006	316	114	115	8.3	59.6	3.8	18.2	0.0	0.9	0.7	8.5	122	2.14	2.15	4.09
28SEP79	19	28SEP79	19	1302	2062	316	114	115	8.2	59.5	3.8	18.3	0.0	0.9	0.7	8.4	123	2.17	2.15	4.08
28SEP79	20	28SEP79	20	1298	2029	316	109	111	8.2	59.4	3.9	18.5	0.0	0.9	0.7	8.4	123	2.20	2.14	4.12
28SEP79	21	28SEP79	21	1301	2016	316	110	112	8.4	59.3	3.8	18.5	0.0	0.9	0.7	8.3	124	2.22	2.19	4.08
28SEP79	22	28SEP79	22	1310	2005	316	113	115	8.3	59.4	3.8	18.5	0.0	0.8	0.7	8.4	123	2.21	2.19	4.61
28SEP79	23	28SEP79	23	1307	2022	316	113	115	9.9	58.9	3.5	18.2	0.0	0.9	0.7	7.9	125	2.31	2.80	3.96

08:03 SET BACK PRESSURE TO 100 PSIG

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

29

DATE	HOUR	DATE	HOUR	INFLD	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
29SEP79	0	29SEP79	0	1301	2031	316	113	114	8.3	59.0	3.6	19.3	0.0	1.0	0.7	8.2	123	2.36	2.34	3.68
29SEP79	1	29SEP79	1	1309	2022	316	114	115	8.5	59.0	3.6	19.0	0.0	1.0	0.7	8.2	123	2.33	2.37	3.63
29SEP79	2	29SEP79	2	1302	2029	316	114	116	8.7	59.0	3.6	18.6	0.0	1.0	0.7	8.4	123	2.21	2.40	3.67
29SEP79	3	29SEP79	3	1303	2037	316	114	115	8.7	58.9	3.6	18.4	0.0	1.0	0.7	8.7	122	2.13	2.45	3.57
29SEP79	4	29SEP79	4	1300	2038	316	114	116	8.8	58.7	3.6	18.4	0.0	1.0	0.7	8.7	122	2.10	2.47	3.54
29SEP79	5	29SEP79	5	1300	2036	316	114	116	8.8	58.5	3.6	18.4	0.0	1.0	0.8	8.9	122	2.06	2.48	3.46
29SEP79	6	29SEP79	6	1298	2041	316	114	116	8.9	58.4	3.5	18.2	0.0	1.1	0.8	9.2	121	1.97	2.52	3.34
29SEP79	7	29SEP79	7	1299	2061	316	114	116	9.1	58.3	3.6	17.8	0.0	1.1	0.7	9.4	122	1.90	2.54	3.21
29SEP79	8	29SEP79	8	1302	2058	316	114	116	9.6	58.0	3.7	17.7	0.0	1.1	0.7	9.1	124	1.93	2.58	3.27
29SEP79	9	29SEP79	9	1295	2058	316	114	116	9.7	58.2	3.8	17.3	0.0	1.1	0.7	9.1	123	1.90	2.57	3.34
29SEP79	10	29SEP79	10	1295	2057	316	114	115	9.7	58.1	3.8	17.6	0.0	1.1	0.7	9.0	124	1.95	2.57	3.33
29SEP79	11	29SEP79	11	1295	2050	316	114	115	9.6	58.1	3.7	17.6	0.0	1.1	0.7	9.2	124	1.92	2.58	3.32
29SEP79	12	29SEP79	12	1296	2158	316	97	93	9.4	58.1	3.7	17.5	0.0	1.1	0.7	9.5	122	1.85	2.58	3.33
29SEP79	13	29SEP79	13	1156	2135	290	98	75	9.2	58.0	3.6	17.8	0.0	1.1	0.7	9.6	122	1.85	2.55	3.39
29SEP79	14	29SEP79	14	1301	2160	311	66	68	9.4	57.8	3.8	17.6	0.0	1.1	0.7	9.6	124	1.83	2.48	3.48
29SEP79	15	29SEP79	15	1304	2064	316	66	68	9.5	58.1	3.8	17.4	0.0	1.1	0.7	9.4	124	1.85	2.50	3.62
29SEP79	16	29SEP79	16	1300	2060	316	66	68												
29SEP79	17	29SEP79	17	1297	2055	316	66	68	9.4	57.5	4.0	17.9	0.0	0.8	0.9	9.5	127	1.88	2.34	5.26
29SEP79	18	29SEP79	18	1301	2060	316	66	69	9.5	57.5	4.2	17.5	0.0	0.8	0.8	9.6	128	1.83	2.28	5.03
29SEP79	19	29SEP79	19	1302	2065	316	66	69	9.5	57.8	4.1	17.2	0.0	0.9	0.7	9.8	125	1.75	2.32	4.61
29SEP79	20	29SEP79	20	1297	2115	316	66	69	9.9	56.0	4.0	18.4	0.0	1.0	0.7	10.0	130	1.83	2.49	3.88
29SEP79	21	29SEP79	21	1294	2128	316	66	68	10.1	55.6	4.1	18.2	0.0	1.0	0.7	10.4	130	1.76	2.48	3.93
29SEP79	22	29SEP79	22	1290	2117	316	66	68	9.9	55.8	4.0	17.9	0.0	1.0	0.7	10.6	129	1.69	2.44	3.88
29SEP79	23	29SEP79	23	1290	2118	316	66	69	9.9	55.8	4.1	17.7	0.0	1.1	0.7	10.7	129	1.65	2.42	3.82

12:10 *REDUCE BACK PRESSURE TO 75 PSIG
13 1156 2135 290 98 75 9.2 58.0
14:55 *REDUCED BACK PRESSURE TO 50 PSIG
15 1304 2064 316 66 68 9.5 58.1

