DISTRIBUTION SHEET

To Distribution	From K. S. Witwer	Page 1 of 1
Project Title/Work Order WHC-SD-WM-TRP-224, Rev. 0 IGNITABILITY TESTING FOR CORE DRILLING SYSTEM		Date 06/13/95
		EDT No. 601026
		ECN No.

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
T. J. Bander	H0-34	X			
R. J. Blanchard	R1-17	X			
A. B. Cockrell	S7-12	X			
D. W. Hamilton	S7-15	X			
N. J. Milliken	H4-63	X			
A. P. Mouse1	S7-12	X			
G. A. Stanton	S7-21	X			
R. J. Van Vleet	H4-62	X			
K. S. Witwer (2)	L6-13	X			
Central Files (orig. +1)	A3-88 L8-04	X			
OSTI (2)	L8-07 A336	X			

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

MASTER

DISCLAIMER

Portions of this document may be illegible in electronic image products. Images are produced from the best available original document.

JUN 15 1995
35 Station 21

ENGINEERING DATA TRANSMITTAL

Page 1 of 1

1. EDT

601026

2. To: (Receiving Organization) Distribution		3. From: (Originating Organization) Engineering Testing Laboratory (OM510)		4. Related EDT No.: 601202	
5. Proj./Prog./Dept./Div.: E34549		6. Cog. Engr.: Keith S. Witwer		7. Purchase Order No.: N/A	
8. Originator Remarks: This is a test report documenting the results of ignitability testing of a hard waste simulant while Rotary Mode Core drilling.				9. Equip./Component No.: N/A	
				10. System/Bldg./Facility: N/A	
				11. Receiver Remarks:	
				12. Major Assm. Dwg. No.: N/A	
				13. Permit/Permit Application No.: N/A	
				14. Required Response Date: ASAP	

15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Approval Designator	Reason for Transmittal	Originator Disposition	Receiver Disposition
1	WHC-SD-WM-TRP-224		0	IGNITABILITY TESTING FOR CORE DRILLING SYSTEM	SQ	4	4	

16. KEY		
Approval Designator (F)	Reason for Transmittal (G)	Disposition (H) & (I)
E, S, Q, D or N/A (see WHC-CM-3-5, Sec. 12.7)	1. Approval 2. Release 3. Information 4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

17. SIGNATURE/DISTRIBUTION (See Approval Designator for required signatures)										(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN	Reason	Disp.
4,1	4,1	Cog. Eng. K.S. Witwer		6/13/95	L6-13						
4,1	4,1	Cog. Mgr. D.S. Dutt		6/13/95	L6-13						
4,1	4,1	QA J. VERDERBER		6/8/95	S1-57						
4,1	4,1	Safety		6/13/95	R3-08						
4,1	4,1	G.A. Stanton		6/13/95	R2-88						
4,1	1	R.J. Van Vleet		6/13/95	CH4-63						

18. K.S. Witwer Signature of EDT Originator		19. G.A. Stanton Authorized Representative for Receiving Organization		20. M.J. SCHLIEGE Cognizant Manager		21. DOE APPROVAL (if required) Ctrl. No. ☐ Approved ☐ Approved w/comments ☐ Disapproved w/comments	
--	--	--	--	--	--	---	--

RELEASE AUTHORIZATION

Document Number: WHC-SD-WM-TRP-224, Rev. 0

Document Title: IGNITABILITY TESTING FOR CORE DRILLING SYSTEM

Release Date: 6/14/95

**This document was reviewed following the
procedures described in WHC-CM-3-4 and is:**

APPROVED FOR PUBLIC RELEASE

WHC Information Release Administration Specialist:

Chris Willingham
C. Willingham

6/14/95

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

This report has been reproduced from the best available copy. Available in paper copy and microfiche. Printed in the United States of America. Available to the U.S. Department of Energy and its contractors from:

U.S. Department of Energy
Office of Scientific and Technical Information (OSTI)
P.O. Box 62
Oak Ridge, TN 37831
Telephone: (615) 576-8401

Available to the public from:

U.S. Department of Commerce
National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
Telephone: (703) 487-4650

SUPPORTING DOCUMENT

1. Total Pages 208

2. Title

Ignitability Testing For Core Drilling System

3. Number

WHC-SD-WM-TRP-224

4. Rev No.

0

5. Key Words

Universal Sampler
Rotary Mode
Core Sample Truck
Saltcake
Ignitability

6. Author

Name: Keith S. Witwer

Signature

Organization/Charge Code OM510/E34549

7. Abstract

Testing conducted by the United States Bureau of Mines and Westinghouse Hanford Co. was carried out to determine the probability of ignition while core drilling into simulated saltcake that was permeated with a flammable gas mixture. No ignitions were observed while core drilling into the saltcake with or without a purge gas and no ignitions were observed while drilling into a steel plate.

8.

RELEASE STAMP

OFFICIAL RELEASE

BY WHC

DATE JUN 15 1995

35

Station 21

IGNITABILITY TESTING FOR CORE DRILLING SYSTEM

by Kenneth L. Cashdollar, Keith S. Witwer, Aldo Furno,
Gregory M. Green, and Richard A. Thomas

Final Report for

Memorandum of Agreement number 14-09-0050-3666

between

Pittsburgh Research Center, Bureau of Mines,
U.S. Department of the Interior, P.O. Box 18070,
Cochrans Mill Road, Pittsburgh, PA 15236

and

Westinghouse Hanford Company
Richland, WA 99352

ABSTRACT

As part of a study of the hazards of the inspection of nuclear waste material stored at the Hanford, WA site, the Department of Energy (DOE) and Westinghouse Hanford Company (WHC) have developed a core drilling system to sample the material in large waste storage tanks. In support of this work, the U.S. Bureau of Mines has studied the probability of ignition while core drilling into simulated salt cake that was permeated with a flammable gas mixture. No ignitions were observed while core drilling into the saltcake with or without a purge gas and no ignitions were observed while drilling into a steel plate.

1
MASTER

TABLE OF CONTENTS

LIST OF TABLES	3
LIST OF FIGURES	3
1. INTRODUCTION	4
2. TEST EQUIPMENT AND TEST METHOD	5
2.1. TEST EQUIPMENT	5
2.1.1. CORE DRILLING EQUIPMENT AND INSTRUMENTATION	5
2.1.2. SALTCAKE SIMULANT	7
2.1.3. FLAMMABLE GAS SUPPLY SYSTEM	9
2.1.4. SALTCAKE CONTAINER INSTRUMENTATION	10
2.2. TEST METHOD	10
2.3. TEST PROCEDURE	11
3. TEST RESULTS	12
3.1. FLAMMABILITY RESULTS IN 120-L CHAMBER AND SALTCAKE CONTAINERS	12
3.2. CORE DRILLING IGNITABILITY TEST RESULTS	13
4. CONCLUSIONS AND RECOMMENDATIONS	15
5. ACKNOWLEDGEMENTS	15
6. REFERENCES	16
7. APPENDIX A - GENERAL FLAMMABILITY AND IGNITABILITY OF HYDROGEN	17
8. APPENDIX B - TEST DESCRIPTIONS	20
9. APPENDIX C - INSTRUMENT VERIFICATION	22
10. APPENDIX D - TEST TEMPERATURE PLOTS	45
11. APPENDIX E - RECORDED DRILLING DATA	59

LIST OF TABLES

Table 1 - Saltcake Simulant Recipe	7
Table 2 - Gas Compositions	9
Table 3 - Core Drilling Tests and Results	14
Table 4 - Calculated Adiabatic Flame Temperatures	18

LIST OF FIGURES

Figure 1 - Drilling Machine Test Setup	6
Figure 2 - Saltcake Container	8

IGNITABILITY TESTING FOR CORE DRILLING SYSTEM

by Kenneth L. Cashdollar¹, Keith S. Witwer², Aldo Furno³,
Gregory M. Green⁴, and Richard A. Thomas⁴

1. INTRODUCTION

Hanford, in the state of Washington, has been a defense production facility for the Department of Energy (DOE) and its predecessors for many years. The site is presently managed by Westinghouse Hanford Company (WHC). Substantial solid waste volumes were generated during defense material production. Underground tanks on the Hanford site are used for storing these radioactive wastes. Some waste materials may generate flammable gas mixtures due to organic decay and/or radiolysis. The ignition of these gas mixtures poses an important safety concern whenever work, such as core sampling, is performed in that environment.

Gas mixtures are released either periodically or continuously depending on the waste form. Recent analysis (1) of Tank 241-SY-101 (a flammable gas watch list tank) has revealed a gas composition containing hydrogen (H_2), nitrous oxide (N_2O), ammonia (NH_3), nitrogen (N_2) and other minor components. The possible ignition of this gas mixture prompted testing to be performed in order to identify what ignition hazard, if any, existed.

A core drilling device, similar to those currently used on the Hanford site, was used for core drilling testing of a non-radioactive saltcake simulant permeated with a flammable gas mixture. By drilling into this simulant under various controlled conditions, the potential of ignition was evaluated.

Testing was conducted from August 29th to September 2nd, 1994 at the Bureau of Mines Pittsburgh Research Center near Pittsburgh, PA per memorandum of agreement (MOA) 14-09-0050-3666 between WHC and the United States Bureau of Mines (USBM). Testing was carried out using WHC Supporting Document Test Plan WHC-SD-WM-TP-203 (2). WHC provided necessary funding for the testing as well as the core drilling system and simulated salt cakes. USBM provided the flammable gas mixture, flow system, and instrumentation to measure any

¹Research Physicist, Pittsburgh Research Center

²Mechanical Engineer, Westinghouse Hanford Company

³Physical Scientist, Pittsburgh Research Center

⁴Physical Science Technician, Pittsburgh Research Center

possible ignition during testing. WHC personnel operated the core drill and recorded drilling parameters during testing. USBM personnel operated the flammable gas system and associated ignition detection instrumentation during testing.

2. TEST EQUIPMENT AND TEST METHOD

2.1. TEST EQUIPMENT

2.1.1. CORE DRILLING EQUIPMENT AND INSTRUMENTATION

The test drill was a Longyear⁵ Model 34, which uses the same major components as the drill installed on the core sample trucks for field operations at Hanford. A schematic of the core drilling system is shown in figure 1. The core sample drill bit was a Longyear (Part No. 100IVD/5) 2½ in O.D. drill bit that produced a 1¼ in diameter core sample. A core sampler was used to recover cores in 19 in nominal lengths. Smooth surfaced core barrels were used instead of fluted core barrels in order to facilitate gas sealing during testing.

During testing, the drill was mounted on large concrete blocks to provide stability and necessary height to drill into the saltcake containers. The saltcake containers were placed under the drill head at the appropriate height for sample drilling.

A description of the instrumentation system used on the drilling machine has been previously documented (2). Drill bit temperature was measured with a stainless steel sheathed Type K thermocouple attached to the face of the drill bit. The thermocouples used were characterized by the WHC standards laboratory at four points between 50° and 350°C and found to be within $\pm 2^\circ\text{C}$ prior to use. Drill bit depth of penetration was measured with a string potentiometer mounted on the drill frame. Drill bit downward force was calculated from the pressure acting on the piston in the hydraulic ram cylinders and from adding the additional weight of the drill string and assembly. Calibrated pressure gauges were placed at the upper and lower positions of the hydraulic ram cylinders to provide pressure measurement. Although the pressure was measured with an accuracy of ± 1 psi, which results in a force accuracy of ± 19 lbs, site drilling operations show a typical force variation of ± 50 lbs from the measured value. The testing was done with a

⁵Longyear is a trademark of Longyear Incorporated. (Reference to specific products does not imply endorsement by the U.S. Bureau of Mines.)

The diagram illustrates a rammer assembly used for testing waste simulation. The central component is a vertical rammer assembly, which includes a drill bit at the bottom. The assembly is mounted on a base. Key components and connections are labeled as follows:

- DRILL BIT THERMOCOUPLE OUTPUT:** A line from the top of the drill bit assembly.
- SLIPRING ASSEMBLY:** Located at the top of the rammer assembly.
- 1.5":** A dimension indicating the height of the upper section of the rammer assembly.
- 3.5":** A dimension indicating the height of the lower section of the rammer assembly.
- REGULATOR:** A component in the hydraulic line, labeled with a circled 'R'.
- FROM HYDRAULIC PUMP:** The source of hydraulic pressure for the upper ram.
- UPPER RAM HYDRAULIC PRESSURE MEASUREMENT:** A line with a circled 'P' indicating a pressure measurement point for the upper ram.
- FLOW METER:** A component in the hydraulic line, labeled with a circled 'F'.
- PURGE GAS TEMPERATURE AND PRESSURE MEASUREMENTS:** Two lines branching from the main vertical line, labeled with a circled 'T' and a circled 'P'.
- PURGE GAS SUPPLY:** The source of purge gas for the system.
- FLOW CONTROL VALVE:** A valve in the hydraulic line, labeled with a circled 'V'.
- TO HYDRAULIC RESERVOIR:** The destination for the hydraulic fluid after the flow control valve.
- LOWER RAM HYDRAULIC PRESSURE MEASUREMENT:** A line with a circled 'P' indicating a pressure measurement point for the lower ram.
- THERMOCOUPLE WIRE:** A line from the bottom of the rammer assembly.
- PURGE GAS EXHAUST:** The exit point for the purge gas, shown as a horizontal line with an arrow pointing left.
- WASTE SIMULANT:** The material being tested, shown as a cross-hatched area at the bottom of the rammer assembly.

FIGURE 1: DRILLING MACHINE TEST SETUP

The bit temperature, penetration, rotation speed, force and purge gas flow data were recorded using a micro computer (PC) based data acquisition system (DAQ). The DAQ system was calibrated and verified by WHC Quality Control, before testing. Verifications for the instrumentation are listed in Appendix C.

2.1.2. SALTCAKE SIMULANT

The waste material was simulated by a non-radioactive saltcake. The recipe for this simulant, called BY-104 Simulant, is listed in table 1. This simulant was originally prepared as a ferrocyanide simulant for evaluating the crust of a typical ferrocyanide tank at Hanford. It was chosen for use in the core drilling testing over other available simulants because it had the highest material strength, had a low thermal conductivity, and was chemically representative of tank waste (3). The high material strength had the tendency to resist the downward travel of the sampler bit, thus increasing the bit temperature. The low thermal conductivity inhibited the heat transfer from the bit to the surrounding material, therefore also increasing the bit temperature. These two properties, along with its chemical similarity to tank waste, made this simulant the best available candidate for the ignition testing. By drilling into this simulant under various controlled conditions, an ignition potential that might exist could be identified.

Table 1. - Saltcake Simulant Recipe		
Compound	Formula	Weight, %
sodium nitrate	NaNO_3	81.8
sodium aluminate	NaAlO_2	7.5
sodium hydroxide	NaOH	1.7
sodium metasilicate	Na_2SiO_3	1.5
ferric nitrate	$\text{Fe}(\text{NO}_3)_3$	1.0
sodium phosphate	Na_3PO_4	0.7
calcium nitrate	$\text{Ca}(\text{NO}_3)_2$	0.4
magnesium nitrate	$\text{Mg}(\text{NO}_3)_2$	0.2
manganese nitrate	$\text{Mn}(\text{NO}_3)_2$	0.2
water	H_2O	~5

The saltcake simulant was prepared in 12 in diameter, 2 ft tall steel saltcake containers as shown in figure 2. The containers were constructed of schedule 40 steel pipe, flanged at both ends. The containers provided a total of four possible drilling locations for each saltcake. The bottom of the

Figure 2 SALTCAKE CONTAINER

container was constructed with a $\frac{1}{2}$ in air gap for distribution of the flammable gas mixture. A steel plate separated the air gap from a minimum of 19 in of saltcake above it. Both the steel plate and saltcake had $\frac{3}{32}$ in diameter vertical holes, $1\frac{1}{2}$ in on center, drilled through them. These holes created a porous saltcake which allowed a uniform distribution and permeation of the flammable gas.

2.1.3. FLAMMABLE GAS SUPPLY SYSTEM

The flammable gas mixture used for the core drill ignitability testing is listed in table 1. This gas composition is based on measured gas concentrations found in Tank 241-SY-101 (1).

Table 2. - Gas Compositions	
Gas	Volume, %
H ₂	30.0
N ₂ O	30.0
NH ₃	20.0
N ₂	18.5
CH ₄	1.0
CO	0.5

The flammable gases were mixed in a 120-L chamber and then flowed to the saltcake container during the core drilling ignitability tests. The 120-L chamber had been used for previous hydrogen flammability research for DOE and WHC (4). Pressure in the chamber was monitored using a real-time pressure transducer. At the start of a test, the 120-L chamber was evacuated, and the gases listed in the table were added at the partial pressures required to give the desired mixture composition at the desired starting pressure. The starting pressure ranged from 2 to 4 atm depending on the required flow rate and expected duration of the drilling test. An internal fan was used to mix the gases. During previous mixing tests in the 120-L chamber for the earlier Hanford research (4), there was essentially no difference in the measured H₂ concentrations from the start to the end of the fan mixing time period (5 min). This showed that the gases were well mixed, even before the fan was

turned on. Nevertheless, to be cautious, the gases in the 120-L chamber were mixed by the fan for at least 4 min before flowing the gas to the salt cake.

The flammable gas mixture flowed through $\frac{1}{4}$ in tubing from the 120-L chamber to the bottom of the saltcake container. A quick-connect fitting connected the tubing to the center of the bottom flange of the saltcake container. This allowed the container to be rotated in order to drill into four different positions on the saltcake. In-line flowmeters monitored the flammable gas flow rate. The higher rate flowmeter measured over the range of 0 to 2 ft³/min (0 to 57×10^3 cm³/min) and the lower rate flowmeter measured over the range of 0 to 2 cm³/min. The flow rate was varied remotely by adjusting an electrically actuated needle valve.

The time required to purge the saltcake of atmospheric gases was measured during preliminary testing by flowing nitrogen through the lines from the 120-L chamber to the saltcake container. The oxygen concentration was monitored at the exhaust of the saltcake container. At a flow rate of 1 ft³/min, the feed lines and saltcake were purged within 2 min. For the core drilling tests, the flammable gas flowed for at least 4 min before the start of drilling to insure that the saltcake was purged. For tests at the lower flow rate of 1 cm³/min, the gas was first flowed at 1 ft³/min for at least 4 min, and then the flow rate was reduced to 1 cm³/min for the drilling test.

2.1.4. SALTCAKE CONTAINER INSTRUMENTATION

Instrumentation for the saltcake container included two pressure transducers and two flame sensors. The pressure transducers were of the strain gauge type and had a response time of 1 msec. The flame sensors were silicon photodiodes. The data from the instruments were recorded with a personal computer (PC) equipped with a high speed analog-to-digital (A/D) board. A Bureau designed computer software program converted the sensor data to engineering units and plotted the results versus time. These plots were used to obtain the maximum explosion pressure if the gas would ignite. The calibrations of the two pressure transducers were checked daily using the internal calibration resistors provided by the manufacturers. The data from the tests were permanently stored on both the PC hard disk and on floppy disks. The data from the two pressure transducers, the two flame sensors, and the flowmeters were also recorded on a strip chart recorder.

2.2. TEST METHOD

Several test conditions were addressed to determine if core drilling of the waste could create an ignition source for gases that might be present

during actual waste tank sampling. Possible ignition sources that were considered were frictional heating between the bit and saltcake and heating or sparking between the bit and an immovable steel object. The steel object could be the waste tank liner, a tank riser, or a discarded piece of equipment that was present in the waste.

Tests were performed beyond the normal operating envelope to provide additional conservatism in the results. The operating envelope specifies a maximum rotational speed of 55 rpm, a maximum downward force of 1170 lbs, and minimum purge gas flow rate of 30 ft³/min. The core drilling ignitability testing was done using target values for the speed and downward force that were approximately 15% greater than the envelope limits. Thus a downward force of 1,350 lbs force and 65 rpm was used. Thirty (30) ft³/min of nitrogen (N₂) purge gas was used since testing has shown that a purge rate lower than this was ineffective at removing the drill bit cuttings. Testing was performed under both "standard" drilling conditions where a purge gas was in effect, and under "off-normal" conditions where purge gas flow had stopped and/or a steel object had been impacted. Purge gas, which exits through 6 holes on the face of the drill bit, was turned on 30 s before drilling began for the tests where purge gas was used. (Note that during actual field sampling, the purge gas is started 5 min before drilling begins.)

Six separate test scenarios were considered for the evaluation of whether core drilling could ignite a flammable gas mixture. The six scenarios or test types are listed in Appendix B. Two flow rates (1 cm³/min and 1 ft³/min) for the flammable gas were used. Other conditions simulated were drilling without purge gas and drilling into a steel object. Each test scenario was duplicated and one test triplicated to confirm the results. After the end of each core drilling test, an electric match was ignited in the void space above the saltcake to confirm whether the flammable gas was present. Note that at the lower flammable gas flow rate, the exhaust vent had to be partially blocked in order to prevent recirculation of air back into the top of the saltcake container.

The following sequence lists the basic step by step procedures that were used for conducting the tests.

2.3. TEST PROCEDURE

- 1) Start drilling machine motor and adjust hydraulic pressure to achieve 1350 lbs of downward force.
- 2) Lower the drill bit to the surface of the waste simulant and set depth point to zero inches.

- 3) Raise the drill bit slightly above the waste simulant material and begin bit rotation.
- 4) With downward speed control valve closed, engage downward motion control valve. (This will allow downward travel to be controlled remotely).
- 5) Evacuate drilling area of personnel and perform initial filling of saltcake with flammable gas.
- 6) Set flammable gas to appropriate flow rate and start purge gas (if used).
- 7) Activate data acquisition system.
- 8) Start downward motion.
- 9) The test will be completed when the drill bit reaches the end of its travel (19 inches) or if another condition as outlined in the Test Plan is satisfied.
- 10) At conclusion of test, raise the drill bit out of the material, turn off the drill machine and associated purge and flammable gas, and stop the data acquisition system.

All of the core drilling tests were conducted remotely, with personnel in a separate control room for protection in the event that any of the tests resulted in ignition of the flammable gas mixture.

3. TEST RESULTS

3.1. FLAMMABILITY RESULTS IN 120-L CHAMBER AND SALTCAKE CONTAINERS

Before the drilling tests were conducted, flammable mixtures of hydrogen were ignited in the 120-L chamber and in the saltcake container to observe the maximum explosion pressures generated. For these flammability tests, an electric spark or electric match ignited the gas mixture, and the maximum explosion pressure was measured by the pressure transducers. The first tests were confined explosions in the 120-L chamber with central ignition and starting at atmospheric pressure. For a mixture of 30% H₂, 20% NH₃, 30% N₂O, and 19% N₂, the maximum pressure was about 140 psig (~9.6 bar,g). Adding

1% CH₄ had little effect on the maximum pressure. Note that these explosions were deflagrations and not detonations. See Appendix A, General Flammability and Ignitability of Hydrogen, for additional ignitability data.

For initial tests of the same flammable gas mixtures in the saltcake container, an electric match positioned in the void space above the saltcake was used to ignite the mixture. The maximum pressures measured by the transducer at the top of the saltcake container ranged from $\frac{1}{2}$ to $2\frac{1}{2}$ psig. The transducer at the bottom of the saltcake container measured slightly lower values for each test. The explosion pressures were much lower in the saltcake container than in the 120-L chamber because of the exhaust vent. This opening was large enough to vent most of the combustion products and greatly reduce the pressure build-up. In addition, the surface-to-volume ratio was much greater for the saltcake container than for the spherical 120-L chamber. This would increase the heat losses to the walls, thereby also reducing the maximum explosion pressure. The large variation in explosion pressures for the tests in the saltcake container were probably due to the variation in position of the match ignitor relative to the vent.

3.2. CORE DRILLING IGNITABILITY TEST RESULTS

As mentioned previously in section 2.2 "Test Method," the detailed descriptions of the six types of core drilling tests are listed in Appendix B. The summary results of the experimental core drilling tests are listed in table 3. The first column in the table lists the run number. The second column lists the type of test according to the notation in Appendix B. The third column lists whether the bit is drilling into the saltcake or into the steel plate at the bottom of the container. The fourth column lists whether purge gas was used during drilling. The flammable gas flow rate is listed in the fifth column. The maximum measured bit temperature during drilling is listed in the sixth column. The last column lists whether ignition was observed during the drilling test. In the table, the tests are listed in the order in which they were performed, but they will be discussed in the test type order listed in Appendix B. The first two types of tests involved core drilling (using purge gas) through a 19 in depth of saltcake initially filled with the flammable gas mixture. For test type #1, the flammable gas flow rate was 1 cm³/min and for test type #2, the flammable gas flow rate was 1 ft³/min (57×10³ cm³/min). For both tests, the purge gas flow rate was 30 ft³/min. There were no ignitions during core drilling for these tests (runs 12 & 13 in Table 3 for type #1 and runs 1 & 4 for type #2). This was expected because the purge gas flow was much greater than the flammable gas flow in both cases and the flammable gas would be diluted below its lean flammable limit. Even

Table 3 - Core Drilling Tests and Results						
Run	Type	Drilling into	Purge gas?	Flammable gas flow	Max. Bit Temp., °F	Ignition?
1	2a	salt cake	yes	1 ft ³ /min	161	no
2	6a	steel plate	no	1 ft ³ /min	465	no
3	6b	steel plate	no	1 ft ³ /min	320	no
4	2b	salt cake	yes	1 ft ³ /min	135	no
5	5a	steel plate	no	1 cm ³ /min	298	no
6	5b	steel plate	no	1 cm ³ /min	188	no
7	4b	salt cake	no	1 ft ³ /min	530	no
8	4c	salt cake	no	1 ft ³ /min	412	no
9	3a	salt cake	no	1 cm ³ /min	382	no
10	3b	salt cake	no	1 cm ³ /min	485	no
11	4d	salt cake	no	1 ft ³ /min	498	no
12	1a	salt cake	yes	1 cm ³ /min	133	no
13	1b	salt cake	yes	1 cm ³ /min	140	no

when the electric matches were set off above the saltcake after the end of the drilling, these gas mixtures did not ignite.

Test types #3 and #4 from Appendix B involved core drilling (without using purge gas) into the saltcake initially filled with a flammable gas mixture. For test type #3, the flammable gas flow rate was 1 cm³/min and for test type #4, the flammable gas flow rate was 1 ft³/min. Because the purge gas was not used to remove the cuttings, the drill was unable to penetrate more than 6 in. The maximum bit temperatures for these tests (runs 9 & 10 for type #3 and runs 7, 8, & 11 for type #4) were considerably higher than for the runs with purge gas. This was due to the lack of cooling action from the purge gas across the bit face. Since the flammable gas was not diluted by purge gas and the bit temperatures were higher for these runs, they would be expected to be more likely to produce ignitions than the first two types of tests. However, no ignitions were observed during drilling for any of the five tests for types #3 and #4. In studying the experimental data, the lack of ignition is most likely due to the fact that the bit temperatures, although higher, were not nearly high enough to ignite the flammable gas mixture. When the electric matches were set off after the end of these drilling tests, the gas mixtures did ignite.

The final two types of tests involved drilling (without using purge gas) into a steel plate in the presence of a flammable gas mixture. For test type #5, the flammable gas flow rate was 1 cm³/min and for test type #6, the flammable gas flow rate was 1 ft³/min. The possible ignition sources for these tests would be the hot drill bit and any frictional sparks that might be generated. As was observed for the other test types, there were no ignitions of the flammable gas mixture during these drilling tests (runs 5 & 6 for type #5 and runs 2 & 3 for type #6). When the electric match was set off after the end of the drilling, the gas mixture ignited for the 1 ft³/min flow rate but not for the 1 cm³/min flow rate. As mentioned in section 2.2 "Test Method," there was recirculation of air through the exhaust vent back into the top of the saltcake container during the low flow rate runs. This was corrected during later runs by partially blocking the exhaust vent during the low flow rate tests. However, even during the low flow rate tests (runs 5 & 6), the flammable gas was present at the bottom of the saltcake container where the steel plate was located.

Appendix D contains graphs of each run showing temperature and downward force versus time. Note that, for the saltcake drilling without purge gas, the test was run for as long as possible in an attempt to reach an extreme temperature. This went beyond the five minutes as called out in the test plan listed in Appendix B.

4. CONCLUSIONS AND RECOMMENDATIONS

All of the core drilling tests listed in the statement of work were completed. They included core drilling into saltcake with and without purge gas and drilling into a steel plate. None of the tests resulted in ignitions of the flammable gas mixture that permeated the saltcake. This shows that core drilling does not present an ignition hazard under these test conditions.

These observations and conclusions refer only to the specified conditions of test and may not include all possible safety considerations for the use of the core drilling system. This report should be used along with other engineering studies as part of the overall safety evaluation of the core drilling system.

5. ACKNOWLEDGEMENTS

The authors wish to acknowledge the financial support of the Department of Energy through Westinghouse Hanford Company for this research. The work was done under Memorandum of Agreement number 14-09-0050-3666 between the Bureau of Mines and WHC. The authors also thank I. A. Zlochower of the Bureau of Mines for the calculations of adiabatic flame temperatures of the gas mixtures in Appendix A.

6. REFERENCES

1. LA-UR-92-3196, Rev. 8, A Safety Assessment for Proposed Mixing Operations to Mitigate Episodic Gas Releases in Tank 241-SY-101.
2. K.S. Witwer, WHC-SD-WM-TP-203, Ignitibility Testing for Core Drilling System, March 21, 1994.
3. D.D. Wanner, WHC-SD-WM-TI-545, Justification of Saltcake Simulants, February 2, 1993.
4. Cashdollar, K. L., M. Hertzberg, I. A. Zlochower, C. E. Lucci, G. M. Green, and R. A. Thomas. Laboratory Flammability Studies of Mixtures of Hydrogen, Nitrous Oxide, and Air. Final Report to DOE and Westinghouse Hanford, WHC-SD-WM-ES-219, June 26, 1992, 71 pp.

7. APPENDIX A - GENERAL FLAMMABILITY AND IGNITABILITY OF HYDROGEN

Hydrogen in air is flammable over the range from 4 to 75% H₂ and the stoichiometric value is 29.5% H₂ (5,6). The maximum measured explosion pressure and the maximum calculated adiabatic temperature are found at 30% H₂. Near-stoichiometric mixtures of hydrogen-air are very easy to ignite with an electric spark. The minimum ignition energy (6) of H₂-air is 0.02 mJ. The autoignition temperature of H₂-air is ~520° C (6). This autoignition temperature was measured in a closed volume chamber with all walls uniformly heated so that there was a large area of contact with the gas and the entire gas volume would be heated to the test temperature. The minimum ignition temperature is higher if the heated area is much smaller and only part of the gas volume is heated. For example, the ignition temperature of H₂-air was 750° C when it was heated by a 1-mm diameter nichrome wire (6). Experimental data on the flammability of various H₂-N₂O-air mixtures can be found in reference 4. Because hydrogen has the lowest spark ignition energy and lowest autoignition temperature of the flammable gases (6) listed in table 2, it should have the dominant effect during the core drilling tests.

For the gas mixture in table 2 and ignoring the two minor gas constituents (CH₄ and CO), the flammable gas mixture is still fuel-rich. If the H₂ preferentially reacts with the N₂O and the NH₃ does not decompose,

However, at elevated temperatures, the NH₃ is expected to decompose and

The net result is seen to be equivalent to having the NH₃ preferentially react with the N₂O. Therefore, the details of how the reaction occurs can not be determined from the products.

Adiabatic equilibrium calculations of product gas temperatures, pressures, and compositions were made for the flammable gas mixture used for the core drilling tests. The calculations give the maximum expected explosion temperatures and pressures for the gas mixtures in the absence of a detonation. The calculations were generated using the CEC-80 computer code that was developed at the NASA-Lewis Research Center (7). This program computes the equilibrium product composition from the listed reactants and their standard energies of formation by examining all possible product species (consisting of combinations of the reactant atoms) whose temperature dependent thermodynamic properties are listed in an auxiliary table. The thermodynamic properties accessed by the program are taken predominantly from the JANAF thermodynamic compilation (8). The product composition is then obtained by minimizing the free energy of the system, taking into account phase changes of product species.

The enthalpy or internal energy of the products as a function of temperature is used together with the given enthalpy or internal energy of the reactants to calculate the equilibrium product temperature that is consistent with a constant energy process. The temperature and the calculated average molecular weight of the gaseous products is then used to calculate the system pressure for constant volume, via the ideal gas law (condensed phases are considered to have negligible volume).

Calculations can be made for either constant pressure (1 atm) or for constant volume. The calculated adiabatic flame temperatures at constant pressure for the standard flammable gas mixture (table 2) and variations are listed below in table 4.

Table 4 - Calculated Adiabatic Flame Temperatures*						
Gas compositions, %						T _{ad} , K
H ₂	NH ₃	CH ₄	CO	N ₂ O	N ₂	
30.0	0.0	0.0	0.0	30.0	40.0	3000
30.0	20.0	0.0	0.0	30.0	20.0	2310
30.0	20.0	1.0	0.5	30.0	18.5	2260

* Temperature calculations by I. A. Zlochower of the Bureau of Mines.

The calculated adiabatic temperature for the first mixture (30% H₂, 30% N₂O, and 40% N₂) is 3,000 K. When the ammonia is added in the next row, the temperature is lower because the mixture is fuel rich. Adding the small amounts of CH₄ and CO in the last row has little effect on the calculated adiabatic temperature.

Because of the high temperatures generated in the reactions listed in the above table, explosions of these premixed gases would generate high pressures in confined volumes. If the explosion occurred in a vented container, the explosion pressure could be much less depending on the size of the vent relative to the volume of the container. See section 3.1 for experimental pressure data.

APPENDIX A REFERENCES

5. Zabetakis, M. G. Flammability Characteristics of Combustible Gases and Vapors. BuMines B. 627, 1965, 121 pp.
6. Kuchta, J. M. Investigation of Fire and Explosion Accidents in the Chemical, Mining, and Fuel-Related Industries - A Manual. BuMines B. 680, 1985, 84 pp.
7. Gordon, S., and B. J. McBride. Computer Program for Calculation of Complex Chemical Equilibrium Composition, Rocket Performance, Incident and Reflected Shocks, and Chapman-Jouguet Detonations. NASA SP-273, 1976, 241 pp.
8. JANAF. Thermochemical Tables. The Dow Chemical Co., Midland, MI.

8. APPENDIX B - TEST DESCRIPTIONS

TEST TYPE #1: DRILLING WITH PURGE GAS (FLAMMABLE OFF-GAS OF 1 CM³/MIN)

For this test the saltcake will be purged of any atmospheric gasses by flowing the flammable gas mixture through the saltcake at 1 ft³ for at least 4 min. The flammable gas mixture will then continue to flow at 1 cm³/min through the saltcake.⁶ Core drilling under these conditions will be performed in the saltcake for 19 in of depth (one core segment), or 1 hour, whichever occurs first. This test will demonstrate that core drilling can be performed safely under normal conditions. An exhaust system provided by the USBM will be used to collect cuttings.

TEST TYPE #2: DRILLING WITH PURGE GAS (FLAMMABLE OFF-GAS OF 1 FT³/MIN)

This test will repeat Test 1 except that the gas mixture will flow⁷ at an increased rate of 1 ft³/min.

TEST TYPE #3: DRILLING WITHOUT PURGE GAS (FLAMMABLE OFF-GAS OF 1 CM³/MIN)

For this test the saltcake will be filled with the flammable gas mixture as in Test 1. Drilling in the saltcake will begin without the use of a purge gas and continue for at least 5 min time (expected depth is ~2 in). If ignition of the gas mixture occurs on any of the two trials of this test, then they shall be repeated under the more conservative condition where this test is preceded by drilling with the use of a purge gas. In this case drilling would begin with purge gas flowing, then the purge would be shut off and drilling continued.

⁶This rate is based on an average off-gas release rate of 120 cu ft per day from 101-SY Waste Tank (a 75 foot diameter tank) which is used as a worst case example. When a 12 inch diameter section (size of saltcake container used for testing) is considered, an off gas rate of .42 cc/min is calculated. The gas is assumed to be released over half of the surface of the tank, therefore this value is doubled and rounded up to 1 cc/min for testing.

⁷Internal Memo from R.J. Van Vleet, Ph.D. to Keith Witwer describes the need to accommodate an instance where a large gas release or "burp" were to occur rather than a steady state release. Based on a release rate of 0.0198 ft/s, this works out to approximately 1 ft³/min for the 12 inch diameter saltcake container.

This test will demonstrate that either 1) Core drilling can be safely performed without the use of purge gas; or 2) Core drilling can be safely performed in the event of a loss of purge gas after drilling has already begun.

TEST TYPE #4: DRILLING WITHOUT PURGE GAS (FLAMMABLE OFF-GAS OF 1 FT³/MIN)

This test will repeat Test 3 except that the gas mixture will flow at an increased rate of 1 ft³/min.

TEST TYPE #5: DRILLING AGAINST STEEL PLATE (FLAMMABLE OFF-GAS OF 1 cm³/min)

This test will be similar to Test #3. The saltcake will be filled with the flammable gas mixture. Drilling against a steel plate will begin without the use of a purge gas and continue for at least 5 min time. If ignition of the gas mixture occurs on any of the two trials of this test, then they shall be repeated under the more conservative condition where this test is preceded by drilling with the use of a purge gas. This test will demonstrate that drilling can be safely performed even if a steel object is encountered during the drilling process.

TEST TYPE #6: DRILLING AGAINST STEEL PLATE (FLAMMABLE OFF-GAS OF 1 ft³/min)

This test will repeat Test #5 except that the gas mixture will flow at an increased rate of 1 ft³/min.

9. APPENDIX C - INSTRUMENT VERIFICATION

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 23 OF 207

CORE DRILLING EQUIPMENT CALIBRATION VERIFICATION (Reference WHC-SD-WM-TP-203)

POSITION TRANSDUCER:

750-80-04-001
Standards Code No.

6/24/95
Expires

Michael A. 74-94
Quality Control

[Signature]
Test Engineer

UPPER RAM PRESSURE TRANSDUCER/INDICATOR

750-35-40-002
Standards Code No.

6/24/95
Expires

Michael A. 74-94
Quality Control

[Signature]
Test Engineer

LOWER RAM PRESSURE TRANSDUCER:

750-35-40-001
Standards Code No.

6/22/95
Expires

Michael A. 74-94
Quality Control

[Signature]
Test Engineer

PURGE GAS FLOW METER:

999-28-03-036
Standards Code No.

3/31/95
Expires

Michael A. 74-94
Quality Control

[Signature]
Test Engineer

PURGE GAS PRESSURE TRANSDUCER:

750-35-40-003
Standards Code No.

6/22/95
Expires

Michael A. 74-94
Quality Control

[Signature]
Test Engineer

DIGITAL TACHOMETER:

999-23-05-001
Standards Code No.

6/24/95
Expires

Michael A. 74-94
Quality Control

[Signature]
Test Engineer

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 24 OF 207

CORE DRILLING EQUIPMENT
DATA ACQUISITION SYSTEM VERIFICATION-cont.

TACHOMETER (RPM):

ACTUAL	RECORDED
31	30.5
38.75	38.1
57	56.7
66.5	67.2
46	45.6

Mark McArthur 7/94 *MSW*
Quality Control Test Engineer

DRILLING DEPTH:

ACTUAL	RECORDED
0"	.4"
2.1	2.5
4.2	4.4
6.1	6.3
8.1	8.1
10.1	10.1
12.1	12.1
14.1	14.2
16.1	16.1
18.1	18.1
20.1	20.1
22.1	22.1
24.1	24.0

Mark McArthur 7/94 *MSW*
Quality Control Test Engineer

DRILL BIT TEMPERATURE RECORDING (deg C):

ACTUAL	RECORDED
0	.5
60	60.1
120	120.4
180	180.3
240	240.3
300	300.3

Mark McArthur 7/94 *MSW*
Quality Control Test Engineer

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 25 OF 207

CORE DRILLING EQUIPMENT
DATA ACQUISITION SYSTEM VERIFICATION-cont.PURGE GAS TEMPERATURE RECORDING (deg C):

<u>ACTUAL</u>	<u>RECORDED</u>
<u>0</u>	<u>0.2</u>
<u>60</u>	<u>60.3</u>
<u>120</u>	<u>120.3</u>
<u>180</u>	<u>180.3</u>
<u>240</u>	<u>240.3</u>
<u>300</u>	<u>300.3</u>

Mark McHugh 7-1-94 *W. B. W.*
Quality Control Test Engineer

UPPER RAM PRESSURE: (Psi)

<u>ACTUAL</u>	<u>RECORDED</u>
<u>40</u>	<u>38.5</u>
<u>80</u>	<u>80.2</u>
<u>120</u>	<u>121.9</u>
<u>160</u>	<u>160.4</u>
<u>200</u>	<u>198.9</u>

Mark McHugh 7-1-94 *W. B. W.*
Quality Control Test Engineer

LOWER RAM PRESSURE: (Psi)

<u>ACTUAL</u>	<u>RECORDED</u>
<u>40</u>	<u>39.8</u>
<u>80</u>	<u>80.0</u>
<u>120</u>	<u>120.2</u>
<u>160</u>	<u>160.4</u>
<u>200</u>	<u>199.0</u>

Mark McHugh 7-1-94 *W. B. W.*
Quality Control Test Engineer

PURGE GAS FLOW RATE:

<u>ACTUAL ($\frac{1}{2}$ Psi)</u>	<u>RECORDED</u>
<u>49.5</u>	<u>49.8</u>
<u>40</u>	<u>40.8</u>
<u>30</u>	<u>30.2</u>
<u>20</u>	<u>21</u>

Mark McHugh 7-1-94 *W. B. W.*
Quality Control Test Engineer

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 26 OF 207

CORE DRILLING EQUIPMENT
DATA ACQUISITION SYSTEM VERIFICATION-cont.PURGE GAS PRESSURE:

<u>ACTUAL</u>	<u>RECORDED</u>
<u>12</u>	<u>12.8</u>
<u>24</u>	<u>24.3</u>
<u>36</u>	<u>36.5</u>
<u>48</u>	<u>49.1</u>
<u>60</u>	<u>59.8</u>

M. M. [Signature] *[Signature]*
Quality Control Test Engineer

DOWNWARD FORCE MEASUREMENT: (16s)

<u>ACTUAL</u>	<u>RECORDED</u>
<u>674</u>	<u>704</u>
<u>830</u>	<u>820</u>
<u>988</u>	<u>1020</u>
<u>1200</u>	<u>1210</u>
<u>1350</u>	<u>1340</u>
<u>1506</u>	<u>1530</u>
<u>1123</u>	<u>1150</u>
<u>883</u>	<u>920</u>
<u>653</u>	<u>705</u>
<u>673</u>	<u>700</u>
<u>843</u>	<u>830</u>
<u>1010</u>	<u>1045</u>
<u>1227</u>	<u>1240</u>
<u>1377</u>	<u>1400</u>
<u>960</u>	<u>1005</u>
<u>675</u>	<u>710</u>

M. M. [Signature] *[Signature]*
Quality Control Test Engineer

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 27 OF 207

CORE DRILLING EQUIPMENT
CALIBRATION VERIFICATION cont.