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR SEPTEMBER

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DATE	HJUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
30SEP79	0	30SEP79	0	1294	2114	316	66	69	9.9	56.4	4.0	17.1	0.0	1.1	0.7	10.8	126	1.59	2.47	3.75
30SEP79	1	30SEP79	1	1292	2094	316	66	69	10.0	57.2	4.0	16.4	0.0	1.1	0.7	10.7	123	1.53	2.50	3.78
30SEP79	2	30SEP79	2	1293	2077	316	66	69	10.1	57.8	3.9	15.8	0.0	1.1	0.7	10.7	121	1.48	2.60	3.69
30SEP79	3	30SEP79	3	1294	2046	316	66	69	9.5	59.1	4.0	15.3	0.0	1.0	0.7	10.4	119	1.46	2.36	3.98
30SEP79	4	30SEP79	4	1298	2038	316	66	69	9.1	59.2	4.3	15.7	0.0	1.0	0.7	10.0	121	1.57	2.13	4.20
30SEP79	5	30SEP79	5	1288	2044	316	66	68	8.9	59.2	4.2	16.2	0.0	1.0	0.7	9.7	122	1.67	2.14	4.10
30SEP79	6	30SEP79	6	1295	2057	316	66	68	9.2	58.8	3.9	17.1	0.0	1.1	0.7	9.2	123	1.87	2.37	3.66
30SEP79	7	30SEP79	7	1286	2089	316	66	68	10.4	57.5	3.8	17.6	0.0	1.1	0.8	8.6	127	2.05	2.73	3.39
30SEP79	8	30SEP79	8	1093	1937	257	92	48	10.9	57.5	3.8	17.4	0.0	1.1	0.8	8.7	127	2.00	2.91	3.50
30SEP79	9	30SEP79	08:45	**SHUT IN PI-2 AND PI-3																
30SEP79	9	30SEP79	9	742.6	1628	270	203	80												
30SEP79	10	30SEP79	09:15	**OPEN PI-2 AND PI-3																
30SEP79	10	30SEP79	10	1277	2153	314	111	112	11.1	56.8	3.6	15.4	0.0	1.1	0.7	11.2	120	1.37	3.10	3.42
30SEP79	11	30SEP79	10:00	UNCONTROLLED BACK PRESSURE OF 105 PSIG																
30SEP79	11	30SEP79	11	1276	2128	314	113	115	10.7	58.2	3.4	15.7	0.0	0.9	0.7	10.4	118	1.51	3.14	3.69
30SEP79	12	30SEP79	11:45	**HP/LV INJECTION IN PI-3. LP/HV INJECTION IN PI-1 CONTINUES.																
30SEP79	12	30SEP79	12	777.3	561.1	315	245	46	10.3	58.6	4.6	13.1	0.0	0.6	0.7	12.1	120	1.68	2.26	7.89
30SEP79	13	30SEP79				(I)	(P)	(I)												
30SEP79	13	30SEP79	13	786.7	2301	314	188	118												
30SEP79	14	30SEP79				(B)	13:10	*SHUT DOWN HP/LV COMPRESSOR												
30SEP79	14	30SEP79	14	1347	2127	313	111													113
30SEP79	15	30SEP79				(I)	(P)	(P)												
30SEP79	15	30SEP79	15	1349	2091	313	111	113												
30SEP79	16	30SEP79	16	1348	2103	313	112	113	10.0	59.4	3.0	15.5	0.0	0.9	0.7	10.4	111	1.49	3.34	3.21
30SEP79	17	30SEP79	17	1343	2130	314	114	116	9.9	58.7	3.1	16.0	0.0	1.0	0.7	10.6	113	1.50	3.24	3.21
30SEP79	18	30SEP79	18	1341	2131	314	115	116	9.8	58.6	3.2	15.6	0.0	1.0	0.7	11.1	113	1.40	3.06	3.26
30SEP79	19	30SEP79	19	1344	2202	314	114	116	9.7	58.6	3.2	15.9	0.0	1.0	0.7	11.0	113	1.44	3.05	3.32
30SEP79	20	30SEP79	20	1349	2104	314	113	115	9.4	59.1	3.3	16.5	0.0	0.9	0.7	10.1	115	1.63	2.85	3.65
30SEP79	21	30SEP79	21	1348	2090	314	112	114	9.2	59.4	3.2	17.2	0.0	0.9	0.7	9.4	116	1.82	2.87	3.67
30SEP79	22	30SEP79	22	1347	2089	314	112	114	9.2	59.4	3.1	17.8	0.0	0.9	0.7	9.0	117	1.98	2.93	3.60
30SEP79	23	30SEP79	23	1345	2087	314	111	114	9.2	59.2	3.2	18.0	0.0	0.9	0.7	8.8	119	2.04	2.86	3.67

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

1

DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
01OCT79	0 01OCT79	0	1344	2099	314	112 114	9.4	58.9	3.3	18.1	0.0	0.9	0.7	8.7	120	2.08	2.88	3.61
					(I) (P) (P)													
01OCT79	1 01OCT79	1	1341	2107	314	113 115	9.5	58.3	3.2	18.6	0.0	0.9	0.7	8.6	122	2.16	2.95	3.51
01OCT79	2 01OCT79	2	1337	2105	314	112 114	9.8	58.3	3.3	18.3	0.0	0.9	0.7	8.6	122	2.12	2.94	3.53
01OCT79	3 01OCT79	3	1340	2101	314	112 114	9.9	58.5	3.4	17.8	0.0	0.9	0.7	8.8	122	2.02	2.91	3.67
01OCT79	4 01OCT79	4	1336	2108	314	113 114	9.9	58.3	3.4	17.9	0.0	1.0	0.7	8.9	122	2.01	2.96	3.53
01OCT79	5 01OCT79	5	1334	2113	314	113 115	10.4	57.8	3.3	18.3	0.0	0.9	0.7	8.6	124	2.12	3.18	3.84
01OCT79	6 01OCT79	6	1325	2117	314	113 115	10.5	58.0	3.2	17.8	0.0	0.9	0.7	8.9	122	2.01	3.29	3.51
01OCT79	7 01OCT79	7	1326	2113	314	113 115	10.4	58.2	3.1	17.4	0.0	0.9	0.7	9.3	120	1.88	3.34	3.43
01OCT79	8 01OCT79	8	766.6	1760	225	94 99	10.3	58.3	3.2	17.0	0.0	0.9	0.7	9.5	119	1.79	3.23	3.51
		08:30	**SHUT-IN PI-1															
01OCT79	9 01OCT79	9	176.0	1156	110	60 57	17.3	44.9	5.4	19.7	0.0	1.3	0.6	11.0	171	1.79	3.23	4.23
					(C) (P) (P)													
01OCT79	10 01OCT79	10	175.7	884.3	16	41 48	40.5	9.2	7.8	24.7	0.0	3.0	0.1	14.7	285	1.69	5.21	2.63
		10:45	**SHUT-IN PI-2 AND PI-3															
01OCT79	11 01OCT79	11	175.3	0.1	16	19 18												
01OCT79	12 01OCT79	12	176.0	0.1	17	20 18												
01OCT79	13 01OCT79	13	499.2	815.0	124	90 43												
01OCT79	14 01OCT79	14	1360	400.0	315	105 105												
		14:05	**INJECTION IN PI-1 WITH PRODUCTION FROM PI-2 AND PI-3															
01OCT79	15 01OCT79	15	1310	1823	305	112 113	8.5	64.4	2.6	12.6	0.0	0.7	0.8	10.4	93.0	1.21	3.30	3.73
					(I) (P) (P)													
01OCT79	16 01OCT79	16	1307	1855	305	119 120	8.5	63.6	2.8	13.2	0.0	0.6	0.8	10.5	96.4	1.25	3.09	4.29
01OCT79	17 01OCT79	17	1296	1876	307	123 125	8.3	63.1	2.7	13.7	0.0	0.7	0.8	10.6	97.1	1.29	3.07	3.67
01OCT79	18 01OCT79	18	1301	1519	310	127 128	8.5	62.5	2.7	14.2	0.0	0.8	0.8	10.5	99.3	1.35	3.14	3.51
01OCT79	19 01OCT79	19	1309	1924	312	129 131	8.6	62.3	2.8	14.2	0.0	0.8	0.8	10.6	100	1.33	3.09	3.52
01OCT79	20 01OCT79	20	1316	1945	314	131 133	8.5	62.0	2.8	14.8	0.0	0.7	0.8	10.4	102	1.42	3.02	3.77
01OCT79	21 01OCT79	21	1297	2061	314	132 134	8.4	61.9	2.8	15.0	0.0	0.8	0.8	10.3	103	1.45	2.97	3.74
01OCT79	22 01OCT79	22	1310	1953	315	132 134	8.5	61.5	2.9	15.3	0.0	0.8	0.8	10.2	105	1.50	2.95	3.78
01OCT79	23 01OCT79	23	1297	1959	314	133 135	8.7	61.0	2.9	15.9	0.0	0.8	0.7	10.0	107	1.60	3.01	3.74

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

2

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
02OCT79	0	02OCT79	0	1333	1968	314	134	135	8.9	60.6	2.9	16.3	0.0	0.8	0.7	9.8	109	1.66	3.09	3.65
02OCT79	1	02OCT79	1	1297	1972	315	134	136	8.4	63.3	2.7	15.0	0.0	0.7	0.7	9.2	101	1.64	3.12	3.79
02OCT79	2	02OCT79	2	1286	1973	314	134	136	9.2	60.3	2.9	16.1	0.0	0.8	0.7	9.9	110	1.63	3.19	3.55
02OCT79	3	02OCT79	3	1282	1979	314	135	136	9.6	60.3	2.9	15.9	0.0	0.6	0.7	10.0	110	1.59	3.31	4.72
02OCT79	4	02OCT79	4	1286	1983	314	135	137	9.7	59.7	2.9	16.0	0.0	0.8	0.7	10.2	110	1.57	3.40	3.63
02OCT79	5	02OCT79	5	1284	1972	314	134	136	10.0	60.4	2.9	15.0	0.0	0.8	0.7	10.1	109	1.47	3.39	3.47
02OCT79	6	02OCT79	6	1284	1958	314	134	136	9.8	60.8	3.0	14.5	0.0	0.8	0.7	10.3	107	1.40	3.32	3.52
02OCT79	7	02OCT79	7	1276	1962	315	134	136	9.8	60.7	3.0	14.7	0.0	0.8	0.7	10.3	108	1.43	3.33	3.57
02OCT79	8	02OCT79	8	1291	2141	315	99	102	10.1	60.1	3.0	15.2	0.0	0.8	0.7	10.0	110	1.52	3.34	3.56
02OCT79	9	02OCT79	9	1309	2089	315	63	66	10.5	59.8	3.0	15.6	0.0	0.4	0.7	9.9	113	1.57	3.47	8.16
				*REDUCED BACK PRESSURE TO 55 PSIG																
02OCT79	10	02OCT79	10	1296	2080	315	63	66												
02OCT79	11	02OCT79	11	1313	2088	315	63	66	10.8	59.4	2.9	16.7	0.0	0.5	0.7	9.1	116	1.83	3.78	6.31
02OCT79	12	02OCT79	12	1300	2091	315	63	66	11.0	58.7	2.8	16.9	0.0	0.8	0.7	9.0	117	1.87	3.89	3.67
02OCT79	13	02OCT79	13	1300	2094	315	63	66	11.4	58.6	2.9	16.3	0.0	0.8	0.7	9.3	117	1.75	3.98	3.44
02OCT79	14	02OCT79	14	1293	2082	314	63	66												
02OCT79	15	02OCT79	15	1297	2076	315	63	66												
02OCT79	16	02OCT79	16	1284	2065	314	63	66												
02OCT79	17	02OCT79	17	1286	2056	314	63	66	10.5	59.8	2.8	15.2	0.0	0.7	0.8	10.3	110	1.48	3.75	4.18
02OCT79	18	02OCT79	18	1292	2048	314	62	66	10.4	59.9	2.8	15.1	0.0	0.8	0.7	10.3	109	1.47	3.71	3.50
02OCT79	19	02OCT79	19	1287	2044	314	62	66												
02OCT79	20	02OCT79	20	1288	2045	314	62	66												
02OCT79	21	02OCT79	21	1280	2031	314	62	66	10.2	60.2	2.7	15.1	0.0	0.7	0.7	10.3	107	1.47	3.80	3.78
02OCT79	22	02OCT79	22	1285	2021	314	61	66	10.3	60.2	2.7	15.1	0.0	0.8	0.7	10.3	107	1.47	3.86	3.49
02OCT79	23	02OCT79	23	1279	2037	314	62	66	10.4	60.1	2.7	15.2	0.0	0.8	0.7	10.1	108	1.50	3.92	3.43

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
03OCT79	0	03OCT79	0	1280	2034	314	62	66	10.4	60.0	2.7	15.4	0.0	0.8	0.7	10.0	109	1.54	3.91	3.52
03OCT79	1	03OCT79	1	1275	2031	314	62	66	10.7	59.8	2.7	15.5	0.0	0.8	0.7	9.9	110	1.58	3.89	3.30
03OCT79	2	03OCT79	2	1270	2046	314	62	66	10.8	59.5	2.7	15.7	0.0	0.8	0.7	9.6	112	1.64	3.97	3.24
03OCT79	3	03OCT79	3	1283	2039	314	62	66												
03OCT79	4	03OCT79	4	1280	2048	315	62	66	11.0	59.2	2.8	16.2	0.0	0.8	0.7	9.4	114	1.73	3.95	3.48
03OCT79	5	03OCT79	5	1267	2055	315	62	66	11.0	59.0	2.8	16.3	0.0	0.9	0.7	9.3	115	1.74	3.98	3.13
03OCT79	6	03OCT79	6	1266	2049	314	62	66	11.0	58.8	2.8	16.4	0.0	0.9	0.7	9.5	115	1.73	3.98	3.07
03OCT79	7	03OCT79	7	1265	2050	315	62	66	11.0	58.8	2.7	16.4	0.0	0.9	0.7	9.4	115	1.75	4.05	3.07
03OCT79	8	03OCT79	8	1273	2040	316	62	66												
03OCT79	9	03OCT79	9	1281	2038	318	62	66												
03OCT79	10	03OCT79	10	965.5	1499	242	50	53												
03OCT79	11	03OCT79	11	1278	2053	318	62	65	11.1	59.0	2.7	17.7	0.0	0.5	0.7	8.2	119	2.16	4.07	5.05
03OCT79	12	03OCT79	12	1181	2022	300	61	65	11.8	58.0	2.8	17.8	0.0	0.7	0.7	8.1	123	2.19	4.13	3.98
03OCT79	13	03OCT79	13	977.7	1816	238	54	58	13.3	56.7	3.3	18.0	0.0	0.1	0.7	7.9	132	2.26	4.06	33.61
03OCT79	14	03OCT79	14	977.3	1698	253	52	55												
03OCT79	15	03OCT79	15	977.3	1703	251	50	54	13.5	56.7	3.0	17.7	0.0	0.1	0.7	8.2	130	2.15	4.45	23.17
03OCT79	16	03OCT79	16	976.3	1653	251	50	54												
03OCT79	17	03OCT79	17	977.7	1649	251	50	53												
03OCT79	18	03OCT79	18	975.3	1641	251	49	53												
03OCT79	19	03OCT79	19	976.0	1673	251	49	53	13.6	54.3	3.6	18.1	0.0	0.7	1.3	8.6	136	2.12	3.82	5.36
03OCT79	20	03OCT79	20	975.7	1677	251	49	53	13.9	53.8	3.7	18.3	0.0	0.9	1.0	8.5	139	2.15	3.77	4.24
03OCT79	21	03OCT79	21	977.3	1642	252	49	53												
03OCT79	22	03OCT79	22	977.3	1644	252	49	53												
03OCT79	23	03OCT79	23	977.0	1644	252	49	53												