SIGNAL CONDITIONER FOR THERMOUPLE INPUTS:

750-03-30-001
Standards Code No.

6/22/95
Expires

Malcolm H. H. H.
Quality Control

J. L. W.
Test Engineer

WHC-SD-WM-TRP-224

REV. 0

PAGE 28 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT

[illegible]

WHC-SD-WM-TRP-224

REV. 0

PAGE 29 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT

CUSTODIAN/ADDRESS				STANDARDS CODE NUMBER		NEW		REFERENCE NUMBER	
OLIVER JW				750-35-40-002		MODIFY		382244	
L6-13						ORGANIZATION CODE		WORK ORDER	
INSTRUMENT				SERIAL NUMBER		RECALL CYCLE		TOLERANCE HISTORY	
PRESSURE INDICATOR				108065		W8D610		E25277	
OMEGA DP-350				ROOM		2		360	
				BUILDING		1 ACTIVE		10	
				N/A		2 NONRECALL		TOLERANCE	
				305		3 SUSPENDED		AS RECEIVED	
				5		4 DELETED		1 IN	
SENDER				COMMENTS		940617		2 OUT	
K WITWER 6-3019				UPPER Ram		SHIPPING DAY		3 NA	
INSTRUMENT SPECIFICATIONS						WE		4 FAILED	
22% of Full Scale, arrived WSC						TRAINING HOURS			
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY				4:1 RATIO Y ☒ N ☐		CALIBRATION HOURS		20	
OR NATIONALLY RECOGNIZED STANDARDS						REPAIR HOURS			
EXPIRATION DATE				EXPIRATION DATE		OTHER HOURS			
6-2-81-04-003 7-31-94						MATERIALS			
REMARKS						TOTAL CHARGE =			
						(\$120 x SUM OF HOURS) + MATERIAL			
PROCEDURE NUMBER				WHC-IHP-PRESGA REV.2		DATE CALIBRATED		DATE DUE	
						6-22-94		6-22-95	
						AMBIENT TEMPERATURE =		ND	
TEST POINTS				AS FOUND		FINAL		TOLERANCE	
PSE				PSE		PSE		PSE	
40				6.9		38.5		±4	
80				16.9		80.2			
120				23.1		121.9			
160				30.6		160.4			
200				38.1		198.9			
APPROVED BY				CALIBRATED BY		PAGE			
6-23-94				48		1 OF 1			
O.D. Nelson				Hanford Operations and Engineering Contractor for the United States Department of Energy		Westinghouse Hanford Company Subsidiary of Westinghouse Electric Corporation Box 1970, Richland, WA 99352			

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 30 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT

CUSTODIAN/ADDRESS OLIVER JW L6-13		STANDARDS CODE NUMBER 750-35-40-001		NEW MODIFY ORGANIZATION CODE W8D610		REFERENCE NUMBER 382245 WORK ORDER E25277	
INSTRUMENT PRESSURE INDICATOR OMEGA DP-350		SERIAL NUMBER 108057	PROPERTY NUMBER N/A	RECALL STATUS 1 ACTIVE 2 NONRECALL 3 SUSPENDED 4 DELETED	RECALL CYCLE 360	TOLERANCE HISTORY TOLERANCE AS RECEIVED 1 IN 2 OUT 3 NA 4 FAILED	
SENDER K WITWER 6-3019		ROOM N/A	BUILDING 305	SERVICE DEPARTMENT 5	DATE RECEIVED 940617	SHIPPING DAY WE	
INSTRUMENT SPECIFICATIONS #2% OF FULL SCALE; ASSIGNED WSL		COMMENTS CAL'D W/XDUCER SN-461705 <i>WHLA RM</i>					
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OR NATIONALLY RECOGNIZED STANDARDS				TRAINING HOURS CALIBRATION HOURS 2.0 REPAIR HOURS OTHER HOURS			
EXPIRATION DATE 01-2-31-04-02 3-7-31-94				EXPIRATION DATE			
REMARKS				MATERIALS			
PROCEDURE NUMBER WHC-IHP-PRESGA REV.2				TOTAL CHARGE = (\$120 x SUM OF HOURS) + MATERIAL DATE CALIBRATED 6-22-94 DATE DUE 6-22-95			
AMBIENT TEMPERATURE = 110							
BEST POINTS		AS FOUND		FINAL		TOLERANCE	
PSI		PSI		PSI		PSI	
40		7.2		39.8		±4	
50		15.0		80.0			
120		22.8		120.2			
160		30.6		160.4			
200		38.1		199.0			

APPROVED BY
6-23-94
D. J. Nelson

CALIBRATED BY

1.00
46
17Hanford Operations and
Engineering Contractor
for the United States
Department of EnergyWestinghouse Hanford Company
Subsidiary of Westinghouse
Electric Corporation
Box 1970, Richland, WA 99352PAGE
1 OF 1

WHC-SD-WM-TRP-224

REV. 0

PAGE 31 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT

[illegible]

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 32 OF 207

STANDARDS CODE #		REFERENCE #		CAL DATE	
999-28-03-036		379545		3/31/94	
NOMENCLATURE : FLOWMETER MFG - MODEL : HEDLAND / 647060 RANGE : 10 - 60 SCFM STD. CONDITIONS : 14.7 PSIA @ 70 F / 100 PSIG OPERATING PRESS. (AIR) PROCEDURE # : WHC-B-HEDLAND-647060 (LO3) REV 0 TOLERANCE : +- 6 % OF FULL SCALE (MFG)					
AS FOUND			FINAL		
TEST POINTS UUT SCFM	SCFM	SCFM ERROR	TOLERANCE SCFM	SCFM	ERROR SCFM
12	16.32	-4.32	3.6	16.3	-4.3
24	25.68	-1.68	3.6	25.7	-1.7
36	36.79	-0.79	3.6	36.8	-0.8
48	48.67	-0.67	3.6	48.7	-0.7
60	62.83	-2.83	3.6	62.8	-2.8
AS FOUND DATA					
UUT SCFM	COX PRESSURE mmHG	COX TEMP. (F)	BARO. PRESS. (PSI)	UUT TEMP. (F)	AIR DENSITY
12	2807	74.1	14.607	74.5	0.003232
24	4405	74.4	14.606	75.0	0.003236
36	1578	75.6	14.609	75.2	0.012952
48	2088	75.2	14.609	75.0	0.012952
60	2704	74.7	14.608	73.7	0.012952
FINAL DATA					
UUT SCFM	COX PRESSURE mmHG	COX TEMP. (F)	BARO. PRESS. (PSI)	UUT TEMP. (F)	AIR DENSITY
12	2807	74.1	14.607	74.5	0.003232
24	4405	74.4	14.606	75.0	0.003236
36	1578	75.6	14.609	75.2	0.012952
48	2088	75.2	14.609	75.0	0.012952
60	2704	74.7	14.608	73.7	0.012952
COMMENTS:					
(*) DENOTES OUT OF TOLERANCE CONDITION					
APPROVED BY			CALIBRATED BY		
[Signature] 03/31/94			[Signature]		

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 33 OF 207

Physical and Electrical Standards Laboratory
NOTICE OF DISCREPANCY MEASURING AND TEST EQUIPMENT

To: <u>W. T. W. R. K.</u> <u>46-13</u>	Instrument Name <u>HEDLAND 647060</u> Standards Code No. <u>999-28-03-036</u> Property No. <u>N/A</u> Date <u>3/31/49</u>
---	--

While performing "as found" calibration on the above M&TE, out-of-tolerance readings were noted as seen on the attached report. The disposition of the item is as follows:

- ☐ Repaired and calibrated to original manufacturer specifications
- ☒ • Conditionally accept item "as is".
(unit not adjustable)
- ☐ • Repaired to acceptable conditions within the following limits:

REJECT:

- ☐ - Beyond economical repair at Standards Laboratory
- ☐ - No parts available at Standards Laboratory
- ☐ - No manual, prints, etc., available at Standards Laboratory

*Attach Limited Calibration Label

If your investigations into situations where material inspected or data collected by the discrepant item since last calibrated may have been erroneously accepted; notify Quality Assurance of actions initiated to control such material or data.

Stds Lab: Whitely 033194

Distribution: Custodian
Quality Assurance
File

Hanford Operations and
Engineering Contractor
for the U.S. Department of Energy

Westinghouse Hanford Co.
Subsidiary of Westinghouse
Electrical Corporation
Box 1970
Richland, WA 99352

WHC-SD-WM-TRP-224
REV. 0
PAGE 34 OF 207

CUSTODIAN/ADDRESS OLIVER JW L6-13 INSTRUMENT		STANDARDS CODE NUMBER 750-35-40-003		NEW MODIFY ORGANIZATION CODE W8D610		REFERENCE NUMBER 382246 WORK ORDER E25277	
PRESSURE INDICATOR OMEGA DP-350		SERIAL NUMBER 108062	PROPERTY NUMBER N/A	RECALL STATUS 1 ACTIVE 2 NONRECALL 3 SUSPENDED 4 DELETED	RECALL CYCLE 360	TOLERANCE HISTORY IN	
SENDER K WITWER 6-3019		ROOM N/A	BUILDING 305	SERVICE DEPARTMENT 5	DATE RECEIVED 940617	TOLERANCE AS RECEIVED 1 IN 2 OUT 3 NA 4 FAILED	
INSTRUMENT SPECIFICATIONS +1% of full scale, As marked WSC		COMMENTS Purge Gas Pressure		SHIPPING DAY WE			
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OR NATIONALLY RECOGNIZED STANDARDS EXPIRATION DATE 12-3-94 4:1 RATIO Y ☐ N ☐				TRAINING HOURS			
102-31-04-033 12-3-94				CALIBRATION HOURS 2.0			
				REPAIR HOURS			
				OTHER HOURS			
				MATERIALS			
REMARKS				TOTAL CHARGE = (\$120 x SUM OF HOURS) + MATERIAL			
				DATE CALIBRATED 6-22-94 DATE DUE 6-22-95			
PROCEDURE NUMBER WHC-IHP-PRESGA REV.2				AMBIENT TEMPERATURE = NA			
TEST	As Found		Final		Tolerance		
POINTS	STD	UUT	STD	UUT	PSF		
PSF	PSF	PSF	PSF	PSF	±.6		
12	11.6	5.0	12.3	12.8	↓		
24	24.1	12.9	24.3	24.3			
36	36.4	21.6	36.4	36.5			
48	48.4	29.5	48.9	49.1			
60	60.2	37.5	59.8	59.8			
APPROVED BY 6-23-94 O.D. Nelson							
CALIBRATED BY		46		Hanford Operations and Engineering Contractor for the United States Department of Energy		Westinghouse Hanford Company Subsidiary of Westinghouse Electric Corporation Box 1970, Richland, WA 99352	
		12				PAGE 1 OF 1	

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 35 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT

CUSTODIAN/ADDRESS WITWER KS L6-13		STANDARDS CODE NUMBER 999-23-05-001		NEW MODIFY ORGANIZATION CODE W8D610		REFERENCE NUMBER 382251 WORK ORDER E25277	
INSTRUMENT DIGITAL TACHOMETER SHOP MADE DRILL BIT RPM		SERIAL NUMBER N/A	PROPERTY NUMBER N/A	RECALL STATUS 1 ACTIVE 2 NONRECALL 3 SUSPENDED 4 DELETED	RECALL CYCLE 360	TOLERANCE HISTORY N	
SENDER K WITWER 6-3019		ROOM N/A	BUILDING 305	SERVICE DEPARTMENT 3	DATE RECEIVED 940622	TOLERANCE AS RECEIVED 1 IN 2 OUT 3 NA 4 FAILED	
INSTRUMENT SPECIFICATIONS		COMMENTS As Left / customer				SHIPPING DAY NA	
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OR NATIONALLY RECOGNIZED STANDARDS		EXPIRATION DATE 601-23-15-001 2-7-95		4:1 RATIO Y ☐ N ☒ Best accepted 999		EXPIRATION DATE	
REMARKS		PROCEDURE NUMBER Customer directed ST & RPM: 4 = Conversion Rdg Comp				TRAINING HOURS CALIBRATION HOURS 13.0 REPAIR HOURS OTHER HOURS MATERIALS TOTAL CHARGE = (\$120 x SUM OF HOURS) + MATERIAL DATE CALIBRATED 6-27-94 DATE DUE 624-95 AMBIENT TEMPERATURE =	
269		67.25		9875			
230		57.5		8460			
180		45		6730			
150		37.5		5670			
Final readings w/ computer aligned							
124		31 RPM		30.5 RPM			
155		38.75		38.1			
228		57		56.7			
286		66.5		67.2			
184		46		45.6			

APPROVED BY Della 6-28-94	CALIBRATED BY 50 WEC	Hanford Operations and Engineering Contractor for the United States Department of Energy	Westinghouse Hanford Company Subsidiary of Westinghouse Electric Corporation Box 1970, Richland, WA 99352	PAGE 1 OF 1
------------------------------	-------------------------	--	---	----------------

WHC-SD-WM-TRP-224

REV. 0

PAGE 36 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT

CUSTODIAN/ADDRESS		STANDARDS DATA NUMBER		NEW		REFERENCE NUMBER	
WITWER KS		750-03-30-001		MODIFY		382253	
L6-13				ORGANIZATION CODE		W8D610	
INSTRUMENT		SERIAL NUMBER		PROPERTY NUMBER		RECALL STATUS	
SIGNAL CONDITIONER		N/A		N/A		1 ACTIVE	
VALIDDYNE		ROOM		BUILDING		2 NONRECALL	
WITH 2 T/C INPUTS		N/A		305		3 SUSPENDED 2	
SPENDER		COMMENTS		9		4 DELETED	
K WITWER 6-3019		1-BIT TEMP. 2-PURGE GAS TEMP		940621		TOLERANCE HISTORY	
INSTRUMENT SPECIFICATIONS				SHIPPING DAY		1 IN	
+ 2°C		ASSIGNED by WSK		NA		2 OUT	
						3 NA	
						4 FAILED	
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY		4:1 RATIO		Y ☒ N ☐		TRAINING HOURS	
NATIONALLY RECOGNIZED STANDARDS		EXPIRATION DATE		EXPIRATION DATE		CALIBRATION HOURS	
750-13-55-002		5/13/95				2.0	
						REPAIR HOURS	
						OTHER HOURS	
						MATERIALS	
REMARKS						TOTAL CHARGE =	
XK						(\$120 x SUM OF HOURS) + MATERIAL	
						DATE CALIBRATED	
						DATE DUE	
						6/22/94	
						6/22/95	
PROCEDURE NUMBER		WHC-4-TEMPIND REV. 1				AMBIENT TEMPERATURE =	
						NA	
TEST POINTS		TC1		TC2		Limits	
°C		°C		°C		°C	
0		0.5		0.2		+/- 2	
60		60.1		60.3			
120		120.4		120.3			
180		180.3		180.3			
240		240.4		240.3			
300		300.5		300.3			
APPROVED BY		6-23-94		CALIBRATED BY		L.21	
D. J. Nelson						Hanford Operations and Engineering Contractor for the United States Department of Energy	
						Westinghouse Hanford Company Subsidiary of Westinghouse Electric Corporation Box 1970, Richland, WA 99352	
						PAGE 1 OF 1	

WHC-SD-WM-TRP-224

REV. 0

PAGE 37 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT

CUSTODIAN/ADDRESS WITWER KS		STANDARDS BUREAU 750-78-02-008		NEW ☒ MODIFY ☐ ORGANIZATION CODE W22360 REFERENCE NUMBER 379995	
L6-13				WORK ORDER E24012	
INSTRUMENT THERMOCOUPLE TYPE K 15 EACH		SERIAL NUMBER 1	PROPERTY NUMBER N/A	RECALL STATUS 1 ACTIVE 2 NONRECALL 3 SUSPENDED 4 DELETED	RECALL CYCLE 360
SENDER K WITWER 6-5019		ROOM N/A	BUILDING 305	SERVICE DEPARTMENT 4	DATE RECEIVED 940331
INSTRUMENT SPECIFICATIONS		COMMENTS		TOLERANCE AS RECEIVED 1 IN 2 OUT 3 MA 4 FAILED	
				SHIPPING DAY WE	
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OR NATIONALLY RECOGNIZED STANDARDS				TRAINING HOURS	
EXPIRATION DATE 002-79-06-001 9-23-94				CALIBRATION HOURS 6.5	
EXPIRATION DATE 002-67-11-004 6-8-94				REPAIR HOURS	
EXPIRATION DATE 002-14-01-035 6-22-94				OTHER HOURS	
REMARKS				MATERIALS	
				TOTAL CHARGE = (\$120 x SUM OF HOURS) + MATERIAL	
PROCEDURE NUMBER WHC-78-05-TCCAL REV.2				DATE CALIBRATED 4-19-94 DATE DUE 4-19-95	
				AMBIENT TEMPERATURE -222	
SERIAL NUMBER	STANDARD	AS FOUND	SERIAL NUMBER	STANDARD	AS FOUND
679	50.0	49.5	← Same	241.96	243.1
684		"			243.4
683		49.2			"
680		"			"
677		"			"
682		48.8			"
681		49.6			243.1
678		48.5			"
676		49.5			243.4
685	↓	"	↓	↓	"
679	123.4	124.8	← Same	352.09	353.0
684		124.5			353.4
683		124.7			353.1
680		124.9			353.3
677		125.0			"
682		125.1			"
681		124.7			"
678		124.8			"
676		125.0			"
685	↓	124.9	↓	↓	"
APPROVED BY <i>[Signature]</i>		CALIBRATED BY <i>[Signature]</i>		Hanford Operations and Engineering Contractor for the United States Department of Energy	
DATE 04-20-94		N/C 32		Westinghouse Hanford Company Subsidiary of Westinghouse Electric Corporation Box 1970, Richland, WA 99352	
				PAGE 1 OF 2	

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 38 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT

[illegible]

WHC-SD-WM-TRP-224
REV. 0
PAGE 39 OF 207

[illegible]

WHC-SD-WM-TRP-224
REV. 0
PAGE 40 OF 207

CUSTODIAN/ADDRESS WITWER KS		STANDARDS NUMBER 750-78-02-010		NEW MODIFY		REFERENCE NUMBER 382465	
L6-13				ORGANIZATION CODE W8D610		WORK ORDER E25277	
INSTRUMENT THERMOCOUPLE TYPE K - 2 EACH 1-16" DIA.		SERIAL NUMBER NA ROOM NA BUILDING 305		PROPERTY NUMBER NA SERVICE DEPARTMENT 4		RECALL STATUS 1 ACTIVE 2 NONRECALL 3 SUSPENDED 4 DELETED	
SENDER WITWER 6-3019		COMMENTS SN #633 AND SN #291		RECALL CYCLE 360		TOLERANCE HISTORY 1 IN 2 OUT 3 NA 4 FAILED	
INSTRUMENT SPECIFICATIONS ±2.2°C				DATE RECEIVED 940707		TOLERANCE AS RECEIVED	
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OR NATIONALLY RECOGNIZED STANDARDS				TRAINING HOURS		CALIBRATION HOURS 4.0	
EXPIRATION DATE 002-47-11-0046-10-95				REPAIR HOURS		OTHER HOURS	
EXPIRATION DATE 002-79-06-0019-23-94				MATERIALS		TOTAL CHARGE = (\$120 x SUM OF HOURS) + MATERIAL	
REMARKS NEW - NO WP DATA SHEET IN SYSTEM				DATE CALIBRATED 7-7-94		DATE DUE 7-7-95	
PROCEDURE NUMBER WHC-4-TC-CAL REV.3 (K)				AMBIENT TEMPERATURE -23°C			
Standard °C	Serial #	UUT Indication AS FOUND FINAL		MFG'S SPEC'S			
19.7	633	19.6		±2.2°C			
"	291	"					
80.0	633	80.3					
"	291	"					
150.0	633	151.1					
"	291	151.0					
229.8	633	231.0					
"	291	230.7					
299.9	633	300.6					
"	291	300.0					
APPROVED BY K. C. R.		CALIBRATED BY W. J. L.		Hanford Operations and Engineering Contractor for the United States Department of Energy		Westinghouse Hanford Company Subsidiary of Westinghouse Electric Corporation Box 1970, Richland, WA 99352	
PAGE 1 OF 1							

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 41 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT			
CUSTODIAN/ADDRESS WITWER KS L6-13		STANDARDS CODE NUMBER 750-31-04-015	
INSTRUMENT PRESSURE GAUGE MARSH 0-100 PSI		SERIAL NUMBER N/A	PROPERTY NUMBER N/A
SENDER K WITWER 6-3019		ROOM N/A	BUILDING 305
INSTRUMENT SPECIFICATIONS MFG. Spec 54-290 F.S.		SERVICE DEPARTMENT 5	RECALL STATUS 1 ACTIVE 2 NONRECALL 3 SUSPENDED 4 DELETED
COMMENTS CALIBRATION MEDIUM-WATER 7-2% F.S.		RECALL CYCLE 360	TOLERANCE HISTORY II
TRAINING HOURS		DATE RECEIVED 940322	TOLERANCE AS RECEIVED 1.5
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OR NATIONALLY RECOGNIZED STANDARDS		SHIPPING DAY WE	REPAIR HOURS
EXPIRATION DATE 002-31-04-033 6/3/94			OTHER HOURS
REMARKS			MATERIALS
PROCEDURE NUMBER WHC-IHP-PRESGA REV.2 T2-100			TOTAL CHARGE = (\$120 x SUM OF HOURS) + MATERIAL
			DATE CALIBRATED DATE DUE 3/31/94 3/31/95
			AMBIENT TEMPERATURE - 22.38
TEST POINT	STANDARD READINGS		TOLERANCE
PSI	AS FOUND PSI	FINAL PSI	PSI
20	18.8	Same	7-2
40	39.8		
60	55.8		
80	80.4		
100	100.4		
APPROVED BY 3-31-94 CALIBRATED BY			
D. J. Nelson		Westinghouse Hanford Company Engineering Contractor for the United States Department of Energy	
		Westinghouse Hanford Company Subsidiary of Westinghouse Electric Corporation Box 1970, Richland, WA 99352	

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 42 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT			
CUSTODIAN/ADDRESS WITWER KS L6-13		STANDARDS CODE NUMBER 750-31-04-017	
INSTRUMENT PRESSURE GAUGE ASHCROFT 2462 0-600 PSIG		SERIAL NUMBER N/A	PROPERTY NUMBER N/A
SENDER K WITWER 6-5019		ROOM N/A	BUILDING 305
INSTRUMENT SPECIFICATIONS		SERVICE DEPARTMENT 5	RECALL STATUS 1 ACTIVE 2 NONRECALL 3 SUSPENDED 4 DELETED
COMMENTS MFG. SPENS. 4.590 F.S.		DATE RECEIVED 360	RECALL CYCLE 940322
TRAINING HOURS		SHIPPING DAY WE	TOLERANCE HISTORY I AS RECEIVED 2 OUT 3 NA 4 FAILED
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OR NATIONALLY RECOGNIZED STANDARDS		CALIBRATION HOURS 1.5	
EXPIRATION DATE 002-31-04-003 1/31/95		REPAIR HOURS	
4:1 RATIO Y ☐ N ☒		OTHER HOURS	
REMARKS		MATERIALS	
PROCEDURE NUMBER WHC-IHP-PRESGA REV.2 T2-600		TOTAL CHARGE = (\$120 x SUM OF HOURS) + MATERIAL	
		DATE CALIBRATED 3/31/94	
		DATE DUE 3/31/95	
		AMBIENT TEMPERATURE 22.1°C	
TEST POINT	STANDARD READINGS		TOLERANCE
PSI	AS FOUND PSI	FINAL PSI	PSI
100	97	Same	4-3
200	197		
300	297		
400	397		
500	498		
600	598		
APPROVED BY D.J. Nelson 3-31-94			
CALIBRATED BY A. STOLAS		Hanford Operations and Engineering Contractor for the United States Department of Energy	
		Westinghouse Hanford Company, PAGE Subsidiary of Westinghouse Electric Corporation Box 1970, Richland, WA 99352	

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 43 OF 207

PROCEDURE NO.		REPORT OF CALIBRATION PHYSICAL & ELECTRICAL STANDARDS LABORATORY (CONTINUED)				CODE NO. 750-35-40-002 DATE 6-27-94	
FORCE		Tol: As left/customer				TOLERANCE	
		AS FOUND		AS LEFT			
6" I beams were used as a platform. The drill rig had the bit extension attached. On 6-24-94 runs were made at 4 I beam heights to provide data for a computer fit. On 6-27-94 the force measurements from the std and computer were compared. 002-67-26-005 6-21-95							
6-24-94		3rd I Beam height		4th I Beam height			
Low height		PSI Comp		PSI Comp			
0 PSI std -4650 Comp.		685 -3100		656 -3030			
685 -2950		747 -2800		880 -2250			
1029 -1830		1003 -2100		998 -2020			
1564 -0150		1229 -1350		1249 -1050			
		1530 -500		1507 -430			
2nd I Beam Height		2nd run 2IB					
Std Comp		Std Comp					
676 PSI -3060		683 PSI -3100					
1045 -3100		860 -2500					
707 -3150		991 -2400					
821 -2550		1306 -1000					
1086 -2900		1567 -370					
1568 -200							
6-27-94		Std # 002-67-26-005 6-21-95					
1 I Beam height		2nd I Beam height					
Std Comp Rd Out		Std Comp Rd Out					
674 PSI 704 PSI		673 700					
830 820		843 830					
988 1020		1010 1045					
1200 1210		1227 1240					
1350 1340		1377 1400					
1506 1530		960 1005					
1123 1150		675 710					
883 920							
653 705							
APPROVED BY		CALIBRATED BY STD 26		Ref # 382244		PAGE 2 of 2	

APPENDIX C

WHC-SD-WM-TRP-224

REV. 0

PAGE 44 OF 207

WESTINGHOUSE STANDARDS LABORATORY PHYSICAL AND ELECTRICAL REPORT			
CUSTODIAN/ADDRESS NEER GL L6-13		STANDARDS CODE NUMBER 750-31-04-012	
INSTRUMENT PRESSURE GAUGE ASHCROFT 1005 0-600 PSI		SERIAL NUMBER N/A	PROPERTY NUMBER N/A
SENDER WK WITWER 6-3019		ROOM N/A	BUILDING 305
INSTRUMENT SPECIFICATIONS		SERVICE DEPARTMENT 5	RECALL STATUS 1 ACTIVE 2 NONRECALL 3 SUSPENDED 4 DELETED
COMMENTS MFG. Specs 7- 3-2-3 7/		RECALL CYCLE 360	TOLERANCE HISTORY I
STANDARD(S) USED IN CALIBRATION TRACEABLE TO NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY OR NATIONALLY RECOGNIZED STANDARDS		DATE RECEIVED 940322	DATE RECEIVED 940322
EXPIRATION DATE 002-31-04-003 1/31/95		SHIPPING DAY WE	DATE RECEIVED 940322
REMARKS		TRAINING HOURS 1.5	
PROCEDURE NUMBER WHC-IHP-PRESGA REV.2 T2-600		REPAIR HOURS	
OTHER HOURS		MATERIALS	
TOTAL CHARGE = (\$120 x SUM OF HOURS) + MATERIAL		DATE CALIBRATED 3/3/94	
DATE DUE 3/3/95		DATE DUE 3/3/95	
AMBIENT TEMPERATURE 21.98			
TEST POINT	STANDARD READINGS		TOLERANCE
PSI	AS FOUND PSI	FINAL PSI	PSI
100	88 97	Same	+/- 18
200	189 197 3/4		12
300	292 297 1/2		12
400	398 397 1/2		12
500	502 498 1/2		18
600	606 598	1	18
APPROVED BY D. Nelson 3-31-94			
CALIBRATED BY A. 21			
Hanford Operations and Engineering Contractor for the United States Department of Energy			
Westinghouse Hanford Company Subsidiary of Westinghouse Electric Corporation Box 1670, Richland, WA 99352			
PAGE 1 OF 1			

10. APPENDIX D - TEST TEMPERATURE PLOTS

The following pages of graphs show bit temperature as a function of time. This data is taken from the recorded drilling data as found in Appendix E.

Saltcake - Bit Temperature & Depth
1 SCFM Flammable Gas & with Purge Gas

Run 1 - Type 2a

Steel Plate - Bit Temperature & Depth
1 SCFM Flammable Gas and No Purge Gas

Run 2 - Type 6a

Steel Plate – Bit Temperature & Depth
1 SCFM Flammable Gas & no Purge Gas

Run 3 - Type 6b

Saltcake - Bit Temperature & Depth
1 SCFM Flammable Gas & with Purge Gas

— Bit Temp — Bit Depth

Run 4 - Type 2b

Steel Plate – Bit Temperature & Depth
1 cc/min Flammable Gas & no Purge Gas

Run 5 - Type 5a

Steel Plate - Bit Temperature & Depth
1 cc/min Flammable Gas & no Purge Gas

Run 6 - Type 5b

Salt Cake - Bit Temperature & Depth
1 SCFM Flammable Gas & no Purge Gas

Run 7 - Type 4b

Salt Cake - Bit Temperature & Depth
1 SCFM Flammable Gas & no Purge Gas

Run 8 - Type 4c

Salt Cake - Bit Temperature & Depth
1 cc/min Flammable Gas & no Purge Gas

Run 9 - Type 3a

Saltcake - Bit Temperature & Depth
1 cc/min Flammable Gas & no Purge Gas

Run 10 - Type 3b

Saltcake - Bit Temperature & Depth
1 SCFM Flammable Gas & no Purge Gas

Run 11 - Type 4d

Saltcake - Bit Temperature & Depth
1 cc/min Flammable Gas & with Purge Gas

Run 12 - Type 1a

Saltcake - Bit Temperature & Depth
1 cc/min Flammable Gas & with Purge Gas

Run 13 - Type 1b

11. APPENDIX E - RECORDED DRILLING DATA

Ignitability Testing Results: Drilling into Saltcake, 1 ft3 Flammable, with purge, 1st run
8/30/94

File Name: Run 01_2a

Time(Sec)	Bit Temp (F)	PrgTemp(F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
0.00	125.06	72.68	0.00	19.60	1260.04	65.30
1.00	124.34	73.04	0.00	19.60	1218.91	65.30
2.00	124.52	71.78	0.00	19.60	1198.45	65.30
3.00	124.52	72.32	0.00	19.60	1184.22	65.20
4.00	123.80	72.68	0.00	19.60	1161.41	65.10
5.00	123.98	72.68	0.00	19.60	1090.07	65.00
6.00	123.98	72.32	0.00	19.60	1160.44	65.00
7.00	122.00	72.32	0.20	22.20	1225.54	65.10
8.00	120.38	71.78	0.50	27.00	1246.98	65.00
9.00	117.14	72.14	0.80	27.50	1177.20	64.90
10.00	113.36	72.14	1.10	25.40	1231.78	64.80
11.00	110.84	72.50	1.30	27.50	1210.14	64.70
12.00	108.86	72.68	1.50	31.30	1210.92	64.60
13.00	110.48	72.68	1.70	31.80	1246.20	64.50
14.00	113.18	72.32	1.90	31.80	1200.98	64.50
15.00	114.80	72.50	2.00	32.30	1234.51	64.40
16.00	115.34	73.22	2.20	32.90	1268.62	64.30
17.00	116.42	72.68	2.40	31.80	1192.80	64.30
18.00	117.32	72.50	2.50	32.90	1227.69	64.20
19.00	118.40	72.32	2.70	35.00	1257.12	64.20
20.00	118.58	72.50	2.80	36.00	1244.25	64.10
21.00	119.66	72.14	2.90	36.00	1254.58	64.10
22.00	120.56	72.50	3.10	39.20	1251.47	64.10
23.00	122.18	72.32	3.20	42.90	1272.52	64.10
24.00	123.08	72.32	3.30	48.30	1271.15	64.10
25.00	124.16	72.14	3.40	48.80	1299.81	64.10
26.00	126.32	71.78	3.50	47.70	1254.58	64.20
27.00	127.40	72.32	3.50	47.20	1311.31	64.20
28.00	128.48	71.96	3.60	46.70	1211.12	64.20
29.00	130.82	72.14	3.70	47.20	1237.24	64.10
30.00	130.82	71.78	3.80	49.30	1200.98	64.00
31.00	132.98	71.78	3.90	42.90	1231.78	63.90
32.00	135.86	71.96	4.00	41.90	1189.87	64.00
33.00	137.12	71.78	4.10	43.50	1233.92	64.10
34.00	138.92	71.78	4.20	46.10	1239.97	64.10
35.00	141.62	71.78	4.20	48.80	1298.05	64.10
36.00	143.60	72.32	4.30	50.40	1321.83	64.00
37.00	145.40	71.96	4.30	51.40	1316.76	64.00
38.00	147.74	71.78	4.30	51.40	1313.84	64.10
39.00	149.18	72.32	4.40	51.40	1279.53	64.20
40.00	149.54	71.60	4.40	52.50	1277.97	64.30
41.00	149.90	71.78	4.40	53.60	1315.40	64.20
42.00	150.62	71.78	4.50	53.60	1311.89	64.20
43.00	150.80	71.24	4.50	53.60	1314.03	64.20
44.00	151.70	71.42	4.50	55.70	1292.20	64.20
45.00	151.52	71.24	4.50	58.90	1243.47	64.20
46.00	151.70	71.78	4.60	61.00	1242.69	64.20
47.00	151.70	71.60	4.60	62.10	1212.29	64.20
48.00	151.70	71.78	4.60	62.60	1210.14	64.20
49.00	151.70	71.78	4.60	62.60	1179.15	64.20
50.00	151.88	71.06	4.70	61.50	1197.08	64.30
51.00	151.70	71.42	4.70	54.10	1229.44	64.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	151.52	71.60	4.70	46.10	1258.68	64.20
53.00	151.88	71.24	4.80	41.40	1185.00	64.30
54.00	151.88	71.42	4.80	36.00	1206.05	64.30
55.00	152.42	71.24	4.80	33.40	1148.55	64.30
56.00	152.42	71.42	4.90	32.90	1215.21	64.40
57.00	152.78	71.24	4.90	32.30	1254.97	64.40
58.00	152.60	71.06	4.90	32.30	1271.15	64.40
59.00	152.96	71.42	4.90	31.80	1244.45	64.40
60.00	153.50	70.88	5.00	31.80	1265.89	64.30
61.00	153.86	71.06	5.00	31.80	1247.76	64.30
62.00	152.96	70.70	5.10	32.30	1222.42	64.20
63.00	153.50	70.70	5.10	32.30	1248.74	64.20
64.00	153.68	70.16	5.10	32.30	1288.70	64.20
65.00	154.40	70.88	5.10	31.80	1283.82	64.20
66.00	156.02	71.06	5.20	31.80	1282.46	64.20
67.00	155.12	70.70	5.20	31.80	1280.12	64.20
68.00	155.48	71.06	5.20	31.80	1260.82	64.20
69.00	155.84	70.70	5.30	32.30	1263.16	64.20
70.00	156.56	71.06	5.30	32.30	1257.70	64.20
71.00	156.38	71.06	5.30	31.80	1308.97	64.20
72.00	157.28	70.52	5.40	31.80	1353.41	64.20
73.00	158.00	70.52	5.40	31.80	1271.93	64.20
74.00	158.72	70.52	5.40	31.80	1217.74	64.20
75.00	159.62	70.70	5.50	30.70	1201.37	64.10
76.00	159.98	70.88	5.50	30.20	1229.05	64.10
77.00	159.98	70.70	5.50	30.70	1199.81	64.10
78.00	159.26	70.52	5.60	30.20	1170.96	64.00
79.00	158.00	70.34	5.60	30.20	1194.94	64.00
80.00	156.38	69.98	5.70	30.20	1195.33	63.90
81.00	156.38	70.16	5.70	29.10	1177.20	63.90
82.00	155.12	69.98	5.80	29.70	1166.48	63.80
83.00	155.12	69.80	5.90	29.70	1173.69	63.70
84.00	155.30	69.80	5.90	30.20	1193.38	63.70
85.00	156.20	70.34	6.00	30.20	1115.80	63.70
86.00	157.64	69.98	6.10	30.20	1228.47	63.70
87.00	158.90	70.16	6.20	30.20	1151.47	63.70
88.00	160.34	70.34	6.30	29.10	1212.29	63.80
89.00	160.70	70.16	6.40	28.10	1211.31	63.80
90.00	157.46	70.16	6.50	27.00	1270.96	63.80
91.00	156.92	70.16	6.60	26.50	1175.25	63.80
92.00	157.10	69.98	6.70	26.50	1196.89	63.70
93.00	156.92	71.78	6.80	25.90	1171.94	63.70
94.00	156.20	70.16	6.90	27.00	1235.48	63.50
95.00	159.26	69.98	7.00	26.50	1153.03	63.50
96.00	158.90	69.80	7.10	27.00	1191.82	63.60
97.00	158.90	69.80	7.30	25.40	1148.35	63.60
98.00	158.36	69.62	7.40	24.90	1177.40	63.70
99.00	157.64	69.26	7.50	24.90	1119.12	63.70
100.00	158.00	69.26	7.70	24.90	1146.21	63.80
101.00	155.84	69.44	7.90	24.90	1218.91	63.80
102.00	155.84	69.44	8.00	24.90	1189.87	63.80
103.00	156.20	69.44	8.20	25.40	1222.81	63.80
104.00	155.30	69.26	8.40	24.90	1169.21	63.80
105.00	154.58	69.26	8.50	24.90	1161.22	63.90
106.00	151.88	69.08	8.70	24.40	1155.57	63.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	149.36	68.90	8.80	25.40	1166.09	63.80
108.00	149.72	68.90	9.00	25.40	1266.67	63.80
109.00	144.14	68.90	9.10	25.40	1205.07	63.80
110.00	146.48	69.26	9.30	25.90	1168.63	63.80
111.00	145.76	69.08	9.40	25.40	1194.55	63.70
112.00	144.86	68.72	9.60	24.90	1222.23	63.80
113.00	145.04	68.90	9.70	25.40	1243.08	63.90
114.00	143.24	69.26	9.90	25.90	1254.97	63.90
115.00	140.36	68.36	10.10	26.50	1268.62	63.90
116.00	141.26	68.72	10.20	28.10	1199.62	63.90
117.00	139.64	68.36	10.40	25.90	1215.41	63.80
118.00	140.00	68.72	10.50	28.60	1196.69	63.70
119.00	139.28	69.08	10.70	38.20	1170.77	63.70
120.00	137.30	68.90	10.80	51.40	1181.49	63.70
121.00	136.22	68.72	11.00	46.70	1169.79	63.80
122.00	134.24	69.08	11.20	48.80	1172.52	63.90
123.00	132.44	69.26	11.40	57.30	1150.11	63.90
124.00	131.72	68.72	11.60	38.70	1140.17	63.90
125.00	127.58	66.56	11.80	36.00	1149.33	64.00
126.00	126.86	68.36	12.00	37.60	1183.24	64.10
127.00	127.22	68.72	12.20	34.50	1148.35	64.20
128.00	127.04	68.90	12.40	34.50	1144.07	64.20
129.00	125.06	69.08	12.60	42.40	1166.29	64.10
130.00	126.14	67.46	12.80	46.10	1150.69	64.10
131.00	125.24	69.26	13.00	53.60	1111.32	64.20
132.00	125.42	69.26	13.30	60.50	1125.55	64.30
133.00	124.52	68.72	13.50	63.70	1135.68	64.20
134.00	125.96	68.36	13.70	62.60	1210.14	64.10
135.00	126.86	67.46	13.80	62.60	1137.63	64.00
136.00	127.76	68.18	14.00	62.60	1183.63	64.10
137.00	128.66	68.36	14.20	38.20	1194.55	64.10
138.00	127.04	67.82	14.30	32.30	1233.73	64.10
139.00	128.66	67.64	14.50	32.30	1180.71	64.00
140.00	130.82	67.46	14.70	30.20	1231.97	64.00
141.00	131.18	67.64	14.80	27.00	1199.03	64.00
142.00	131.36	67.64	15.00	28.10	1174.28	64.00
143.00	131.18	67.82	15.20	29.10	1126.52	64.10
144.00	131.90	67.82	15.30	34.50	1165.90	64.10
145.00	131.36	67.64	15.50	33.90	1169.99	64.10
146.00	131.00	67.82	15.70	32.30	1121.65	64.20
147.00	130.28	67.82	16.00	33.90	1158.29	64.20
148.00	129.92	68.18	16.20	34.50	1118.14	64.30
149.00	129.02	67.82	16.40	32.30	1126.52	64.30
150.00	128.30	68.18	16.60	33.40	1187.53	64.30
151.00	127.94	67.82	16.80	33.40	1263.94	64.30
152.00	130.64	67.28	17.10	33.90	1138.61	64.30
153.00	127.22	67.64	17.30	36.00	1131.40	64.40
154.00	127.76	68.00	17.50	38.70	1187.34	64.30
155.00	128.48	68.00	17.60	37.10	1262.38	64.20
156.00	129.38	67.46	17.70	34.50	1266.47	64.10
157.00	137.12	67.64	17.90	39.20	1220.67	64.10
158.00	132.62	67.64	18.00	42.40	1206.63	64.10
159.00	133.34	67.46	18.10	38.70	1208.19	64.00
160.00	134.42	67.28	18.20	36.00	1272.91	63.90
161.00	136.94	67.28	18.30	37.10	1210.14	63.80