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
04OCT79	0	04OCT79	0	973.3	1648	253	49	53												
04OCT79	1	04OCT79	1	978.7	1649	254	49	54												
04OCT79	2	04OCT79	2	994.9	1653	254	49	53												
04OCT79	3	04OCT79	3	1008	1705	261	50	54	13.5	55.9	3.3	17.5	0.0	0.9	0.7	8.1	132	2.15	4.04	3.54
04OCT79	4	04OCT79	4	1097	1794	280	53	57	12.6	57.4	3.0	17.1	0.0	0.9	0.7	8.2	125	2.09	4.15	3.30
04OCT79	5	04OCT79	5	1097	1828	281	54	58	12.6	57.5	3.1	17.1	0.0	1.0	0.7	8.1	125	2.12	4.08	3.23
04OCT79	6	04OCT79	6	1096	1841	282	54	58	12.7	57.3	3.2	17.1	0.0	1.0	0.7	8.1	126	2.11	4.02	3.20
04OCT79	7	04OCT79	7	1099	1849	282	55	59	12.8	57.0	3.2	17.1	0.0	1.0	0.7	8.1	127	2.11	4.00	3.16
04OCT79	8	04OCT79	8	1146	1855	287	55	59	12.9	56.9	3.2	17.1	0.0	1.0	0.7	8.1	128	2.10	3.98	3.15
04OCT79	9	04OCT79	9	1196	1930	304	57	61	12.4	57.7	3.1	16.8	0.0	1.0	0.7	8.2	124	2.06	3.99	3.10
04OCT79	10	04OCT79	10	1204	1955	306	58	61	12.2	58.0	3.1	16.8	0.0	1.0	0.7	8.1	124	2.08	3.89	3.08
04OCT79	11	04OCT79	11	1194	1959	305	59	62	12.3	57.8	3.3	16.6	0.0	1.0	0.7	8.2	124	2.02	3.78	3.15
04OCT79	12	04OCT79	12	1199	1963	307	59	62	12.2	57.9	3.3	16.4	0.0	1.0	0.7	8.4	124	1.95	3.68	3.20
04OCT79	13	04OCT79	13	1198	1960	307	59	62	12.2	57.9	3.4	16.2	0.0	1.0	0.7	8.6	124	1.89	3.63	3.22
04OCT79	14	04OCT79	14	1272	1993	320	60	63	12.0	58.4	3.3	16.0	0.0	1.0	0.7	8.6	122	1.85	3.61	3.21
04OCT79	15	04OCT79	15	1266	2026	320	61	64	12.1	58.0	3.4	16.0	0.0	1.0	0.7	8.7	123	1.84	3.58	3.23
04OCT79	16	04OCT79	16	1275	1873	320	86	85	12.1	58.2	3.4	16.0	0.0	1.0	0.6	8.6	124	1.85	3.52	3.28
04OCT79	17	04OCT79	17	1255	1932	319	133	121	11.9	58.4	3.4	15.9	0.0	1.0	0.7	8.7	122	1.84	3.51	3.32
04OCT79	18	04OCT79	18	1262	1943	319	133	135	12.0	58.2	3.5	15.8	0.0	1.0	0.7	8.8	123	1.80	3.45	3.38
04OCT79	19	04OCT79	19	1245	1938	319	133	135	12.1	58.3	3.5	15.6	0.0	1.0	0.7	8.8	123	1.77	3.50	3.34
04OCT79	20	04OCT79	20	1247	1933	319	133	135	12.0	58.5	3.4	15.4	0.0	1.0	0.7	8.9	121	1.74	3.51	3.36
04OCT79	21	04OCT79	21	1241	1928	319	133	135	11.8	58.8	3.4	15.3	0.0	1.0	0.7	9.0	120	1.70	3.47	3.38
04OCT79	22	04OCT79	22	1243	1927	319	133	135	11.7	58.8	3.4	15.3	0.0	1.0	0.7	9.1	120	1.69	3.47	3.35
04OCT79	23	04OCT79	23	1225	1928	319	133	135	11.8	58.7	3.4	15.2	0.0	1.0	0.7	9.1	120	1.67	3.48	3.31

08:47 *INCREASE FLOW

16:13 *INCREASE BACK PRESSURE TO 120 PSIG

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

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DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
05OCT79	0	05OCT79	0	1234	1931	319	133	135	11.8	58.6	3.4	15.2	0.0	1.0	0.7	9.2	120	1.65	3.51	3.29
05OCT79	1	05OCT79	1	1227	1914	319	132	134	11.5	59.3	3.4	14.8	0.0	1.0	0.7	9.3	118	1.59	3.37	3.43
05OCT79	2	05OCT79	2	1238	1910	319	132	134	11.6	59.1	3.4	15.1	0.0	1.0	0.7	9.2	118	1.64	3.43	3.26
05OCT79	3	05OCT79	3	1227	1922	319	132	135	11.8	58.7	3.4	15.2	0.0	1.1	0.7	9.1	120	1.66	3.47	3.16
05OCT79	4	05OCT79	4	1220	1928	319	133	135	12.0	58.4	3.4	15.3	0.0	1.1	0.7	9.1	121	1.68	3.50	3.09
05OCT79	5	05OCT79	5	1231	1999	319	134	136	12.2	58.0	3.4	15.5	0.0	1.1	0.7	9.0	123	1.72	3.55	3.07
05OCT79	6	05OCT79	6	1221	1961	319	135	136	12.8	57.3	3.5	15.6	0.0	1.2	0.7	8.9	126	1.75	3.63	3.06
05OCT79	7	05OCT79	7	1211	1964	319	135	136	13.0	57.1	3.6	15.8	0.0	1.1	0.7	8.7	127	1.81	3.65	3.15
05OCT79	8	05OCT79	8	1219	1951	319	134	136	12.5	57.6	3.6	15.7	0.0	1.1	0.7	8.9	125	1.77	3.52	3.19
05OCT79	9	05OCT79	9	650.0	620.4	315	286	60	12.4	57.8	3.6	15.5	0.0	1.1	0.7	9.0	124	1.73	3.48	3.19
05OCT79	10	05OCT79	10	209.2	923.1	320	199	105	20.6	38.6	7.8	18.3	0.0	2.2	0.5	12.1	201	1.51	2.63	3.53
05OCT79	11	05OCT79	11	238.0	1379	320	69	67	39.5	13.4	8.9	18.5	0.0	3.4	0.2	16.1	273	1.15	4.46	2.59
05OCT79	12	05OCT79	12	226.7	1093	320	51	55	49.2	3.5	8.8	17.2	0.0	3.3	0.1	18.0	299	0.95	5.62	2.66
05OCT79	13	05OCT79	13	233.3	966.7	320	44	48	51.0	2.3	8.8	16.3	0.0	3.0	0.1	18.5	302	0.88	5.79	2.94
05OCT79	14	05OCT79	14	245.3	852.9	320	38	42	51.5	2.6	8.8	15.6	0.0	2.7	0.1	18.7	302	0.84	5.83	3.28
05OCT79	15	05OCT79	15	229.7	776.7	320	34	38	51.8	3.0	8.8	15.0	0.0	2.5	0.1	18.7	301	0.80	5.86	3.51
05OCT79	16	05OCT79	16	237.3	717.5	320	31	35	52.1	3.2	8.9	14.6	0.0	2.4	0.1	18.7	301	0.78	5.87	3.64
05OCT79	17	05OCT79	17	220.7	704.2	320	28	33	52.1	3.5	8.9	14.3	0.0	2.4	0.1	18.6	301	0.77	5.84	3.70
05OCT79	18	05OCT79	18	215.0	500.7	320	26	31												
05OCT79	19	05OCT79	19	211.0	605.4	320	24	29	51.7	6.8	9.0	13.1	0.0	1.6	0.1	17.7	296	0.74	5.77	5.61
05OCT79	20	05OCT79	20	206.0	452.1	320	23	28												
05OCT79	21	05OCT79	21	196.7	549.9	320	21	27	51.9	6.8	9.2	12.1	0.0	2.5	0.1	17.5	295	0.69	5.66	3.67
05OCT79	22	05OCT79	22	198.7	523.9	320	20	26	51.8	7.0	9.2	11.7	0.0	2.7	0.1	17.5	294	0.67	5.63	3.37
05OCT79	23	05OCT79	23	190.3	504.1	320	20	25	51.6	7.5	9.3	11.4	0.0	2.8	0.1	17.5	293	0.65	5.57	3.36

09:10 *SHUT-IN PI-2
(I) (C) (P) 10:15 *OPEN PI-2
(I) (P) (P)

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

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DATE	HOUR	DATE	HOUR	INFLD	OUTFLD	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
06OCT79	0	06OCT79	0	188.0	486.3	320	19	25	51.3	8.0	9.3	11.0	0.0	2.8	0.1	17.5	291	0.63	5.50	3.37
06OCT79	1	06OCT79	1	186.3	468.3	320	19	24	51.1	8.5	9.4	10.7	0.0	2.8	0.2	17.5	290	0.61	5.45	3.38
06OCT79	2	06OCT79	2	185.0	450.9	320	18	24	50.9	9.0	9.4	10.3	0.0	2.8	0.2	17.5	289	0.59	5.38	3.41
06OCT79	3	06OCT79	3	203.0	433.3	320	18	23	50.6	9.4	9.5	10.1	0.0	2.8	0.2	17.4	288	0.58	5.31	3.44
06OCT79	4	06OCT79	4	184.7	419.5	320	17	23	50.4	9.9	9.6	9.8	0.0	2.8	0.2	17.4	288	0.56	5.22	3.50
06OCT79	5	06OCT79	5	202.3	413.4	321	17	23	50.1	10.4	9.7	9.5	0.0	2.7	0.2	17.3	287	0.55	5.14	3.55
06OCT79	6	06OCT79	6	184.7	410.6	321	17	22	49.8	10.9	9.9	9.3	0.0	2.7	0.2	17.2	287	0.54	5.03	3.62
06OCT79	7	06OCT79	7	185.3	400.9	321	17	23	49.5	11.4	10.0	9.1	0.0	2.7	0.2	17.2	286	0.53	4.92	3.69
06OCT79	8	06OCT79	8	214.8	452.7	321	18	24	47.4	15.2	9.8	8.6	1.0	2.6	0.2	16.4	276	0.52	4.81	3.80
06OCT79	9	06OCT79	9	194.7	400.8	321	17	22	47.0	15.8	10.0	8.3	1.1	2.5	0.2	16.3	275	0.51	4.72	3.93
06OCT79	10	06OCT79	10	214.0	403.5	321	17	22	48.6	12.6	10.5	8.4	0.0	2.6	0.2	17.0	287	0.50	4.62	4.00
06OCT79	11	06OCT79	11	234.0	396.8	321	17	22	48.2	13.1	10.7	8.2	0.0	2.6	0.2	16.9	286	0.49	4.53	4.05
06OCT79	12	06OCT79	12	234.3	389.0	321	16	21	47.9	13.6	10.8	8.0	0.0	2.6	0.2	16.8	285	0.48	4.46	4.12
06OCT79	13	06OCT79	13	223.0	380.0	321	16	21	47.7	14.1	10.8	7.8	0.0	2.6	0.2	16.7	285	0.47	4.40	4.18
06OCT79	14	06OCT79	14	238.0	372.9	321	16	21	47.4	14.5	10.9	7.6	0.0	2.6	0.2	16.7	284	0.46	4.35	4.23
06OCT79	15	06OCT79	15	260.0	359.8	330	20	30												
06OCT79	16	06OCT79	16	260.0	359.8	330	20	25												
06OCT79	17	06OCT79	17	228.5	346.6	321	15	21	46.4	15.9	11.2	7.2	0.0	2.5	0.3	16.5	282	0.43	4.15	4.43
06OCT79	18	06OCT79	18	221.8	338.8	321	15	21	46.1	16.4	11.3	7.0	0.0	2.5	0.3	16.5	282	0.43	4.09	4.53
06OCT79	19	06OCT79	19	190.8	331.9	321	15	21	45.8	16.8	11.3	6.9	0.0	2.5	0.3	16.4	281	0.42	4.05	4.54
06OCT79	20	06OCT79	20	201.2	320.3	321	15	20	45.6	17.2	11.4	6.7	0.0	2.5	0.3	16.3	280	0.41	4.00	4.59
06OCT79	21	06OCT79	21	214.0	314.7	321	15	20	45.2	17.9	11.5	6.6	0.0	2.3	0.3	16.3	279	0.40	3.94	5.02
06OCT79	22	06OCT79	22	207.0	303.0		15	20	45.0	18.1	11.5	6.4	0.0	2.4	0.3	16.2	279	0.40	3.90	4.80
06OCT79	23	06OCT79	23	195.6	301.8	320	15	20	44.8	18.5	11.6	6.3	0.0	2.4	0.3	16.2	278	0.39	3.86	4.82