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	135.86	67.10	18.40	32.90	1175.64	63.90
163.00	136.58	66.92	18.50	33.90	1213.46	63.90
164.00	137.12	66.92	18.50	29.70	1255.95	63.90
165.00	138.38	66.74	18.60	31.80	1220.67	63.80
166.00	141.26	67.64	18.70	33.40	1265.89	63.80
167.00	142.34	67.82	18.80	36.60	1234.51	63.90
168.00	143.06	65.84	18.80	41.40	1198.25	64.00
169.00	143.24	67.28	18.90	40.30	1218.13	64.10
170.00	140.36	67.10	18.90	38.70	1230.61	64.50
171.00	136.22	66.56	18.90	37.60	1210.34	64.80
172.00	133.70	66.56	18.90	36.60	1217.55	65.00
173.00	131.18	65.84	18.90	34.50	1159.46	65.10
174.00	128.12	66.56	18.90	28.60	1199.03	65.10
175.00	124.52	66.20	18.90	25.40	1190.07	65.10
176.00	122.90	66.38	18.90	24.90	1186.95	65.10

Ignitability Testing Results: Drilling into Steel Plate, 1 ft3 Flammable, no purge, 1st run

8/30/94

File Name: Run 02_6a

Time(Sec)	Bit Temp (F)	PrgeTmp(F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	125.06	77.18	15.50	0.40	1336.65	67.80
1.00	124.70	77.36	15.60	0.40	1263.94	67.80
2.00	124.70	77.36	15.90	0.40	1184.41	67.60
3.00	124.52	77.36	16.20	0.40	1159.85	67.20
4.00	124.52	77.18	16.60	0.40	1211.51	66.70
5.00	123.80	77.18	16.90	0.40	1211.90	66.20
6.00	124.70	77.54	17.00	0.40	1294.74	65.70
7.00	130.82	77.54	17.10	0.40	1276.03	65.40
8.00	137.66	77.54	17.20	0.40	1315.79	65.30
9.00	142.70	77.36	17.30	0.40	1309.16	65.20
10.00	148.46	77.54	17.40	0.40	1298.05	65.20
11.00	153.50	77.54	17.40	0.40	1288.31	65.20
12.00	158.72	77.54	17.50	0.40	1304.87	65.20
13.00	163.94	77.18	17.50	0.40	1326.70	65.30
14.00	168.62	77.36	17.50	0.40	1329.04	65.30
15.00	173.84	77.72	17.50	0.40	1316.18	65.20
16.00	178.34	77.18	17.50	0.40	1281.68	65.20
17.00	183.38	77.54	17.50	0.40	1293.57	65.30
18.00	187.70	77.54	17.50	0.40	1290.64	65.40
19.00	192.20	77.36	17.50	0.40	1307.60	65.50
20.00	198.68	77.36	17.60	0.40	1272.52	65.50
21.00	202.10	77.36	17.60	0.40	1294.74	65.60
22.00	205.88	77.18	17.60	-0.10	1267.84	65.60
23.00	210.92	76.82	17.60	0.40	1289.08	65.60
24.00	214.88	77.72	17.60	0.40	1270.96	65.60
25.00	219.38	77.54	17.60	0.40	1287.92	65.60
26.00	224.96	77.36	17.60	0.40	1275.25	65.60
27.00	229.28	77.54	17.60	0.40	1287.72	65.50
28.00	233.78	77.54	17.60	0.40	1283.04	65.40
29.00	238.82	77.90	17.60	0.40	1293.96	65.30
30.00	242.60	77.72	17.60	0.40	1285.97	65.30
31.00	246.02	77.36	17.60	0.40	1278.36	65.20
32.00	249.62	77.36	17.60	0.40	1291.42	65.30
33.00	252.68	77.54	17.60	0.40	1287.92	65.40
34.00	255.56	77.36	17.60	0.40	1312.28	65.40
35.00	258.62	77.54	17.60	0.40	1283.43	65.40
36.00	261.32	77.36	17.60	0.40	1310.72	65.40
37.00	264.38	77.36	17.60	0.40	1278.17	65.40
38.00	267.08	77.54	17.60	0.40	1313.64	65.50
39.00	270.32	77.54	17.60	0.40	1296.88	65.50
40.00	273.56	76.46	17.60	0.40	1293.57	65.50
41.00	276.26	78.26	17.60	0.40	1281.29	65.50
42.00	278.96	77.72	17.60	0.40	1284.60	65.50
43.00	282.20	77.36	17.60	0.40	1283.04	65.60
44.00	284.72	77.18	17.60	0.40	1294.93	65.70
45.00	287.78	77.54	17.60	0.40	1296.88	65.70
46.00	290.66	77.72	17.60	0.40	1288.31	65.80
47.00	294.44	77.36	17.60	0.40	1284.02	65.80
48.00	296.42	77.54	17.60	0.40	1275.05	65.90
49.00	300.20	77.36	17.60	0.40	1292.01	65.90
50.00	303.44	77.54	17.60	0.40	1271.74	65.80
51.00	306.50	77.54	17.60	0.40	1307.60	65.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	308.30	77.36	17.60	0.40	1283.04	65.90
53.00	310.46	77.36	17.60	0.40	1293.57	65.90
54.00	312.26	77.54	17.60	0.40	1283.04	65.90
55.00	314.06	77.54	17.60	0.40	1314.42	65.90
56.00	315.86	77.36	17.60	0.40	1314.23	66.00
57.00	318.02	77.36	17.60	0.40	1307.02	66.00
58.00	320.00	77.54	17.60	0.40	1292.20	66.10
59.00	321.26	77.36	17.60	0.40	1286.75	66.20
60.00	323.24	78.08	17.60	0.40	1284.60	66.30
61.00	324.14	77.36	17.60	0.40	1288.50	66.30
62.00	334.76	77.72	17.60	0.40	1303.70	66.20
63.00	331.70	77.72	17.60	0.40	1281.09	66.20
64.00	334.04	77.72	17.70	0.40	1310.92	66.30
65.00	336.02	77.36	17.70	0.40	1275.05	66.30
66.00	338.00	77.54	17.70	0.40	1290.64	66.30
67.00	339.80	77.72	17.70	0.40	1269.79	66.30
68.00	342.86	77.72	17.70	0.40	1302.92	66.30
69.00	344.30	77.54	17.60	0.40	1286.94	66.20
70.00	345.56	77.36	17.60	0.40	1294.93	66.10
71.00	348.44	77.72	17.60	0.40	1291.81	66.10
72.00	350.06	78.08	17.60	0.40	1303.12	66.10
73.00	351.32	77.72	17.70	0.40	1300.00	66.00
74.00	352.94	77.72	17.60	0.40	1305.46	66.00
75.00	355.46	77.54	17.60	0.40	1292.59	65.90
76.00	356.36	77.36	17.60	0.40	1292.01	66.10
77.00	357.44	78.08	17.70	0.40	1288.50	66.10
78.00	357.62	79.16	17.70	0.40	1278.56	66.20
79.00	358.70	77.36	17.70	0.40	1283.63	66.20
80.00	358.52	77.72	17.70	0.40	1276.81	66.20
81.00	359.96	77.54	17.70	0.40	1300.78	66.30
82.00	359.96	76.46	17.70	0.40	1277.19	66.30
83.00	360.68	81.86	17.70	-0.10	1295.52	66.20
84.00	360.86	77.72	17.70	0.40	1266.08	66.30
85.00	361.40	77.54	17.70	0.40	1292.79	66.20
86.00	362.30	77.36	17.70	0.40	1265.89	66.20
87.00	361.40	77.72	17.70	0.40	1300.59	66.20
88.00	363.20	77.36	17.70	0.40	1284.80	66.20
89.00	363.56	77.36	17.70	0.40	1301.56	66.30
90.00	364.10	77.36	17.70	0.40	1284.02	66.30
91.00	365.18	77.36	17.70	0.40	1305.07	66.30
92.00	365.72	77.36	17.70	0.40	1295.13	66.30
93.00	367.70	77.54	17.70	0.40	1325.34	66.30
94.00	366.44	77.18	17.70	0.40	1295.13	66.30
95.00	368.60	77.36	17.70	0.40	1302.73	66.30
96.00	369.32	77.72	17.70	0.40	1289.28	66.20
97.00	370.22	77.18	17.70	0.40	1300.20	66.20
98.00	371.48	77.36	17.70	0.40	1312.86	66.30
99.00	374.90	77.36	17.70	0.40	1296.88	66.20
100.00	372.92	77.72	17.70	0.40	1295.32	66.20
101.00	372.20	77.72	17.70	0.40	1280.90	66.20
102.00	376.34	77.72	17.70	0.40	1291.81	66.10
103.00	374.18	77.36	17.70	0.40	1290.06	66.10
104.00	386.78	77.36	17.70	0.40	1308.58	66.20
105.00	377.96	77.72	17.70	0.40	1279.73	66.10
106.00	378.50	77.18	17.70	0.40	1299.42	66.20

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	380.12	77.18	17.70	0.40	1281.09	66.20
108.00	380.66	77.54	17.70	0.40	1306.63	66.30
109.00	381.74	77.54	17.70	0.40	1284.99	66.30
110.00	383.18	77.36	17.70	0.40	1294.93	66.40
111.00	384.98	77.36	17.70	0.40	1275.64	66.30
112.00	384.44	77.18	17.70	0.40	1278.75	66.30
113.00	385.70	77.36	17.70	0.40	1281.48	66.30
114.00	386.60	78.08	17.70	0.40	1287.53	66.30
115.00	387.32	77.18	17.70	0.40	1278.17	66.30
116.00	388.58	77.36	17.70	0.40	1275.44	66.30
117.00	390.38	77.36	17.70	0.40	1321.83	66.30
118.00	389.48	77.18	17.70	0.40	1317.35	66.30
119.00	391.46	78.08	17.70	0.40	1314.03	66.20
120.00	392.90	75.92	17.70	0.40	1278.56	66.20
121.00	392.72	77.54	17.70	0.40	1295.32	66.10
122.00	393.08	77.54	17.70	0.40	1269.79	66.10
123.00	394.88	77.72	17.70	0.40	1332.75	66.10
124.00	396.68	76.82	17.70	0.40	1302.53	66.00
125.00	396.32	79.34	17.70	0.40	1306.24	66.10
126.00	396.86	77.36	17.70	0.40	1284.41	66.10
127.00	397.58	77.72	17.70	0.40	1298.25	66.10
128.00	398.48	77.36	17.70	0.40	1289.08	66.10
129.00	398.30	77.36	17.70	0.40	1317.15	66.20
130.00	399.20	77.36	17.70	0.40	1288.70	66.20
131.00	399.92	77.36	17.70	0.40	1293.18	66.10
132.00	400.28	77.36	17.70	0.40	1261.99	66.10
133.00	400.64	77.36	17.70	0.40	1285.77	66.10
134.00	400.46	77.54	17.70	0.40	1280.51	66.10
135.00	401.90	77.36	17.70	0.40	1298.44	66.10
136.00	399.74	77.54	17.70	0.40	1271.35	66.10
137.00	402.26	77.18	17.70	0.40	1281.09	66.10
138.00	401.36	77.36	17.70	0.40	1290.45	66.00
139.00	401.72	77.18	17.70	0.40	1292.20	65.90
140.00	401.54	77.36	17.70	0.40	1302.73	65.90
141.00	402.80	77.54	17.70	0.40	1306.63	65.90
142.00	403.88	77.36	17.70	0.40	1308.97	65.90
143.00	403.16	77.54	17.70	0.40	1288.50	65.90
144.00	403.34	77.36	17.70	0.40	1294.54	65.90
145.00	401.72	78.26	17.70	0.40	1268.62	65.90
146.00	407.66	77.36	17.70	0.40	1295.32	65.90
147.00	404.96	77.36	17.70	0.40	1273.30	65.90
148.00	405.50	77.54	17.70	0.40	1282.26	65.90
149.00	405.68	77.72	17.70	0.40	1265.11	66.00
150.00	406.04	77.36	17.70	0.40	1283.04	66.10
151.00	407.12	77.36	17.70	0.40	1278.36	66.10
152.00	407.12	77.36	17.70	0.40	1269.79	66.20
153.00	407.66	77.18	17.70	0.40	1269.40	66.20
154.00	408.56	77.72	17.70	0.40	1291.23	66.20
155.00	408.38	77.36	17.70	0.40	1272.91	66.20
156.00	408.38	77.72	17.70	0.40	1277.58	66.30
157.00	409.10	77.00	17.70	0.40	1287.33	66.20
158.00	408.74	77.36	17.70	0.40	1281.29	66.20
159.00	409.28	77.36	17.70	0.40	1289.28	66.20
160.00	409.46	77.36	17.70	0.40	1265.30	66.20
161.00	409.82	77.90	17.70	0.40	1290.25	66.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	409.46	76.28	17.70	0.40	1294.54	66.20
163.00	410.00	77.36	17.70	0.40	1313.84	66.20
164.00	409.64	77.72	17.70	0.40	1287.92	66.20
165.00	409.64	77.36	17.70	0.40	1316.96	66.20
166.00	409.64	77.18	17.70	0.40	1294.74	66.20
167.00	409.64	77.90	17.70	0.40	1293.57	66.20
168.00	410.36	77.18	17.70	0.40	1271.35	66.20
169.00	409.64	77.72	17.70	0.40	1277.78	66.20
170.00	409.46	77.36	17.70	0.40	1272.52	66.20
171.00	409.64	77.18	17.70	0.40	1289.86	66.30
172.00	409.46	77.36	17.70	0.40	1284.99	66.30
173.00	409.64	77.36	17.70	0.40	1294.35	66.30
174.00	409.82	77.36	17.70	0.40	1293.96	66.30
175.00	410.36	77.36	17.70	0.40	1287.92	66.40
176.00	409.64	77.54	17.70	0.40	1290.84	66.30
177.00	410.36	77.36	17.70	0.40	1281.09	66.30
178.00	408.92	77.36	17.70	0.40	1305.46	66.40
179.00	411.26	77.36	17.70	0.40	1282.26	66.40
180.00	411.62	77.54	17.70	0.40	1296.88	66.40
181.00	410.72	77.18	17.70	0.40	1263.16	66.50
182.00	411.80	77.54	17.70	0.40	1276.81	66.40
183.00	408.56	77.18	17.70	0.40	1249.71	66.30
184.00	411.62	77.18	17.70	0.40	1276.42	66.40
185.00	411.26	77.36	17.70	0.40	1271.93	66.50
186.00	411.98	77.36	17.70	0.40	1304.68	66.60
187.00	412.34	77.36	17.70	0.40	1290.84	66.60
188.00	413.60	77.36	17.70	0.40	1307.41	66.50
189.00	412.16	77.54	17.70	0.40	1289.67	66.50
190.00	412.88	77.54	17.70	0.40	1284.02	66.50
191.00	413.42	77.36	17.70	0.40	1268.62	66.50
192.00	412.88	77.36	17.70	0.40	1263.94	66.60
193.00	414.32	77.18	17.70	0.40	1265.89	66.70
194.00	413.78	77.36	17.70	0.40	1283.43	66.70
195.00	413.96	77.36	17.70	0.40	1278.95	66.80
196.00	413.96	77.18	17.70	0.40	1283.82	66.80
197.00	414.32	77.36	17.70	0.40	1283.82	66.80
198.00	414.68	77.72	17.70	0.40	1259.46	66.90
199.00	415.22	76.28	17.70	0.40	1264.53	66.90
200.00	415.04	77.36	17.70	0.40	1264.14	66.80
201.00	415.76	77.18	17.70	0.40	1297.66	66.80
202.00	415.58	76.64	17.70	0.40	1300.00	66.80
203.00	416.48	77.54	17.70	0.40	1318.91	66.80
204.00	416.30	74.84	17.70	0.40	1280.90	66.80
205.00	415.76	76.82	17.70	0.40	1308.58	66.80
206.00	417.38	77.36	17.70	0.40	1290.06	66.70
207.00	417.92	77.54	17.70	0.40	1321.83	66.60
208.00	417.74	77.18	17.70	0.40	1288.70	66.60
209.00	417.02	76.46	17.70	0.40	1287.92	66.70
210.00	418.10	77.36	17.70	0.40	1277.78	66.70
211.00	417.92	77.00	17.70	0.40	1267.06	66.60
212.00	418.46	77.72	17.70	0.40	1292.59	66.50
213.00	417.92	77.36	17.70	0.40	1274.66	66.40
214.00	418.82	77.36	17.70	0.40	1282.26	66.40
215.00	418.64	77.54	17.70	0.40	1274.27	66.60
216.00	419.18	77.36	17.70	0.40	1301.95	66.50

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
217.00	419.72	76.82	17.70	0.40	1284.21	66.30
218.00	419.90	77.90	17.70	0.40	1286.36	66.40
219.00	419.90	77.36	17.70	0.40	1289.86	66.40
220.00	417.74	77.72	17.70	0.40	1285.58	66.50
221.00	420.26	77.36	17.70	0.40	1253.80	66.50
222.00	419.36	77.36	17.70	0.40	1263.36	66.50
223.00	420.62	77.18	17.70	0.40	1275.25	66.60
224.00	421.34	77.36	17.70	0.40	1308.97	66.60
225.00	418.64	77.18	17.70	0.40	1336.06	66.70
226.00	421.34	77.18	17.70	0.40	1327.68	66.70
227.00	421.88	77.36	17.70	0.40	1332.36	66.70
228.00	422.24	77.90	17.70	0.40	1311.31	66.70
229.00	421.88	77.36	17.70	0.40	1335.67	66.70
230.00	419.36	77.36	17.70	-0.10	1328.85	66.60
231.00	422.42	77.36	17.70	0.40	1339.76	66.60
232.00	423.32	77.18	17.70	0.40	1315.01	66.50
233.00	422.96	77.18	17.70	0.40	1328.65	66.50
234.00	422.78	77.36	17.70	0.40	1305.07	66.60
235.00	423.68	77.36	17.70	0.40	1326.90	66.60
236.00	424.40	77.54	17.70	0.40	1295.32	66.60
237.00	424.04	77.18	17.70	0.40	1290.84	66.50
238.00	424.76	77.00	17.70	0.40	1301.95	66.50
239.00	424.58	77.36	17.70	0.40	1289.47	66.40
240.00	424.58	77.36	17.70	0.40	1288.89	66.40
241.00	424.94	76.10	17.70	0.40	1284.99	66.40
242.00	425.84	77.36	17.70	0.40	1292.98	66.30
243.00	425.84	77.72	17.70	0.40	1275.83	66.20
244.00	426.38	77.18	17.70	0.40	1279.14	66.30
245.00	426.38	77.36	17.70	0.40	1265.50	66.40
246.00	427.10	75.74	17.70	0.40	1273.30	66.40
247.00	426.56	77.36	17.70	0.40	1255.17	66.50
248.00	428.00	77.18	17.70	0.40	1281.48	66.50
249.00	427.46	77.36	17.70	0.40	1265.89	66.50
250.00	427.46	77.18	17.70	0.40	1274.86	66.40
251.00	427.82	76.10	17.70	0.40	1260.04	66.20
252.00	428.00	77.72	17.70	0.40	1281.68	66.20
253.00	429.08	77.00	17.70	0.40	1274.86	66.30
254.00	428.90	77.36	17.70	0.40	1264.33	66.30
255.00	428.90	77.36	17.70	0.40	1263.94	66.30
256.00	429.08	77.72	17.70	0.40	1236.65	66.30
257.00	429.44	77.36	17.70	0.40	1276.61	66.30
258.00	430.16	77.18	17.70	0.40	1252.05	66.30
259.00	429.62	77.36	17.70	0.40	1281.48	66.20
260.00	430.34	77.36	17.70	0.40	1256.73	66.20
261.00	430.88	77.36	17.70	0.40	1275.25	66.10
262.00	428.90	77.18	17.70	0.40	1245.03	66.00
263.00	430.52	77.18	17.70	0.40	1250.49	66.00
264.00	431.06	77.36	17.70	0.40	1258.87	66.00
265.00	431.96	77.18	17.70	0.40	1291.42	65.90
266.00	431.24	77.00	17.70	0.40	1283.24	65.90
267.00	431.06	77.54	17.70	0.40	1306.04	66.00
268.00	432.50	77.72	17.70	0.40	1293.96	66.00
269.00	433.04	77.18	17.70	0.40	1293.96	66.00
270.00	432.86	77.36	17.70	0.40	1293.76	66.10
271.00	433.58	77.18	17.70	0.40	1285.77	66.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
272.00	431.06	77.36	17.70	0.40	1310.33	66.30
273.00	433.76	77.36	17.70	0.40	1283.04	66.30
274.00	435.02	77.36	17.70	0.40	1290.64	66.40
275.00	434.48	77.00	17.70	0.40	1275.05	66.40
276.00	435.20	77.18	17.70	0.40	1286.94	66.40
277.00	435.20	77.18	17.70	0.40	1279.92	66.30
278.00	435.92	77.18	17.70	0.40	1314.81	66.30
279.00	435.20	77.72	17.70	0.40	1297.08	66.30
280.00	435.74	77.36	17.70	0.40	1328.65	66.30
281.00	435.92	77.36	17.70	0.40	1317.93	66.20
282.00	436.64	77.36	17.70	0.40	1334.89	66.20
283.00	436.64	76.64	17.70	0.40	1312.28	66.20
284.00	437.18	77.00	17.70	0.40	1302.14	66.20
285.00	437.72	77.18	17.70	0.40	1300.59	66.20
286.00	437.54	77.18	17.70	0.40	1293.37	66.30
287.00	437.72	77.18	17.70	0.40	1302.73	66.30
288.00	438.26	76.28	17.70	0.40	1288.89	66.30
289.00	437.90	77.36	17.70	0.40	1318.13	66.30
290.00	438.08	76.82	17.70	0.40	1289.67	66.30
291.00	438.26	76.82	17.70	0.40	1312.48	66.30
292.00	439.34	77.54	17.70	-0.10	1288.89	66.30
293.00	438.62	75.74	17.70	0.40	1310.53	66.40
294.00	439.34	77.36	17.70	-0.10	1284.41	66.50
295.00	439.52	77.36	17.70	-0.10	1308.19	66.50
296.00	439.52	77.54	17.70	0.40	1278.56	66.50
297.00	439.52	77.18	17.70	0.40	1306.63	66.50
298.00	439.88	77.36	17.70	0.40	1282.07	66.50
299.00	439.88	77.72	17.70	0.40	1297.66	66.50
300.00	440.24	77.18	17.70	0.40	1280.31	66.50
301.00	440.06	77.72	17.70	0.40	1299.22	66.50
302.00	440.60	77.36	17.70	0.40	1283.04	66.60
303.00	441.50	77.00	17.70	0.40	1290.64	66.60
304.00	439.16	77.18	17.70	0.40	1266.28	66.60
305.00	440.24	77.36	17.70	0.40	1272.32	66.70
306.00	441.50	77.18	17.70	0.40	1269.40	66.70
307.00	441.32	77.00	17.70	-0.10	1265.30	66.70
308.00	441.32	77.18	17.70	0.40	1267.64	66.70
309.00	438.26	77.00	17.70	0.40	1254.58	66.70
310.00	441.32	77.36	17.70	-0.10	1266.08	66.70
311.00	441.14	77.18	17.70	0.40	1246.40	66.70
312.00	441.50	77.36	17.70	0.40	1262.19	66.70
313.00	441.86	77.18	17.70	0.40	1248.35	66.80
314.00	438.80	77.00	17.70	0.40	1274.86	66.80
315.00	441.68	76.82	17.70	0.40	1249.91	66.70
316.00	442.76	77.00	17.70	0.40	1261.02	66.70
317.00	442.40	76.82	17.70	0.40	1254.39	66.80
318.00	442.04	77.00	17.70	0.40	1258.29	66.80
319.00	442.40	76.64	17.70	0.40	1246.79	66.90
320.00	443.12	77.00	17.70	0.40	1249.71	66.90
321.00	442.76	77.18	17.70	0.40	1232.17	66.90
322.00	443.66	77.18	17.70	0.40	1248.93	66.90
323.00	443.30	77.54	17.70	0.40	1255.17	67.00
324.00	443.12	77.18	17.70	0.40	1250.49	67.10
325.00	443.84	76.28	17.70	0.40	1268.42	67.10
326.00	443.66	77.36	17.70	0.40	1254.39	67.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	445.28	77.54	17.70	0.40	1257.70	67.10
328.00	444.92	77.18	17.70	0.40	1248.15	67.10
329.00	445.28	77.36	17.70	0.40	1266.08	67.10
330.00	444.92	75.56	17.70	0.40	1251.08	67.10
331.00	444.92	77.18	17.70	0.40	1265.30	67.10
332.00	446.72	77.90	17.70	0.40	1226.13	67.10
333.00	445.10	77.18	17.70	0.40	1245.42	67.10
334.00	446.00	77.72	17.70	0.40	1223.01	67.10
335.00	446.54	76.28	17.70	0.40	1273.88	67.00
336.00	446.36	77.36	17.70	-0.10	1264.53	67.00
337.00	446.72	77.00	17.70	0.40	1309.16	66.90
338.00	447.26	77.18	17.70	0.40	1289.28	66.90
339.00	447.62	77.36	17.70	0.40	1306.82	66.80
340.00	447.80	77.36	17.70	0.40	1303.90	66.80
341.00	447.98	77.36	17.70	0.40	1316.96	66.80
342.00	448.16	77.72	17.70	0.40	1318.32	66.80
343.00	448.16	77.18	17.70	0.40	1292.40	66.80
344.00	449.06	77.36	17.70	0.40	1290.64	66.80
345.00	448.52	77.18	17.70	0.40	1264.72	66.80
346.00	448.34	77.18	17.70	0.40	1273.30	66.80
347.00	449.42	77.36	17.70	0.40	1237.82	66.80
348.00	449.96	77.36	17.70	0.40	1257.51	66.80
349.00	450.14	77.36	17.70	0.40	1231.00	66.70
350.00	450.68	77.36	17.70	0.40	1254.00	66.70
351.00	448.34	77.36	17.70	0.40	1222.42	66.60
352.00	450.50	77.36	17.70	0.40	1263.75	66.60
353.00	450.68	77.36	17.70	0.40	1246.01	66.60
354.00	451.04	77.36	17.70	0.40	1254.97	66.60
355.00	451.22	77.36	17.70	0.40	1239.38	66.70
356.00	448.88	77.18	17.70	0.40	1252.25	66.70
357.00	451.22	77.18	17.70	0.40	1236.26	66.80
358.00	451.22	77.72	17.70	-0.10	1240.94	66.80
359.00	451.58	77.18	17.70	0.40	1240.94	66.80
360.00	452.12	77.36	17.70	0.40	1226.91	66.70
361.00	451.76	77.36	17.70	0.40	1246.20	66.70
362.00	451.76	77.18	17.70	0.40	1277.39	66.70
363.00	452.30	77.18	17.70	0.40	1309.94	66.60
364.00	452.30	77.18	17.70	0.40	1300.97	66.60
365.00	451.76	77.18	17.70	0.40	1316.18	66.60
366.00	451.76	77.36	17.70	0.40	1289.47	66.60
367.00	451.76	76.28	17.70	0.40	1307.60	66.60
368.00	451.58	77.36	17.70	0.40	1278.75	66.60
369.00	451.76	77.00	17.70	0.40	1299.42	66.60
370.00	451.76	77.36	17.70	0.40	1257.31	66.50
371.00	451.94	77.36	17.70	0.40	1292.59	66.50
372.00	452.30	75.20	17.70	0.40	1271.93	66.40
373.00	452.48	77.36	17.70	-0.10	1296.88	66.50
374.00	452.30	77.36	17.70	0.40	1271.35	66.50
375.00	452.66	77.36	17.70	0.40	1287.92	66.40
376.00	453.38	77.18	17.70	0.40	1278.56	66.40
377.00	453.20	77.18	17.70	0.40	1282.85	66.30
378.00	453.02	77.18	17.70	0.40	1287.14	66.40
379.00	453.92	77.18	17.70	0.40	1286.36	66.40
380.00	453.74	77.36	17.70	0.40	1274.86	66.40
381.00	453.56	77.18	17.70	0.40	1273.88	66.40

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
382.00	454.10	77.18	17.70	0.40	1293.18	66.40
383.00	454.28	77.36	17.70	0.40	1265.50	66.40
384.00	454.64	77.36	17.70	0.40	1303.12	66.40
385.00	455.18	77.00	17.70	0.40	1261.60	66.30
386.00	454.82	77.36	17.70	0.40	1286.94	66.40
387.00	455.36	77.36	17.70	0.40	1265.50	66.40
388.00	454.46	77.36	17.70	0.40	1288.11	66.40
389.00	455.90	77.18	17.70	0.40	1275.05	66.40
390.00	455.36	76.82	17.70	0.40	1278.36	66.40
391.00	455.90	76.82	17.70	0.40	1277.97	66.50
392.00	456.80	77.18	17.70	0.40	1274.86	66.60
393.00	455.54	77.18	17.70	0.40	1289.67	66.70
394.00	456.44	77.00	17.70	0.40	1266.47	66.70
395.00	456.98	77.36	17.70	0.40	1297.27	66.70
396.00	456.80	77.36	17.70	0.40	1270.37	66.60
397.00	456.98	77.18	17.70	0.40	1283.04	66.50
398.00	459.68	77.18	17.70	0.40	1269.20	66.50
399.00	457.34	77.18	17.70	0.40	1283.24	66.40
400.00	457.52	77.18	17.70	0.40	1277.97	66.40
401.00	457.88	77.18	17.70	-0.10	1287.72	66.30
402.00	457.52	77.36	17.70	0.40	1266.28	66.30
403.00	457.34	76.82	17.70	0.40	1280.90	66.30
404.00	458.60	76.82	17.70	0.40	1265.69	66.30
405.00	458.78	77.36	17.70	0.40	1272.71	66.40
406.00	458.24	77.36	17.70	0.40	1268.03	66.40
407.00	458.60	77.18	17.70	0.40	1237.63	66.40
408.00	459.14	77.18	17.70	0.40	1254.97	66.40
409.00	458.96	77.18	17.70	0.40	1213.65	66.50
410.00	459.50	77.36	17.70	0.40	1243.08	66.50
411.00	459.14	77.36	17.70	0.40	1225.93	66.60
412.00	458.96	76.82	17.70	0.40	1249.13	66.60
413.00	459.50	77.18	17.70	0.40	1250.10	66.60
414.00	459.50	76.28	17.70	0.40	1286.36	66.60
415.00	459.68	76.82	17.70	0.40	1274.27	66.70
416.00	458.96	77.18	17.70	0.40	1290.84	66.70
417.00	459.32	77.18	17.70	0.40	1286.75	66.80
418.00	458.96	77.36	17.70	0.40	1286.16	66.80
419.00	458.78	77.90	17.70	0.40	1282.26	66.70
420.00	458.78	77.18	17.70	0.40	1275.25	66.80
421.00	459.14	77.18	17.70	0.40	1283.82	66.70
422.00	458.24	77.00	17.70	0.40	1268.42	66.70
423.00	458.96	77.00	17.70	0.40	1289.08	66.80
424.00	459.14	77.36	17.70	0.40	1266.67	66.80
425.00	458.96	76.64	17.70	0.40	1295.52	66.80
426.00	460.22	77.00	17.70	0.40	1259.46	66.70
427.00	459.14	77.00	17.70	-0.10	1284.60	66.70
428.00	459.68	77.54	17.70	0.40	1263.75	66.70
429.00	460.40	77.36	17.70	0.40	1268.62	66.60
430.00	459.86	77.18	17.70	0.40	1251.08	66.60
431.00	460.04	77.18	17.70	0.40	1229.63	66.50
432.00	460.40	77.00	17.70	0.40	1232.95	66.60
433.00	460.58	77.18	17.70	0.40	1228.08	66.60
434.00	460.76	77.18	17.70	0.40	1238.21	66.70
435.00	461.12	77.18	17.70	0.40	1234.70	66.80
436.00	461.12	77.36	17.70	0.40	1252.25	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
437.00	460.94	77.36	17.70	0.40	1229.44	66.70
438.00	461.66	77.18	17.70	0.40	1247.18	66.70
439.00	462.02	77.36	17.70	0.40	1220.47	66.80
440.00	464.90	77.00	17.70	0.40	1253.22	66.90
441.00	462.02	76.46	17.70	0.40	1218.91	66.90
442.00	462.38	77.18	17.70	0.40	1237.24	66.80
443.00	462.20	77.18	17.70	0.40	1229.05	66.80
444.00	462.74	77.36	17.70	0.40	1238.21	66.80
445.00	462.56	77.36	17.70	-0.10	1233.73	66.90
446.00	462.20	77.54	17.70	0.40	1238.60	66.90
447.00	462.38	77.18	17.70	0.40	1234.12	66.90
448.00	462.56	77.54	17.70	0.40	1228.27	66.90
449.00	462.56	77.36	17.70	0.40	1235.09	66.90
450.00	462.38	77.36	17.70	0.40	1215.99	66.80
451.00	462.56	77.36	17.70	0.40	1236.07	66.70
452.00	462.56	77.18	17.70	0.40	1211.90	66.70
453.00	462.20	77.00	17.70	0.40	1272.52	66.70
454.00	462.56	77.18	17.70	0.40	1258.87	66.80
455.00	462.02	77.36	17.70	0.40	1293.18	66.70
456.00	462.56	76.10	17.70	-0.10	1281.29	66.70
457.00	462.20	77.18	17.70	0.40	1285.97	66.70
458.00	462.56	77.36	17.70	0.40	1282.07	66.80
459.00	461.66	77.18	17.70	0.40	1288.70	66.90
460.00	462.74	77.36	17.70	0.40	1277.97	66.90
461.00	462.38	77.54	17.70	0.40	1276.42	66.80
462.00	462.38	77.00	17.70	0.40	1288.70	66.80
463.00	462.38	77.18	17.70	0.40	1262.38	66.70
464.00	462.74	77.36	17.70	0.40	1293.18	66.80
465.00	462.56	76.82	17.70	0.40	1274.66	66.80
466.00	462.56	77.18	17.70	0.40	1292.98	66.80
467.00	463.10	77.18	17.70	0.40	1286.36	66.80
468.00	462.56	77.18	17.70	0.40	1297.08	66.70
469.00	463.28	76.82	17.70	0.40	1281.29	66.70
470.00	462.92	77.54	17.70	0.40	1274.66	66.80
471.00	463.10	77.36	17.70	0.40	1266.28	66.80
472.00	461.30	77.18	17.70	0.40	1274.27	66.70
473.00	461.30	77.18	17.70	0.40	1258.29	66.60
474.00	461.12	77.18	17.70	0.40	1269.20	66.50
475.00	460.76	77.54	17.70	0.40	1277.97	66.60
476.00	461.84	77.18	17.70	0.40	1261.80	66.60
477.00	459.68	77.18	17.70	0.40	1273.49	66.60
478.00	460.58	77.18	17.70	0.40	1263.94	66.50
479.00	460.58	77.36	17.70	0.40	1272.32	66.50
480.00	460.58	77.36	17.70	0.40	1258.48	66.60
481.00	460.22	76.82	17.70	0.40	1264.14	66.60
482.00	461.12	77.18	17.70	0.40	1263.36	66.50
483.00	460.04	77.18	17.70	0.40	1272.52	66.50
484.00	460.04	77.00	17.70	0.40	1257.70	66.50
485.00	460.04	77.54	17.70	0.40	1273.49	66.60
486.00	460.22	77.36	17.70	0.40	1275.05	66.80
487.00	460.22	77.00	17.70	0.40	1269.79	66.70
488.00	460.40	77.36	17.70	0.40	1273.10	66.80
489.00	460.04	77.54	17.70	0.40	1248.54	66.80
490.00	460.04	77.00	17.70	0.40	1248.74	66.80
491.00	459.68	77.36	17.70	0.40	1262.38	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
492.00	459.50	75.92	17.70	0.40	1251.27	66.50
493.00	460.04	77.36	17.70	0.40	1266.86	66.50
494.00	460.22	77.00	17.70	0.40	1249.52	66.60

Ignitibility Testing: Drilling into Steel Plate, 1 ft3 Flammable, no purge, 2nd run
8/31/94

File Name: Run03_6b

Time(Sec)	Bit Temp(F)	Prgtmp(C)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	93.20	22.00	0.00	0.40	1388.69	68.50
1.00	93.74	21.70	0.00	0.40	1362.18	68.30
2.00	94.64	21.70	0.00	0.40	1338.20	68.20
3.00	93.56	21.50	0.00	-0.10	1281.29	68.10
4.00	93.56	21.50	0.10	0.40	1326.70	68.00
5.00	100.76	21.80	0.10	-0.10	1357.89	67.50
6.00	112.64	21.70	0.10	0.40	1367.25	67.20
7.00	120.56	21.70	0.20	-0.10	1378.36	67.00
8.00	125.78	21.70	0.20	-0.10	1351.07	66.90
9.00	127.22	21.20	0.20	0.40	1381.67	66.80
10.00	128.84	20.70	0.30	-0.10	1360.04	66.80
11.00	139.10	21.70	0.30	-0.10	1367.83	67.00
12.00	141.80	21.50	0.30	0.40	1376.80	67.10
13.00	146.84	21.60	0.30	0.40	1384.98	67.20
14.00	152.24	21.80	0.40	-0.10	1361.01	67.10
15.00	157.82	21.60	0.40	-0.10	1380.89	67.00
16.00	163.40	21.50	0.40	0.40	1353.99	67.00
17.00	168.44	22.20	0.40	0.40	1379.53	67.00
18.00	174.02	21.00	0.40	0.40	1387.71	67.00
19.00	175.46	21.10	0.40	0.40	1366.86	67.10
20.00	177.44	22.40	0.40	0.40	1382.26	67.20
21.00	179.24	22.10	0.40	0.40	1387.13	67.00
22.00	181.04	21.70	0.40	0.40	1376.99	67.00
23.00	184.82	22.10	0.40	0.40	1373.29	66.90
24.00	186.08	21.70	0.40	0.40	1388.49	66.90
25.00	188.96	21.20	0.40	0.40	1355.36	66.90
26.00	191.30	21.80	0.40	0.40	1371.34	66.80
27.00	194.00	21.70	0.40	0.40	1350.48	66.80
28.00	197.42	21.80	0.40	-0.10	1377.58	66.70
29.00	198.86	22.00	0.50	-0.10	1360.04	66.70
30.00	202.64	21.20	0.50	-0.10	1368.22	66.80
31.00	204.44	21.80	0.50	-0.10	1366.66	66.80
32.00	207.32	21.80	0.50	-0.10	1368.61	66.80
33.00	209.66	21.60	0.50	-0.10	1379.53	66.80
34.00	213.44	20.80	0.50	-0.10	1376.21	66.70
35.00	215.06	21.20	0.50	-0.10	1365.88	66.60
36.00	215.78	22.10	0.50	-0.10	1370.56	66.60
37.00	215.96	20.50	0.50	-0.10	1386.93	66.70
38.00	216.86	21.20	0.50	0.40	1357.89	66.70
39.00	217.40	22.40	0.50	0.40	1384.21	66.60
40.00	219.56	22.00	0.50	0.40	1367.64	66.50
41.00	221.18	22.10	0.50	0.40	1370.95	66.40
42.00	222.80	21.80	0.50	0.40	1357.50	66.60
43.00	222.80	21.50	0.50	0.40	1366.08	66.60
44.00	224.60	21.80	0.50	0.40	1376.02	66.60
45.00	224.06	23.00	0.50	0.40	1373.48	66.70
46.00	225.32	21.80	0.50	0.40	1383.04	66.70
47.00	223.70	21.10	0.50	-0.10	1350.09	66.80
48.00	222.62	21.70	0.50	0.40	1374.65	66.80
49.00	221.90	20.30	0.50	0.40	1365.10	66.80
50.00	221.00	22.00	0.50	0.40	1369.00	66.80
51.00	220.64	22.40	0.50	0.40	1372.90	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	219.92	20.10	0.50	0.40	1401.16	66.90
53.00	220.10	22.30	0.50	0.40	1348.92	66.90
54.00	217.58	22.20	0.50	0.40	1357.89	67.00
55.00	216.86	21.70	0.50	0.40	1343.86	66.80
56.00	215.96	21.40	0.50	0.40	1383.82	66.70
57.00	215.96	21.60	0.50	-0.10	1366.47	66.70
58.00	215.78	21.10	0.50	-0.10	1353.02	66.70
59.00	214.70	22.10	0.50	-0.10	1363.54	66.70
60.00	214.16	21.50	0.50	-0.10	1352.24	66.60
61.00	212.90	22.80	0.50	-0.10	1370.95	66.70
62.00	213.62	21.00	0.50	-0.10	1340.35	66.70
63.00	211.46	21.80	0.50	-0.10	1377.58	66.80
64.00	211.10	22.00	0.50	-0.10	1366.47	66.70
65.00	210.20	22.00	0.50	-0.10	1399.80	66.80
66.00	211.28	20.80	0.50	-0.10	1360.81	66.80
67.00	209.84	22.40	0.50	-0.10	1381.09	66.80
68.00	210.02	22.00	0.50	-0.10	1355.94	66.80
69.00	208.76	21.30	0.50	-0.10	1341.91	66.90
70.00	209.48	21.80	0.50	-0.10	1359.26	66.80
71.00	208.94	20.60	0.50	-0.10	1340.54	66.90
72.00	208.94	22.10	0.50	-0.10	1361.01	66.90
73.00	208.22	22.40	0.50	-0.10	1374.65	67.00
74.00	208.94	21.80	0.50	-0.10	1374.46	66.90
75.00	208.40	21.80	0.50	-0.10	1351.07	66.90
76.00	208.40	22.90	0.50	-0.10	1371.93	67.00
77.00	208.76	22.10	0.50	-0.10	1372.51	67.00
78.00	207.86	22.40	0.50	-0.10	1382.65	67.00
79.00	207.50	22.80	0.50	-0.10	1344.05	67.00
80.00	208.22	21.70	0.50	-0.10	1373.29	67.10
81.00	207.86	22.40	0.50	-0.10	1369.98	67.00
82.00	207.86	22.50	0.50	-0.10	1381.48	67.10
83.00	207.50	21.20	0.50	-0.10	1367.25	67.10
84.00	207.50	21.50	0.50	-0.10	1384.40	67.20
85.00	207.14	21.70	0.50	-0.10	1365.49	67.20
86.00	206.78	21.50	0.50	-0.10	1339.57	67.30
87.00	207.32	22.30	0.50	-0.10	1398.63	67.30
88.00	207.68	22.30	0.50	-0.10	1348.34	67.20
89.00	207.32	21.30	0.50	-0.10	1393.95	67.10
90.00	207.14	22.60	0.50	-0.10	1341.91	67.20
91.00	207.50	22.10	0.50	-0.10	1377.97	67.10
92.00	207.86	22.00	0.50	-0.10	1354.58	67.10
93.00	207.32	21.20	0.50	-0.10	1385.37	67.20
94.00	207.14	22.00	0.50	-0.10	1364.13	67.20
95.00	206.96	21.60	0.50	-0.10	1368.42	67.30
96.00	207.68	20.80	0.50	-0.10	1341.71	67.30
97.00	207.86	21.80	0.50	-0.10	1369.59	67.30
98.00	207.86	22.80	0.50	-0.10	1377.97	67.20
99.00	207.14	22.00	0.50	-0.10	1354.19	67.20
100.00	207.50	22.10	0.50	-0.10	1353.80	67.20
101.00	207.50	22.10	0.50	-0.10	1353.80	67.20
102.00	208.22	21.80	0.50	-0.10	1376.41	67.20
103.00	207.68	21.50	0.50	-0.10	1355.94	67.20
104.00	208.40	21.00	0.50	-0.10	1375.82	67.20
105.00	207.68	21.80	0.50	-0.10	1335.67	67.30
106.00	208.58	23.00	0.50	-0.10	1372.90	67.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	208.22	21.40	0.50	-0.10	1356.72	67.30
108.00	208.76	21.80	0.50	-0.10	1372.51	67.20
109.00	208.58	21.90	0.50	-0.10	1368.81	67.20
110.00	208.76	22.00	0.50	-0.10	1348.92	67.20
111.00	208.94	21.70	0.50	-0.10	1353.02	67.10
112.00	209.48	21.70	0.50	-0.10	1384.60	67.10
113.00	209.30	22.00	0.50	-0.10	1365.49	67.20
114.00	210.20	22.40	0.50	-0.10	1330.60	67.20
115.00	209.84	22.60	0.50	-0.10	1372.51	67.20
116.00	210.38	23.30	0.50	-0.10	1337.03	67.10
117.00	210.20	22.40	0.50	-0.10	1384.98	67.10
118.00	210.56	21.70	0.50	-0.10	1360.81	67.00
119.00	211.28	22.40	0.50	-0.10	1348.54	67.00
120.00	211.28	19.70	0.50	-0.10	1379.92	67.00
121.00	211.28	22.00	0.50	-0.10	1350.87	67.00
122.00	211.10	22.00	0.50	-0.10	1347.37	67.00
123.00	211.10	22.40	0.50	-0.10	1367.83	67.10
124.00	212.18	21.60	0.50	-0.10	1369.98	67.10
125.00	211.64	21.50	0.50	-0.10	1373.09	67.10
126.00	212.54	22.20	0.50	-0.10	1351.65	67.20
127.00	212.36	22.30	0.50	-0.10	1340.15	67.10
128.00	213.62	22.00	0.50	-0.10	1361.59	67.00
129.00	213.98	22.30	0.50	-0.10	1365.88	67.00
130.00	214.70	22.10	0.50	-0.10	1396.29	67.00
131.00	214.16	21.50	0.50	-0.10	1354.58	66.90
132.00	214.70	21.80	0.50	-0.10	1381.48	67.00
133.00	214.88	22.40	0.50	-0.10	1361.59	67.00
134.00	215.24	22.00	0.50	-0.10	1383.43	67.00
135.00	216.32	21.80	0.50	-0.10	1376.21	67.00
136.00	216.32	22.60	0.50	-0.10	1385.37	67.00
137.00	217.22	21.80	0.50	-0.10	1360.43	67.00
138.00	217.40	21.70	0.50	-0.10	1353.60	66.90
139.00	216.86	22.10	0.50	-0.10	1372.90	66.90
140.00	216.86	22.30	0.50	-0.10	1361.59	67.00
141.00	217.58	21.80	0.50	-0.10	1384.40	66.90
142.00	218.66	20.90	0.50	-0.10	1363.74	66.90
143.00	219.20	22.10	0.50	-0.10	1364.52	66.90
144.00	219.20	22.10	0.50	-0.10	1326.51	67.00
145.00	219.20	22.40	0.50	-0.10	1385.18	66.90
146.00	219.74	22.20	0.50	-0.10	1358.67	66.90
147.00	220.46	21.60	0.50	-0.10	1366.86	67.00
148.00	220.64	22.60	0.50	-0.10	1361.79	66.90
149.00	221.00	21.10	0.50	-0.10	1375.04	67.00
150.00	221.54	22.00	0.50	-0.10	1348.34	66.90
151.00	221.72	21.50	0.50	-0.10	1363.54	66.90
152.00	222.08	22.80	0.50	-0.10	1363.35	66.90
153.00	221.90	21.30	0.50	-0.10	1364.52	66.90
154.00	222.80	22.70	0.50	-0.10	1361.01	67.00
155.00	222.80	22.10	0.50	-0.10	1354.38	67.00
156.00	223.34	22.20	0.50	-0.10	1371.93	67.00
157.00	222.98	21.50	0.50	-0.10	1331.38	67.00
158.00	224.06	21.10	0.50	-0.10	1374.65	67.00
159.00	224.06	21.80	0.50	-0.10	1354.77	67.00
160.00	224.78	22.50	0.50	-0.10	1379.72	67.00
161.00	224.06	22.40	0.50	-0.10	1361.59	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	225.14	21.30	0.50	-0.10	1369.59	67.00
163.00	224.78	21.40	0.50	-0.10	1360.04	67.00
164.00	225.32	22.50	0.50	-0.10	1369.98	67.00
165.00	225.86	21.40	0.50	-0.10	1366.86	66.90
166.00	226.40	22.10	0.50	-0.10	1363.74	66.90
167.00	226.22	22.00	0.50	-0.10	1375.04	66.80
168.00	227.12	22.00	0.50	-0.10	1353.02	66.70
169.00	228.20	22.00	0.50	-0.10	1376.02	66.60
170.00	228.74	22.40	0.50	-0.10	1352.82	66.60
171.00	228.92	22.60	0.50	-0.10	1342.69	66.60
172.00	229.10	22.00	0.50	-0.10	1363.35	66.60
173.00	229.28	21.40	0.50	-0.10	1365.10	66.60
174.00	230.00	22.90	0.50	-0.10	1363.74	66.60
175.00	229.28	22.30	0.50	-0.10	1383.82	66.60
176.00	230.90	22.30	0.50	-0.10	1360.04	66.70
177.00	230.36	21.50	0.50	-0.10	1353.60	66.70
178.00	232.88	21.50	0.50	-0.10	1355.36	66.70
179.00	231.08	21.90	0.50	-0.10	1367.05	66.70
180.00	232.16	22.20	0.50	-0.10	1376.21	66.80
181.00	232.70	22.60	0.50	-0.10	1359.84	66.80
182.00	233.24	21.60	0.50	0.40	1383.23	66.80
183.00	233.78	21.50	0.50	0.40	1356.72	66.90
184.00	234.32	21.10	0.50	0.40	1369.59	67.00
185.00	234.32	22.40	0.50	0.40	1342.30	67.00
186.00	234.68	22.30	0.50	-0.10	1381.28	66.90
187.00	235.76	22.40	0.50	-0.10	1340.54	66.80
188.00	235.94	22.00	0.50	-0.10	1380.50	66.70
189.00	236.48	23.10	0.50	-0.10	1348.54	66.60
190.00	237.38	22.40	0.50	-0.10	1372.90	66.70
191.00	237.02	22.40	0.50	-0.10	1377.97	66.70
192.00	237.74	22.70	0.50	-0.10	1366.27	66.70
193.00	236.66	22.10	0.50	-0.10	1351.65	66.80
194.00	237.92	22.10	0.50	-0.10	1341.52	66.80
195.00	238.10	22.00	0.50	-0.10	1363.54	66.80
196.00	239.18	21.90	0.50	-0.10	1366.86	66.80
197.00	238.82	22.30	0.50	-0.10	1356.14	66.80
198.00	239.36	22.20	0.50	-0.10	1350.48	66.80
199.00	240.08	21.80	0.50	-0.10	1377.19	66.80
200.00	240.62	22.40	0.50	-0.10	1354.58	66.70
201.00	240.62	21.30	0.50	-0.10	1394.73	66.60
202.00	241.16	21.90	0.50	-0.10	1349.51	66.60
203.00	240.80	21.60	0.50	-0.10	1370.17	66.60
204.00	241.34	21.30	0.50	-0.10	1366.27	66.60
205.00	241.16	22.10	0.50	-0.10	1372.90	66.70
206.00	242.24	21.30	0.50	-0.10	1360.23	66.70
207.00	242.60	22.40	0.50	-0.10	1358.48	66.70
208.00	242.78	22.00	0.50	-0.10	1365.88	66.70
209.00	242.78	22.10	0.50	-0.10	1366.08	66.70
210.00	243.86	22.40	0.50	-0.10	1368.81	66.80
211.00	243.68	22.20	0.50	-0.10	1366.08	66.80
212.00	244.76	22.00	0.50	0.40	1366.08	66.80
213.00	244.76	22.30	0.50	-0.10	1351.46	66.90
214.00	244.94	21.40	0.50	-0.10	1370.56	67.00
215.00	245.12	22.20	0.50	-0.10	1340.35	67.00
216.00	245.84	22.90	0.50	-0.10	1353.41	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
217.00	246.74	21.50	0.50	-0.10	1341.32	67.00
218.00	245.66	22.70	0.50	-0.10	1388.69	67.00
219.00	247.10	23.40	0.50	-0.10	1350.48	67.00
220.00	246.74	22.10	0.50	-0.10	1394.93	67.10
221.00	248.18	21.10	0.50	-0.10	1331.58	67.10
222.00	247.64	21.40	0.50	-0.10	1384.98	67.10
223.00	248.18	22.70	0.50	-0.10	1350.68	67.00
224.00	248.00	22.10	0.50	-0.10	1369.59	67.10
225.00	249.80	22.80	0.50	0.40	1368.42	67.10
226.00	248.72	21.80	0.50	0.40	1376.60	67.10
227.00	249.26	21.90	0.50	0.40	1333.92	67.10
228.00	249.44	22.80	0.50	-0.10	1367.44	67.00
229.00	250.34	22.20	0.50	-0.10	1360.04	66.90
230.00	249.62	22.30	0.50	-0.10	1350.48	66.90
231.00	250.16	22.00	0.50	-0.10	1366.27	67.00
232.00	250.88	21.70	0.50	-0.10	1355.94	66.90
233.00	250.52	23.10	0.50	-0.10	1346.78	66.90
234.00	250.88	21.60	0.50	-0.10	1360.62	66.90
235.00	251.96	22.20	0.50	-0.10	1385.37	66.90
236.00	251.96	21.30	0.50	-0.10	1339.18	66.90
237.00	253.58	21.70	0.50	-0.10	1375.82	66.80
238.00	252.68	21.70	0.50	-0.10	1354.97	66.90
239.00	253.58	22.00	0.50	-0.10	1366.86	66.90
240.00	253.94	22.20	0.50	-0.10	1347.37	66.90
241.00	254.66	21.40	0.50	-0.10	1366.66	66.80
242.00	255.20	22.80	0.50	-0.10	1352.63	66.80
243.00	255.02	22.60	0.50	-0.10	1368.22	66.90
244.00	255.20	22.80	0.50	-0.10	1345.42	67.00
245.00	255.56	21.80	0.50	-0.10	1366.66	67.00
246.00	254.30	22.80	0.50	-0.10	1368.03	66.90
247.00	255.20	23.80	0.50	-0.10	1359.26	66.90
248.00	254.84	21.70	0.50	-0.10	1355.55	66.90
249.00	255.56	21.00	0.50	-0.10	1353.41	66.90
250.00	254.48	21.70	0.50	-0.10	1360.43	66.90
251.00	255.56	22.30	0.50	-0.10	1350.09	66.90
252.00	255.20	21.80	0.50	-0.10	1361.79	66.90
253.00	255.56	22.40	0.50	-0.10	1339.96	66.90
254.00	256.28	22.40	0.50	-0.10	1364.32	66.90
255.00	256.28	22.30	0.50	-0.10	1352.82	66.80
256.00	256.28	23.10	0.50	-0.10	1386.35	66.80
257.00	256.64	22.40	0.50	-0.10	1366.27	66.70
258.00	256.64	22.30	0.50	-0.10	1382.06	66.60
259.00	256.82	22.80	0.50	-0.10	1350.68	66.70
260.00	256.82	22.60	0.50	-0.10	1344.44	66.70
261.00	256.82	22.60	0.50	-0.10	1379.33	66.80
262.00	257.00	21.80	0.50	-0.10	1346.20	66.80
263.00	256.82	21.10	0.50	-0.10	1380.89	66.90
264.00	257.18	22.40	0.50	-0.10	1363.54	66.90
265.00	257.54	22.90	0.50	-0.10	1353.21	66.80
266.00	257.54	21.90	0.50	-0.10	1351.65	66.80
267.00	258.08	22.30	0.50	0.40	1372.32	66.80
268.00	257.54	22.80	0.50	0.40	1355.75	66.80
269.00	258.44	21.80	0.50	0.40	1374.65	66.80
270.00	258.98	23.40	0.50	-0.10	1362.37	66.70
271.00	258.80	21.80	0.50	-0.10	1367.83	66.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
272.00	258.08	22.20	0.50	-0.10	1361.40	66.50
273.00	259.52	21.70	0.50	-0.10	1360.23	66.60
274.00	258.44	23.30	0.50	-0.10	1375.63	66.60
275.00	260.06	23.10	0.50	-0.10	1385.18	66.70
276.00	258.98	22.30	0.50	-0.10	1370.95	66.70
277.00	259.52	22.20	0.50	-0.10	1328.46	66.80
278.00	259.34	22.60	0.50	-0.10	1373.29	66.80
279.00	259.52	22.10	0.50	-0.10	1359.65	66.80
280.00	259.52	21.90	0.50	-0.10	1390.44	66.80
281.00	260.60	22.20	0.50	0.40	1352.24	66.80
282.00	260.78	22.20	0.50	0.40	1379.53	66.80
283.00	260.24	22.50	0.50	-0.10	1357.31	66.90
284.00	260.60	21.80	0.50	0.40	1387.52	66.90
285.00	260.78	22.60	0.50	-0.10	1361.59	67.00
286.00	260.60	21.80	0.50	-0.10	1383.82	67.00
287.00	260.96	22.00	0.50	-0.10	1374.46	67.00
288.00	260.60	23.00	0.50	-0.10	1346.00	66.90
289.00	260.60	20.90	0.50	-0.10	1359.26	66.90
290.00	260.96	22.40	0.50	-0.10	1363.93	66.90
291.00	261.14	22.30	0.50	-0.10	1376.60	66.80
292.00	260.96	22.00	0.50	-0.10	1363.35	66.80
293.00	260.60	22.80	0.50	-0.10	1346.78	66.70
294.00	261.50	22.20	0.50	-0.10	1360.23	66.80
295.00	261.14	22.10	0.50	0.40	1331.77	66.70
296.00	261.86	22.90	0.50	0.40	1345.81	66.60
297.00	261.86	22.80	0.50	0.40	1382.06	66.50
298.00	262.22	22.30	0.50	0.40	1344.05	66.40
299.00	261.86	21.80	0.50	-0.10	1384.60	66.50
300.00	261.86	22.30	0.50	-0.10	1357.70	66.60
301.00	262.76	22.20	0.50	-0.10	1387.13	66.70
302.00	262.58	22.50	0.50	-0.10	1375.43	66.70
303.00	262.58	22.80	0.50	-0.10	1373.48	66.60
304.00	263.12	22.50	0.50	-0.10	1373.48	66.70
305.00	263.66	22.50	0.50	-0.10	1376.21	66.80
306.00	263.12	23.60	0.50	-0.10	1366.27	66.80
307.00	264.02	22.20	0.50	-0.10	1352.82	66.80
308.00	264.56	22.50	0.50	0.40	1358.87	66.70
309.00	264.02	22.30	0.50	0.40	1358.48	66.80
310.00	264.20	22.00	0.50	0.40	1377.38	66.90
311.00	264.92	22.20	0.50	0.40	1353.80	66.90
312.00	265.46	23.10	0.50	0.40	1356.92	66.90
313.00	265.46	23.10	0.50	0.40	1347.37	66.90
314.00	264.02	22.70	0.50	-0.10	1366.08	66.90
315.00	264.02	22.30	0.50	-0.10	1367.05	66.90
316.00	265.10	24.30	0.50	-0.10	1361.40	66.90
317.00	265.46	22.10	0.50	-0.10	1363.35	66.80
318.00	266.00	22.70	0.50	-0.10	1367.25	66.80
319.00	265.82	22.80	0.50	-0.10	1344.05	66.90
320.00	265.82	21.60	0.50	-0.10	1358.87	67.00
321.00	266.72	22.20	0.50	-0.10	1364.13	67.00
322.00	266.00	22.10	0.50	0.40	1354.38	66.90
323.00	266.00	21.10	0.50	0.40	1351.46	66.90
324.00	266.36	22.10	0.50	0.40	1349.90	66.90
325.00	266.36	23.20	0.50	0.40	1356.14	67.00
326.00	266.00	22.90	0.50	0.40	1343.66	66.90

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	266.90	22.40	0.50	0.40	1366.66	66.90
328.00	266.00	22.60	0.50	-0.10	1364.13	67.00
329.00	266.72	22.70	0.50	-0.10	1375.04	66.90
330.00	266.36	22.60	0.50	-0.10	1357.50	66.90
331.00	266.36	22.20	0.50	-0.10	1371.34	66.70
332.00	266.36	22.60	0.50	-0.10	1365.88	66.70
333.00	266.90	22.70	0.50	-0.10	1382.45	66.70
334.00	266.54	22.30	0.50	-0.10	1360.43	66.70
335.00	267.08	22.70	0.50	-0.10	1358.87	66.70
336.00	267.80	22.20	0.50	0.40	1355.55	66.60
337.00	268.52	22.30	0.50	0.40	1351.85	66.60
338.00	268.70	22.20	0.50	0.40	1367.25	66.70
339.00	269.06	21.90	0.50	0.40	1361.40	66.70
340.00	269.78	22.30	0.50	0.40	1356.14	66.80
341.00	269.60	21.40	0.50	0.40	1354.77	66.70
342.00	269.42	23.00	0.50	-0.10	1376.99	66.70
343.00	269.60	22.40	0.50	-0.10	1326.90	66.80
344.00	269.78	21.50	0.50	-0.10	1384.01	66.80
345.00	270.68	21.40	0.50	-0.10	1370.76	66.80
346.00	270.68	22.40	0.50	-0.10	1372.51	66.90
347.00	271.22	23.00	0.50	-0.10	1344.64	66.90
348.00	270.68	22.20	0.50	-0.10	1369.39	66.90
349.00	270.68	22.40	0.50	0.40	1352.82	66.90
350.00	271.40	23.00	0.50	0.40	1379.14	66.90
351.00	271.22	21.70	0.50	0.40	1372.32	66.80
352.00	270.86	21.90	0.50	0.40	1336.26	66.80
353.00	271.40	21.80	0.50	0.40	1355.55	66.80
354.00	271.76	22.00	0.50	0.40	1358.48	66.80
355.00	271.76	22.90	0.50	0.40	1368.03	66.80
356.00	271.76	22.80	0.50	-0.10	1367.05	66.90
357.00	272.48	21.70	0.50	-0.10	1383.62	66.90
358.00	271.40	21.30	0.50	-0.10	1352.04	66.90
359.00	271.76	22.40	0.50	-0.10	1386.35	66.80
360.00	271.94	22.80	0.50	0.40	1358.87	66.90
361.00	272.30	21.90	0.50	-0.10	1372.71	66.90
362.00	272.30	22.20	0.50	0.40	1349.70	66.80
363.00	272.12	21.30	0.50	-0.10	1371.34	66.80
364.00	271.76	22.80	0.50	0.40	1348.54	66.80
365.00	271.76	22.50	0.50	0.40	1376.02	66.90
366.00	272.48	22.30	0.50	0.40	1350.09	67.00
367.00	271.40	22.80	0.50	0.40	1372.32	67.00
368.00	272.48	21.90	0.50	0.40	1357.89	67.00
369.00	271.58	21.00	0.50	0.40	1365.49	67.00
370.00	270.86	22.50	0.50	0.40	1357.11	67.00
371.00	271.58	22.50	0.50	-0.10	1347.37	66.80
372.00	271.22	22.70	0.50	0.40	1370.76	66.70
373.00	272.12	23.40	0.50	-0.10	1355.55	66.80
374.00	272.12	22.10	0.50	-0.10	1383.04	66.80
375.00	270.86	22.20	0.50	-0.10	1362.37	66.80
376.00	272.30	21.80	0.50	0.40	1366.86	66.80
377.00	271.04	22.50	0.50	-0.10	1365.10	66.90
378.00	271.40	22.80	0.50	0.40	1382.45	66.90
379.00	271.22	22.30	0.50	0.40	1344.05	66.90
380.00	271.04	21.80	0.50	0.40	1367.83	66.80
381.00	271.22	23.00	0.50	0.40	1376.21	66.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
382.00	271.22	21.90	0.50	0.40	1367.05	66.80
383.00	272.30	22.70	0.50	0.40	1374.65	66.70
384.00	271.22	21.90	0.50	0.40	1381.28	66.70
385.00	271.40	22.50	0.50	-0.10	1384.40	66.80
386.00	271.76	22.00	0.50	-0.10	1373.48	66.90
387.00	271.76	21.50	0.50	0.40	1384.60	66.80
388.00	271.04	22.50	0.50	-0.10	1357.89	66.70
389.00	270.86	22.10	0.50	-0.10	1355.16	66.70
390.00	271.22	22.50	0.50	-0.10	1341.32	66.80
391.00	271.22	22.00	0.50	0.40	1380.89	66.80
392.00	271.40	22.20	0.50	-0.10	1352.04	66.90
393.00	271.76	22.20	0.50	0.40	1372.51	67.00
394.00	272.12	22.10	0.50	0.40	1349.51	67.00
395.00	271.94	23.40	0.50	0.40	1375.63	67.00
396.00	271.76	21.40	0.50	0.40	1363.35	67.10
397.00	272.12	23.30	0.50	0.40	1376.60	67.10
398.00	272.84	21.60	0.50	0.40	1375.82	67.10
399.00	273.38	22.10	0.50	0.40	1375.04	67.10
400.00	273.02	23.00	0.50	-0.10	1363.35	67.10
401.00	273.02	22.40	0.50	-0.10	1370.56	67.10
402.00	273.56	22.00	0.50	-0.10	1390.44	67.00
403.00	273.56	23.10	0.50	-0.10	1371.93	67.10
404.00	273.02	22.90	0.50	-0.10	1362.37	67.10
405.00	273.56	22.50	0.50	-0.10	1369.00	67.20
406.00	273.56	22.20	0.50	0.40	1361.98	67.10
407.00	273.56	22.10	0.50	0.40	1348.73	67.20
408.00	273.56	22.70	0.50	0.40	1373.29	67.10
409.00	273.92	22.40	0.50	0.40	1358.87	67.10
410.00	274.46	22.20	0.50	0.40	1392.59	67.00
411.00	273.92	22.60	0.50	0.40	1348.15	66.90
412.00	273.74	22.40	0.50	0.40	1394.93	67.00
413.00	274.82	22.60	0.50	-0.10	1368.22	67.00
414.00	275.00	22.50	0.50	0.40	1378.55	66.90
415.00	275.18	22.40	0.50	-0.10	1365.69	66.90
416.00	274.10	22.90	0.50	0.40	1378.75	66.80
417.00	276.08	22.20	0.50	-0.10	1366.86	66.80
418.00	275.72	22.40	0.50	-0.10	1357.11	66.80
419.00	275.54	23.40	0.50	0.40	1346.39	66.70
420.00	276.08	22.20	0.50	0.40	1352.43	66.60
421.00	275.90	22.10	0.50	0.40	1376.02	66.50
422.00	276.08	22.40	0.50	0.40	1354.38	66.50
423.00	276.26	22.30	0.50	0.40	1367.64	66.50
424.00	276.80	22.20	0.50	0.40	1358.87	66.50
425.00	277.70	22.10	0.50	0.40	1388.88	66.40
426.00	277.88	22.60	0.50	0.40	1361.79	66.40
427.00	278.24	22.50	0.50	-0.10	1414.42	66.40
428.00	278.24	22.20	0.50	0.40	1354.77	66.50
429.00	278.60	22.40	0.50	0.40	1403.70	66.50
430.00	279.14	22.70	0.50	0.40	1352.43	66.60
431.00	279.14	22.40	0.50	0.40	1393.76	66.60
432.00	280.04	22.60	0.50	0.40	1349.12	66.60
433.00	279.68	22.30	0.50	0.40	1383.43	66.50
434.00	279.50	23.30	0.50	0.40	1361.40	66.50
435.00	280.58	21.40	0.50	-0.10	1361.98	66.40
436.00	280.94	21.40	0.50	0.40	1366.66	66.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
437.00	281.48	21.90	0.50	0.40	1368.22	66.50
438.00	282.02	22.50	0.50	0.40	1378.55	66.50
439.00	282.38	22.20	0.50	0.40	1366.66	66.50
440.00	283.28	21.80	0.50	0.40	1380.50	66.60
441.00	284.18	21.80	0.50	0.40	1371.54	66.60
442.00	283.64	22.60	0.50	0.40	1358.87	66.60
443.00	284.72	22.00	0.50	0.40	1357.50	66.60
444.00	285.26	22.40	0.50	-0.10	1370.95	66.70
445.00	284.54	22.90	0.50	-0.10	1350.68	66.70
446.00	285.08	23.00	0.50	0.40	1384.60	66.60
447.00	284.72	22.20	0.50	0.40	1367.05	66.60
448.00	285.62	22.20	0.50	0.40	1375.43	66.60
449.00	285.98	22.00	0.50	0.40	1349.51	66.60
450.00	286.16	22.10	0.50	0.40	1381.67	66.60
451.00	285.98	23.30	0.50	0.40	1350.29	66.60
452.00	287.42	22.20	0.50	0.40	1374.65	66.70
453.00	287.06	22.00	0.60	0.40	1349.31	66.70
454.00	288.14	22.70	0.60	0.40	1356.53	66.70
455.00	288.14	21.00	0.50	0.40	1325.53	66.80
456.00	288.68	22.40	0.50	0.40	1356.92	66.70
457.00	288.32	22.40	0.50	0.40	1364.32	66.70
458.00	288.32	22.20	0.50	0.40	1368.81	66.70
459.00	288.32	22.40	0.50	-0.10	1365.49	66.70
460.00	289.04	21.90	0.50	0.40	1347.17	66.70
461.00	289.76	22.40	0.50	-0.10	1343.08	66.80
462.00	289.22	22.50	0.50	-0.10	1358.87	66.90
463.00	289.22	22.00	0.50	0.40	1367.64	66.90
464.00	289.94	22.40	0.50	0.40	1343.66	67.00
465.00	290.30	22.60	0.50	0.40	1367.05	66.90
466.00	290.48	22.90	0.50	0.40	1366.47	66.90
467.00	290.66	22.00	0.50	0.40	1372.12	66.80
468.00	291.20	22.40	0.50	0.40	1374.65	66.80
469.00	291.38	21.70	0.50	0.40	1357.50	66.90
470.00	291.56	22.40	0.50	0.40	1342.88	66.90
471.00	291.92	22.70	0.50	0.40	1360.04	66.90
472.00	292.28	22.40	0.50	0.40	1361.98	66.80
473.00	292.82	21.70	0.50	0.40	1374.65	66.80
474.00	292.46	23.90	0.50	0.40	1350.87	66.90
475.00	292.64	22.20	0.50	0.40	1369.59	66.90
476.00	293.18	22.60	0.50	0.40	1371.93	66.80
477.00	293.72	22.80	0.50	0.40	1371.93	66.80
478.00	293.54	22.20	0.50	0.40	1351.07	66.70
479.00	294.08	22.40	0.50	0.40	1361.79	66.70
480.00	295.16	21.80	0.50	0.40	1340.54	66.80
481.00	295.34	22.40	0.50	0.40	1365.69	66.80
482.00	295.34	22.00	0.50	0.40	1346.20	66.90
483.00	295.52	21.60	0.50	0.40	1367.64	66.90
484.00	295.88	22.50	0.50	0.40	1352.04	67.00
485.00	296.42	22.50	0.50	0.40	1376.60	67.10
486.00	296.60	22.20	0.50	0.40	1360.23	67.10
487.00	296.78	22.20	0.50	0.40	1377.19	67.20
488.00	296.60	22.70	0.50	-0.10	1343.47	67.10
489.00	297.32	22.40	0.50	0.40	1342.88	67.10
490.00	297.50	22.70	0.50	-0.10	1367.44	67.20
491.00	297.86	21.50	0.50	0.40	1368.61	67.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
492.00	298.40	21.50	0.50	0.40	1362.18	67.10
493.00	299.12	22.80	0.50	0.40	1373.29	67.10
494.00	298.94	22.10	0.60	0.40	1366.66	67.10
495.00	299.84	21.90	0.60	0.40	1359.06	67.00
496.00	300.02	22.00	0.50	0.40	1372.90	67.00
497.00	300.74	22.70	0.50	0.40	1366.66	66.80
498.00	300.92	22.30	0.50	0.40	1357.50	66.70
499.00	300.74	21.90	0.50	-0.10	1344.05	66.60
500.00	301.10	22.50	0.50	-0.10	1346.20	66.60
501.00	302.18	22.10	0.50	0.40	1366.47	66.60
502.00	301.64	21.80	0.50	0.40	1359.06	66.60
503.00	302.90	22.60	0.50	-0.10	1328.26	66.60
504.00	302.54	22.70	0.50	0.40	1376.60	66.60
505.00	303.44	21.90	0.50	-0.10	1359.26	66.60
506.00	303.26	22.50	0.50	0.40	1382.06	66.60
507.00	303.80	22.30	0.50	-0.10	1359.84	66.60
508.00	303.98	21.70	0.50	0.40	1371.73	66.60
509.00	304.70	22.10	0.50	0.40	1339.76	66.70
510.00	304.70	23.00	0.60	0.40	1370.56	66.70
511.00	305.96	22.50	0.50	0.40	1353.80	66.70
512.00	305.60	22.40	0.50	0.40	1380.50	66.70
513.00	305.96	22.90	0.50	0.40	1357.11	66.80
514.00	306.50	22.80	0.50	0.40	1370.76	66.80
515.00	306.14	22.70	0.50	0.40	1330.60	66.90
516.00	306.14	22.30	0.50	0.40	1360.04	67.00
517.00	306.14	22.80	0.50	0.40	1343.47	67.00
518.00	306.14	23.00	0.50	0.40	1361.98	67.00
519.00	307.04	22.30	0.50	0.40	1354.19	67.00
520.00	307.04	23.00	0.50	0.40	1370.95	67.00
521.00	307.40	22.40	0.50	0.40	1396.10	66.90
522.00	307.76	22.70	0.60	0.40	1371.15	66.90
523.00	308.30	22.40	0.50	0.40	1385.18	66.90
524.00	308.30	22.40	0.60	0.40	1355.36	66.80
525.00	308.48	22.80	0.50	0.40	1356.92	66.90
526.00	308.48	22.30	0.50	0.40	1347.17	66.90
527.00	309.02	22.40	0.50	0.40	1355.16	66.90
528.00	310.10	22.40	0.50	0.40	1345.61	66.90
529.00	310.10	22.70	0.50	0.40	1359.26	66.90
530.00	309.74	22.30	0.50	0.40	1364.71	67.00
531.00	309.20	22.60	0.50	0.40	1359.45	67.00
532.00	310.10	22.40	0.50	0.40	1327.87	67.10
533.00	309.92	22.10	0.50	0.40	1349.12	67.10
534.00	310.82	22.40	0.50	0.40	1352.43	67.10
535.00	311.18	22.40	0.50	0.40	1358.09	67.00
536.00	311.54	23.60	0.60	0.40	1345.81	67.00
537.00	311.72	22.70	0.60	0.40	1364.71	67.00
538.00	312.98	22.70	0.50	0.40	1352.24	66.90
539.00	312.62	22.00	0.50	0.40	1360.23	66.90
540.00	312.62	22.30	0.50	0.40	1338.40	66.90
541.00	312.44	21.90	0.50	0.40	1346.39	66.90
542.00	313.34	22.70	0.50	0.40	1355.36	66.90
543.00	313.34	22.10	0.50	0.40	1356.72	67.00
544.00	313.34	22.50	0.50	0.40	1340.15	67.00
545.00	313.34	22.80	0.50	0.40	1358.09	67.00
546.00	314.06	23.30	0.50	0.40	1343.08	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
547.00	313.88	22.90	0.50	0.40	1348.73	67.00
548.00	314.60	22.10	0.50	0.40	1369.98	67.00
549.00	314.24	22.40	0.50	0.40	1347.37	66.90
550.00	314.96	22.90	0.60	0.40	1372.51	66.90
551.00	314.60	22.80	0.60	0.40	1346.00	66.90
552.00	315.14	23.00	0.50	0.40	1342.88	66.90
553.00	315.14	22.70	0.50	0.40	1352.04	66.80
554.00	315.86	21.60	0.50	0.40	1375.24	66.70
555.00	315.86	22.10	0.50	0.40	1380.50	66.60
556.00	316.58	22.30	0.50	0.40	1390.83	66.60
557.00	315.68	23.10	0.50	-0.10	1384.21	66.60
558.00	316.22	22.60	0.50	0.40	1395.12	66.70
559.00	316.22	22.20	0.50	0.40	1358.48	66.70
560.00	316.22	22.00	0.50	-0.10	1375.04	66.70
561.00	316.22	22.50	0.50	0.40	1365.88	66.60
562.00	316.94	22.00	0.50	-0.10	1368.03	66.60
563.00	316.40	21.60	0.50	0.40	1360.62	66.50
564.00	317.48	22.50	0.50	0.40	1343.66	66.50
565.00	317.66	22.30	0.50	0.40	1359.84	66.50
566.00	318.20	22.90	0.60	0.40	1352.43	66.40
567.00	317.84	22.60	0.50	0.40	1371.34	66.40
568.00	318.38	22.40	0.50	0.40	1341.71	66.40
569.00	318.20	23.40	0.50	0.40	1413.05	66.40
570.00	318.38	22.50	0.50	0.40	1366.86	66.50
571.00	318.74	22.70	0.50	0.40	1392.59	66.50
572.00	318.74	22.30	0.50	0.40	1367.05	66.50
573.00	318.38	23.20	0.50	0.40	1378.16	66.60
574.00	318.92	22.70	0.50	0.40	1359.45	66.60
575.00	319.28	22.50	0.50	0.40	1360.43	66.70
576.00	318.92	22.50	0.50	0.40	1351.65	66.70
577.00	319.28	21.70	0.50	0.40	1357.89	66.60
578.00	319.82	22.50	0.50	0.40	1339.18	66.70

Ignitibility Testing: Drilling into Saltcake, 1 ft3 flammable, with purge, 2nd run
8/31/94