08:20 **STARTED INJECTING HP/LV AIR IN PI-3 AND STOPPED AT 08:35
 09:05 *SHUT-IN PI-3

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HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

7

DATE	HOUR	DATE	HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
07OCT79	0	07OCT79	0	197.7	245.6	320	15	26	44.4	19.0	11.6	6.2	0.0	2.4	0.3	16.1	277	0.38	3.81	4.84
07OCT79	1	07OCT79	1	201.6	302.7	321	15	20	44.1	19.4	11.7	6.1	0.0	2.4	0.3	16.1	276	0.38	3.77	4.84
07OCT79	2	07OCT79	2	193.8	272.1	321	15	20	43.8	19.8	11.7	6.0	0.0	2.4	0.3	16.0	275	0.37	3.73	4.91
07OCT79	3	07OCT79	3	197.2	266.5	321	15	20	43.5	20.3	11.8	5.8	0.0	2.4	0.3	15.9	275	0.37	3.68	4.93
07OCT79	4	07OCT79	4	195.3	260.7	321	15	20	43.2	20.7	11.9	5.7	0.0	2.4	0.3	15.8	274	0.36	3.64	4.97
07OCT79	5	07OCT79	5	197.0	254.7	321	15	20	42.8	21.2	11.9	5.6	0.0	2.4	0.3	15.8	273	0.36	3.60	4.99
07OCT79	6	07OCT79	6	193.0	251.4	320	15	20	42.4	21.7	12.0	5.5	0.0	2.4	0.3	15.7	272	0.35	3.54	5.03
07OCT79	7	07OCT79	7	195.0	247.3	321	15	20	42.0	22.5	12.0	5.4	0.0	2.2	0.3	15.6	270	0.34	3.51	5.37
07OCT79	8	07OCT79	8	194.0	244.3	321	15	20	41.7	22.7	12.1	5.3	0.0	2.3	0.3	15.6	270	0.34	3.46	5.35
07OCT79	9	07OCT79	9	195.0	240.3	321	15	20	41.4	23.2	12.1	5.2	0.0	2.3	0.3	15.5	269	0.33	3.42	5.33
07OCT79	10	07OCT79	10	206.3	235.8	321	15	19	41.0	23.6	12.1	5.1	0.0	2.3	0.3	15.6	268	0.33	3.38	5.38
07OCT79	11	07OCT79	11	197.0	235.0	321	15	19	40.7	24.1	12.2	5.0	0.0	2.2	0.4	15.4	267	0.32	3.35	5.54
07OCT79	12	07OCT79	12	200.3	462.4	151	15	32	40.5	24.5	12.2	4.9	0.0	2.2	0.4	15.3	266	0.32	3.32	5.52
07OCT79	13	07OCT79	13	175.7	100.7	21	21	24	12:30 **STARTED INJECTING HP/LV AIR IN PI-3 AND CLOSED PI-1 12:40 **OPENED PI-1 AND CLOSED PI-2											
07OCT79	14	07OCT79	14	175.7	37.5	102	25	22	(P) (C) (I)											
07OCT79	15	07OCT79	15	175.0	196.2	319	26	20	14:25 **INJECTING HP/LV AIR IN PI-1 AND PRODUCING OUT OF PI-3											
07OCT79	16	07OCT79	16	174.7	303.8	415	15	20	(I) (C) (P) 15:35 **SWITCH PRODUCTION TO PI-2											
07OCT79	17	07OCT79	17	175.3	279.0	615	15	20	23.8	50.8	7.4	2.6	6.8	0.9	0.6	8.6	158	0.30	3.22	8.22
07OCT79	18	07OCT79	18	176.7	283.5	615	15	20	28.0	47.0	8.8	2.9	0.0	1.1	0.6	11.6	186	0.25	3.18	8.14
07OCT79	19	07OCT79	19	176.0	276.7	655	15	20	25.5	49.3	8.4	2.9	0.0	1.2	0.6	12.1	174	0.24	3.02	7.06
07OCT79	20	07OCT79	20	177.0	270.7	665	15	20	25.2	49.2	8.4	2.9	0.0	1.4	0.6	12.2	173	0.24	3.00	5.98
07OCT79	21	07OCT79	21	177.0	264.0	645	15	20	25.2	48.9	8.5	2.9	0.0	1.5	0.6	12.4	174	0.23	2.97	5.78
07OCT79	22	07OCT79	22	176.3	256.9	615	15	20	25.8	47.6	8.7	3.0	0.0	1.6	0.6	12.7	179	0.23	2.96	5.61
07OCT79	23	07OCT79	23	176.7	256.3	555	15	20	27.3	45.0	9.2	3.1	0.0	1.7	0.6	13.1	189	0.24	2.95	5.41

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

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DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S	
08OCT79	0 08OCT79	0	175.7	239.5	555	15	20	28.8	42.3	9.8	3.3	0.0	1.9	0.6	13.5	199	0.24	2.96	5.27
08OCT79	1 08OCT79	1	174.7	252.5	565	15	20	30.2	39.9	10.2	3.4	0.0	2.0	0.5	13.7	209	0.25	2.95	5.19
08OCT79	2 08OCT79	2	175.3	151.4	410	15	20	31.3	37.9	10.8	3.5	0.0	2.1	0.5	14.0	218	0.25	2.91	5.19
08OCT79	3 08OCT79	3	174.7	196.4	375	15	19	32.3	36.2	11.2	3.6	0.0	2.2	0.5	14.1	225	0.25	2.89	5.17
08OCT79	4 08OCT79	4	174.0	144.6	350	15	19	33.3	34.1	11.7	3.7	0.0	2.2	0.5	14.4	235	0.26	2.84	5.23
08OCT79	5 08OCT79	5	173.7	120.7	255	15	19	36.5	28.4	12.9	4.1	0.0	2.5	0.4	15.1	258	0.27	2.82	5.19
08OCT79	6 08OCT79	6	174.0	121.8	205	15	19	39.7	22.8	14.2	4.4	0.0	2.7	0.3	15.9	282	0.27	2.79	5.17
08OCT79	7 08OCT79	7	291.2	179.7	161	15	19	41.7	18.9	15.2	4.6	0.0	2.9	0.3	16.3	299	0.28	2.75	5.21
08OCT79	8 08OCT79	8	250.2	244.0	375	15	19	42.5	17.4	15.7	4.8	0.0	3.0	0.3	16.4	307	0.29	2.71	5.29
08OCT79	9 08OCT79	9	189.3	208.7	295	15	19	08 30	**BOOSTER ON LINE				08:45	**BOOSTER OFF LINE					
08OCT79	10 08OCT79	10	401.2	227.7	282	15	19	28.7	42.5	10.6	3.1	0.0	1.6	0.6	12.9	207	0.24	2.71	6.57
08OCT79	11 08OCT79	11	240.0	228.9	448	15	19	27.0	44.8	10.4	3.0	0.0	1.5	0.6	12.7	199	0.23	2.59	6.77
08OCT79	12 08OCT79	12	241.3	219.4	448	15	19	26.2	45.7	10.4	2.8	0.0	1.5	0.6	12.7	196	0.22	2.53	6.79
08OCT79	13 08OCT79	13	352.5	220.2	470	15	19	25.5	47.1	10.0	2.7	0.0	1.5	0.6	12.6	189	0.21	2.54	6.69
08OCT79	14 08OCT79	14	247.3	179.6	506	15	19	23.6	50.1	9.5	2.5	0.0	1.4	0.6	12.3	177	0.20	2.49	6.78
08OCT79	15 08OCT79	15	240.7	147.3	507	15	19	23.2	50.5	9.4	2.4	0.0	1.4	0.7	12.3	176	0.19	2.46	6.77
08OCT79	16 08OCT79	16	234.3	188.2	505	15	19	23.4	50.2	9.5	2.4	0.0	1.4	0.7	12.4	177	0.19	2.46	6.67
08OCT79	17 08OCT79	17	232.0	139.5	504	15	19	23.2	50.6	9.4	2.3	0.0	1.4	0.7	12.4	175	0.19	2.48	6.48
08OCT79	18 08OCT79	18	230.0	133.3	503	15	19	22.5	51.4	9.4	2.3	0.0	1.5	0.7	12.4	172	0.18	2.40	6.44
08OCT79	19 08OCT79	19	230.0	126.7	502	15	19	22.3	51.6	9.3	2.3	0.0	1.5	0.7	12.4	171	0.18	2.38	6.37
08OCT79	20 08OCT79	20	233.3	130.3	501	15	19	22.1	51.9	9.3	2.2	0.0	1.5	0.7	12.4	170	0.18	2.38	6.28
08OCT79	21 08OCT79	21	234.0	131.5	502	15	19	21.8	52.3	9.2	2.2	0.0	1.5	0.7	12.4	168	0.18	2.36	6.24
08OCT79	22 08OCT79	22	231.7	110.6	502	15	19	21.6	52.4	9.3	2.2	0.0	1.5	0.7	12.4	168	0.18	2.34	6.28
08OCT79	23 08OCT79	23	233.7	153.5	502	15	19												

08:00 *SHUT OFF HP/LV AIR TO PI-1 AND STARTED LP/HV AIR INTO PI-1

08:30 (I) (P) (C) 08:30 **BOOSTER ON LINE 08:45 **BOOSTER OFF LINE

09:40 *STARTED INJECTING HP/LV AIR INTO PI-1, LP/HV COMPRESSOR OFF

10:20 *STOP INJECTING HP/LV AIR INTO PI-1 AND NOW INJECTING WITH LP/HV AIR WITH BOOSTER, BY-PASSING HOT DOG

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

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DATE	HR	DATE	HR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
09OCT79	0	09OCT79	0	232.7	129.7	501	15	19												
09OCT79	1	09OCT79	1	231.3	161.2	502	15	19												
09OCT79	2	09OCT79	2	231.3	109.7	502	15	19												
09OCT79	3	09OCT79	3	228.7	119.6	503	15	19												
09OCT79	4	09OCT79	4	224.0	121.8	503	15	20												
09OCT79	5	09OCT79	5	224.7	141.8	502	15	19												
09OCT79	6	09OCT79	6	221.3	146.1	502	15	19												
09OCT79	7	09OCT79	7	228.3	114.2	504	15	19												
09OCT79	8	09OCT79	8	236.7	122.2	509	15	19	18.9	56.1	8.7	2.2	0.0	1.2	0.7	12.3	153	0.18	2.18	7.46
09OCT79	9	09OCT79	9	235.7	121.4	510	15	19	18.7	56.2	8.7	2.1	0.0	1.3	0.7	12.3	153	0.17	2.16	6.92
09OCT79	10	09OCT79	10	231.7	99.4	509	15	19	18.5	56.5	8.6	2.0	0.0	1.3	0.7	12.3	152	0.17	2.15	6.64
09OCT79	11	09OCT79	11	231.3	115.6	510	15	19	18.3	56.7	8.6	2.0	0.0	1.3	0.7	12.3	151	0.16	2.12	6.48
09OCT79	12	09OCT79	12	225.0	114.1	505	15	20	18.2	56.8	8.6	2.0	0.0	1.4	0.7	12.3	150	0.16	2.10	6.40
09OCT79	13	09OCT79	13	218.0	108.1	506	15	20	18.0	57.0	8.6	2.0	0.0	1.4	0.7	12.3	150	0.16	2.09	6.35
09OCT79	14	09OCT79	14	212.3	530.0	502	15	20	17.8	57.2	8.6	2.0	0.0	1.4	0.7	12.3	149	0.16	2.06	6.32
09OCT79	15	09OCT79	15	1690	113.9	504	15	19	17.8	57.2	8.6	2.0	0.0	1.4	0.7	12.3	149	0.16	2.06	6.22
09OCT79	16	09OCT79	16	1763	156.3	500	16	21	17.6	57.4	8.6	2.0	0.0	1.4	0.7	12.3	148	0.16	2.05	6.20
09OCT79	17	09OCT79	17	180.0	239.9	495	61	73												
17:35 ATTEMPTED TO DRAIN TAR KNOCKOUT POT - BUT NO FLOW																				
09OCT79	18	09OCT79	18	179.3	0.1	503	15	19	9.3	74.2	8.5	1.8	0.0	0.0	0.9	5.3	120	0.35	1.10	2282.8
09OCT79	19	09OCT79	19	180.7	0.1	504	15	19	8.4	73.6	4.6	1.0	0.0	0.3	0.9	11.2	76.0	0.09	1.83	16.88
19:37 **INJECTING HP/LV AIR INTO PI-1																				
09OCT79	20	09OCT79	20	180.3	0.1	598	15	19	6.8	74.7	4.9	0.8	0.0	0.5	0.9	11.3	72.9	0.07	1.40	9.46
09OCT79	21	09OCT79	21	179.7	0.2	710	22	27	6.2	75.8	5.0	0.8	0.0	0.4	0.9	10.9	72.1	0.07	1.25	13.92
09OCT79	22	09OCT79	22	180.7	0.2	767	32	38	5.7	76.9	4.8	0.8	0.0	0.3	0.9	10.6	68.2	0.07	1.19	13.78
09OCT79	23	09OCT79	23	180.7	0.2	699	112	34	5.0	78.9	4.3	0.7	1.2	0.3	0.9	9.7	61.3	0.07	1.15	15.13
23:10 **INJECTING HP/LV AIR INTO PI-2 WITH PI-1 AND PI-3 SHUT-IN																				