File Name: Run04_2b

Time(Sec)	Bit Temp(F)	Prgtmp(F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	80.60	69.80	-0.40	16.40	1377.19	68.60
1.00	80.96	69.62	-0.40	15.90	1362.37	68.60
2.00	81.14	70.16	-0.40	15.90	1388.88	68.60
3.00	80.60	70.16	-0.30	16.40	1365.30	68.50
4.00	80.60	69.26	-0.30	16.40	1378.75	68.50
5.00	80.78	69.44	-0.40	16.40	1364.71	68.50
6.00	80.60	69.62	-0.40	16.40	1373.09	68.60
7.00	80.60	69.44	-0.40	16.40	1343.47	68.60
8.00	80.42	69.26	-0.30	15.90	1379.14	68.60
9.00	80.78	70.34	-0.20	16.40	1334.31	68.70
10.00	80.96	70.16	0.10	19.60	1298.25	68.40
11.00	81.50	70.34	0.40	23.30	1290.06	68.10
12.00	81.50	71.42	0.70	27.00	1283.43	68.00
13.00	82.58	69.62	1.00	30.70	1304.68	67.80
14.00	83.66	69.62	1.20	31.30	1309.36	67.60
15.00	84.92	69.98	1.40	29.70	1321.64	67.50
16.00	86.00	69.80	1.60	29.10	1301.75	67.40
17.00	87.44	68.72	1.70	28.60	1324.17	67.30
18.00	89.24	69.62	1.90	28.10	1320.47	67.20
19.00	91.22	69.44	2.00	28.60	1351.07	67.00
20.00	93.20	69.26	2.20	28.60	1322.61	67.00
21.00	95.18	69.08	2.30	28.60	1363.15	66.90
22.00	97.52	69.62	2.50	28.60	1321.44	66.80
23.00	98.78	69.98	2.60	28.10	1339.18	66.90
24.00	100.22	69.44	2.80	27.50	1318.71	66.80
25.00	101.12	69.62	3.00	27.50	1328.46	66.80
26.00	101.48	70.34	3.20	28.10	1318.32	67.00
27.00	102.20	69.62	3.40	28.10	1358.28	67.00
28.00	102.92	69.44	3.60	25.90	1321.25	67.00
29.00	103.82	68.36	3.70	25.40	1351.65	66.90
30.00	105.44	70.52	3.80	24.90	1313.25	66.90
31.00	106.70	69.08	4.00	25.90	1340.15	66.70
32.00	107.78	69.62	4.10	22.80	1340.35	66.60
33.00	107.96	69.08	4.20	21.70	1342.10	66.60
34.00	106.70	69.62	4.30	21.20	1350.29	66.50
35.00	105.62	69.44	4.40	21.70	1346.39	66.50
36.00	104.00	69.44	4.50	21.70	1351.85	66.50
37.00	104.00	69.98	4.60	21.20	1332.94	66.60
38.00	103.82	69.80	4.70	21.70	1355.94	66.60
39.00	104.54	69.26	4.70	21.20	1332.55	66.60
40.00	103.82	69.44	4.80	21.20	1369.98	66.60
41.00	104.00	69.62	5.00	20.10	1337.62	66.50
42.00	104.18	69.44	5.00	20.10	1346.78	66.50
43.00	105.08	69.62	5.20	20.10	1347.17	66.50
44.00	105.98	69.98	5.20	20.60	1354.19	66.40
45.00	106.70	69.44	5.40	20.60	1343.66	66.40
46.00	107.78	69.62	5.50	20.10	1352.63	66.30
47.00	109.76	69.62	5.60	20.10	1317.35	66.20
48.00	111.38	68.90	5.70	19.00	1335.28	66.20
49.00	112.10	69.26	5.90	19.00	1306.24	66.20
50.00	114.08	69.98	6.10	19.00	1330.21	66.20
51.00	116.42	69.80	6.30	19.60	1313.25	66.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	118.04	69.98	6.50	20.10	1311.11	66.10
53.00	119.66	69.44	6.70	20.60	1313.06	66.20
54.00	122.90	69.26	7.00	21.70	1319.69	66.10
55.00	125.24	69.26	7.20	21.70	1302.14	66.10
56.00	126.68	69.26	7.40	19.60	1326.31	66.20
57.00	129.74	69.08	7.60	20.10	1299.42	66.30
58.00	130.28	68.54	7.80	20.10	1312.48	66.30
59.00	130.46	68.90	8.00	19.60	1313.45	66.30
60.00	131.54	69.44	8.20	19.60	1299.61	66.40
61.00	132.08	68.54	8.50	20.10	1305.85	66.50
62.00	131.54	69.08	8.70	19.60	1280.51	66.50
63.00	132.08	71.60	8.90	19.00	1308.58	66.50
64.00	131.36	69.44	9.10	18.50	1302.92	66.60
65.00	132.44	69.62	9.40	20.10	1298.44	66.70
66.00	132.08	69.08	9.60	20.10	1285.77	66.80
67.00	132.62	67.82	9.80	19.00	1309.36	66.80
68.00	133.52	69.26	10.00	20.60	1268.03	66.80
69.00	134.06	69.98	10.20	22.80	1314.23	66.80
70.00	134.96	69.62	10.50	23.30	1291.03	66.80
71.00	133.34	68.90	10.70	20.60	1327.48	66.70
72.00	130.82	69.44	10.90	21.70	1289.67	66.70
73.00	130.10	69.44	11.20	22.20	1297.66	66.70
74.00	129.74	68.72	11.40	23.80	1289.28	66.80
75.00	126.50	69.44	11.70	32.30	1292.79	66.80
76.00	127.04	69.08	12.00	32.30	1288.31	66.70
77.00	123.44	69.62	12.20	37.60	1284.80	66.60
78.00	121.46	69.62	12.50	40.30	1282.07	66.50
79.00	122.54	69.44	12.70	46.70	1301.17	66.40
80.00	122.72	69.44	12.90	50.90	1321.83	66.30
81.00	128.12	69.26	13.10	53.60	1298.25	66.30
82.00	122.00	69.08	13.30	52.50	1305.46	66.20
83.00	121.82	69.44	13.50	56.80	1298.83	66.20
84.00	121.10	69.62	13.70	54.10	1302.53	66.20
85.00	122.00	69.44	13.90	56.80	1320.27	66.20
86.00	120.38	69.80	14.00	60.50	1340.93	66.00
87.00	124.88	69.44	14.10	57.80	1308.58	66.00
88.00	125.60	69.44	14.30	57.80	1324.95	66.00
89.00	126.50	69.08	14.40	53.60	1312.86	66.10
90.00	129.20	68.90	14.60	50.90	1327.68	66.20
91.00	125.60	68.36	14.80	38.70	1325.34	66.20
92.00	125.96	68.90	15.00	40.30	1331.77	66.20
93.00	127.94	69.62	15.10	48.80	1305.07	66.10
94.00	127.22	69.26	15.30	40.80	1321.44	66.20
95.00	126.68	69.26	15.60	32.90	1288.70	66.30
96.00	126.86	69.44	15.80	36.00	1309.75	66.40
97.00	126.32	69.26	16.10	39.20	1281.68	66.50
98.00	124.88	69.08	16.30	39.80	1287.14	66.70
99.00	124.52	68.90	16.60	35.00	1279.53	66.70
100.00	122.54	68.90	16.80	31.30	1279.92	66.80
101.00	122.18	69.44	17.10	32.90	1297.27	66.80
102.00	122.36	69.08	17.30	33.90	1296.88	66.70
103.00	122.36	69.44	17.50	29.70	1301.56	66.70
104.00	123.08	66.56	17.70	35.50	1315.79	66.60
105.00	124.16	68.72	17.80	30.20	1314.42	66.50
106.00	125.24	68.54	18.00	35.00	1308.97	66.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	127.58	68.90	18.30	43.50	1323.20	66.20
108.00	127.40	69.08	18.30	40.80	1319.10	66.10
109.00	127.58	68.54	18.50	45.60	1333.33	66.00
110.00	127.76	72.14	18.60	46.10	1319.10	66.00
111.00	127.04	69.44	18.80	47.70	1327.09	66.10
112.00	128.66	69.08	18.90	53.00	1328.85	66.20
113.00	127.04	69.08	19.00	53.00	1360.81	66.70
114.00	121.82	68.72	19.00	46.70	1357.70	67.10
115.00	117.14	68.72	19.00	41.90	1364.52	67.30
116.00	114.44	68.36	19.00	30.70	1363.54	67.50
117.00	112.10	68.54	19.00	23.30	1360.04	67.60
118.00	108.86	68.54	18.90	20.60	1349.51	67.70
119.00	107.42	69.26	18.90	19.00	1364.71	67.70
120.00	109.76	68.54	19.00	19.00	1373.87	67.70
121.00	108.32	68.72	19.00	19.00	1369.59	67.80
122.00	102.74	68.72	19.00	19.00	1364.13	67.80
123.00	104.72	68.36	19.00	18.50	1353.99	67.90
124.00	104.54	68.36	19.00	18.00	1351.85	68.00
125.00	103.46	68.54	19.00	18.00	1354.77	68.00
126.00	102.74	68.72	19.00	18.00	1380.70	68.00
127.00	101.30	68.90	19.00	18.00	1380.31	68.10
128.00	105.80	69.08	19.00	18.00	1359.26	68.00
129.00	98.60	68.72	18.90	18.50	1365.49	68.00
130.00	102.74	69.08	18.90	18.00	1385.18	68.00
131.00	99.50	68.36	19.00	18.00	1347.56	68.00
132.00	98.06	68.36	19.00	18.00	1381.09	68.00
133.00	99.68	68.54	19.00	18.50	1375.24	68.00
134.00	95.00	68.36	19.00	18.00	1353.99	67.90
135.00	94.46	68.72	19.00	18.00	1378.55	67.90
136.00	93.02	65.66	19.00	18.00	1365.88	67.90
137.00	93.74	68.54	18.90	18.00	1360.43	68.00
138.00	95.18	68.36	18.90	18.00	1346.00	67.90
139.00	93.56	68.54	19.00	18.00	1386.74	68.00
140.00	92.84	68.54	19.00	18.00	1376.21	68.00
141.00	92.84	68.00	19.00	18.00	1370.95	68.00
142.00	91.94	70.16	19.00	18.00	1353.02	68.10
143.00	91.94	67.82	19.00	18.00	1350.48	68.10
144.00	92.30	68.00	19.00	18.00	1382.06	68.20
145.00	91.94	67.82	19.00	18.00	1359.65	68.20
146.00	91.40	68.00	19.00	18.00	1384.21	68.20
147.00	89.60	65.66	19.00	18.00	1374.65	68.20
148.00	91.76	67.28	18.90	18.00	1381.09	68.20
149.00	93.02	68.36	18.90	18.00	1368.42	68.20
150.00	92.30	67.82	19.00	18.00	1371.15	68.20
151.00	91.94	68.00	19.00	17.50	1347.76	68.20
152.00	90.14	68.00	19.00	17.50	1374.65	68.10
153.00	89.78	68.00	19.00	18.00	1367.25	68.10
154.00	89.78	67.82	19.00	17.50	1372.12	68.00
155.00	89.78	68.18	19.00	18.00	1350.29	68.00
156.00	89.60	68.00	19.00	17.50	1358.67	67.90
157.00	89.60	68.18	19.00	18.00	1345.61	68.20
158.00	90.68	67.82	19.00	17.50	1353.02	68.10
159.00	91.76	68.00	18.90	18.00	1341.91	68.20
160.00	89.24	68.00	18.90	17.50	1367.83	68.10
161.00	87.62	68.36	19.00	17.50	1362.76	68.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	88.70	67.82	19.00	17.50	1361.98	68.30
163.00	88.16	67.46	19.00	17.50	1356.33	68.20
164.00	87.98	68.00	19.00	18.00	1363.35	68.20
165.00	86.90	68.00	19.00	18.00	1374.26	68.10
166.00	88.34	68.00	19.00	18.00	1347.76	68.20
167.00	87.98	67.82	19.00	17.50	1366.86	68.20
168.00	87.44	67.64	19.00	18.00	1355.94	68.20
169.00	85.10	68.90	18.90	18.00	1364.32	68.20
170.00	88.52	68.18	18.90	17.50	1360.04	68.20
171.00	85.82	67.82	18.90	17.50	1367.44	68.20
172.00	88.34	68.18	19.00	18.00	1329.04	68.20
173.00	87.80	68.00	19.00	18.00	1365.49	68.20
174.00	87.62	67.82	19.00	18.00	1355.94	68.20
175.00	87.26	67.28	19.00	18.00	1398.82	68.30
176.00	88.16	67.46	19.00	18.00	1382.26	68.30
177.00	87.44	67.82	19.00	18.00	1395.71	68.30
178.00	87.26	67.46	19.00	18.00	1352.63	68.30
179.00	86.90	67.82	19.00	18.00	1361.01	68.30
180.00	88.34	67.46	18.90	18.00	1355.94	68.30
181.00	86.54	67.64	18.90	18.50	1363.74	68.30
182.00	87.80	67.82	18.90	18.00	1351.07	68.20
183.00	86.54	66.02	19.00	18.00	1358.09	68.10
184.00	86.90	67.28	19.00	18.00	1352.43	68.10
185.00	86.90	67.46	19.00	18.00	1341.13	68.00
186.00	87.08	67.28	19.00	18.00	1340.54	68.00
187.00	86.54	67.28	19.00	18.00	1332.94	68.00
188.00	86.90	67.46	19.00	18.00	1357.89	68.00
189.00	86.54	68.00	19.00	18.00	1379.72	68.00
190.00	86.18	67.10	19.00	18.00	1401.94	67.90
191.00	87.26	67.10	19.00	18.00	1375.43	67.80
192.00	88.16	67.46	18.90	18.00	1391.61	67.80
193.00	86.00	66.38	18.90	18.00	1359.45	67.80
194.00	89.06	65.84	19.00	18.00	1369.59	67.90
195.00	86.54	68.18	19.00	18.00	1345.03	67.90
196.00	86.72	67.46	19.00	18.00	1374.07	68.00
197.00	86.18	67.64	19.00	18.00	1367.05	68.00
198.00	86.36	67.28	19.00	18.00	1391.22	67.90
199.00	86.54	67.28	19.00	18.00	1377.19	67.90
200.00	86.00	67.10	19.00	18.00	1384.21	67.80
201.00	86.54	67.10	19.00	18.00	1374.65	67.70
202.00	86.36	67.28	19.00	18.00	1365.88	67.70
203.00	84.20	67.28	18.90	17.50	1343.66	67.80
204.00	84.56	66.74	18.90	17.50	1349.70	68.00
205.00	85.28	67.46	18.90	17.50	1337.03	68.00
206.00	86.72	67.10	19.00	18.00	1373.48	68.00
207.00	83.30	67.28	19.00	18.00	1381.28	67.90
208.00	85.82	66.92	19.00	17.50	1373.87	67.80
209.00	85.64	67.10	19.00	17.50	1384.21	67.80
210.00	85.82	67.10	19.00	17.50	1374.65	67.80
211.00	84.92	66.92	19.00	17.50	1370.95	67.80
212.00	84.74	67.10	19.00	17.50	1354.77	67.70
213.00	86.54	67.10	19.00	17.50	1359.06	67.60
214.00	84.74	67.10	18.90	17.50	1358.67	67.60
215.00	88.70	66.56	18.90	17.50	1363.54	67.60
216.00	86.00	67.46	18.90	17.50	1340.93	67.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
217.00	85.46	67.10	19.00	17.50	1363.54	67.60
218.00	88.16	66.74	19.00	17.50	1367.64	67.50
219.00	85.64	66.74	19.00	17.50	1396.10	67.50
220.00	85.46	66.92	19.00	16.90	1358.87	67.40
221.00	85.28	66.92	19.00	16.90	1378.75	67.60
222.00	85.64	66.92	19.00	16.90	1345.81	67.60
223.00	85.64	67.28	19.00	16.90	1370.37	67.70
224.00	85.46	67.28	19.00	16.90	1368.03	67.60
225.00	85.46	66.74	19.00	16.90	1396.29	67.70
226.00	85.28	66.74	19.00	16.90	1351.65	67.80
227.00	85.10	67.28	18.90	16.90	1359.45	67.90
228.00	85.82	67.28	18.90	16.90	1342.69	67.70
229.00	84.38	66.74	19.00	16.90	1369.00	67.70
230.00	86.00	66.20	19.00	16.90	1340.74	67.70
231.00	85.82	67.28	19.00	16.90	1369.59	67.70
232.00	85.64	66.74	19.00	16.90	1356.14	67.80
233.00	86.00	66.56	19.00	16.90	1357.11	67.80
234.00	85.46	66.38	19.00	16.90	1359.84	67.70
235.00	85.46	66.74	19.00	16.90	1360.62	67.70
236.00	85.82	66.92	19.00	16.40	1351.46	67.70
237.00	85.82	66.74	19.00	16.40	1358.28	67.80
238.00	85.46	66.38	19.00	16.40	1359.26	67.80
239.00	83.84	67.64	18.90	16.40	1337.23	67.80
240.00	85.82	66.74	19.00	16.40	1344.25	67.80
241.00	87.62	66.20	19.00	16.40	1330.80	67.70
242.00	85.46	67.46	19.00	16.40	1346.98	67.70
243.00	85.46	66.92	19.00	16.40	1348.54	67.70
244.00	85.10	66.74	19.00	16.40	1364.32	67.70
245.00	85.64	66.56	19.00	16.40	1346.00	67.80
246.00	85.28	66.92	19.00	16.40	1336.65	67.80
247.00	85.10	66.92	19.00	16.40	1326.70	67.80
248.00	85.46	66.92	19.00	16.40	1340.15	67.80
249.00	85.64	66.92	19.00	16.40	1340.54	67.90
250.00	85.46	66.38	18.90	15.90	1378.75	67.90
251.00	83.84	66.74	18.90	16.40	1351.65	67.80
252.00	86.36	66.56	19.00	15.90	1395.51	67.80
253.00	85.64	66.74	19.00	15.90	1341.32	67.90
254.00	82.04	66.74	19.00	15.90	1353.80	68.00
255.00	84.38	66.56	19.00	15.90	1342.30	68.00
256.00	84.74	66.92	19.00	15.90	1356.92	68.00
257.00	84.92	66.74	19.00	15.90	1339.57	68.10
258.00	84.20	66.74	19.00	15.90	1356.53	68.10
259.00	83.66	66.38	19.00	15.90	1397.65	68.10
260.00	85.28	66.38	19.00	15.90	1401.55	68.10
261.00	85.10	66.74	18.90	15.90	1370.37	68.10
262.00	83.48	66.92	18.90	15.90	1363.74	68.20
263.00	83.84	66.38	19.00	15.90	1353.41	68.10
264.00	83.66	66.92	19.00	15.90	1366.47	68.10
265.00	84.92	66.92	19.00	15.90	1349.31	68.10
266.00	84.38	66.92	19.00	15.90	1338.98	68.10
267.00	84.20	66.56	19.00	15.90	1339.76	68.20
268.00	84.02	66.56	19.00	15.90	1336.84	68.20

Ignitibility Testing: Drilling into Steel Plate, 1 cc/min, no purge, 1st run
8/30/94

File Name: Run05_5a

Time(Sec)	Bit Temp(F)	Prgtmp(F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	86.54	71.96	0.00	-0.10	1328.85	67.90
1.00	88.70	72.14	0.00	-0.10	1272.52	67.60
2.00	87.98	72.68	0.00	-0.10	1245.03	67.60
3.00	89.60	71.24	0.30	-0.10	1254.39	67.50
4.00	91.22	71.78	0.60	-0.10	1239.77	67.20
5.00	90.86	71.60	0.90	-0.10	1241.52	67.00
6.00	93.20	71.24	1.20	-0.10	1251.66	66.90
7.00	95.36	71.96	1.40	-0.10	1292.40	66.50
8.00	98.78	71.78	1.50	-0.10	1298.44	66.30
9.00	102.02	70.88	1.60	-0.10	1340.54	66.20
10.00	109.04	72.32	1.60	-0.10	1318.52	66.30
11.00	115.88	73.40	1.60	-0.10	1344.83	66.30
12.00	120.38	72.14	1.60	-0.10	1332.16	66.40
13.00	123.08	72.32	1.60	-0.10	1358.87	66.50
14.00	125.24	72.50	1.60	-0.10	1318.13	66.50
15.00	127.58	71.06	1.60	-0.10	1359.26	66.50
16.00	128.30	71.24	1.60	-0.10	1357.50	66.60
17.00	129.38	71.06	1.60	-0.10	1353.99	66.70
18.00	130.64	71.42	1.60	-0.10	1328.85	66.70
19.00	131.18	71.42	1.60	-0.10	1341.91	66.70
20.00	132.44	72.32	1.60	-0.10	1323.20	66.60
21.00	132.80	71.96	1.60	-0.10	1336.84	66.70
22.00	133.70	71.24	1.60	-0.10	1320.08	66.70
23.00	134.78	71.42	1.70	-0.10	1332.55	66.80
24.00	135.68	71.60	1.70	-0.10	1340.35	66.70
25.00	135.86	71.96	1.60	-0.10	1340.93	66.80
26.00	136.76	71.24	1.60	-0.10	1348.34	66.70
27.00	137.48	72.14	1.60	-0.10	1325.53	66.60
28.00	138.20	71.60	1.60	-0.10	1339.96	66.50
29.00	139.10	71.96	1.60	-0.10	1342.88	66.50
30.00	139.46	72.32	1.60	-0.10	1344.44	66.50
31.00	140.90	72.68	1.60	-0.10	1315.98	66.40
32.00	140.90	72.32	1.60	-0.10	1348.92	66.30
33.00	141.44	71.42	1.60	-0.10	1325.92	66.30
34.00	142.16	71.60	1.60	-0.10	1348.15	66.30
35.00	143.24	72.14	1.60	-0.10	1331.77	66.30
36.00	144.14	72.32	1.70	-0.10	1354.97	66.40
37.00	145.04	71.60	1.70	-0.10	1328.65	66.40
38.00	145.22	71.78	1.70	-0.10	1320.66	66.40
39.00	145.58	70.70	1.70	-0.10	1328.26	66.40
40.00	146.30	71.42	1.70	-0.10	1324.95	66.50
41.00	146.84	71.96	1.70	-0.10	1333.14	66.60
42.00	147.20	71.78	1.70	-0.10	1348.73	66.60
43.00	148.10	72.32	1.60	-0.10	1333.53	66.60
44.00	148.46	72.32	1.60	-0.10	1341.13	66.60
45.00	148.64	71.96	1.60	-0.10	1331.97	66.60
46.00	149.18	72.14	1.60	-0.10	1352.63	66.50
47.00	149.54	72.14	1.60	-0.10	1337.62	66.50
48.00	149.72	72.14	1.60	-0.10	1347.56	66.50
49.00	149.90	72.14	1.70	-0.10	1339.18	66.60
50.00	149.72	72.14	1.70	-0.10	1320.08	66.60
51.00	150.08	72.32	1.70	-0.10	1345.81	66.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	150.62	71.78	1.70	-0.10	1318.91	66.60
53.00	150.26	72.14	1.70	-0.10	1360.43	66.60
54.00	150.80	72.32	1.70	-0.10	1327.48	66.50
55.00	151.34	71.78	1.70	-0.10	1364.91	66.50
56.00	151.52	71.60	1.70	-0.10	1328.65	66.50
57.00	152.24	72.50	1.70	-0.10	1337.62	66.50
58.00	152.42	71.24	1.70	-0.10	1323.00	66.50
59.00	152.96	72.50	1.70	-0.10	1346.39	66.60
60.00	152.78	72.32	1.70	-0.10	1338.20	66.50
61.00	153.14	72.68	1.70	-0.10	1348.34	66.60
62.00	153.32	72.32	1.70	-0.10	1340.93	66.70
63.00	153.86	72.14	1.70	-0.10	1354.97	66.80
64.00	154.40	72.32	1.70	-0.10	1345.03	66.70
65.00	154.40	71.78	1.70	-0.10	1353.80	66.70
66.00	154.76	73.40	1.70	-0.10	1338.59	66.80
67.00	154.94	72.68	1.70	-0.10	1341.52	66.80
68.00	155.48	72.32	1.60	-0.10	1323.78	66.70
69.00	155.84	72.50	1.60	-0.10	1352.24	66.90
70.00	156.56	72.32	1.70	-0.10	1337.03	67.00
71.00	156.56	72.32	1.70	-0.10	1356.92	67.00
72.00	156.92	72.86	1.70	-0.10	1354.97	67.10
73.00	157.28	72.14	1.70	-0.10	1346.39	67.10
74.00	157.46	71.24	1.70	-0.10	1353.80	67.10
75.00	157.82	72.14	1.70	-0.10	1320.27	67.00
76.00	158.90	71.60	1.70	-0.10	1365.69	67.00
77.00	158.90	72.32	1.70	-0.10	1348.15	67.10
78.00	158.90	71.06	1.70	-0.10	1375.82	67.10
79.00	158.90	72.68	1.70	-0.10	1339.18	67.10
80.00	159.08	72.68	1.70	-0.10	1343.27	67.20
81.00	159.44	72.14	1.70	-0.10	1334.31	67.20
82.00	160.34	71.96	1.60	-0.10	1342.88	67.20
83.00	159.98	71.78	1.70	-0.10	1332.36	67.30
84.00	160.70	71.42	1.70	-0.10	1346.98	67.30
85.00	160.34	71.96	1.70	-0.10	1337.81	67.20
86.00	160.70	72.32	1.70	-0.10	1333.72	67.20
87.00	160.70	72.14	1.70	-0.10	1333.92	67.20
88.00	161.78	72.14	1.70	-0.10	1332.16	67.10
89.00	161.78	72.32	1.70	-0.10	1350.87	67.10
90.00	163.04	71.96	1.70	-0.10	1354.77	67.10
91.00	162.14	72.86	1.70	-0.10	1336.26	67.00
92.00	162.86	71.78	1.70	-0.10	1335.28	67.10
93.00	163.04	72.14	1.70	-0.10	1349.31	67.10
94.00	163.76	72.86	1.70	-0.10	1337.23	67.00
95.00	163.58	71.78	1.60	-0.10	1338.98	67.00
96.00	164.30	72.32	1.60	-0.10	1330.99	67.00
97.00	164.30	71.42	1.70	-0.10	1361.79	66.90
98.00	164.84	73.04	1.70	-0.10	1321.83	66.90
99.00	164.84	71.78	1.70	-0.10	1358.09	66.90
100.00	165.02	72.14	1.70	-0.10	1336.84	67.00
101.00	165.38	71.60	1.70	-0.10	1353.99	67.00
102.00	165.56	73.22	1.70	-0.10	1332.16	67.00
103.00	165.92	72.68	1.70	-0.10	1337.81	67.00
104.00	166.10	72.32	1.70	-0.10	1345.81	67.00
105.00	166.64	72.32	1.70	-0.10	1339.18	67.00
106.00	166.82	72.32	1.70	-0.10	1367.83	67.00

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	167.54	72.14	1.70	-0.10	1324.95	66.90
108.00	167.72	72.86	1.70	-0.10	1343.47	66.90
109.00	168.08	72.14	1.60	-0.10	1335.28	66.90
110.00	168.98	72.32	1.70	-0.10	1347.76	66.90
111.00	168.80	72.50	1.70	-0.10	1320.27	67.00
112.00	169.34	72.32	1.70	-0.10	1343.27	66.90
113.00	169.70	73.58	1.70	-0.10	1336.06	66.90
114.00	169.88	72.32	1.70	-0.10	1334.11	66.90
115.00	170.60	72.50	1.70	-0.10	1329.04	66.80
116.00	170.60	72.14	1.70	-0.10	1354.58	66.80
117.00	170.42	72.50	1.70	-0.10	1337.42	66.70
118.00	170.96	72.14	1.70	-0.10	1349.90	66.70
119.00	171.32	72.68	1.70	-0.10	1330.41	66.80
120.00	171.32	72.68	1.70	-0.10	1344.05	66.80
121.00	172.04	72.32	1.70	-0.10	1341.13	66.80
122.00	172.04	72.68	1.70	-0.10	1339.96	66.90
123.00	172.40	72.68	1.60	-0.10	1335.87	66.90
124.00	172.76	72.32	1.60	-0.10	1324.37	66.90
125.00	172.94	72.86	1.70	-0.10	1363.54	66.90
126.00	173.48	71.78	1.70	-0.10	1332.94	66.80
127.00	173.84	72.50	1.70	-0.10	1357.50	66.80
128.00	173.66	73.58	1.70	-0.10	1345.22	66.90
129.00	174.20	73.40	1.70	-0.10	1349.12	66.80
130.00	174.20	71.24	1.70	-0.10	1312.48	66.90
131.00	175.10	72.14	1.70	-0.10	1340.15	66.90
132.00	175.10	72.50	1.70	-0.10	1332.36	66.90
133.00	175.82	72.86	1.70	-0.10	1354.58	66.90
134.00	175.82	72.50	1.70	-0.10	1336.45	67.00
135.00	176.18	72.14	1.70	-0.10	1332.94	66.90
136.00	176.36	73.04	1.70	-0.10	1327.48	66.90
137.00	176.72	72.14	1.60	-0.10	1342.30	66.90
138.00	176.72	72.50	1.60	-0.10	1343.86	66.90
139.00	176.90	73.04	1.70	-0.10	1312.28	66.90
140.00	177.44	72.86	1.70	-0.10	1345.81	66.90
141.00	177.44	72.32	1.70	-0.10	1319.30	67.00
142.00	177.80	71.24	1.70	-0.10	1359.06	67.00
143.00	178.16	72.86	1.70	-0.10	1318.91	66.90
144.00	178.70	72.68	1.70	-0.10	1358.87	67.00
145.00	178.88	72.68	1.70	-0.10	1329.04	67.00
146.00	179.60	72.14	1.70	-0.10	1352.82	66.90
147.00	180.68	72.50	1.70	-0.10	1329.63	66.90
148.00	180.68	73.22	1.70	-0.10	1346.98	66.90
149.00	181.76	72.14	1.70	-0.10	1339.57	66.90
150.00	181.76	73.22	1.70	-0.10	1342.49	66.80
151.00	182.66	72.68	1.60	-0.10	1334.70	66.90
152.00	183.56	72.32	1.60	-0.10	1345.81	66.90
153.00	183.56	72.32	1.70	-0.10	1343.47	66.90
154.00	184.64	72.32	1.70	-0.10	1345.61	66.90
155.00	184.28	73.04	1.70	-0.10	1346.39	66.80
156.00	185.00	73.04	1.70	-0.10	1319.88	66.80
157.00	184.82	72.86	1.70	-0.10	1347.17	66.70
158.00	185.18	72.14	1.70	-0.10	1331.97	66.70
159.00	185.90	72.50	1.70	-0.10	1350.68	66.70
160.00	185.90	72.32	1.70	-0.10	1333.33	66.60
161.00	186.08	71.60	1.70	-0.10	1351.26	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	186.62	72.68	1.70	-0.10	1318.91	66.70
163.00	186.98	72.68	1.70	-0.10	1343.66	66.70
164.00	187.34	73.58	1.70	-0.10	1322.22	66.70
165.00	188.06	73.04	1.60	-0.10	1335.67	66.70
166.00	188.42	72.68	1.60	-0.10	1329.82	66.60
167.00	188.78	72.50	1.60	-0.10	1335.28	66.60
168.00	188.96	72.68	1.70	-0.10	1337.03	66.50
169.00	188.78	72.68	1.70	-0.10	1323.98	66.50
170.00	189.14	73.04	1.70	-0.10	1326.12	66.60
171.00	189.32	73.58	1.70	-0.10	1336.06	66.70
172.00	189.32	72.86	1.70	-0.10	1344.25	66.70
173.00	189.14	72.68	1.70	-0.10	1345.61	66.70
174.00	189.14	73.04	1.70	-0.10	1347.37	66.80
175.00	189.68	73.04	1.70	-0.10	1332.55	66.80
176.00	189.50	73.40	1.70	-0.10	1341.71	66.80
177.00	190.22	72.86	1.70	-0.10	1323.98	66.80
178.00	189.68	72.50	1.70	-0.10	1348.15	66.80
179.00	190.22	73.04	1.70	-0.10	1324.37	66.70
180.00	190.04	72.86	1.60	-0.10	1351.85	66.60
181.00	190.76	73.22	1.60	-0.10	1330.99	66.50
182.00	190.94	73.40	1.60	-0.10	1343.47	66.50
183.00	190.94	72.50	1.70	-0.10	1321.83	66.50
184.00	191.66	73.40	1.70	-0.10	1342.30	66.50
185.00	191.30	73.40	1.70	-0.10	1335.48	66.40
186.00	191.66	73.94	1.70	-0.10	1339.57	66.50
187.00	192.02	74.48	1.70	-0.10	1339.76	66.50
188.00	192.20	72.50	1.70	-0.10	1343.47	66.70
189.00	193.10	73.76	1.70	-0.10	1357.50	66.70
190.00	193.46	72.86	1.70	-0.10	1345.22	66.80
191.00	193.64	73.40	1.70	-0.10	1339.37	66.80
192.00	193.82	73.04	1.70	-0.10	1318.52	66.80
193.00	193.82	72.86	1.70	-0.10	1355.16	66.80
194.00	193.82	72.68	1.70	-0.10	1306.82	66.70
195.00	193.82	73.04	1.60	-0.10	1344.05	66.80
196.00	194.36	72.32	1.60	-0.10	1336.45	66.80
197.00	193.82	73.22	1.70	-0.10	1341.13	66.80
198.00	194.00	73.04	1.70	-0.10	1306.63	66.90
199.00	194.36	72.68	1.70	-0.10	1350.68	66.90
200.00	194.54	72.68	1.70	-0.10	1342.10	66.90
201.00	194.36	73.04	1.70	-0.10	1364.32	67.00
202.00	194.54	74.66	1.70	-0.10	1353.80	66.90
203.00	194.72	73.22	1.70	-0.10	1334.31	66.90
204.00	194.90	73.04	1.70	-0.10	1348.92	66.90
205.00	195.08	73.58	1.70	-0.10	1317.74	66.90
206.00	195.44	73.22	1.70	-0.10	1353.41	66.90
207.00	196.16	72.50	1.70	-0.10	1329.63	66.90
208.00	195.98	73.40	1.70	-0.10	1351.85	66.90
209.00	196.52	73.04	1.60	-0.10	1325.14	66.90
210.00	196.52	72.68	1.60	-0.10	1346.59	66.90
211.00	196.88	73.58	1.70	-0.10	1316.18	66.90
212.00	197.42	73.40	1.70	-0.10	1356.92	67.00
213.00	197.60	73.22	1.70	-0.10	1330.80	67.00
214.00	197.78	73.04	1.70	-0.10	1327.48	67.00
215.00	197.96	72.86	1.70	-0.10	1336.45	67.00
216.00	198.14	73.58	1.70	-0.10	1342.10	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
217.00	198.68	73.76	1.70	-0.10	1351.85	67.00
218.00	199.04	73.04	1.70	-0.10	1350.29	67.00
219.00	199.40	73.04	1.70	-0.10	1360.43	67.00
220.00	199.04	73.04	1.70	-0.10	1350.09	67.00
221.00	199.40	72.32	1.70	-0.10	1329.63	67.10
222.00	199.94	72.86	1.70	-0.10	1333.72	67.20
223.00	200.30	73.22	1.70	-0.10	1345.81	67.20
224.00	200.66	73.76	1.70	-0.10	1329.43	67.20
225.00	200.30	73.58	1.70	-0.10	1361.01	67.30
226.00	201.20	73.40	1.70	-0.10	1316.37	67.20
227.00	200.66	73.40	1.70	-0.10	1345.03	67.20
228.00	201.20	73.40	1.70	-0.10	1335.09	67.10
229.00	201.02	74.12	1.70	-0.10	1344.25	67.00
230.00	201.20	72.86	1.70	-0.10	1336.06	67.00
231.00	201.20	73.40	1.70	-0.10	1345.03	67.00
232.00	201.02	72.50	1.70	-0.10	1337.62	67.00
233.00	201.56	73.22	1.70	-0.10	1339.76	66.80
234.00	201.38	73.40	1.70	-0.10	1335.09	66.80
235.00	201.56	73.58	1.70	-0.10	1327.87	66.80
236.00	202.46	73.40	1.70	-0.10	1353.41	66.80
237.00	202.64	73.40	1.70	-0.10	1318.13	66.80
238.00	202.64	73.76	1.60	-0.10	1350.68	66.80
239.00	202.28	73.58	1.70	-0.10	1346.20	66.90
240.00	203.36	73.22	1.70	-0.10	1352.04	67.00
241.00	203.36	73.04	1.70	-0.10	1324.95	67.00
242.00	203.72	73.40	1.70	-0.10	1351.46	67.00
243.00	203.90	74.12	1.70	-0.10	1326.31	67.00
244.00	204.44	73.40	1.70	-0.10	1340.15	67.00
245.00	204.62	73.04	1.70	-0.10	1331.77	66.90
246.00	204.44	72.86	1.70	-0.10	1341.52	66.90
247.00	204.98	73.58	1.70	-0.10	1357.31	66.90
248.00	204.98	73.76	1.70	-0.10	1336.06	66.90
249.00	205.52	73.22	1.70	-0.10	1346.39	66.90
250.00	205.52	73.76	1.70	-0.10	1334.11	66.90
251.00	205.88	73.40	1.70	-0.10	1345.61	66.90
252.00	206.60	73.40	1.70	-0.10	1321.64	66.90
253.00	206.60	73.22	1.70	-0.10	1333.72	66.90
254.00	207.86	73.58	1.70	-0.10	1323.20	66.80
255.00	208.22	73.58	1.70	-0.10	1355.36	66.80
256.00	209.30	73.22	1.70	-0.10	1332.16	66.80
257.00	210.02	74.66	1.70	-0.10	1353.99	66.80
258.00	210.38	73.94	1.70	-0.10	1349.51	66.90
259.00	210.20	73.94	1.70	-0.10	1343.66	66.90
260.00	210.38	73.40	1.70	-0.10	1346.00	66.90
261.00	210.56	74.12	1.70	-0.10	1336.26	66.80
262.00	210.56	73.40	1.70	-0.10	1343.27	66.80
263.00	210.92	73.94	1.70	-0.10	1333.72	66.80
264.00	210.92	73.58	1.70	-0.10	1338.98	66.90
265.00	210.92	73.58	1.70	-0.10	1327.87	66.90
266.00	211.28	73.58	1.70	-0.10	1344.25	67.00
267.00	210.92	73.04	1.70	-0.10	1327.68	67.00
268.00	211.28	73.40	1.70	-0.10	1351.46	66.90
269.00	211.28	73.76	1.70	-0.10	1330.80	66.90
270.00	211.64	73.94	1.70	-0.10	1356.53	67.00
271.00	211.82	74.12	1.70	-0.10	1352.82	66.90

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
272.00	212.00	72.50	1.70	-0.10	1329.04	66.80
273.00	212.72	73.76	1.70	-0.10	1337.81	66.60
274.00	212.54	73.40	1.70	-0.10	1344.64	66.60
275.00	213.44	73.40	1.70	-0.10	1350.87	66.60
276.00	213.62	73.94	1.70	-0.10	1343.86	66.70
277.00	213.62	73.58	1.70	-0.10	1352.24	66.80
278.00	215.06	73.94	1.70	-0.10	1332.16	66.70
279.00	215.24	73.22	1.70	-0.10	1343.66	66.70
280.00	215.78	73.58	1.70	-0.10	1333.14	66.70
281.00	216.14	74.12	1.70	-0.10	1343.47	66.70
282.00	216.50	73.94	1.70	-0.10	1322.03	66.80
283.00	216.86	74.30	1.70	-0.10	1351.65	66.80
284.00	217.04	73.22	1.70	-0.10	1321.64	66.80
285.00	217.22	73.94	1.70	-0.10	1347.56	66.90
286.00	217.22	73.58	1.70	-0.10	1350.48	66.90
287.00	217.40	74.48	1.70	-0.10	1355.16	66.90
288.00	217.76	73.40	1.70	-0.10	1358.09	66.90
289.00	217.94	74.12	1.70	-0.10	1339.18	66.90
290.00	217.76	73.40	1.70	-0.10	1359.65	67.00
291.00	217.94	73.58	1.70	-0.10	1339.37	67.10
292.00	217.76	73.58	1.70	-0.10	1342.69	67.00
293.00	217.40	73.94	1.70	-0.10	1323.20	67.10
294.00	217.22	73.40	1.70	-0.10	1346.59	67.10
295.00	217.22	74.12	1.70	-0.10	1323.39	67.20
296.00	217.22	73.94	1.70	-0.10	1343.86	67.10
297.00	216.68	74.30	1.70	-0.10	1329.24	67.10
298.00	216.86	74.12	1.70	-0.10	1345.61	67.20
299.00	216.50	74.12	1.70	-0.10	1341.71	67.30
300.00	216.50	73.58	1.70	-0.10	1338.79	67.20
301.00	216.32	74.30	1.70	-0.10	1325.73	67.10
302.00	216.68	73.58	1.70	-0.10	1346.98	67.20
303.00	216.86	73.58	1.70	-0.10	1348.15	67.10
304.00	216.32	73.94	1.70	-0.10	1335.87	67.10
305.00	216.32	73.94	1.70	-0.10	1352.04	67.10
306.00	216.32	74.12	1.60	-0.10	1322.42	67.00
307.00	216.86	73.58	1.70	-0.10	1369.98	67.00
308.00	216.86	73.94	1.70	-0.10	1318.32	67.10
309.00	217.22	73.22	1.70	-0.10	1348.73	67.00
310.00	216.86	73.94	1.70	-0.10	1329.04	67.00
311.00	216.86	73.94	1.70	-0.10	1342.49	67.00
312.00	217.22	74.66	1.70	-0.10	1342.30	67.00
313.00	217.04	73.94	1.70	-0.10	1365.30	66.90
314.00	217.58	74.48	1.70	-0.10	1346.98	66.90
315.00	217.22	74.12	1.70	-0.10	1353.02	66.90
316.00	217.22	73.58	1.70	-0.10	1349.12	66.90
317.00	217.76	73.94	1.70	-0.10	1350.68	66.90
318.00	217.94	73.76	1.70	-0.10	1361.40	66.90
319.00	218.12	73.58	1.70	-0.10	1337.81	66.90
320.00	218.12	74.66	1.70	-0.10	1323.59	67.00
321.00	218.66	74.12	1.70	-0.10	1334.11	67.10
322.00	218.48	73.94	1.70	-0.10	1345.03	67.10
323.00	219.02	74.12	1.70	-0.10	1318.32	67.10
324.00	219.02	73.94	1.70	-0.10	1350.29	67.10
325.00	219.20	73.76	1.70	-0.10	1331.77	67.00
326.00	219.56	74.84	1.70	-0.10	1367.64	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	219.92	71.96	1.70	-0.10	1334.31	67.00
328.00	220.28	74.30	1.70	-0.10	1357.11	67.00
329.00	220.28	74.12	1.70	-0.10	1320.47	67.00
330.00	220.64	73.94	1.70	-0.10	1366.47	67.00
331.00	220.46	74.12	1.70	-0.10	1320.86	67.00
332.00	220.82	74.66	1.70	-0.10	1350.09	67.00
333.00	221.00	74.84	1.70	-0.10	1338.98	67.10
334.00	221.72	74.30	1.70	-0.10	1339.96	67.00
335.00	221.90	74.30	1.70	-0.10	1344.83	67.00
336.00	221.90	74.12	1.70	-0.10	1311.70	66.90
337.00	222.44	74.12	1.70	-0.10	1338.20	66.90
338.00	222.62	73.58	1.70	-0.10	1322.61	66.90
339.00	223.16	74.12	1.70	-0.10	1362.96	66.90
340.00	223.16	74.66	1.70	-0.10	1324.95	66.90
341.00	222.98	73.40	1.70	-0.10	1361.79	67.00
342.00	223.52	73.22	1.70	-0.10	1328.26	67.00
343.00	223.70	74.30	1.70	-0.10	1362.37	66.90
344.00	224.60	74.12	1.70	-0.10	1343.66	67.00
345.00	224.24	74.12	1.70	-0.10	1364.13	67.00
346.00	224.78	74.12	1.70	-0.10	1324.17	66.90
347.00	224.96	74.48	1.70	-0.10	1339.57	66.80
348.00	225.14	74.12	1.70	-0.10	1315.98	66.90
349.00	226.22	74.30	1.70	-0.10	1348.34	66.90
350.00	225.86	73.94	1.70	-0.10	1346.20	66.90
351.00	226.40	74.48	1.70	-0.10	1339.96	66.90
352.00	226.58	75.20	1.70	-0.10	1332.16	67.00
353.00	226.58	73.94	1.70	-0.10	1327.48	67.00
354.00	226.40	73.76	1.70	-0.10	1334.50	66.80
355.00	226.76	73.94	1.70	-0.10	1348.73	66.70
356.00	226.58	74.12	1.70	-0.10	1342.88	66.80
357.00	226.58	74.12	1.70	0.40	1342.69	66.80
358.00	226.94	74.48	1.70	-0.10	1355.75	66.80
359.00	226.94	74.12	1.70	-0.10	1333.14	66.90
360.00	227.12	73.94	1.70	-0.10	1349.31	66.90
361.00	227.48	74.30	1.70	-0.10	1337.62	66.80
362.00	227.84	74.12	1.70	-0.10	1347.37	66.90
363.00	228.02	73.94	1.70	-0.10	1319.88	66.90
364.00	228.02	73.94	1.70	-0.10	1344.64	66.80
365.00	228.20	74.48	1.70	-0.10	1314.03	66.80
366.00	228.02	74.12	1.70	-0.10	1330.02	66.70
367.00	228.56	74.66	1.70	-0.10	1315.98	66.80
368.00	228.74	73.94	1.70	-0.10	1346.20	66.80
369.00	228.92	74.30	1.70	-0.10	1336.26	66.80
370.00	228.92	74.48	1.70	-0.10	1344.05	66.70
371.00	228.92	74.48	1.70	-0.10	1350.48	66.90
372.00	229.10	74.48	1.70	-0.10	1333.72	66.90
373.00	228.92	73.94	1.70	-0.10	1341.32	66.80
374.00	229.46	75.02	1.70	-0.10	1342.49	66.80
375.00	229.28	75.20	1.70	-0.10	1355.94	66.90
376.00	229.64	74.30	1.70	-0.10	1331.77	66.90
377.00	229.46	74.30	1.70	-0.10	1355.55	66.90
378.00	230.00	74.48	1.70	-0.10	1328.46	66.90
379.00	230.18	73.94	1.70	-0.10	1364.71	67.00
380.00	230.36	74.12	1.70	-0.10	1323.00	67.00
381.00	230.54	74.12	1.70	-0.10	1365.69	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
382.00	230.54	73.94	1.70	-0.10	1322.81	67.10
383.00	230.72	74.12	1.70	0.40	1340.54	67.10
384.00	230.90	74.48	1.70	-0.10	1332.55	67.10
385.00	231.44	73.58	1.70	-0.10	1347.17	67.10
386.00	231.80	74.12	1.70	-0.10	1338.79	67.10
387.00	232.16	74.30	1.70	-0.10	1343.86	67.10
388.00	232.52	74.66	1.70	-0.10	1326.51	67.10
389.00	232.52	73.94	1.70	-0.10	1340.15	67.10
390.00	233.06	74.48	1.70	-0.10	1319.88	67.00
391.00	233.06	74.48	1.70	-0.10	1332.75	67.00
392.00	233.60	74.12	1.70	-0.10	1327.48	67.00
393.00	233.96	74.12	1.70	-0.10	1330.99	67.00
394.00	233.78	74.12	1.70	-0.10	1362.57	67.00
395.00	234.14	74.48	1.70	-0.10	1334.11	66.90
396.00	234.14	73.76	1.70	-0.10	1344.64	66.80
397.00	234.86	74.30	1.70	-0.10	1325.34	66.80
398.00	234.50	74.12	1.70	-0.10	1355.16	66.80
399.00	235.22	74.12	1.70	-0.10	1335.09	66.70
400.00	235.76	74.12	1.70	-0.10	1364.32	66.70
401.00	235.76	73.76	1.70	-0.10	1338.01	66.70
402.00	235.94	74.30	1.70	-0.10	1356.14	66.70
403.00	235.94	74.48	1.70	-0.10	1315.01	66.70
404.00	236.12	74.30	1.70	-0.10	1344.83	66.60
405.00	235.94	73.58	1.70	-0.10	1339.57	66.60
406.00	236.30	74.30	1.70	-0.10	1340.54	66.60
407.00	235.94	74.48	1.70	-0.10	1326.12	66.70
408.00	236.30	74.48	1.70	-0.10	1323.00	66.70
409.00	236.12	74.48	1.70	0.40	1323.39	66.70
410.00	236.48	74.48	1.70	-0.10	1322.22	66.70
411.00	236.48	73.94	1.70	-0.10	1358.87	66.70
412.00	236.30	74.48	1.70	0.40	1336.06	66.70
413.00	236.84	74.30	1.70	-0.10	1346.39	66.70
414.00	237.02	74.66	1.70	-0.10	1342.30	66.80
415.00	237.74	73.76	1.70	-0.10	1356.14	66.80
416.00	238.64	74.84	1.70	0.40	1327.87	66.80
417.00	238.46	74.30	1.70	-0.10	1344.64	66.80
418.00	239.18	74.30	1.70	-0.10	1328.85	66.80
419.00	239.36	75.02	1.70	-0.10	1340.54	66.90
420.00	239.90	74.30	1.70	-0.10	1327.29	66.90
421.00	240.26	74.48	1.70	-0.10	1341.52	67.00
422.00	240.98	74.30	1.70	-0.10	1332.36	67.00
423.00	240.62	75.02	1.70	-0.10	1355.94	67.00
424.00	240.80	74.12	1.70	-0.10	1344.05	67.00
425.00	240.98	74.30	1.70	-0.10	1329.04	67.00
426.00	240.98	74.12	1.70	-0.10	1351.07	67.00
427.00	241.88	74.12	1.70	-0.10	1336.45	67.00
428.00	241.70	74.30	1.70	-0.10	1351.65	67.00
429.00	242.78	74.30	1.70	-0.10	1339.18	67.00
430.00	242.24	74.66	1.70	-0.10	1345.81	67.00
431.00	242.60	74.30	1.70	-0.10	1327.48	67.10
432.00	242.96	74.66	1.70	-0.10	1345.81	67.20
433.00	243.14	74.48	1.70	-0.10	1338.98	67.20
434.00	243.68	74.48	1.70	-0.10	1345.61	67.20
435.00	244.04	74.30	1.70	-0.10	1327.87	67.20
436.00	244.40	74.30	1.70	-0.10	1347.56	67.10