HOURLY RESULTS FROM PRICETOWN I FIELD TEST FOR OCTOBER

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DATE HOUR	DATE HOUR	INFLO	OUTFLO	PI1	PI2	PI3	H2	N2	CH4	CO	O2	H2S	AR	CO2	BTU	CO_CO2	H2_CH4	CH4_H2S
10OCT79	0 10OCT79	0 179.7	0.1	490 (C)	103 (I)	25 (C)	6.3	75.3	5.3	1.7	0.0	0.0	0.9	10.4	78.4	0.17	1.19	190.47
10OCT79	1 10OCT79	1 180.5	36.4	362	119	23	11.0	48.4	10.3	6.7	0.0	0.0	0.6	23.0	159	0.29	1.07	1889.6
10OCT79	2 10OCT79	2 306.8	1085	428	64	37	5.1	73.0	5.3	2.8	1.9	0.3	0.9	11.7	78.2	0.24	0.95	18.72
10OCT79	3 10OCT79	02:05 **INJECT LP/HV AIR WITH BOOSTER INTO PI-1 AND PRODUCE OUT OF PI-2 3 180.0	311.8	491 (I)	15 (P)	20 (C)	12.8	61.9	10.1	2.1	0.7	1.3	0.8	11.2	148	0.19	1.27	7.49
10OCT79	4 10OCT79	4 180.0	219.7	491	15	19	21.5	51.0	10.0	2.2	1.0	2.2	0.7	12.4	175	0.18	2.15	4.47
10OCT79	5 10OCT79	5 180.7	171.1	490	15	19	22.4	51.0	9.3	2.1	1.1	2.3	0.7	12.2	171	0.17	2.41	4.07
10OCT79	6 10OCT79	6 180.3	157.6	490	15	19	21.5	52.3	9.1	2.1	1.1	2.2	0.7	12.1	166	0.17	2.36	4.19
10OCT79	7 10OCT79	7 180.3	128.4	489	15	19	20.6	53.5	8.9	2.0	1.2	2.1	0.7	12.1	161	0.16	2.31	4.32
10OCT79	8 10OCT79	8 180.3	109.3	489	15	19	19.8	54.8	8.7	1.9	1.1	2.0	0.7	12.1	156	0.16	2.27	4.44
10OCT79	9 10OCT79	9 176.0	97.5	256	15	19	19.3	55.1	8.8	1.9	1.1	1.9	0.7	12.1	155	0.16	2.19	4.55
10OCT79	10 10OCT79	09:05 *INJECT HP/LV AIR INTO PI-1 10 132.4	173.0	346	15	19	19.1	55.4	8.8	1.9	1.1	1.9	0.7	12.1	155	0.16	2.16	4.62
10OCT79	11 10OCT79	10:05 *INJECTING LP/HV AIR WITH BOOSTER INTO PI-1 11 62.8	134.6	498	15	19	17.8	57.6	8.3	1.8	1.1	1.8	0.7	11.9	145	0.15	2.13	4.66
10OCT79	12 10OCT79	12 40.9	132.7	494	15	19	17.2	58.3	8.2	1.8	1.1	1.7	0.7	12.0	142	0.15	2.10	4.72
10OCT79	13 10OCT79	13 33.0	130.4	487	15	19	17.0	58.3	8.4	1.8	1.0	1.7	0.7	12.0	143	0.15	2.03	4.83
10OCT79	14 10OCT79	14 34.3	123.7	487	15	19	16.5	59.0	8.3	1.8	1.0	1.7	0.8	12.0	141	0.15	1.98	4.88
10OCT79	15 10OCT79	15 34.3	77.6	487	15	19	15.2	61.0	8.0	1.7	1.0	1.6	0.8	11.8	133	0.14	1.89	5.03
10OCT79	16 10OCT79	16 39.0	91.5	487	15	19	14.6	61.5	8.1	1.6	0.9	1.6	0.8	11.8	133	0.14	1.80	5.05
10OCT79	17 10OCT79	17 34.4	104.0	488	15	19	15.8	59.8	8.4	1.7	1.0	1.7	0.8	12.0	139	0.14	1.88	4.92
10OCT79	18 10OCT79	18 32.7	97.0	487	15	19	15.8	60.1	8.2	1.7	1.0	1.7	0.8	11.9	137	0.14	1.93	4.80
10OCT79	19 10OCT79	19 33.2	112.9	486	15	19	15.2	61.1	8.0	1.6	1.0	1.6	0.8	11.8	133	0.14	1.90	4.86
10OCT79	20 10OCT79	20 32.1	83.4	485	15	19	14.6	61.9	7.9	1.6	1.0	1.6	0.8	11.8	130	0.14	1.84	4.98
10OCT79	21 10OCT79	21 31.4	88.5	485	15	19	14.8	61.5	8.0	1.6	1.0	1.7	0.8	11.8	132	0.14	1.86	4.80
10OCT79	22 10OCT79	22 30.5	75.5	485	15	19	14.3	62.3	7.7	1.6	1.0	1.6	0.8	11.7	127	0.14	1.86	4.85
10OCT79	23 10OCT79	23 28.0	69.1	484	15	19	12.9	64.4	7.6	1.5	0.9	1.4	0.8	11.5	122	0.13	1.69	5.34

APPENDIX B

TIME PERIODS FOR THE DIFFERENT PHASES OF THE TEST

<u>PHASE</u>	<u>FROM</u>	<u>TO</u>	<u>TOTAL NUMBER OF DAYS</u>
RCL-1	JUNE 9 (1300 HRS.)	JUNE 15 (1100 HRS.)	5 DAYS 22 HRS. $\approx$ 5.9 DAYS
RCL-2	JUNE 15 (1100 HRS.)	JULY 9 (1500 HRS.)	24 DAYS 4 HRS. $\approx$ 24.2 DAYS
RCL-3	JULY 9 (1500 HRS.)	JULY 23 (1800 HRS.)	14 DAYS 3 HRS. $\approx$ 14.1 DAYS
ENHANCED LINKAGE (PHASE 1)	JULY 23 (1800 HRS.)	AUG 19 (0800 HRS.)	26 DAYS 14 HRS. $\approx$ 26.6 DAYS
ENHANCED LINKAGE (PHASE 2)	AUG 19 (0800 HRS.)	SEPT 23 (1600 HRS.)	35 DAYS 8 HRS. $\approx$ 35.3 DAYS
GASIFICATION	SEPT 23 (1600 HRS.)	OCT 5 (1200 HRS.)	11 DAYS 20 HRS. $\approx$ 11.8 DAYS

ABSTRACT

An Underground Coal Gasification (UCG) field test in bituminous coal was successfully completed near Pricetown, West Virginia. The primary objective of this field test was to determine the viability of the linked vertical well (LVW) technology to recover the 900 foot deep, 6 foot thick coal seam. A methane rich product gas with an average heating value of approximately 250 BTU/SCF was produced at low air injection flow rates during the reverse combustion linkage phase. Heating value of the gas produced during the linkage enhancement phase was 221 BTU/SCF with air injection. The high methane formation has been attributed to the thermal and hydrocracking of tars and oils along with hydrolysis and hydrogasification of coal char. The high heating value of the gas was the combined effect of residence time, flow pattern, injection flow rate, injection pressure and back pressure. During the gasification phase, a gas with an average heating value of 125 BTU/SCF was produced with only air injection, which resulted in an average energy production of 362 MMBTU/day.