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
437.00	244.76	73.58	1.70	-0.10	1330.99	67.20
438.00	245.12	73.94	1.70	-0.10	1337.23	67.20
439.00	245.30	74.48	1.70	-0.10	1347.95	67.20
440.00	246.74	75.02	1.70	-0.10	1332.75	67.20
441.00	247.28	75.38	1.70	-0.10	1355.75	67.20
442.00	246.92	74.48	1.70	-0.10	1335.09	67.30
443.00	246.74	74.12	1.70	-0.10	1344.44	67.30
444.00	246.56	74.84	1.70	-0.10	1333.92	67.30
445.00	246.74	74.48	1.70	-0.10	1350.09	67.30
446.00	247.28	75.20	1.70	0.40	1314.81	67.20
447.00	247.28	74.30	1.70	-0.10	1345.42	67.20
448.00	247.28	74.12	1.70	-0.10	1328.07	67.20
449.00	247.28	74.12	1.70	-0.10	1334.70	67.20
450.00	248.00	74.12	1.70	-0.10	1341.32	67.30
451.00	248.00	74.48	1.70	-0.10	1343.47	67.30
452.00	248.72	74.48	1.70	-0.10	1334.31	67.30
453.00	248.72	74.48	1.70	-0.10	1349.90	67.30
454.00	249.44	73.76	1.70	-0.10	1332.75	67.30
455.00	249.62	75.02	1.70	-0.10	1329.63	67.30
456.00	250.34	74.30	1.70	-0.10	1351.26	67.30
457.00	250.88	74.66	1.70	-0.10	1329.24	67.20
458.00	251.06	74.48	1.70	-0.10	1352.04	67.20
459.00	251.42	74.30	1.70	-0.10	1330.41	67.20
460.00	251.42	74.66	1.70	-0.10	1337.62	67.20
461.00	252.32	74.12	1.70	-0.10	1334.11	67.20
462.00	252.32	75.20	1.70	0.40	1344.25	67.10
463.00	252.14	74.12	1.70	-0.10	1336.06	67.20
464.00	253.04	74.30	1.70	-0.10	1337.62	67.10
465.00	252.86	74.48	1.70	-0.10	1341.71	67.10
466.00	253.94	74.84	1.70	0.40	1361.40	66.90
467.00	254.66	74.84	1.70	0.40	1349.31	66.90
468.00	255.74	74.30	1.70	-0.10	1346.59	66.90
469.00	256.46	74.84	1.70	0.40	1355.16	66.90
470.00	255.56	74.12	1.70	-0.10	1339.37	66.90
471.00	255.92	74.48	1.70	0.40	1343.86	66.90
472.00	255.74	74.66	1.70	-0.10	1327.29	67.00
473.00	256.28	74.66	1.70	-0.10	1343.86	67.00
474.00	256.10	74.84	1.70	-0.10	1315.59	67.00
475.00	256.82	74.66	1.70	-0.10	1347.17	66.90
476.00	257.72	75.02	1.70	0.40	1331.19	66.80
477.00	258.62	74.48	1.70	-0.10	1340.74	66.70
478.00	259.16	74.48	1.70	-0.10	1328.26	66.70
479.00	259.52	74.66	1.70	-0.10	1354.97	66.80
480.00	260.06	74.66	1.70	-0.10	1325.53	66.80
481.00	260.06	75.02	1.70	-0.10	1357.70	66.90
482.00	260.60	74.30	1.70	-0.10	1337.03	66.90
483.00	260.42	74.12	1.70	-0.10	1342.88	66.90
484.00	260.42	73.94	1.70	-0.10	1334.50	67.00
485.00	260.24	74.48	1.70	-0.10	1325.73	66.90
486.00	259.88	74.30	1.70	-0.10	1344.64	66.90
487.00	261.14	74.12	1.70	-0.10	1309.55	66.90
488.00	261.14	74.66	1.70	-0.10	1358.48	66.90
489.00	261.68	74.12	1.70	-0.10	1323.00	66.90
490.00	263.12	74.48	1.70	-0.10	1355.75	66.80
491.00	263.84	75.20	1.70	-0.10	1323.20	66.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
492.00	264.20	74.12	1.70	-0.10	1356.53	66.90
493.00	264.56	74.48	1.70	-0.10	1332.94	67.00
494.00	264.92	74.66	1.70	-0.10	1348.92	67.00
495.00	265.28	74.12	1.70	-0.10	1344.44	67.00
496.00	266.54	74.48	1.70	-0.10	1351.46	66.90
497.00	267.44	74.66	1.70	-0.10	1348.54	66.80
498.00	267.98	73.58	1.70	-0.10	1335.48	66.80
499.00	268.70	74.48	1.70	-0.10	1347.95	66.70
500.00	269.42	74.48	1.70	-0.10	1329.24	66.70
501.00	270.32	74.66	1.70	-0.10	1344.05	66.70
502.00	270.32	74.48	1.70	-0.10	1325.14	66.70
503.00	270.86	74.48	1.70	0.40	1340.74	66.70
504.00	271.22	75.20	1.70	-0.10	1315.98	66.70
505.00	270.86	74.66	1.70	0.40	1351.46	66.70
506.00	270.86	74.84	1.70	0.40	1327.68	66.80
507.00	270.14	74.48	1.70	-0.10	1359.45	66.70
508.00	270.86	74.12	1.70	-0.10	1336.84	66.70
509.00	270.32	74.66	1.70	-0.10	1372.90	66.80
510.00	270.68	73.94	1.70	-0.10	1337.81	66.80
511.00	270.68	74.48	1.70	-0.10	1335.87	66.80
512.00	270.50	74.30	1.70	-0.10	1344.05	66.80
513.00	270.68	75.20	1.70	-0.10	1323.39	66.90
514.00	269.78	74.84	1.70	-0.10	1337.23	66.90
515.00	270.14	74.66	1.70	-0.10	1333.92	66.90
516.00	269.60	74.30	1.70	-0.10	1348.73	66.90
517.00	269.60	74.48	1.70	-0.10	1332.16	66.90
518.00	269.06	74.12	1.70	-0.10	1347.56	66.90
519.00	269.24	74.48	1.70	-0.10	1326.51	66.90
520.00	269.06	74.84	1.70	-0.10	1353.21	67.00
521.00	269.06	73.94	1.70	-0.10	1331.19	67.00
522.00	269.06	73.94	1.70	-0.10	1347.76	67.00
523.00	269.06	74.12	1.70	-0.10	1343.47	67.00
524.00	268.88	74.48	1.70	-0.10	1340.93	67.00
525.00	269.24	74.48	1.70	-0.10	1351.65	66.80
526.00	269.06	74.30	1.70	-0.10	1348.73	66.80
527.00	269.06	74.48	1.70	-0.10	1344.25	66.80
528.00	269.06	73.76	1.70	-0.10	1340.35	66.80
529.00	268.88	74.48	1.70	-0.10	1336.65	66.70
530.00	268.52	74.48	1.70	-0.10	1336.06	66.70
531.00	269.06	74.66	1.70	-0.10	1334.31	66.70
532.00	268.70	73.76	1.70	-0.10	1332.55	66.70
533.00	269.06	74.48	1.70	-0.10	1344.44	66.60
534.00	268.88	74.66	1.70	-0.10	1331.77	66.70
535.00	269.06	74.48	1.70	-0.10	1342.10	66.60
536.00	269.42	74.48	1.70	-0.10	1333.72	66.60
537.00	269.24	73.58	1.70	-0.10	1352.82	66.60
538.00	269.96	74.48	1.70	-0.10	1341.91	66.60
539.00	269.24	74.30	1.70	-0.10	1359.45	66.60
540.00	269.78	75.02	1.70	-0.10	1334.11	66.70
541.00	269.60	74.48	1.70	-0.10	1348.92	66.70
542.00	269.96	74.30	1.70	-0.10	1325.14	66.80
543.00	270.14	74.48	1.70	-0.10	1337.03	66.80
544.00	270.68	74.84	1.70	-0.10	1328.85	66.70
545.00	269.96	74.66	1.70	-0.10	1337.62	66.70
546.00	270.14	74.66	1.70	-0.10	1342.69	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
547.00	270.32	74.30	1.70	-0.10	1323.98	66.80
548.00	270.14	74.30	1.70	-0.10	1338.59	66.70
549.00	270.68	74.30	1.70	-0.10	1330.02	66.80
550.00	270.68	74.66	1.70	-0.10	1351.26	66.80
551.00	271.40	74.12	1.70	-0.10	1338.79	66.80
552.00	271.40	74.84	1.70	-0.10	1342.30	66.70
553.00	271.40	74.12	1.70	-0.10	1336.26	66.60
554.00	271.94	74.30	1.70	-0.10	1367.83	66.60
555.00	272.12	74.48	1.70	-0.10	1330.99	66.60
556.00	272.66	74.66	1.70	-0.10	1355.16	66.60
557.00	272.84	74.30	1.70	-0.10	1328.65	66.70
558.00	273.02	74.84	1.70	-0.10	1326.51	66.70
559.00	273.02	74.48	1.70	-0.10	1323.59	66.70
560.00	272.84	74.48	1.70	-0.10	1333.14	66.70
561.00	273.02	74.12	1.70	-0.10	1340.54	66.70
562.00	273.02	74.30	1.70	-0.10	1350.48	66.60
563.00	273.56	74.48	1.70	-0.10	1337.23	66.70
564.00	273.38	74.84	1.70	-0.10	1346.98	66.80
565.00	274.28	73.94	1.70	-0.10	1337.03	66.90
566.00	273.92	75.20	1.70	-0.10	1332.75	67.00
567.00	274.46	74.12	1.70	-0.10	1346.20	66.80
568.00	274.82	74.48	1.70	-0.10	1341.13	66.80
569.00	275.00	73.76	1.70	-0.10	1358.09	66.80
570.00	275.54	74.66	1.70	-0.10	1324.76	66.80
571.00	274.82	74.30	1.70	-0.10	1348.34	66.90
572.00	275.36	74.30	1.70	-0.10	1345.81	66.90
573.00	275.00	74.66	1.70	-0.10	1345.81	66.90
574.00	275.18	74.48	1.60	-0.10	1327.87	66.90
575.00	275.00	74.12	1.70	-0.10	1333.53	67.10
576.00	275.00	74.30	1.70	-0.10	1342.49	67.10
577.00	275.54	74.30	1.70	-0.10	1337.03	67.10
578.00	275.00	74.48	1.70	-0.10	1336.06	67.10
579.00	275.54	74.66	1.70	-0.10	1341.32	67.00
580.00	275.54	74.84	1.70	-0.10	1363.54	67.10
581.00	276.26	74.48	1.70	-0.10	1329.82	67.10
582.00	276.44	74.66	1.70	-0.10	1357.11	67.00
583.00	276.44	74.66	1.70	-0.10	1327.48	67.00
584.00	276.62	74.48	1.70	-0.10	1360.23	67.00
585.00	276.80	74.12	1.70	-0.10	1314.81	67.10
586.00	277.34	74.48	1.70	-0.10	1342.69	67.20
587.00	277.34	74.66	1.70	-0.10	1326.90	67.20
588.00	277.34	74.30	1.70	-0.10	1339.18	67.10
589.00	277.34	74.66	1.70	-0.10	1326.31	67.10
590.00	277.70	74.12	1.70	-0.10	1343.86	67.00
591.00	277.88	75.02	1.70	-0.10	1342.69	67.10
592.00	277.70	74.48	1.70	-0.10	1348.54	67.10
593.00	278.06	74.66	1.70	-0.10	1333.92	67.10
594.00	277.88	74.48	1.70	-0.10	1343.66	67.00
595.00	278.42	75.02	1.70	-0.10	1349.90	67.00
596.00	278.24	73.94	1.70	-0.10	1335.67	67.10
597.00	278.96	74.66	1.70	-0.10	1360.04	67.20
598.00	278.96	74.66	1.70	-0.10	1336.45	67.20
599.00	278.78	74.84	1.70	-0.10	1353.60	67.20
600.00	278.78	74.12	1.70	-0.10	1321.64	67.10
601.00	278.78	74.30	1.70	-0.10	1351.46	67.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
602.00	278.78	74.30	1.70	-0.10	1319.49	67.20
603.00	278.24	74.30	1.70	-0.10	1359.06	67.10
604.00	278.42	74.30	1.70	-0.10	1325.73	67.10
605.00	278.24	74.66	1.70	-0.10	1344.83	67.10
606.00	278.42	74.48	1.70	-0.10	1343.47	67.20
607.00	278.42	74.12	1.70	-0.10	1337.23	67.10
608.00	278.60	74.12	1.70	-0.10	1355.75	67.10
609.00	278.96	74.30	1.70	-0.10	1351.26	67.00
610.00	279.32	74.84	1.70	-0.10	1347.37	67.00
611.00	279.68	75.02	1.70	-0.10	1333.53	67.00
612.00	279.50	73.94	1.70	-0.10	1344.25	67.00
613.00	279.86	74.48	1.70	-0.10	1325.73	66.90
614.00	279.68	74.48	1.70	-0.10	1344.44	66.90
615.00	279.86	74.30	1.70	-0.10	1323.98	66.90
616.00	280.76	74.84	1.70	-0.10	1364.91	66.90
617.00	280.40	74.30	1.70	-0.10	1325.14	66.90
618.00	280.40	74.48	1.70	-0.10	1353.21	66.90
619.00	280.58	74.30	1.70	-0.10	1331.77	66.80
620.00	280.94	74.84	1.70	-0.10	1359.06	66.80
621.00	281.30	75.02	1.70	-0.10	1338.79	66.80
622.00	281.48	74.12	1.70	-0.10	1335.67	66.70
623.00	281.84	74.12	1.70	-0.10	1341.71	66.70
624.00	281.30	73.94	1.70	-0.10	1337.62	66.80
625.00	282.20	73.94	1.70	-0.10	1346.78	66.90
626.00	282.38	74.48	1.70	-0.10	1330.99	66.90
627.00	282.38	74.48	1.70	-0.10	1340.35	66.80
628.00	282.92	74.66	1.70	-0.10	1327.87	66.90
629.00	282.56	74.48	1.70	-0.10	1340.15	66.90
630.00	283.10	74.66	1.70	-0.10	1313.25	66.90
631.00	282.74	74.48	1.70	-0.10	1346.39	66.90
632.00	283.10	74.48	1.70	-0.10	1319.10	66.80
633.00	282.74	75.02	1.70	-0.10	1354.97	66.90
634.00	283.10	74.48	1.70	-0.10	1326.70	66.90
635.00	282.92	74.66	1.70	-0.10	1355.16	66.90
636.00	283.10	74.48	1.70	-0.10	1345.81	66.90
637.00	283.64	74.66	1.70	-0.10	1356.92	66.80
638.00	283.46	74.30	1.70	-0.10	1348.54	66.80
639.00	284.00	74.48	1.70	-0.10	1348.73	66.80
640.00	284.00	74.84	1.70	-0.10	1336.26	66.80
641.00	284.00	74.84	1.70	-0.10	1337.81	66.70
642.00	284.54	75.02	1.70	-0.10	1328.85	66.70
643.00	284.36	74.48	1.70	-0.10	1325.34	66.70
644.00	284.36	74.48	1.70	-0.10	1344.83	66.70
645.00	284.00	74.66	1.70	-0.10	1328.46	66.80
646.00	284.18	74.48	1.70	-0.10	1351.65	66.80
647.00	284.00	74.48	1.70	-0.10	1330.60	66.80
648.00	284.00	74.30	1.70	-0.10	1354.58	66.70
649.00	284.54	74.66	1.70	-0.10	1338.59	66.70
650.00	284.00	74.12	1.70	-0.10	1362.96	66.70
651.00	284.90	73.94	1.70	-0.10	1344.05	66.70
652.00	284.72	74.48	1.70	-0.10	1352.43	66.70
653.00	285.26	74.48	1.70	-0.10	1332.75	66.70
654.00	285.44	74.66	1.70	-0.10	1345.03	66.70
655.00	285.26	75.02	1.70	-0.10	1347.95	66.60
656.00	285.80	74.48	1.70	-0.10	1352.43	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
657.00	285.80	75.02	1.70	-0.10	1327.87	66.70
658.00	286.34	75.02	1.70	-0.10	1310.92	66.70
659.00	286.16	74.48	1.70	-0.10	1314.81	66.80
660.00	286.52	74.66	1.70	-0.10	1312.09	66.80
661.00	286.70	74.84	1.70	-0.10	1335.48	66.80
662.00	286.70	74.84	1.70	-0.10	1339.18	66.80
663.00	286.88	75.02	1.70	-0.10	1361.98	66.80
664.00	286.88	74.84	1.70	-0.10	1338.40	66.70
665.00	287.42	74.66	1.70	-0.10	1357.70	66.80
666.00	287.78	74.66	1.70	-0.10	1339.96	66.70
667.00	288.14	74.66	1.70	-0.10	1348.92	66.70
668.00	288.14	74.30	1.70	-0.10	1339.57	66.80
669.00	288.14	74.12	1.70	-0.10	1354.97	66.80
670.00	288.50	74.48	1.70	-0.10	1337.81	66.80
671.00	288.32	74.48	1.70	-0.10	1340.35	66.80
672.00	288.68	74.48	1.70	-0.10	1333.33	66.80
673.00	289.22	74.84	1.70	-0.10	1340.15	66.80
674.00	288.68	74.48	1.70	-0.10	1331.58	66.90
675.00	289.04	74.30	1.70	-0.10	1346.59	66.90
676.00	288.86	74.66	1.70	-0.10	1332.94	66.90
677.00	289.40	74.12	1.70	-0.10	1332.55	66.80
678.00	289.40	74.66	1.70	-0.10	1362.37	66.80
679.00	289.58	74.84	1.70	-0.10	1310.53	66.80
680.00	290.12	74.12	1.70	-0.10	1360.62	66.90
681.00	289.94	74.66	1.70	-0.10	1339.37	66.90
682.00	290.48	74.84	1.70	-0.10	1342.49	66.90
683.00	290.48	75.02	1.70	-0.10	1337.62	66.90
684.00	290.48	74.48	1.70	-0.10	1358.87	66.80
685.00	290.84	74.66	1.70	-0.10	1318.71	66.90
686.00	290.66	74.66	1.70	-0.10	1341.32	66.90
687.00	291.20	74.66	1.70	-0.10	1329.43	67.00
688.00	291.02	74.66	1.70	-0.10	1330.60	66.90
689.00	291.38	74.66	1.70	-0.10	1334.70	67.00
690.00	291.02	74.66	1.70	-0.10	1342.69	67.00
691.00	290.84	74.12	1.70	-0.10	1346.39	67.00
692.00	290.66	74.48	1.70	-0.10	1343.27	67.00
693.00	290.66	75.02	1.70	-0.10	1347.95	67.00
694.00	291.38	75.20	1.70	-0.10	1325.53	67.00
695.00	291.20	74.48	1.70	-0.10	1357.11	67.00
696.00	291.38	74.48	1.70	-0.10	1335.87	67.00
697.00	291.02	75.02	1.70	-0.10	1354.38	67.00
698.00	291.38	74.48	1.60	-0.10	1319.30	67.00
699.00	291.38	74.84	1.70	-0.10	1346.59	67.00
700.00	290.84	74.66	1.70	-0.10	1316.76	67.00
701.00	290.84	75.20	1.70	-0.10	1347.17	67.00
702.00	290.30	75.02	1.70	-0.10	1329.63	66.80
703.00	290.30	74.66	1.70	-0.10	1351.26	66.80
704.00	289.94	75.20	1.70	-0.10	1326.51	66.90
705.00	289.76	74.66	1.70	-0.10	1334.31	66.90
706.00	290.30	74.66	1.70	-0.10	1338.01	66.90
707.00	289.94	75.02	1.70	-0.10	1340.15	66.90
708.00	290.48	74.48	1.70	-0.10	1365.88	66.90
709.00	290.30	74.48	1.70	-0.10	1340.35	67.00
710.00	290.48	74.48	1.70	-0.10	1353.21	67.00
711.00	290.48	74.84	1.70	-0.10	1337.81	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
712.00	290.30	74.48	1.70	-0.10	1347.95	67.00
713.00	290.48	74.84	1.70	-0.10	1318.32	67.00
714.00	290.30	74.66	1.70	-0.10	1338.98	67.00
715.00	290.84	74.48	1.70	-0.10	1313.45	67.00
716.00	290.84	75.02	1.70	-0.10	1348.92	67.00
717.00	291.02	74.66	1.70	-0.10	1324.95	67.00
718.00	291.56	75.02	1.70	-0.10	1353.60	67.00
719.00	291.56	74.66	1.70	-0.10	1338.01	67.10
720.00	291.92	74.66	1.70	-0.10	1353.21	67.10
721.00	291.74	75.02	1.70	-0.10	1339.37	67.20
722.00	292.28	74.48	1.70	-0.10	1360.81	67.20
723.00	291.74	74.84	1.70	-0.10	1337.81	67.20
724.00	292.28	74.48	1.70	-0.10	1332.75	67.20
725.00	292.46	74.84	1.70	-0.10	1339.18	67.20
726.00	292.46	74.84	1.70	-0.10	1327.48	67.20
727.00	292.64	74.66	1.70	-0.10	1345.61	67.20
728.00	292.46	74.84	1.70	-0.10	1340.54	67.20
729.00	292.64	74.66	1.70	-0.10	1346.20	67.20
730.00	293.00	74.66	1.70	-0.10	1333.33	67.10
731.00	292.64	74.48	1.70	-0.10	1366.27	67.10
732.00	293.18	74.66	1.70	-0.10	1335.28	67.10
733.00	293.00	74.66	1.70	-0.10	1353.02	67.00
734.00	293.54	74.66	1.70	-0.10	1344.05	66.80
735.00	293.36	75.02	1.70	-0.10	1349.31	66.80
736.00	293.54	74.84	1.70	-0.10	1330.99	66.70
737.00	293.90	74.66	1.70	-0.10	1346.98	66.70
738.00	293.54	75.38	1.70	-0.10	1337.03	66.70
739.00	294.08	75.02	1.70	-0.10	1346.59	66.80
740.00	293.54	74.66	1.70	-0.10	1332.36	66.80
741.00	294.08	74.84	1.70	-0.10	1325.14	66.90
742.00	294.08	74.84	1.70	-0.10	1332.55	66.90
743.00	294.26	74.48	1.70	-0.10	1326.12	66.90
744.00	294.08	74.84	1.70	-0.10	1354.38	67.00
745.00	294.08	75.74	1.70	-0.10	1324.95	67.00
746.00	294.26	74.48	1.70	-0.10	1343.86	67.00
747.00	294.26	74.30	1.70	-0.10	1344.83	67.10
748.00	294.44	75.02	1.70	-0.10	1347.17	67.10
749.00	294.62	75.02	1.70	-0.10	1329.82	67.10
750.00	294.80	75.02	1.70	-0.10	1363.74	67.10
751.00	294.98	74.84	1.70	-0.10	1341.13	67.20
752.00	294.62	74.48	1.70	-0.10	1336.45	67.10
753.00	294.80	74.30	1.70	-0.10	1329.82	67.10
754.00	294.62	75.02	1.70	-0.10	1328.07	67.10
755.00	294.80	74.66	1.70	-0.10	1343.86	67.10
756.00	294.44	74.66	1.70	-0.10	1326.12	67.00
757.00	294.44	74.66	1.70	-0.10	1340.15	66.90
758.00	294.98	74.84	1.70	-0.10	1328.07	66.90
759.00	294.44	74.84	1.70	-0.10	1339.37	67.00
760.00	294.62	74.66	1.70	-0.10	1330.02	67.00
761.00	294.62	74.84	1.70	-0.10	1354.77	67.00
762.00	294.80	74.66	1.70	-0.10	1336.26	67.10
763.00	295.34	74.84	1.70	-0.10	1359.06	67.10
764.00	295.16	74.66	1.70	-0.10	1333.14	67.10
765.00	295.52	74.84	1.70	-0.10	1361.98	67.10
766.00	294.98	75.02	1.70	-0.10	1325.73	67.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
767.00	295.52	74.48	1.70	-0.10	1344.44	67.10
768.00	295.52	75.20	1.70	-0.10	1325.92	67.10
769.00	295.34	74.66	1.70	-0.10	1337.62	67.10
770.00	295.70	74.84	1.70	-0.10	1326.31	67.00
771.00	295.52	74.84	1.70	-0.10	1325.92	67.00
772.00	295.52	74.48	1.70	-0.10	1331.38	67.00
773.00	295.16	75.02	1.70	-0.10	1343.66	66.90
774.00	295.52	75.02	1.70	-0.10	1342.10	66.90
775.00	295.52	74.66	1.70	-0.10	1349.51	66.90
776.00	295.70	74.66	1.70	-0.10	1347.56	66.90
777.00	296.06	75.02	1.70	-0.10	1339.37	66.90
778.00	295.70	74.66	1.70	-0.10	1345.22	67.00
779.00	295.88	74.12	1.70	-0.10	1339.57	67.00
780.00	296.06	74.66	1.70	-0.10	1348.54	67.00
781.00	296.24	74.84	1.70	-0.10	1325.73	67.00
782.00	296.60	75.02	1.70	-0.10	1342.88	67.00
783.00	296.24	75.02	1.70	-0.10	1318.13	67.10
784.00	296.42	75.20	1.70	-0.10	1346.20	67.10
785.00	296.06	75.02	1.70	-0.10	1323.98	67.20
786.00	296.42	75.20	1.70	-0.10	1343.86	67.10
787.00	296.42	75.02	1.70	-0.10	1321.44	67.10
788.00	296.42	74.84	1.70	-0.10	1321.64	67.10
789.00	297.14	74.84	1.70	-0.10	1325.34	67.10
790.00	296.42	74.48	1.70	-0.10	1311.89	67.00
791.00	296.60	74.66	1.70	-0.10	1351.26	67.10
792.00	296.60	74.66	1.70	-0.10	1323.78	67.10
793.00	296.78	74.66	1.70	-0.10	1357.50	67.10
794.00	296.96	75.02	1.70	-0.10	1313.06	67.20
795.00	296.60	74.48	1.70	-0.10	1338.98	67.20
796.00	296.60	75.20	1.70	-0.10	1325.73	67.20
797.00	296.42	75.02	1.70	-0.10	1344.83	67.20
798.00	296.60	74.66	1.70	-0.10	1323.78	67.10
799.00	296.60	75.20	1.70	-0.10	1320.66	67.10
800.00	296.60	74.48	1.70	-0.10	1323.59	67.00
801.00	296.60	74.66	1.70	-0.10	1334.11	66.90
802.00	296.42	75.02	1.70	-0.10	1340.15	66.80
803.00	297.14	74.48	1.70	-0.10	1354.19	66.80
804.00	296.96	75.02	1.70	-0.10	1335.28	66.80
805.00	296.78	74.66	1.70	-0.10	1345.81	66.80
806.00	296.96	74.66	1.70	-0.10	1342.49	66.80
807.00	296.60	75.56	1.70	-0.10	1338.79	66.80
808.00	296.96	74.48	1.70	-0.10	1342.30	66.80
809.00	296.60	74.84	1.70	-0.10	1331.38	66.80
810.00	296.60	74.48	1.70	-0.10	1340.93	66.80
811.00	296.42	75.20	1.70	-0.10	1325.73	66.70
812.00	296.42	74.66	1.70	-0.10	1336.06	66.70
813.00	296.96	75.02	1.70	-0.10	1304.48	66.60
814.00	296.06	74.30	1.70	-0.10	1330.21	66.60
815.00	296.60	74.66	1.70	-0.10	1309.94	66.60
816.00	296.42	75.02	1.70	-0.10	1348.54	66.60
817.00	296.78	74.48	1.70	-0.10	1338.79	66.60
818.00	296.96	75.20	1.70	-0.10	1336.65	66.60
819.00	296.78	74.66	1.70	-0.10	1342.88	66.70
820.00	296.96	75.02	1.70	-0.10	1347.76	66.80
821.00	296.60	73.94	1.70	-0.10	1335.28	66.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
822.00	296.96	74.66	1.70	-0.10	1332.94	67.00
823.00	296.78	75.20	1.70	-0.10	1328.85	67.00
824.00	296.42	74.48	1.70	-0.10	1318.32	67.00
825.00	296.96	75.38	1.70	-0.10	1320.08	67.00
826.00	296.60	74.66	1.70	-0.10	1328.07	66.90
827.00	296.96	74.84	1.70	-0.10	1339.18	66.90
828.00	296.60	74.84	1.70	-0.10	1332.16	66.90
829.00	296.96	74.66	1.70	-0.10	1329.04	66.90
830.00	296.96	75.20	1.70	-0.10	1302.34	66.90
831.00	296.96	74.66	1.70	-0.10	1322.42	66.90
832.00	297.14	74.30	1.70	-0.10	1321.44	67.00
833.00	297.14	74.84	1.70	-0.10	1321.64	67.00
834.00	297.50	74.66	1.70	-0.10	1302.34	67.00
835.00	297.50	74.48	1.70	-0.10	1349.12	67.00
836.00	297.32	74.66	1.70	-0.10	1334.50	66.90
837.00	297.14	74.84	1.70	-0.10	1348.92	66.90
838.00	296.96	74.84	1.70	-0.10	1330.60	66.80
839.00	297.50	75.02	1.70	-0.10	1343.08	66.70
840.00	296.96	75.02	1.70	-0.10	1326.12	66.80
841.00	296.96	74.48	1.70	-0.10	1330.41	66.80
842.00	297.14	74.84	1.70	-0.10	1307.21	66.90
843.00	296.96	74.84	1.70	-0.10	1331.19	67.00
844.00	297.50	74.84	1.70	-0.10	1322.61	67.10
845.00	297.14	75.02	1.70	-0.10	1335.28	67.00
846.00	297.14	74.48	1.70	-0.10	1330.02	66.90
847.00	296.78	75.74	1.70	-0.10	1328.46	67.00
848.00	297.68	74.84	1.70	-0.10	1314.03	67.10
849.00	297.50	75.02	1.70	-0.10	1321.05	67.20
850.00	297.14	74.48	1.70	-0.10	1322.61	67.20
851.00	297.14	74.66	1.70	-0.10	1300.78	67.20
852.00	297.14	75.02	1.70	-0.10	1325.14	67.20
853.00	297.14	74.84	1.70	-0.10	1310.14	67.20
854.00	297.50	75.02	1.70	-0.10	1353.60	67.20
855.00	296.78	74.48	1.70	-0.10	1333.72	67.30
856.00	297.14	74.66	1.70	-0.10	1347.37	67.30
857.00	296.78	74.84	1.70	-0.10	1322.22	67.20
858.00	296.96	74.48	1.70	-0.10	1337.23	67.20
859.00	297.14	75.20	1.70	-0.10	1310.72	67.20
860.00	296.78	74.66	1.70	-0.10	1332.94	67.20
861.00	296.96	74.84	1.70	-0.10	1310.92	67.20
862.00	296.60	74.48	1.70	-0.10	1342.69	67.30
863.00	296.96	74.84	1.70	-0.10	1323.39	67.40
864.00	296.96	75.20	1.70	-0.10	1335.28	67.30
865.00	296.78	74.66	1.70	-0.10	1300.20	67.30
866.00	296.96	74.66	1.70	-0.10	1323.59	67.20
867.00	296.60	74.48	1.70	-0.10	1311.11	67.20
868.00	296.60	74.84	1.70	-0.10	1326.31	67.30
869.00	296.60	74.66	1.70	-0.10	1327.09	67.30
870.00	296.60	74.66	1.70	-0.10	1341.52	67.30
871.00	296.60	74.48	1.70	-0.10	1310.33	67.30
872.00	296.60	75.20	1.70	-0.10	1332.36	67.40
873.00	296.60	75.02	1.70	-0.10	1316.57	67.30
874.00	296.96	74.48	1.70	-0.10	1331.97	67.20

Ignitibility Testing: Drilling into Steel Plate, 1 cc/min Flammable, no purge, 2nd run,
8/30/94

File Name: Run06_5b

Time(Sec)	Bittemp(F)	Prg Temp(F)	Bdepth(in)	Purge(psi)	Dfrcf(lbs)	Rotat(RPM)
0.00	98.24	73.40	0.00	-0.10	1347.56	68.50
1.00	95.72	72.50	0.00	-0.10	1336.84	68.50
2.00	98.42	72.68	0.00	-0.10	1307.41	68.50
3.00	103.28	72.50	0.10	-0.10	1229.05	68.30
4.00	98.96	74.30	0.10	-0.10	1237.24	68.30
5.00	97.88	73.40	0.10	-0.10	1285.97	67.90
6.00	97.34	73.04	0.20	-0.10	1336.06	67.60
7.00	97.70	72.68	0.20	-0.10	1336.84	67.50
8.00	98.78	71.60	0.20	-0.10	1345.61	67.50
9.00	99.50	72.50	0.30	-0.10	1320.27	67.50
10.00	100.58	73.22	0.30	-0.10	1377.19	67.40
11.00	101.84	73.04	0.30	-0.10	1337.81	67.40
12.00	102.74	72.68	0.30	-0.10	1359.26	67.50
13.00	103.82	73.04	0.40	-0.10	1335.09	67.50
14.00	104.54	72.68	0.40	-0.10	1357.70	67.50
15.00	105.44	73.94	0.50	-0.10	1328.65	67.50
16.00	106.16	73.04	0.50	-0.10	1350.87	67.50
17.00	106.70	73.04	0.50	-0.10	1344.25	67.50
18.00	107.06	72.68	0.50	-0.10	1353.02	67.40
19.00	107.42	72.14	0.50	-0.10	1345.81	67.50
20.00	108.14	72.68	0.50	-0.10	1353.02	67.50
21.00	108.86	72.68	0.50	-0.10	1332.94	67.50
22.00	108.86	73.40	0.50	-0.10	1366.08	67.40
23.00	109.76	73.04	0.50	-0.10	1348.54	67.50
24.00	110.30	73.04	0.50	-0.10	1363.35	67.60
25.00	110.48	72.14	0.50	-0.10	1342.69	67.50
26.00	110.66	73.58	0.50	-0.10	1365.88	67.40
27.00	111.20	73.22	0.50	-0.10	1321.64	67.40
28.00	111.38	73.04	0.50	-0.10	1352.24	67.30
29.00	112.46	73.40	0.50	-0.10	1343.86	67.30
30.00	112.82	72.86	0.50	-0.10	1340.74	67.10
31.00	113.00	73.22	0.50	-0.10	1349.70	67.10
32.00	113.54	73.04	0.50	-0.10	1336.65	67.20
33.00	113.72	72.68	0.50	-0.10	1360.62	67.20
34.00	114.08	72.50	0.50	-0.10	1332.75	67.30
35.00	114.62	72.86	0.50	-0.10	1351.65	67.20
36.00	114.80	73.04	0.50	-0.10	1342.88	67.20
37.00	115.34	72.68	0.50	-0.10	1353.60	67.10
38.00	115.70	73.04	0.50	-0.10	1336.26	67.00
39.00	116.06	73.04	0.50	-0.10	1353.41	66.90
40.00	116.06	72.50	0.50	-0.10	1339.96	67.00
41.00	116.42	72.68	0.50	-0.10	1376.99	67.00
42.00	116.78	73.40	0.50	-0.10	1353.41	67.10
43.00	116.96	72.32	0.50	-0.10	1350.48	67.10
44.00	117.50	73.04	0.50	-0.10	1342.49	67.10
45.00	117.32	72.68	0.50	-0.10	1339.18	67.20
46.00	118.04	73.76	0.50	-0.10	1353.21	67.20
47.00	118.04	73.04	0.50	-0.10	1355.16	67.20
48.00	118.58	73.40	0.50	-0.10	1358.87	67.10
49.00	119.12	73.04	0.50	-0.10	1325.53	67.10
50.00	119.30	72.68	0.50	-0.10	1343.86	67.10
51.00	119.66	73.58	0.50	-0.10	1350.09	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	119.30	72.50	0.50	-0.10	1346.59	67.10
53.00	119.84	72.86	0.50	-0.10	1336.84	67.10
54.00	120.02	73.40	0.50	-0.10	1347.95	67.10
55.00	120.38	72.86	0.50	0.40	1372.71	67.10
56.00	120.92	73.40	0.50	-0.10	1372.51	67.10
57.00	120.56	73.22	0.50	-0.10	1329.04	67.20
58.00	121.28	73.40	0.50	-0.10	1356.14	67.20
59.00	121.28	73.58	0.50	-0.10	1321.05	67.30
60.00	121.82	73.58	0.50	0.40	1360.62	67.30
61.00	122.00	73.04	0.50	-0.10	1324.56	67.20
62.00	122.18	72.68	0.50	-0.10	1348.15	67.20
63.00	122.54	73.58	0.50	-0.10	1341.32	67.30
64.00	122.54	73.04	0.50	-0.10	1343.47	67.40
65.00	123.26	73.04	0.50	-0.10	1331.58	67.60
66.00	123.26	73.58	0.50	-0.10	1349.12	67.60
67.00	123.44	73.40	0.50	-0.10	1338.40	67.70
68.00	123.80	73.04	0.50	-0.10	1351.07	67.80
69.00	123.80	73.04	0.50	-0.10	1333.53	67.80
70.00	123.98	73.22	0.50	-0.10	1354.77	67.80
71.00	124.34	73.04	0.50	-0.10	1344.44	67.70
72.00	124.70	72.68	0.50	-0.10	1355.16	67.70
73.00	125.24	73.04	0.50	0.40	1340.93	67.80
74.00	124.34	73.40	0.50	-0.10	1358.67	67.80
75.00	125.60	73.76	0.50	-0.10	1355.36	67.80
76.00	125.42	73.22	0.50	-0.10	1343.47	67.70
77.00	125.60	73.94	0.50	0.40	1352.63	67.70
78.00	125.78	72.68	0.50	-0.10	1343.27	67.70
79.00	126.32	73.04	0.50	-0.10	1344.44	67.70
80.00	126.32	73.40	0.50	-0.10	1350.68	67.70
81.00	126.32	73.22	0.50	-0.10	1345.22	67.70
82.00	127.04	72.86	0.50	-0.10	1338.79	67.70
83.00	126.68	72.50	0.50	-0.10	1350.68	67.70
84.00	127.58	73.22	0.50	-0.10	1335.87	67.70
85.00	127.76	73.40	0.50	-0.10	1355.94	67.60
86.00	127.76	72.68	0.50	-0.10	1332.16	67.60
87.00	127.76	73.58	0.50	-0.10	1354.19	67.60
88.00	127.94	72.68	0.50	-0.10	1338.59	67.60
89.00	128.66	72.86	0.50	-0.10	1358.28	67.70
90.00	128.48	73.58	0.50	-0.10	1339.18	67.70
91.00	129.02	73.94	0.50	0.40	1354.58	67.70
92.00	128.84	73.40	0.50	-0.10	1342.10	67.60
93.00	129.02	73.40	0.50	-0.10	1352.63	67.60
94.00	129.56	73.04	0.50	-0.10	1328.46	67.70
95.00	129.38	73.04	0.50	-0.10	1366.86	67.70
96.00	129.74	73.22	0.50	-0.10	1342.10	67.70
97.00	129.74	73.04	0.50	-0.10	1348.15	67.60
98.00	129.92	73.40	0.50	-0.10	1338.79	67.60
99.00	130.28	73.04	0.50	-0.10	1349.51	67.60
100.00	130.46	73.22	0.50	-0.10	1343.86	67.50
101.00	131.00	73.40	0.50	0.40	1342.88	67.40
102.00	130.46	73.40	0.50	-0.10	1346.78	67.30
103.00	131.18	73.40	0.50	-0.10	1347.95	67.20
104.00	131.18	73.40	0.50	-0.10	1370.56	67.10
105.00	131.18	73.58	0.50	-0.10	1360.81	67.20
106.00	131.72	73.04	0.50	0.40	1360.04	67.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	131.90	74.12	0.50	-0.10	1343.66	67.20
108.00	132.44	73.76	0.50	-0.10	1334.70	67.20
109.00	132.08	73.58	0.50	-0.10	1342.88	67.30
110.00	132.08	73.58	0.50	-0.10	1355.36	67.30
111.00	132.62	73.94	0.50	-0.10	1338.20	67.30
112.00	132.26	73.58	0.50	-0.10	1364.32	67.20
113.00	133.16	73.40	0.50	-0.10	1333.14	67.10
114.00	132.98	73.40	0.50	-0.10	1344.83	67.10
115.00	133.16	72.32	0.50	-0.10	1349.12	67.10
116.00	133.16	73.94	0.50	-0.10	1359.65	67.20
117.00	133.52	73.04	0.50	-0.10	1327.48	67.30
118.00	134.78	73.58	0.50	-0.10	1367.05	67.40
119.00	133.88	73.58	0.50	-0.10	1326.51	67.40
120.00	134.24	73.40	0.50	-0.10	1357.11	67.50
121.00	134.06	73.76	0.50	0.40	1328.26	67.50
122.00	134.24	73.04	0.50	-0.10	1363.54	67.50
123.00	134.96	73.40	0.50	-0.10	1338.59	67.50
124.00	134.42	73.22	0.50	-0.10	1340.35	67.50
125.00	134.96	73.58	0.50	-0.10	1337.42	67.50
126.00	134.96	73.94	0.50	-0.10	1335.87	67.50
127.00	135.32	73.04	0.50	-0.10	1339.18	67.50
128.00	135.14	73.94	0.50	-0.10	1325.34	67.50
129.00	134.96	72.86	0.50	-0.10	1354.19	67.50
130.00	135.68	73.40	0.50	-0.10	1354.38	67.50
131.00	135.68	73.40	0.50	-0.10	1344.83	67.50
132.00	136.22	73.22	0.50	-0.10	1337.62	67.50
133.00	136.04	73.40	0.50	-0.10	1333.72	67.50
134.00	136.22	73.40	0.50	-0.10	1341.52	67.50
135.00	136.58	73.40	0.50	0.40	1353.41	67.50
136.00	136.22	73.94	0.50	-0.10	1348.15	67.50
137.00	136.94	73.94	0.50	-0.10	1348.15	67.60
138.00	136.94	73.04	0.50	-0.10	1329.43	67.60
139.00	136.94	73.40	0.50	-0.10	1343.86	67.70
140.00	137.30	73.94	0.60	0.40	1337.23	67.70
141.00	137.30	73.58	0.60	-0.10	1361.98	67.70
142.00	137.66	73.58	0.60	0.40	1331.19	67.70
143.00	137.12	73.04	0.60	0.40	1361.59	67.70
144.00	137.84	73.58	0.60	-0.10	1327.48	67.70
145.00	137.48	74.48	0.60	0.40	1379.92	67.60
146.00	137.66	73.58	0.60	-0.10	1347.37	67.60
147.00	138.38	73.58	0.60	-0.10	1360.81	67.60
148.00	138.02	73.76	0.60	-0.10	1338.79	67.60
149.00	138.56	73.58	0.60	-0.10	1348.54	67.50
150.00	138.20	73.58	0.60	-0.10	1336.45	67.60
151.00	138.56	73.58	0.60	-0.10	1343.27	67.70
152.00	138.56	73.40	0.60	-0.10	1347.56	67.70
153.00	138.74	72.50	0.60	-0.10	1348.34	67.60
154.00	139.28	73.58	0.60	-0.10	1360.23	67.60
155.00	139.10	73.76	0.60	-0.10	1348.15	67.60
156.00	139.28	73.94	0.60	-0.10	1355.36	67.60
157.00	139.28	74.12	0.60	-0.10	1341.32	67.60
158.00	139.64	73.76	0.60	-0.10	1350.29	67.50
159.00	139.82	73.94	0.60	-0.10	1333.33	67.50
160.00	139.64	73.58	0.60	-0.10	1361.20	67.50
161.00	139.82	73.40	0.60	-0.10	1320.27	67.40

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	139.64	73.76	0.60	-0.10	1360.43	67.30
163.00	140.72	73.22	0.60	-0.10	1320.66	67.30
164.00	140.18	73.40	0.60	-0.10	1355.75	67.20
165.00	140.36	73.76	0.60	0.40	1336.65	67.20
166.00	140.36	73.04	0.60	-0.10	1356.14	67.20
167.00	140.18	72.50	0.60	-0.10	1347.37	67.20
168.00	140.54	73.76	0.60	-0.10	1360.23	67.20
169.00	140.90	74.66	0.60	-0.10	1333.72	67.20
170.00	140.90	74.30	0.60	-0.10	1359.26	67.20
171.00	141.08	73.04	0.60	0.40	1345.81	67.10
172.00	141.44	73.94	0.60	-0.10	1361.79	67.10
173.00	141.44	73.94	0.60	-0.10	1339.57	67.10
174.00	141.26	73.40	0.60	-0.10	1327.68	67.20
175.00	141.44	73.58	0.60	-0.10	1349.31	67.10
176.00	141.44	73.94	0.60	-0.10	1338.98	67.20
177.00	141.62	74.12	0.60	-0.10	1335.48	67.10
178.00	142.16	73.76	0.60	-0.10	1335.87	67.10
179.00	141.44	73.94	0.60	-0.10	1350.48	67.10
180.00	142.16	74.12	0.60	0.40	1353.02	67.30
181.00	142.16	73.94	0.60	0.40	1343.66	67.40
182.00	142.70	73.58	0.60	-0.10	1330.02	67.40
183.00	142.34	74.66	0.60	-0.10	1347.95	67.30
184.00	142.16	73.94	0.60	-0.10	1317.15	67.30
185.00	142.88	74.12	0.60	-0.10	1357.70	67.40
186.00	142.52	74.48	0.60	-0.10	1337.03	67.40
187.00	143.06	74.30	0.60	-0.10	1351.85	67.40
188.00	142.88	74.30	0.60	-0.10	1337.03	67.40
189.00	143.42	75.02	0.60	-0.10	1350.68	67.40
190.00	143.42	74.12	0.60	-0.10	1337.42	67.40
191.00	143.06	73.76	0.60	0.40	1347.95	67.50
192.00	143.60	74.66	0.60	-0.10	1327.09	67.50
193.00	143.60	74.66	0.60	-0.10	1360.23	67.50
194.00	143.42	73.40	0.60	-0.10	1330.80	67.40
195.00	143.42	74.12	0.60	-0.10	1352.04	67.40
196.00	143.60	73.94	0.60	-0.10	1341.32	67.40
197.00	143.96	73.40	0.60	0.40	1352.82	67.50
198.00	143.78	73.94	0.60	-0.10	1335.48	67.50
199.00	143.78	74.12	0.60	-0.10	1339.76	67.40
200.00	143.96	74.30	0.60	0.40	1352.43	67.50
201.00	143.96	73.94	0.60	-0.10	1330.80	67.60
202.00	144.32	74.30	0.60	-0.10	1339.37	67.60
203.00	144.32	74.30	0.60	-0.10	1334.31	67.70
204.00	144.32	74.84	0.60	-0.10	1361.20	67.70
205.00	144.32	74.30	0.60	-0.10	1346.59	67.60
206.00	144.86	74.12	0.60	-0.10	1353.99	67.50
207.00	144.86	74.48	0.60	-0.10	1335.67	67.40
208.00	145.40	74.30	0.60	-0.10	1337.03	67.40
209.00	144.86	74.12	0.60	-0.10	1329.04	67.50
210.00	145.04	74.66	0.60	-0.10	1345.81	67.40
211.00	145.40	73.94	0.60	-0.10	1337.81	67.40
212.00	144.86	74.30	0.60	-0.10	1352.82	67.40
213.00	145.40	74.12	0.60	-0.10	1338.20	67.40
214.00	145.04	74.48	0.60	-0.10	1366.86	67.50
215.00	145.22	73.94	0.60	-0.10	1341.71	67.40
216.00	145.58	74.12	0.60	-0.10	1342.69	67.30

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
217.00	145.76	73.94	0.60	-0.10	1337.03	67.30
218.00	145.94	73.94	0.60	-0.10	1345.81	67.30
219.00	145.94	74.48	0.60	-0.10	1348.34	67.30
220.00	145.76	74.12	0.60	-0.10	1339.57	67.30
221.00	146.48	75.38	0.60	-0.10	1355.75	67.20
222.00	145.94	74.84	0.60	-0.10	1346.98	67.30
223.00	146.48	73.94	0.60	-0.10	1344.44	67.40
224.00	146.12	74.84	0.60	-0.10	1336.65	67.50
225.00	146.48	73.94	0.60	-0.10	1329.43	67.50
226.00	146.48	74.48	0.60	-0.10	1335.28	67.40
227.00	146.48	74.30	0.60	-0.10	1349.90	67.40
228.00	147.02	73.94	0.60	-0.10	1342.88	67.50
229.00	146.66	74.84	0.60	-0.10	1340.93	67.40
230.00	147.02	74.66	0.60	-0.10	1344.64	67.40
231.00	147.20	74.84	0.60	0.40	1359.06	67.40
232.00	147.20	73.94	0.60	-0.10	1329.24	67.40
233.00	146.66	73.94	0.60	-0.10	1348.73	67.50
234.00	147.20	74.48	0.60	0.40	1321.83	67.50
235.00	147.56	73.94	0.60	0.40	1354.58	67.50
236.00	147.56	74.30	0.60	0.40	1341.91	67.50
237.00	147.38	74.30	0.60	-0.10	1358.28	67.60
238.00	147.56	74.48	0.60	-0.10	1331.38	67.50
239.00	147.74	74.48	0.60	-0.10	1357.89	67.40
240.00	148.10	75.02	0.60	-0.10	1338.98	67.40
241.00	147.92	74.48	0.60	-0.10	1363.74	67.30
242.00	148.28	74.48	0.60	-0.10	1323.39	67.30
243.00	148.28	74.30	0.60	-0.10	1348.15	67.30
244.00	148.28	74.30	0.60	-0.10	1335.48	67.30
245.00	148.46	74.48	0.60	-0.10	1341.71	67.30
246.00	148.64	74.84	0.60	-0.10	1338.40	67.20
247.00	149.00	74.48	0.60	-0.10	1344.83	67.30
248.00	149.00	74.48	0.60	-0.10	1345.42	67.10
249.00	149.18	73.76	0.60	-0.10	1348.73	67.00
250.00	149.00	74.66	0.60	-0.10	1333.33	67.00
251.00	149.18	74.30	0.60	-0.10	1340.15	67.10
252.00	149.54	74.48	0.60	-0.10	1339.18	67.10
253.00	149.90	73.94	0.60	-0.10	1326.31	67.00
254.00	149.54	74.30	0.60	-0.10	1362.96	67.00
255.00	149.18	74.48	0.60	-0.10	1346.78	67.10
256.00	149.54	73.94	0.60	-0.10	1352.43	67.20
257.00	149.90	74.84	0.60	-0.10	1331.58	67.30
258.00	149.54	74.12	0.60	-0.10	1351.65	67.10
259.00	149.90	74.48	0.60	-0.10	1335.28	67.10
260.00	149.72	74.12	0.60	-0.10	1354.38	67.20
261.00	149.72	74.48	0.60	0.40	1330.99	67.20
262.00	150.26	74.30	0.60	-0.10	1346.78	67.20
263.00	150.08	74.12	0.60	-0.10	1330.60	67.20
264.00	150.44	75.20	0.60	-0.10	1348.54	67.30
265.00	150.08	74.30	0.60	0.40	1343.66	67.40
266.00	150.44	74.30	0.60	-0.10	1363.74	67.40
267.00	150.44	74.66	0.60	-0.10	1339.57	67.30
268.00	150.62	74.30	0.60	-0.10	1349.70	67.30
269.00	151.16	74.30	0.60	-0.10	1329.24	67.40
270.00	150.80	74.66	0.60	0.40	1352.82	67.30
271.00	151.16	75.20	0.60	-0.10	1347.37	67.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
272.00	151.16	74.66	0.60	-0.10	1352.43	67.20
273.00	151.16	74.30	0.60	-0.10	1340.74	67.30
274.00	151.16	75.02	0.60	-0.10	1334.89	67.40
275.00	151.34	75.02	0.60	-0.10	1352.04	67.30
276.00	151.34	74.48	0.60	-0.10	1345.61	67.20
277.00	151.34	74.30	0.60	0.40	1346.20	67.20
278.00	151.52	74.84	0.60	-0.10	1345.03	67.30
279.00	151.52	74.30	0.60	-0.10	1358.28	67.30
280.00	151.52	74.66	0.60	-0.10	1339.96	67.20
281.00	152.06	74.48	0.60	-0.10	1356.72	67.10
282.00	151.88	74.84	0.60	-0.10	1325.34	67.20
283.00	151.88	74.48	0.60	-0.10	1358.87	67.30
284.00	152.06	74.48	0.60	-0.10	1326.31	67.40
285.00	151.88	73.94	0.60	-0.10	1353.80	67.30
286.00	152.24	74.48	0.60	0.40	1336.84	67.30
287.00	152.42	74.48	0.60	-0.10	1352.04	67.30
288.00	152.60	74.48	0.60	-0.10	1351.07	67.40
289.00	152.42	75.38	0.60	-0.10	1365.30	67.50
290.00	152.24	74.48	0.60	-0.10	1335.28	67.40
291.00	152.60	75.20	0.60	-0.10	1361.79	67.40
292.00	152.96	74.84	0.60	-0.10	1342.10	67.40
293.00	152.60	75.02	0.60	-0.10	1354.97	67.50
294.00	152.96	74.66	0.60	-0.10	1343.47	67.50
295.00	152.42	74.84	0.60	-0.10	1345.22	67.50
296.00	152.96	75.38	0.60	0.40	1351.65	67.50
297.00	152.96	74.48	0.60	0.40	1348.15	67.50
298.00	153.14	74.30	0.60	-0.10	1349.51	67.40
299.00	153.50	75.02	0.60	-0.10	1355.55	67.40
300.00	153.14	75.02	0.60	-0.10	1360.43	67.40
301.00	153.50	75.02	0.60	-0.10	1336.06	67.40
302.00	153.32	74.66	0.60	-0.10	1343.27	67.30
303.00	153.68	74.12	0.60	-0.10	1344.05	67.30
304.00	153.86	74.30	0.60	-0.10	1367.83	67.30
305.00	153.86	74.66	0.60	-0.10	1343.47	67.20
306.00	153.86	74.66	0.60	-0.10	1362.76	67.20
307.00	153.68	73.76	0.60	-0.10	1339.96	67.10
308.00	154.22	74.30	0.60	-0.10	1358.28	67.10
309.00	154.22	74.12	0.60	-0.10	1344.05	67.10
310.00	154.22	74.84	0.60	-0.10	1356.53	67.10
311.00	154.22	74.66	0.60	-0.10	1321.83	67.00
312.00	154.04	74.30	0.60	-0.10	1365.49	67.00
313.00	154.40	74.30	0.60	-0.10	1328.26	67.00
314.00	154.40	73.94	0.60	-0.10	1365.88	67.00
315.00	154.40	73.94	0.60	-0.10	1342.69	67.00
316.00	154.58	74.84	0.60	0.40	1362.96	67.00
317.00	154.40	74.30	0.60	-0.10	1348.73	67.00
318.00	154.94	74.84	0.60	-0.10	1357.70	67.00
319.00	154.40	74.66	0.60	-0.10	1349.31	67.20
320.00	154.94	74.66	0.60	-0.10	1342.30	67.10
321.00	154.76	74.66	0.60	0.40	1349.12	67.20
322.00	154.76	74.12	0.60	-0.10	1359.06	67.20
323.00	154.94	74.48	0.60	-0.10	1342.49	67.30
324.00	154.76	74.48	0.60	-0.10	1353.21	67.40
325.00	155.30	74.30	0.60	-0.10	1341.13	67.40
326.00	155.12	74.66	0.60	-0.10	1335.09	67.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	155.30	74.48	0.60	-0.10	1342.49	67.30
328.00	155.48	74.48	0.60	-0.10	1344.64	67.20
329.00	155.12	74.84	0.60	-0.10	1355.36	67.20
330.00	155.48	74.48	0.60	-0.10	1340.74	67.30
331.00	155.66	75.02	0.60	-0.10	1373.68	67.30
332.00	155.48	73.94	0.60	-0.10	1339.37	67.30
333.00	156.02	74.48	0.60	-0.10	1361.20	67.40
334.00	155.66	74.66	0.60	-0.10	1346.39	67.40
335.00	156.20	74.84	0.60	0.40	1357.31	67.40
336.00	156.02	75.38	0.60	-0.10	1341.71	67.50
337.00	156.74	74.30	0.60	-0.10	1358.28	67.40
338.00	156.20	74.48	0.60	-0.10	1330.41	67.50
339.00	156.20	74.48	0.60	-0.10	1358.09	67.50
340.00	156.56	74.30	0.60	-0.10	1333.14	67.60
341.00	156.56	74.66	0.60	-0.10	1362.96	67.60
342.00	156.74	74.30	0.60	-0.10	1333.92	67.60
343.00	157.10	74.66	0.60	-0.10	1355.16	67.60
344.00	156.92	74.48	0.60	-0.10	1338.79	67.50
345.00	156.92	74.84	0.60	-0.10	1359.45	67.60
346.00	157.10	74.48	0.60	-0.10	1348.92	67.60
347.00	157.46	74.66	0.60	-0.10	1362.37	67.50
348.00	157.28	75.02	0.60	-0.10	1350.87	67.50
349.00	157.82	74.48	0.60	-0.10	1364.13	67.50
350.00	157.82	75.20	0.60	-0.10	1333.72	67.60
351.00	157.46	74.84	0.60	-0.10	1344.44	67.60
352.00	158.00	74.48	0.60	-0.10	1347.56	67.60
353.00	158.18	75.02	0.60	-0.10	1340.54	67.50
354.00	158.36	74.48	0.60	-0.10	1359.06	67.50
355.00	158.18	74.48	0.60	-0.10	1335.09	67.50
356.00	158.72	74.12	0.60	-0.10	1367.44	67.60
357.00	158.72	74.84	0.60	-0.10	1332.75	67.60
358.00	158.36	74.84	0.60	-0.10	1369.39	67.70
359.00	158.72	74.12	0.60	-0.10	1338.40	67.70
360.00	158.72	74.48	0.60	-0.10	1373.29	67.70
361.00	159.08	74.66	0.60	-0.10	1345.42	67.80
362.00	159.26	74.48	0.60	-0.10	1350.87	67.80
363.00	159.08	74.48	0.60	-0.10	1324.95	67.90
364.00	159.26	75.02	0.60	-0.10	1343.66	67.90
365.00	159.62	74.84	0.60	-0.10	1339.96	67.90
366.00	159.62	75.02	0.60	-0.10	1362.76	67.90
367.00	159.98	75.38	0.60	-0.10	1352.04	67.80
368.00	159.80	74.84	0.60	-0.10	1349.31	67.70
369.00	160.16	74.66	0.60	-0.10	1352.04	67.60
370.00	160.16	74.66	0.60	-0.10	1357.50	67.60
371.00	160.16	73.94	0.60	-0.10	1349.70	67.50
372.00	160.52	75.20	0.60	-0.10	1343.66	67.50
373.00	160.34	74.84	0.60	-0.10	1351.46	67.50
374.00	160.88	74.30	0.60	-0.10	1341.91	67.50
375.00	160.52	74.66	0.60	-0.10	1360.23	67.50
376.00	160.88	74.66	0.60	-0.10	1330.99	67.50
377.00	160.88	74.66	0.60	-0.10	1343.27	67.50
378.00	161.06	74.66	0.60	-0.10	1340.35	67.40
379.00	161.24	75.02	0.60	-0.10	1361.79	67.40
380.00	161.24	73.94	0.60	-0.10	1360.43	67.40
381.00	161.60	75.02	0.60	-0.10	1357.70	67.40

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
382.00	161.06	74.84	0.60	-0.10	1359.06	67.40
383.00	161.60	74.84	0.60	-0.10	1349.31	67.50
384.00	161.96	74.84	0.60	-0.10	1342.49	67.50
385.00	161.96	75.02	0.60	-0.10	1361.79	67.50
386.00	161.96	74.66	0.60	-0.10	1333.14	67.50
387.00	162.32	74.66	0.60	-0.10	1355.16	67.60
388.00	162.14	74.66	0.60	-0.10	1336.65	67.60
389.00	162.50	74.84	0.60	-0.10	1347.76	67.60
390.00	162.14	74.84	0.60	-0.10	1341.13	67.60
391.00	162.68	74.30	0.60	-0.10	1359.65	67.50
392.00	162.32	75.38	0.60	-0.10	1349.12	67.40
393.00	162.50	74.66	0.60	-0.10	1339.57	67.40
394.00	162.68	75.02	0.60	-0.10	1341.71	67.30
395.00	162.68	74.66	0.60	-0.10	1350.68	67.40
396.00	163.22	74.84	0.60	-0.10	1376.80	67.40
397.00	162.86	75.20	0.60	-0.10	1332.94	67.40
398.00	162.86	74.66	0.60	-0.10	1360.04	67.20
399.00	163.04	74.84	0.60	-0.10	1329.82	67.20
400.00	163.22	74.84	0.60	-0.10	1353.60	67.20
401.00	163.58	74.84	0.60	-0.10	1331.19	67.20
402.00	163.40	74.48	0.60	-0.10	1349.90	67.30
403.00	163.58	74.84	0.60	0.40	1327.68	67.30
404.00	163.76	75.02	0.60	-0.10	1361.20	67.40
405.00	163.94	74.84	0.60	0.40	1317.74	67.40
406.00	164.48	74.84	0.60	-0.10	1363.15	67.40
407.00	164.12	74.30	0.60	-0.10	1344.05	67.40
408.00	164.30	75.02	0.60	-0.10	1358.87	67.40
409.00	164.30	74.48	0.60	-0.10	1348.73	67.40
410.00	164.48	75.20	0.60	-0.10	1352.63	67.40
411.00	164.66	75.38	0.60	-0.10	1333.53	67.30
412.00	164.66	74.84	0.60	-0.10	1344.25	67.40
413.00	165.20	74.84	0.60	-0.10	1336.26	67.30
414.00	165.02	75.02	0.60	-0.10	1341.32	67.30
415.00	165.20	74.66	0.60	-0.10	1350.48	67.30
416.00	165.20	74.84	0.60	-0.10	1343.08	67.30
417.00	165.56	74.84	0.60	-0.10	1357.31	67.30
418.00	165.74	74.84	0.60	-0.10	1340.15	67.30
419.00	165.74	75.02	0.60	-0.10	1365.88	67.30
420.00	165.92	74.48	0.60	-0.10	1348.34	67.20
421.00	165.92	74.84	0.60	-0.10	1364.71	67.20
422.00	166.10	74.84	0.60	-0.10	1344.83	67.20
423.00	166.46	75.20	0.60	-0.10	1351.85	67.20
424.00	166.46	74.48	0.60	-0.10	1323.20	67.20
425.00	166.46	74.84	0.60	0.40	1353.21	67.30
426.00	166.82	74.84	0.60	-0.10	1329.63	67.30
427.00	166.64	75.20	0.60	-0.10	1350.29	67.30
428.00	167.00	74.84	0.60	-0.10	1327.87	67.30
429.00	166.82	75.20	0.60	-0.10	1345.42	67.30
430.00	167.18	75.02	0.60	-0.10	1327.09	67.30
431.00	167.36	74.66	0.60	0.40	1339.18	67.40
432.00	167.36	74.84	0.60	-0.10	1353.80	67.40
433.00	167.72	75.02	0.60	-0.10	1351.07	67.40
434.00	167.54	75.02	0.60	-0.10	1355.55	67.50
435.00	167.72	74.84	0.60	-0.10	1346.98	67.50
436.00	167.72	74.84	0.60	-0.10	1349.70	67.50

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
437.00	167.72	75.02	0.60	-0.10	1331.19	67.50
438.00	167.72	74.84	0.60	-0.10	1351.07	67.40
439.00	167.90	74.84	0.60	-0.10	1322.61	67.40
440.00	168.26	74.84	0.60	-0.10	1346.00	67.50
441.00	168.44	75.02	0.60	-0.10	1330.99	67.40
442.00	168.26	75.02	0.60	-0.10	1356.14	67.30
443.00	168.80	75.56	0.60	-0.10	1323.00	67.30
444.00	168.44	75.02	0.60	-0.10	1354.19	67.40
445.00	169.16	74.84	0.60	-0.10	1329.63	67.40
446.00	168.80	75.02	0.60	-0.10	1361.59	67.40
447.00	168.80	75.20	0.60	-0.10	1333.72	67.40
448.00	169.16	75.20	0.60	-0.10	1346.00	67.30
449.00	169.16	75.02	0.60	-0.10	1336.45	67.10
450.00	169.34	75.02	0.60	-0.10	1337.03	67.00
451.00	169.52	75.20	0.60	-0.10	1339.37	67.00
452.00	169.70	75.02	0.60	-0.10	1349.51	67.10
453.00	169.88	75.38	0.60	-0.10	1356.92	67.10
454.00	169.70	75.02	0.60	-0.10	1332.75	67.20
455.00	169.88	75.20	0.60	-0.10	1350.29	67.30
456.00	170.06	74.66	0.60	-0.10	1346.00	67.20
457.00	170.06	75.02	0.60	-0.10	1354.97	67.10
458.00	170.24	74.84	0.60	-0.10	1348.73	67.10
459.00	170.06	75.02	0.60	-0.10	1364.52	67.10
460.00	170.60	75.02	0.60	-0.10	1347.37	67.20
461.00	170.42	75.20	0.60	0.40	1363.35	67.20
462.00	170.60	75.20	0.60	-0.10	1350.09	67.30
463.00	170.96	75.20	0.60	-0.10	1353.02	67.30
464.00	170.60	75.02	0.60	-0.10	1339.37	67.30
465.00	170.96	75.02	0.60	-0.10	1341.91	67.30
466.00	170.60	75.02	0.60	-0.10	1329.63	67.30
467.00	170.96	75.38	0.60	0.40	1336.06	67.20
468.00	171.32	75.38	0.60	-0.10	1341.71	67.20
469.00	171.32	74.84	0.60	-0.10	1343.08	67.10
470.00	171.50	74.12	0.60	-0.10	1346.59	67.10
471.00	171.68	75.38	0.60	-0.10	1339.96	67.20
472.00	171.50	75.20	0.60	-0.10	1340.15	67.20
473.00	171.86	75.02	0.60	-0.10	1348.54	67.20
474.00	171.68	75.02	0.60	-0.10	1356.72	67.30
475.00	171.86	75.02	0.60	-0.10	1337.62	67.30
476.00	172.04	75.38	0.60	-0.10	1350.48	67.30
477.00	172.04	74.84	0.60	-0.10	1324.56	67.30
478.00	172.22	75.38	0.60	-0.10	1342.88	67.30
479.00	172.22	75.20	0.60	-0.10	1331.58	67.30
480.00	172.58	75.02	0.60	-0.10	1332.94	67.20
481.00	172.22	75.74	0.60	-0.10	1319.10	67.30
482.00	172.58	75.02	0.60	-0.10	1331.38	67.40
483.00	172.58	75.56	0.60	-0.10	1325.92	67.40
484.00	172.58	75.02	0.60	-0.10	1340.15	67.50
485.00	173.12	75.56	0.60	-0.10	1338.01	67.50
486.00	172.94	75.74	0.60	-0.10	1347.17	67.40
487.00	173.12	75.56	0.60	-0.10	1352.63	67.40
488.00	172.94	75.38	0.60	-0.10	1335.28	67.40
489.00	173.12	75.38	0.60	-0.10	1348.54	67.40
490.00	173.48	75.38	0.60	-0.10	1319.30	67.50
491.00	173.48	75.02	0.60	0.40	1317.15	67.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
492.00	173.48	74.84	0.60	-0.10	1333.92	67.60
493.00	173.66	75.56	0.60	-0.10	1353.60	67.50
494.00	173.66	75.38	0.60	-0.10	1313.84	67.50
495.00	174.02	75.38	0.60	-0.10	1344.83	67.40
496.00	173.48	75.38	0.60	-0.10	1321.64	67.50
497.00	174.20	75.38	0.60	-0.10	1342.30	67.50
498.00	174.20	75.56	0.60	-0.10	1331.19	67.40
499.00	173.84	75.02	0.60	-0.10	1344.64	67.50
500.00	174.38	75.38	0.60	-0.10	1313.64	67.60
501.00	174.20	75.20	0.60	-0.10	1340.93	67.60
502.00	174.74	74.66	0.60	-0.10	1307.02	67.60
503.00	174.74	75.56	0.60	-0.10	1332.55	67.60
504.00	174.74	75.20	0.60	-0.10	1330.21	67.50
505.00	174.92	75.56	0.60	-0.10	1338.01	67.40
506.00	174.92	75.20	0.60	-0.10	1338.01	67.40
507.00	175.28	75.20	0.60	-0.10	1317.93	67.50
508.00	175.10	75.56	0.60	-0.10	1330.80	67.50
509.00	175.10	75.92	0.60	-0.10	1323.59	67.50
510.00	175.46	75.20	0.60	-0.10	1318.13	67.60
511.00	175.28	75.02	0.60	-0.10	1315.98	67.60
512.00	175.64	75.56	0.60	-0.10	1334.70	67.60
513.00	175.64	75.56	0.60	-0.10	1325.92	67.60
514.00	175.46	75.20	0.60	-0.10	1342.49	67.50
515.00	176.18	75.38	0.60	-0.10	1322.81	67.50
516.00	175.82	75.92	0.60	-0.10	1341.91	67.50
517.00	176.18	75.38	0.60	-0.10	1310.72	67.60
518.00	176.18	75.74	0.60	-0.10	1324.95	67.60
519.00	176.18	75.38	0.60	-0.10	1307.41	67.60
520.00	176.36	75.56	0.60	-0.10	1352.43	67.50
521.00	176.18	75.56	0.60	-0.10	1308.19	67.50
522.00	176.54	75.38	0.60	-0.10	1329.63	67.60
523.00	176.36	75.20	0.60	-0.10	1317.15	67.60
524.00	176.72	75.38	0.60	0.40	1349.31	67.50
525.00	176.72	75.56	0.60	-0.10	1328.65	67.40
526.00	176.54	75.38	0.60	-0.10	1341.13	67.40
527.00	176.54	75.02	0.60	0.40	1327.48	67.30
528.00	176.54	75.56	0.60	-0.10	1337.62	67.40
529.00	176.72	75.20	0.60	0.40	1337.03	67.50
530.00	176.72	75.92	0.60	-0.10	1312.09	67.40
531.00	176.54	75.38	0.60	-0.10	1322.42	67.30
532.00	177.08	75.38	0.60	-0.10	1299.42	67.40
533.00	176.54	75.56	0.60	-0.10	1330.02	67.50
534.00	176.90	75.74	0.60	-0.10	1321.25	67.50
535.00	176.72	75.56	0.60	0.40	1333.33	67.40
536.00	177.44	75.38	0.60	-0.10	1354.58	67.40
537.00	177.62	75.56	0.60	-0.10	1370.17	67.50
538.00	177.26	75.56	0.60	-0.10	1334.11	67.60
539.00	177.26	75.38	0.60	-0.10	1339.96	67.60
540.00	177.62	75.56	0.60	-0.10	1323.39	67.50
541.00	177.62	75.56	0.60	-0.10	1331.97	67.40
542.00	177.62	75.56	0.60	-0.10	1316.37	67.50
543.00	177.44	75.56	0.60	-0.10	1360.43	67.60
544.00	177.80	75.74	0.60	-0.10	1333.53	67.60
545.00	177.44	75.38	0.60	-0.10	1332.36	67.60
546.00	177.98	75.02	0.60	-0.10	1320.86	67.60

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
547.00	177.98	75.74	0.60	-0.10	1338.59	67.70
548.00	177.62	74.48	0.60	-0.10	1318.32	67.70
549.00	177.80	75.56	0.60	-0.10	1325.14	67.70
550.00	177.98	75.56	0.60	-0.10	1325.53	67.70
551.00	178.34	75.74	0.60	-0.10	1331.77	67.70
552.00	177.98	75.92	0.60	-0.10	1327.48	67.60
553.00	178.16	75.56	0.60	-0.10	1356.33	67.60
554.00	178.16	75.92	0.60	-0.10	1335.09	67.60
555.00	177.98	75.38	0.60	-0.10	1346.59	67.60
556.00	178.34	75.56	0.60	-0.10	1332.75	67.70
557.00	177.98	75.38	0.60	-0.10	1339.18	67.70
558.00	177.98	75.02	0.60	-0.10	1330.21	67.70
559.00	178.52	75.92	0.60	-0.10	1337.42	67.70
560.00	178.88	75.74	0.60	-0.10	1337.81	67.60
561.00	178.70	75.74	0.60	-0.10	1323.00	67.60
562.00	178.52	75.74	0.60	-0.10	1346.98	67.60
563.00	178.70	75.92	0.60	-0.10	1337.03	67.60
564.00	178.70	76.28	0.60	-0.10	1332.36	67.50
565.00	178.88	75.74	0.60	-0.10	1324.76	67.50
566.00	179.42	76.10	0.60	-0.10	1329.63	67.30
567.00	178.70	75.92	0.60	-0.10	1316.96	67.30
568.00	178.88	75.74	0.60	-0.10	1325.34	67.30
569.00	178.88	76.28	0.60	-0.10	1284.99	67.40
570.00	178.88	75.74	0.60	-0.10	1326.70	67.50
571.00	179.42	75.92	0.60	-0.10	1320.27	67.50
572.00	179.06	75.20	0.60	-0.10	1352.63	67.40
573.00	179.24	75.74	0.60	-0.10	1338.40	67.50
574.00	179.06	75.74	0.60	-0.10	1361.40	67.40
575.00	178.88	75.74	0.60	-0.10	1327.09	67.40
576.00	179.42	75.02	0.60	-0.10	1347.76	67.40
577.00	179.42	75.92	0.60	-0.10	1311.70	67.30
578.00	179.78	75.56	0.60	-0.10	1330.02	67.30
579.00	179.60	75.92	0.60	-0.10	1318.13	67.20
580.00	179.42	75.38	0.60	-0.10	1342.49	67.20
581.00	179.96	75.92	0.60	-0.10	1323.39	67.20
582.00	179.42	75.38	0.60	-0.10	1326.90	67.10
583.00	179.60	75.92	0.60	-0.10	1338.40	67.20
584.00	179.78	75.92	0.60	-0.10	1335.67	67.20
585.00	179.60	75.38	0.60	-0.10	1328.46	67.20
586.00	179.78	75.56	0.60	-0.10	1328.46	67.20
587.00	179.60	76.10	0.60	-0.10	1336.45	67.10
588.00	180.14	75.56	0.60	-0.10	1326.12	67.10
589.00	180.14	75.92	0.60	-0.10	1316.96	67.10
590.00	179.78	75.56	0.60	-0.10	1302.92	67.00
591.00	180.50	75.92	0.60	-0.10	1324.56	67.00
592.00	180.14	75.92	0.60	-0.10	1315.20	67.10
593.00	180.32	75.56	0.60	-0.10	1329.82	67.20
594.00	180.14	75.74	0.60	-0.10	1300.20	67.30
595.00	180.32	75.74	0.60	-0.10	1321.25	67.30
596.00	180.50	75.56	0.60	-0.10	1319.30	67.30
597.00	180.50	76.46	0.60	-0.10	1343.08	67.30
598.00	180.68	75.92	0.60	-0.10	1312.67	67.40
599.00	180.32	75.92	0.60	-0.10	1337.03	67.40
600.00	180.86	76.10	0.60	-0.10	1321.05	67.40
601.00	181.04	75.92	0.60	-0.10	1336.06	67.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
602.00	180.32	75.92	0.60	-0.10	1315.79	67.30
603.00	180.68	75.20	0.60	-0.10	1326.70	67.20
604.00	181.04	76.28	0.60	-0.10	1310.53	67.20
605.00	180.32	75.56	0.60	-0.10	1328.07	67.30
606.00	181.22	76.28	0.60	-0.10	1311.11	67.30
607.00	181.04	76.28	0.60	-0.10	1332.16	67.30
608.00	181.22	75.92	0.60	-0.10	1315.98	67.30
609.00	181.40	77.18	0.60	-0.10	1316.76	67.40
610.00	181.58	75.92	0.60	-0.10	1301.17	67.40
611.00	181.40	76.28	0.60	-0.10	1317.15	67.50
612.00	181.58	76.28	0.60	-0.10	1312.09	67.50
613.00	181.76	76.28	0.60	-0.10	1338.79	67.50
614.00	181.58	75.92	0.60	-0.10	1325.34	67.40
615.00	181.58	75.74	0.60	-0.10	1328.85	67.40
616.00	181.94	76.28	0.60	-0.10	1322.03	67.40
617.00	181.94	76.10	0.60	-0.10	1310.14	67.40
618.00	181.94	76.10	0.60	0.40	1324.37	67.50
619.00	181.76	76.46	0.60	-0.10	1314.03	67.60
620.00	181.94	76.10	0.60	-0.10	1315.79	67.70
621.00	181.94	76.10	0.60	-0.10	1318.71	67.70
622.00	182.12	75.56	0.60	-0.10	1329.63	67.70
623.00	182.30	76.28	0.60	-0.10	1307.60	67.70
624.00	182.30	76.10	0.60	-0.10	1329.43	67.70
625.00	182.30	75.56	0.60	-0.10	1331.77	67.60
626.00	182.84	76.28	0.60	-0.10	1369.59	67.60
627.00	182.30	76.28	0.60	0.40	1345.81	67.60
628.00	182.84	76.28	0.60	-0.10	1362.76	67.60
629.00	182.66	76.10	0.60	-0.10	1354.77	67.60
630.00	182.66	76.10	0.60	-0.10	1380.50	67.70
631.00	182.84	76.28	0.60	-0.10	1349.12	67.70
632.00	182.84	76.10	0.60	0.40	1365.69	67.70
633.00	183.20	76.10	0.60	-0.10	1348.73	67.70
634.00	183.02	76.64	0.60	-0.10	1346.59	67.70
635.00	183.38	76.10	0.60	-0.10	1326.90	67.70
636.00	183.38	76.10	0.60	0.40	1330.41	67.70
637.00	183.02	76.10	0.60	-0.10	1346.00	67.70
638.00	183.38	76.46	0.60	0.40	1338.79	67.70
639.00	183.38	76.46	0.60	-0.10	1349.31	67.70
640.00	183.56	76.28	0.60	-0.10	1336.65	67.70
641.00	183.74	76.28	0.60	-0.10	1330.80	67.80
642.00	183.38	76.28	0.60	-0.10	1320.47	67.80
643.00	183.74	76.64	0.60	-0.10	1326.12	67.90
644.00	183.74	76.28	0.60	-0.10	1299.03	67.90
645.00	183.92	75.92	0.60	-0.10	1369.00	67.90
646.00	184.10	76.64	0.60	-0.10	1346.98	67.90
647.00	183.56	75.92	0.60	-0.10	1388.30	67.90
648.00	184.10	76.28	0.60	-0.10	1361.01	68.00
649.00	184.28	76.64	0.60	-0.10	1373.09	68.00
650.00	184.10	75.74	0.60	-0.10	1365.30	68.10
651.00	184.28	76.64	0.60	-0.10	1362.76	68.10
652.00	184.28	76.10	0.60	-0.10	1344.05	68.20
653.00	184.46	76.10	0.60	-0.10	1345.81	68.10
654.00	184.46	76.28	0.60	-0.10	1348.73	68.10
655.00	184.64	76.28	0.60	0.40	1357.50	68.00
656.00	184.82	76.64	0.60	-0.10	1344.64	68.00

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
657.00	183.92	76.10	0.60	-0.10	1346.20	68.00
658.00	184.46	75.92	0.60	-0.10	1354.38	67.90
659.00	184.28	76.46	0.60	-0.10	1341.91	67.90
660.00	184.46	76.10	0.60	-0.10	1340.35	67.90
661.00	184.82	75.56	0.60	-0.10	1327.87	67.80
662.00	184.46	75.92	0.60	-0.10	1351.46	67.80
663.00	184.82	75.92	0.60	-0.10	1340.15	67.80
664.00	184.64	76.64	0.60	-0.10	1348.15	67.70
665.00	184.82	76.28	0.60	-0.10	1324.17	67.70
666.00	184.82	76.10	0.60	-0.10	1333.53	67.70
667.00	184.82	77.00	0.60	-0.10	1313.64	67.70
668.00	185.36	76.64	0.60	-0.10	1337.81	67.60
669.00	184.82	76.28	0.60	-0.10	1314.23	67.70
670.00	184.46	76.10	0.60	-0.10	1333.72	67.70
671.00	185.00	76.46	0.60	0.40	1329.43	67.70
672.00	184.82	75.92	0.60	-0.10	1340.93	67.80
673.00	185.18	75.92	0.60	-0.10	1332.55	67.80
674.00	184.82	76.46	0.60	-0.10	1356.53	67.80
675.00	184.82	76.10	0.60	-0.10	1345.61	67.80
676.00	185.00	76.10	0.60	-0.10	1348.54	67.80
677.00	184.82	75.74	0.60	-0.10	1338.20	67.80
678.00	185.18	75.92	0.60	-0.10	1345.03	67.80
679.00	185.18	76.64	0.60	-0.10	1342.30	67.80
680.00	185.36	75.92	0.60	-0.10	1349.31	67.70
681.00	185.54	76.28	0.60	-0.10	1361.40	67.70
682.00	185.18	76.28	0.60	-0.10	1369.78	67.70
683.00	185.36	76.46	0.60	-0.10	1362.18	67.70
684.00	185.36	76.64	0.60	-0.10	1350.09	67.70
685.00	185.18	76.28	0.60	-0.10	1374.85	67.70
686.00	185.36	76.64	0.60	-0.10	1350.87	67.70
687.00	185.18	76.10	0.60	-0.10	1376.80	67.70
688.00	185.36	76.64	0.60	-0.10	1353.99	67.70
689.00	185.36	76.28	0.60	-0.10	1364.91	67.70
690.00	185.36	76.10	0.60	-0.10	1335.87	67.60
691.00	185.54	76.64	0.60	-0.10	1348.73	67.60
692.00	185.18	76.28	0.60	-0.10	1335.67	67.50
693.00	185.54	76.46	0.60	-0.10	1360.81	67.50
694.00	185.36	76.64	0.60	-0.10	1326.51	67.50
695.00	185.36	76.28	0.60	0.40	1346.98	67.50
696.00	185.54	76.46	0.60	-0.10	1319.49	67.50
697.00	185.36	76.82	0.60	-0.10	1336.45	67.50
698.00	185.36	76.28	0.60	-0.10	1340.15	67.40
699.00	185.54	76.82	0.60	-0.10	1332.75	67.40
700.00	185.36	76.28	0.60	-0.10	1326.12	67.50
701.00	185.54	76.28	0.60	-0.10	1317.15	67.50
702.00	185.54	76.82	0.60	-0.10	1331.19	67.50
703.00	185.54	76.82	0.60	-0.10	1326.70	67.50
704.00	185.54	76.64	0.60	0.40	1317.15	67.40
705.00	185.36	76.64	0.60	-0.10	1324.56	67.30
706.00	185.54	76.82	0.60	-0.10	1319.69	67.30
707.00	185.54	76.46	0.60	-0.10	1313.84	67.30
708.00	185.90	76.46	0.60	-0.10	1322.42	67.30
709.00	185.72	76.64	0.60	-0.10	1301.56	67.30
710.00	185.54	76.46	0.60	-0.10	1316.57	67.40
711.00	185.90	76.46	0.60	-0.10	1299.42	67.30

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
712.00	185.90	76.64	0.60	-0.10	1327.09	67.30
713.00	185.72	76.82	0.60	-0.10	1294.54	67.30
714.00	185.90	76.64	0.60	0.40	1332.75	67.30
715.00	185.90	76.10	0.60	-0.10	1309.94	67.30
716.00	186.08	77.00	0.60	-0.10	1345.61	67.40
717.00	185.90	76.10	0.60	-0.10	1318.71	67.40
718.00	186.08	76.64	0.60	-0.10	1326.90	67.50
719.00	186.26	76.64	0.60	0.40	1300.20	67.50
720.00	185.90	76.64	0.60	-0.10	1298.25	67.50
721.00	186.08	76.82	0.60	-0.10	1282.07	67.50
722.00	185.90	76.64	0.60	-0.10	1301.17	67.40
723.00	186.26	76.28	0.60	-0.10	1310.92	67.40
724.00	186.44	76.82	0.60	-0.10	1304.09	67.40
725.00	186.08	76.28	0.60	-0.10	1299.61	67.40
726.00	186.62	76.10	0.60	-0.10	1308.38	67.30
727.00	186.08	76.28	0.60	-0.10	1288.11	67.30
728.00	186.44	76.64	0.60	-0.10	1306.82	67.40
729.00	186.62	76.64	0.60	-0.10	1316.96	67.40
730.00	186.26	76.46	0.60	-0.10	1313.06	67.50
731.00	186.62	76.28	0.60	-0.10	1322.61	67.50
732.00	186.44	76.28	0.60	-0.10	1312.48	67.50
733.00	186.44	76.28	0.60	-0.10	1312.67	67.50
734.00	186.44	76.10	0.60	-0.10	1298.64	67.50
735.00	186.62	76.64	0.60	-0.10	1305.26	67.40
736.00	186.98	75.92	0.60	0.40	1288.89	67.40
737.00	186.80	76.64	0.60	-0.10	1314.62	67.40
738.00	186.62	76.28	0.60	-0.10	1285.77	67.40
739.00	187.16	76.64	0.60	-0.10	1306.43	67.40
740.00	186.80	76.28	0.60	-0.10	1278.56	67.40
741.00	187.16	75.74	0.60	0.40	1296.30	67.40
742.00	186.98	76.46	0.60	-0.10	1294.93	67.50
743.00	187.34	76.64	0.60	-0.10	1308.97	67.60
744.00	187.34	76.28	0.60	-0.10	1294.54	67.60
745.00	187.16	77.18	0.60	-0.10	1318.71	67.60
746.00	187.34	76.10	0.60	-0.10	1278.95	67.60
747.00	187.52	76.10	0.60	-0.10	1322.61	67.60
748.00	187.34	77.00	0.60	-0.10	1293.37	67.50
749.00	187.70	76.28	0.60	-0.10	1313.25	67.40
750.00	187.70	76.64	0.60	-0.10	1295.91	67.40
751.00	187.52	76.28	0.60	-0.10	1313.64	67.50
752.00	187.88	76.64	0.60	-0.10	1306.24	67.50
753.00	187.52	76.28	0.60	-0.10	1338.59	67.50
754.00	187.70	76.28	0.60	-0.10	1319.10	67.50
755.00	187.70	76.82	0.60	-0.10	1334.70	67.50
756.00	187.70	76.10	0.60	-0.10	1309.75	67.50
757.00	187.70	76.64	0.60	-0.10	1327.29	67.60
758.00	187.34	76.64	0.60	-0.10	1310.92	67.60
759.00	187.70	76.28	0.60	-0.10	1324.95	67.50
760.00	187.52	76.28	0.60	-0.10	1328.46	67.60
761.00	187.70	76.28	0.60	-0.10	1329.82	67.50
762.00	187.88	76.28	0.60	-0.10	1359.84	67.40
763.00	187.52	76.64	0.60	-0.10	1321.64	67.40
764.00	187.52	76.28	0.60	-0.10	1333.72	67.40
765.00	187.70	76.64	0.60	-0.10	1319.10	67.40
766.00	187.70	76.10	0.60	-0.10	1339.37	67.40

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
767.00	187.88	76.28	0.60	-0.10	1314.23	67.40
768.00	187.34	76.82	0.60	-0.10	1314.81	67.50
769.00	187.52	75.74	0.60	-0.10	1308.38	67.50
770.00	187.70	76.28	0.60	-0.10	1340.93	67.50
771.00	187.16	76.64	0.60	-0.10	1307.41	67.50
772.00	187.70	76.46	0.60	-0.10	1328.07	67.60
773.00	187.52	76.46	0.60	-0.10	1327.87	67.60
774.00	187.52	76.10	0.60	-0.10	1339.76	67.70
775.00	187.34	76.28	0.60	-0.10	1298.64	67.70
776.00	187.16	76.28	0.60	-0.10	1318.71	67.60
777.00	187.34	76.82	0.60	-0.10	1278.95	67.50
778.00	187.52	76.82	0.60	-0.10	1318.52	67.50
779.00	187.16	76.64	0.60	-0.10	1294.93	67.50
780.00	187.16	76.28	0.60	-0.10	1312.86	67.60
781.00	186.98	76.64	0.60	-0.10	1307.02	67.70
782.00	187.16	76.64	0.60	-0.10	1315.98	67.70
783.00	186.98	76.64	0.60	-0.10	1297.47	67.60
784.00	186.62	76.10	0.60	-0.10	1297.66	67.60
785.00	187.16	76.28	0.60	-0.10	1281.29	67.50
786.00	186.98	76.64	0.60	-0.10	1306.04	67.50
787.00	187.34	76.28	0.60	-0.10	1289.67	67.60
788.00	186.98	76.64	0.60	-0.10	1298.25	67.60
789.00	186.62	76.28	0.60	-0.10	1295.91	67.60
790.00	186.98	76.64	0.60	-0.10	1297.08	67.60
791.00	186.44	75.92	0.60	-0.10	1311.70	67.60
792.00	186.62	76.28	0.60	-0.10	1290.64	67.70
793.00	186.62	76.28	0.60	-0.10	1294.35	67.70
794.00	186.44	75.92	0.60	-0.10	1298.44	67.80
795.00	186.62	76.64	0.60	-0.10	1307.02	67.80
796.00	186.44	76.82	0.60	-0.10	1291.62	67.80
797.00	186.62	76.28	0.60	-0.10	1285.97	67.70
798.00	186.98	76.28	0.60	-0.10	1270.76	67.70
799.00	186.62	76.28	0.60	-0.10	1274.47	67.70
800.00	186.44	76.28	0.60	-0.10	1265.11	67.80
801.00	186.44	76.28	0.60	-0.10	1306.24	67.80
802.00	186.26	76.10	0.60	-0.10	1298.25	67.80
803.00	186.44	76.64	0.60	-0.10	1304.29	67.70
804.00	185.90	76.46	0.60	-0.10	1302.34	67.70
805.00	186.44	75.92	0.60	-0.10	1324.37	67.70
806.00	186.08	76.64	0.60	-0.10	1318.32	67.70
807.00	186.08	76.28	0.60	-0.10	1346.59	67.70
808.00	186.26	76.28	0.60	-0.10	1316.18	67.60
809.00	186.08	76.28	0.60	-0.10	1341.71	67.60
810.00	186.44	76.28	0.60	-0.10	1320.47	67.40
811.00	185.90	76.82	0.60	-0.10	1338.01	67.40
812.00	186.08	76.64	0.60	-0.10	1310.53	67.70

Ignitibility Testing: Drilling into Saltcake, 1 ft³/min Flammable, no purge, 1st run
9/1/94

File Name: Run07_4b

Time(Sec)	BitTemp(F)	PrgTemp(F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	117.14	68.00	0.00	-0.10	1376.99	68.40
1.00	117.86	68.36	0.20	-0.10	1352.24	68.50
2.00	118.76	65.48	0.40	-0.10	1396.68	68.10
3.00	119.48	66.74	0.50	0.40	1420.85	68.10
4.00	124.70	67.82	0.70	-0.10	1432.55	67.70
5.00	128.84	67.82	0.80	-0.10	1443.07	67.50
6.00	130.64	65.66	0.90	-0.10	1433.32	67.20
7.00	133.34	67.64	1.00	-0.10	1429.43	66.90
8.00	136.40	66.92	1.00	-0.10	1448.72	66.80
9.00	141.08	68.00	1.10	-0.10	1444.05	66.80
10.00	144.32	68.00	1.10	-0.10	1455.35	66.70
11.00	147.56	67.28	1.20	-0.10	1442.10	66.60
12.00	151.70	68.36	1.20	-0.10	1456.13	66.50
13.00	155.30	66.74	1.30	-0.10	1433.13	66.30
14.00	158.18	67.28	1.30	-0.10	1444.44	66.20
15.00	162.32	67.64	1.40	-0.10	1447.75	66.20
16.00	166.10	67.10	1.40	-0.10	1420.85	66.30
17.00	167.90	67.28	1.40	-0.10	1427.67	66.30
18.00	171.68	67.28	1.50	-0.10	1414.03	66.40
19.00	176.18	67.46	1.50	-0.10	1440.15	66.40
20.00	178.52	67.64	1.50	-0.10	1442.10	66.40
21.00	181.58	67.28	1.60	-0.10	1457.88	66.30
22.00	183.56	67.64	1.60	-0.10	1442.29	66.30
23.00	187.52	67.28	1.60	-0.10	1441.32	66.30
24.00	188.06	67.46	1.60	-0.10	1433.32	66.40
25.00	190.94	67.28	1.70	-0.10	1441.12	66.50
26.00	193.10	67.82	1.70	-0.10	1447.36	66.50
27.00	196.88	67.28	1.80	-0.10	1455.94	66.50
28.00	197.42	66.92	1.80	-0.10	1460.61	66.50
29.00	200.30	67.28	1.80	-0.10	1464.71	66.60
30.00	202.46	67.64	1.80	-0.10	1456.52	66.60
31.00	205.52	67.10	1.90	-0.10	1447.94	66.60
32.00	208.40	67.64	1.90	-0.10	1475.04	66.60
33.00	210.56	68.00	1.90	-0.10	1448.92	66.60
34.00	213.26	67.64	1.90	-0.10	1462.56	66.60
35.00	214.88	67.64	1.90	-0.10	1438.20	66.60
36.00	217.04	67.28	2.00	-0.10	1447.55	66.70
37.00	219.56	67.82	2.00	-0.10	1442.29	66.70
38.00	223.34	67.28	2.00	0.40	1449.70	66.70
39.00	223.88	67.46	2.00	-0.10	1446.58	66.80
40.00	225.14	67.28	2.00	-0.10	1454.38	66.80
41.00	228.02	67.64	2.10	-0.10	1466.27	66.80
42.00	230.00	67.64	2.10	-0.10	1449.31	66.80
43.00	231.44	67.46	2.10	-0.10	1461.59	66.80
44.00	233.78	67.10	2.10	-0.10	1451.65	66.90
45.00	234.86	67.46	2.10	-0.10	1474.06	66.90
46.00	235.76	67.46	2.10	-0.10	1454.96	66.90
47.00	237.38	67.46	2.20	0.40	1478.16	66.90
48.00	238.64	67.64	2.20	-0.10	1470.36	66.90
49.00	239.90	67.64	2.20	-0.10	1469.58	66.90
50.00	241.70	68.18	2.20	-0.10	1461.78	66.90
51.00	244.40	67.64	2.20	-0.10	1464.32	66.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	243.32	67.46	2.20	-0.10	1484.59	66.80
53.00	247.46	67.64	2.20	-0.10	1465.10	66.80
54.00	249.26	67.28	2.20	-0.10	1474.06	66.90
55.00	249.98	67.46	2.20	-0.10	1462.76	66.90
56.00	252.86	67.64	2.30	-0.10	1469.97	66.90
57.00	252.32	67.10	2.30	-0.10	1451.06	66.80
58.00	254.84	67.28	2.30	-0.10	1462.76	66.80
59.00	256.28	68.00	2.30	-0.10	1439.37	66.80
60.00	256.82	67.82	2.30	-0.10	1431.18	66.90
61.00	258.98	67.64	2.30	-0.10	1415.59	66.80
62.00	260.42	67.64	2.30	-0.10	1409.74	66.80
63.00	262.22	67.82	2.40	-0.10	1414.03	66.90
64.00	262.22	67.64	2.40	-0.10	1407.60	67.00
65.00	265.46	67.64	2.40	-0.10	1420.07	67.00
66.00	267.08	67.28	2.40	-0.10	1406.04	67.00
67.00	266.00	67.82	2.40	-0.10	1426.50	66.90
68.00	268.52	67.46	2.40	-0.10	1425.14	66.90
69.00	267.80	67.64	2.40	-0.10	1454.38	66.90
70.00	270.14	68.00	2.40	-0.10	1449.70	66.90
71.00	270.32	68.18	2.40	-0.10	1461.78	66.90
72.00	272.84	67.46	2.40	-0.10	1456.91	67.00
73.00	272.30	67.64	2.50	-0.10	1459.25	67.00
74.00	273.02	68.00	2.50	-0.10	1461.20	67.00
75.00	275.54	67.64	2.50	-0.10	1462.56	67.00
76.00	275.54	67.46	2.50	-0.10	1474.06	67.00
77.00	276.26	67.46	2.50	-0.10	1454.77	67.00
78.00	278.24	67.82	2.50	-0.10	1471.33	67.00
79.00	278.06	67.64	2.50	-0.10	1461.39	67.00
80.00	280.22	67.82	2.50	-0.10	1475.43	67.10
81.00	280.22	68.18	2.50	-0.10	1464.90	67.00
82.00	282.02	68.18	2.50	-0.10	1478.16	67.00
83.00	282.02	67.82	2.50	-0.10	1472.89	66.90
84.00	281.66	67.64	2.50	-0.10	1476.21	66.80
85.00	282.20	67.82	2.60	-0.10	1477.18	66.90
86.00	284.18	67.82	2.60	-0.10	1471.33	66.90
87.00	284.90	67.10	2.60	-0.10	1473.48	67.00
88.00	287.06	68.00	2.60	-0.10	1458.47	67.00
89.00	289.04	67.64	2.60	-0.10	1469.19	67.00
90.00	289.22	68.18	2.60	-0.10	1447.94	67.00
91.00	289.76	67.46	2.60	-0.10	1469.38	67.00
92.00	289.04	68.00	2.60	-0.10	1454.96	66.90
93.00	291.92	68.00	2.60	-0.10	1468.61	66.80
94.00	292.82	68.00	2.60	-0.10	1471.53	66.70
95.00	292.46	67.82	2.60	-0.10	1476.21	66.60
96.00	294.44	68.00	2.60	-0.10	1474.65	66.60
97.00	294.80	67.82	2.60	-0.10	1460.22	66.70
98.00	294.44	68.00	2.60	-0.10	1462.76	66.80
99.00	293.90	67.46	2.60	-0.10	1451.84	66.80
100.00	297.50	68.00	2.60	-0.10	1461.39	66.80
101.00	295.34	67.82	2.70	-0.10	1453.21	66.80
102.00	296.24	68.18	2.70	-0.10	1469.97	66.80
103.00	298.22	68.18	2.70	-0.10	1444.44	66.80
104.00	300.74	68.18	2.70	-0.10	1461.98	66.80
105.00	300.56	67.46	2.70	-0.10	1447.16	66.80
106.00	300.38	68.00	2.70	-0.10	1460.03	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
107.00	300.02	68.00	2.70	-0.10	1458.66	66.60
108.00	301.10	68.00	2.70	-0.10	1461.98	66.70
109.00	302.18	68.00	2.70	-0.10	1463.54	66.70
110.00	301.28	68.18	2.70	-0.10	1458.66	66.70
111.00	302.18	68.18	2.70	-0.10	1480.50	66.50
112.00	302.18	67.82	2.70	-0.10	1469.58	66.50
113.00	301.64	67.82	2.70	-0.10	1489.27	66.50
114.00	303.26	68.36	2.70	-0.10	1481.47	66.60
115.00	304.34	68.18	2.70	-0.10	1494.53	66.60
116.00	305.24	68.18	2.70	-0.10	1476.01	66.60
117.00	304.88	67.82	2.70	-0.10	1502.33	66.70
118.00	305.06	68.36	2.70	-0.10	1492.00	66.80
119.00	307.04	68.18	2.70	0.40	1489.85	66.70
120.00	306.50	68.00	2.70	0.40	1484.39	66.70
121.00	305.60	68.36	2.80	-0.10	1479.91	66.70
122.00	307.22	68.36	2.80	0.40	1483.81	66.80
123.00	307.40	68.18	2.80	-0.10	1473.28	66.70
124.00	305.78	68.36	2.80	-0.10	1493.16	66.70
125.00	307.40	68.18	2.80	-0.10	1475.82	66.80
126.00	308.48	68.36	2.80	-0.10	1488.29	66.70
127.00	307.94	68.18	2.80	-0.10	1477.38	66.60
128.00	311.36	67.82	2.80	-0.10	1492.00	66.60
129.00	310.28	68.00	2.80	-0.10	1479.33	66.60
130.00	311.90	68.18	2.80	-0.10	1483.22	66.60
131.00	310.28	68.00	2.80	-0.10	1476.40	66.50
132.00	311.00	68.18	2.80	-0.10	1472.89	66.50
133.00	312.08	68.18	2.80	-0.10	1481.86	66.40
134.00	311.90	68.00	2.80	-0.10	1477.96	66.40
135.00	314.96	68.18	2.80	-0.10	1491.22	66.40
136.00	313.70	68.36	2.80	-0.10	1462.17	66.40
137.00	311.54	68.18	2.80	-0.10	1480.69	66.40
138.00	316.40	68.36	2.80	-0.10	1467.63	66.40
139.00	313.70	68.00	2.80	-0.10	1481.47	66.40
140.00	315.86	68.18	2.80	-0.10	1468.41	66.50
141.00	316.94	67.82	2.80	-0.10	1476.01	66.40
142.00	316.58	67.82	2.80	-0.10	1461.59	66.50
143.00	316.04	68.72	2.80	-0.10	1456.33	66.60
144.00	317.84	68.18	2.80	-0.10	1455.55	66.60
145.00	317.30	68.18	2.80	-0.10	1453.21	66.50
146.00	318.92	68.36	2.80	-0.10	1460.81	66.70
147.00	318.74	68.36	2.80	-0.10	1440.93	66.80
148.00	320.90	68.00	2.80	-0.10	1461.20	66.70
149.00	320.54	68.36	2.80	-0.10	1446.58	66.80
150.00	320.72	68.36	2.80	-0.10	1452.23	66.80
151.00	321.98	68.36	2.80	-0.10	1435.86	66.90
152.00	322.88	68.18	2.80	0.40	1440.15	66.80
153.00	322.70	68.72	2.80	-0.10	1440.93	66.90
154.00	324.14	68.18	2.80	-0.10	1441.71	66.80
155.00	324.50	68.00	2.80	-0.10	1435.27	66.80
156.00	324.50	68.36	2.80	-0.10	1430.21	66.80
157.00	325.40	68.72	2.80	-0.10	1439.37	66.90
158.00	326.66	68.36	2.80	-0.10	1429.62	66.90
159.00	327.56	68.18	2.80	-0.10	1437.03	66.90
160.00	327.56	68.00	2.80	-0.10	1424.55	67.00
161.00	328.28	68.36	2.90	-0.10	1434.88	67.10

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
162.00	328.64	68.36	2.90	-0.10	1421.43	67.00
163.00	330.08	68.18	2.90	-0.10	1425.33	67.00
164.00	330.08	68.36	2.90	-0.10	1421.43	67.00
165.00	329.36	68.36	2.90	-0.10	1423.38	67.00
166.00	332.24	68.18	2.90	-0.10	1408.38	66.90
167.00	331.88	68.72	2.90	-0.10	1414.42	67.00
168.00	334.04	68.36	2.90	-0.10	1433.52	67.00
169.00	332.06	68.18	2.90	-0.10	1406.23	67.10
170.00	331.88	68.36	2.90	-0.10	1408.77	67.20
171.00	334.58	68.54	2.90	-0.10	1396.49	67.20
172.00	331.34	68.36	2.90	-0.10	1409.35	67.20
173.00	332.60	68.36	2.90	-0.10	1394.54	67.20
174.00	332.42	68.54	2.90	-0.10	1404.28	67.20
175.00	332.60	68.36	2.90	-0.10	1395.71	67.20
176.00	334.58	68.18	2.90	-0.10	1406.23	67.20
177.00	333.68	68.54	2.90	-0.10	1417.93	67.10
178.00	334.58	68.54	2.90	-0.10	1417.54	67.20
179.00	336.02	68.36	2.90	-0.10	1422.21	67.20
180.00	336.74	68.36	2.90	-0.10	1426.50	67.20
181.00	336.74	68.36	2.90	-0.10	1425.72	67.10
182.00	337.82	68.72	2.90	-0.10	1412.66	67.20
183.00	338.54	68.54	2.90	-0.10	1436.83	67.10
184.00	340.16	68.54	2.90	-0.10	1417.15	67.10
185.00	339.80	68.72	2.90	-0.10	1432.74	67.10
186.00	339.98	68.36	2.90	-0.10	1426.11	67.00
187.00	341.60	68.36	2.90	-0.10	1441.90	67.00
188.00	341.96	68.54	2.90	-0.10	1430.21	67.00
189.00	343.22	68.72	2.90	-0.10	1434.69	67.00
190.00	343.04	68.72	2.90	-0.10	1426.11	67.00
191.00	344.30	68.54	2.90	-0.10	1432.93	67.00
192.00	345.74	68.54	2.90	-0.10	1431.18	67.00
193.00	344.84	68.72	2.90	-0.10	1426.31	66.90
194.00	345.20	68.36	2.90	-0.10	1445.41	66.80
195.00	346.28	68.54	2.90	-0.10	1417.54	66.80
196.00	346.46	68.72	2.90	-0.10	1439.37	66.80
197.00	347.90	68.90	2.90	-0.10	1425.53	66.80
198.00	348.44	68.72	2.90	-0.10	1434.88	66.80
199.00	348.44	68.72	2.90	-0.10	1431.18	66.70
200.00	349.52	68.72	3.00	-0.10	1435.27	66.80
201.00	350.06	68.54	2.90	-0.10	1429.04	66.80
202.00	349.16	68.54	3.00	-0.10	1436.25	66.70
203.00	350.78	68.90	3.00	-0.10	1425.53	66.70
204.00	351.68	68.18	3.00	-0.10	1430.40	66.70
205.00	351.50	68.72	3.00	-0.10	1420.46	66.70
206.00	352.76	68.54	3.00	-0.10	1415.98	66.70
207.00	353.12	68.72	3.00	-0.10	1417.15	66.70
208.00	353.30	68.72	3.00	-0.10	1408.57	66.80
209.00	353.30	68.72	3.00	-0.10	1407.40	66.80
210.00	353.66	69.08	3.00	-0.10	1386.74	66.80
211.00	353.12	68.90	3.00	-0.10	1401.94	66.80
212.00	354.38	68.54	3.00	-0.10	1376.80	66.80
213.00	353.66	68.72	3.00	-0.10	1399.02	66.80
214.00	354.92	68.72	3.00	-0.10	1384.79	66.70
215.00	356.72	68.90	3.00	-0.10	1396.88	66.70
216.00	356.36	68.90	3.00	-0.10	1383.62	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
217.00	357.26	69.26	3.00	-0.10	1400.38	66.70
218.00	357.98	68.72	3.00	-0.10	1397.46	66.70
219.00	357.44	68.54	3.00	-0.10	1398.24	66.80
220.00	358.34	68.90	3.00	-0.10	1394.54	66.80
221.00	359.06	69.26	3.00	-0.10	1394.15	66.70
222.00	359.96	69.08	3.00	-0.10	1400.38	66.80
223.00	360.86	68.54	3.00	-0.10	1406.04	66.70
224.00	360.86	69.08	3.00	0.40	1408.57	66.70
225.00	362.12	69.08	3.00	0.40	1396.49	66.60
226.00	361.58	68.90	3.00	-0.10	1404.48	66.60
227.00	363.02	68.90	3.00	-0.10	1401.94	66.70
228.00	364.10	68.72	3.00	-0.10	1413.25	66.70
229.00	363.20	68.90	3.00	-0.10	1399.02	66.70
230.00	365.54	68.90	3.00	-0.10	1408.77	66.70
231.00	365.54	69.44	3.00	-0.10	1399.60	66.80
232.00	364.64	69.08	3.00	-0.10	1411.88	66.80
233.00	365.90	69.08	3.00	-0.10	1406.23	66.70
234.00	366.26	69.08	3.00	-0.10	1409.15	66.60
235.00	367.52	68.90	3.00	-0.10	1405.65	66.60
236.00	367.16	69.08	3.00	-0.10	1406.43	66.70
237.00	366.80	69.08	3.00	-0.10	1405.65	66.70
238.00	367.52	69.08	3.00	-0.10	1400.19	66.70
239.00	367.88	69.08	3.00	-0.10	1402.14	66.70
240.00	368.24	69.08	3.00	-0.10	1394.73	66.70
241.00	369.50	69.44	3.00	-0.10	1399.21	66.70
242.00	369.50	69.44	3.00	-0.10	1394.93	66.70
243.00	369.32	69.08	3.00	-0.10	1417.73	66.70
244.00	369.86	68.90	3.00	-0.10	1400.97	66.60
245.00	372.20	69.26	3.00	-0.10	1420.07	66.50
246.00	371.84	69.26	3.00	-0.10	1402.14	66.50
247.00	371.66	69.08	3.00	-0.10	1413.64	66.50
248.00	371.30	68.72	3.10	-0.10	1388.69	66.60
249.00	372.92	68.90	3.10	-0.10	1409.74	66.60
250.00	374.00	68.90	3.00	-0.10	1395.32	66.70
251.00	373.28	68.72	3.00	-0.10	1409.54	66.70
252.00	375.26	68.90	3.10	-0.10	1404.48	66.60
253.00	373.82	69.26	3.10	-0.10	1408.96	66.60
254.00	374.90	68.54	3.10	-0.10	1409.54	66.60
255.00	375.80	69.26	3.10	-0.10	1400.58	66.60
256.00	377.60	69.26	3.10	-0.10	1407.21	66.70
257.00	376.88	69.26	3.10	-0.10	1393.95	66.60
258.00	378.86	69.08	3.10	-0.10	1401.94	66.60
259.00	377.24	69.08	3.10	-0.10	1395.32	66.50
260.00	378.50	69.26	3.10	-0.10	1415.00	66.50
261.00	378.86	69.26	3.10	-0.10	1397.26	66.50
262.00	379.58	68.90	3.10	-0.10	1414.81	66.50
263.00	379.76	69.26	3.10	-0.10	1395.32	66.50
264.00	379.94	69.26	3.10	-0.10	1414.03	66.40
265.00	379.04	68.90	3.10	-0.10	1390.83	66.40
266.00	379.76	69.26	3.10	-0.10	1391.03	66.30
267.00	381.02	69.08	3.10	-0.10	1387.52	66.30
268.00	381.74	69.26	3.10	-0.10	1388.10	66.40
269.00	381.20	68.72	3.10	-0.10	1389.66	66.50
270.00	382.82	69.08	3.10	-0.10	1393.17	66.50
271.00	382.64	68.90	3.10	-0.10	1399.02	66.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
272.00	382.82	69.26	3.10	-0.10	1390.25	66.80
273.00	383.54	69.80	3.10	-0.10	1390.83	66.80
274.00	383.36	69.26	3.10	-0.10	1380.50	66.70
275.00	385.16	69.08	3.10	-0.10	1392.78	66.60
276.00	385.52	69.08	3.10	-0.10	1389.86	66.60
277.00	386.42	69.26	3.10	-0.10	1395.51	66.60
278.00	386.96	69.44	3.10	-0.10	1389.27	66.60
279.00	386.60	68.90	3.10	-0.10	1405.45	66.60
280.00	386.60	69.44	3.10	-0.10	1400.58	66.70
281.00	388.58	69.26	3.10	-0.10	1419.68	66.70
282.00	387.86	69.08	3.10	-0.10	1413.05	66.70
283.00	389.30	69.44	3.10	-0.10	1427.48	66.70
284.00	390.02	69.62	3.10	-0.10	1412.86	66.60
285.00	391.10	69.26	3.10	-0.10	1420.07	66.60
286.00	390.20	69.26	3.10	-0.10	1420.07	66.50
287.00	391.64	69.44	3.10	-0.10	1417.15	66.50
288.00	392.36	69.08	3.10	-0.10	1414.61	66.60
289.00	393.26	69.08	3.10	-0.10	1412.27	66.60
290.00	393.98	69.44	3.10	-0.10	1437.22	66.60
291.00	393.08	69.44	3.10	-0.10	1408.96	66.50
292.00	394.34	69.26	3.10	-0.10	1419.29	66.60
293.00	393.98	69.08	3.10	-0.10	1407.99	66.50
294.00	394.34	69.80	3.10	-0.10	1425.14	66.50
295.00	393.98	69.26	3.10	-0.10	1408.96	66.50
296.00	394.88	69.26	3.10	-0.10	1417.54	66.50
297.00	396.14	69.26	3.10	-0.10	1405.06	66.50
298.00	396.50	69.26	3.10	-0.10	1417.54	66.50
299.00	396.86	69.44	3.20	-0.10	1417.54	66.50
300.00	397.94	69.26	3.20	-0.10	1425.72	66.50
301.00	398.48	69.62	3.20	-0.10	1415.78	66.50
302.00	399.38	69.26	3.20	-0.10	1424.75	66.50
303.00	399.56	69.26	3.20	-0.10	1416.37	66.50
304.00	401.18	69.44	3.20	-0.10	1408.77	66.50
305.00	402.08	69.80	3.20	-0.10	1415.78	66.50
306.00	401.00	69.08	3.20	-0.10	1414.42	66.40
307.00	402.44	69.44	3.20	-0.10	1428.45	66.40
308.00	402.62	69.26	3.20	-0.10	1409.15	66.50
309.00	404.60	69.62	3.20	-0.10	1414.42	66.60
310.00	405.50	69.08	3.20	-0.10	1390.44	66.60
311.00	406.76	69.26	3.20	-0.10	1401.36	66.60
312.00	405.68	69.62	3.20	-0.10	1380.89	66.60
313.00	407.84	69.44	3.20	-0.10	1391.03	66.60
314.00	408.38	69.26	3.20	-0.10	1375.24	66.60
315.00	408.20	69.62	3.20	-0.10	1390.25	66.50
316.00	409.10	69.62	3.20	-0.10	1380.11	66.40
317.00	409.82	69.26	3.20	-0.10	1392.00	66.40
318.00	410.90	69.44	3.20	-0.10	1392.98	66.30
319.00	411.44	69.26	3.20	-0.10	1399.80	66.40
320.00	413.06	69.44	3.20	-0.10	1394.15	66.50
321.00	413.42	69.26	3.20	-0.10	1393.76	66.50
322.00	413.42	69.62	3.20	-0.10	1399.99	66.60
323.00	416.12	69.26	3.20	-0.10	1402.72	66.60
324.00	415.76	69.26	3.20	-0.10	1404.87	66.60
325.00	416.66	69.44	3.20	-0.10	1399.80	66.50
326.00	418.28	69.08	3.20	-0.10	1407.01	66.50

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	419.54	69.62	3.20	-0.10	1396.10	66.50
328.00	419.90	69.26	3.20	-0.10	1404.67	66.60
329.00	420.80	69.62	3.20	-0.10	1390.64	66.60
330.00	422.42	69.62	3.20	-0.10	1408.38	66.70
331.00	424.40	69.08	3.20	-0.10	1386.35	66.80
332.00	423.86	69.26	3.20	0.40	1401.75	66.80
333.00	424.76	69.44	3.30	-0.10	1375.63	66.70
334.00	426.38	69.62	3.30	-0.10	1397.65	66.70
335.00	426.02	69.44	3.30	-0.10	1398.04	66.60
336.00	426.74	69.62	3.30	-0.10	1392.20	66.70
337.00	427.46	69.80	3.30	-0.10	1395.90	66.70
338.00	429.62	69.80	3.30	-0.10	1383.62	66.70
339.00	429.44	69.44	3.30	-0.10	1392.20	66.70
340.00	431.78	69.62	3.30	-0.10	1381.48	66.70
341.00	431.96	69.26	3.30	-0.10	1390.83	66.70
342.00	432.86	69.26	3.30	-0.10	1374.46	66.60
343.00	433.04	69.26	3.30	-0.10	1388.10	66.50
344.00	434.30	69.62	3.30	-0.10	1374.65	66.50
345.00	434.84	69.62	3.30	-0.10	1389.47	66.50
346.00	435.56	69.80	3.30	-0.10	1378.55	66.50
347.00	436.10	69.80	3.30	-0.10	1393.56	66.50
348.00	437.18	69.62	3.30	-0.10	1386.15	66.40
349.00	437.54	69.62	3.30	-0.10	1387.13	66.40
350.00	437.18	69.44	3.30	-0.10	1390.25	66.30
351.00	440.42	69.44	3.30	-0.10	1394.15	66.30
352.00	438.98	69.44	3.30	-0.10	1396.10	66.30
353.00	439.52	69.62	3.30	-0.10	1402.72	66.30
354.00	441.50	69.44	3.30	-0.10	1410.71	66.30
355.00	441.14	69.80	3.30	-0.10	1410.13	66.30
356.00	442.04	69.44	3.30	-0.10	1419.49	66.40
357.00	442.58	70.16	3.30	-0.10	1403.50	66.40
358.00	442.58	69.80	3.30	-0.10	1428.45	66.40
359.00	444.02	69.44	3.30	-0.10	1403.50	66.40
360.00	443.48	69.80	3.30	-0.10	1420.07	66.40
361.00	444.38	69.80	3.30	-0.10	1409.54	66.40
362.00	444.20	69.80	3.30	-0.10	1428.26	66.40
363.00	446.54	69.62	3.30	-0.10	1423.97	66.30
364.00	445.64	69.62	3.30	-0.10	1430.60	66.30
365.00	447.98	69.44	3.30	-0.10	1430.60	66.30
366.00	445.64	69.62	3.30	-0.10	1435.66	66.30
367.00	447.08	69.80	3.30	-0.10	1434.10	66.40
368.00	448.34	69.80	3.30	-0.10	1427.28	66.30
369.00	449.78	69.80	3.30	-0.10	1436.25	66.20
370.00	448.52	69.62	3.30	-0.10	1440.73	66.20
371.00	450.50	69.80	3.40	-0.10	1459.44	66.20
372.00	450.68	69.26	3.40	-0.10	1450.28	66.20
373.00	452.30	69.44	3.40	-0.10	1456.13	66.10
374.00	454.28	69.80	3.40	-0.10	1454.77	66.10
375.00	453.38	69.80	3.40	-0.10	1468.61	66.10
376.00	453.56	69.62	3.40	-0.10	1450.67	66.20
377.00	455.36	69.62	3.40	-0.10	1464.90	66.20
378.00	454.46	70.16	3.40	-0.10	1454.77	66.10
379.00	455.72	69.80	3.40	-0.10	1463.34	66.10
380.00	456.62	69.62	3.40	-0.10	1448.53	66.20
381.00	457.88	69.62	3.40	-0.10	1455.55	66.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
382.00	457.88	70.16	3.40	-0.10	1459.05	66.20
383.00	458.60	69.80	3.40	-0.10	1456.91	66.20
384.00	459.32	69.62	3.40	-0.10	1460.22	66.10
385.00	458.78	70.16	3.40	-0.10	1438.78	66.20
386.00	460.22	69.98	3.40	-0.10	1451.45	66.20
387.00	460.76	69.62	3.40	-0.10	1422.60	66.30
388.00	461.48	69.98	3.40	-0.10	1445.02	66.30
389.00	462.92	70.16	3.40	0.40	1425.33	66.30
390.00	462.92	69.80	3.40	-0.10	1449.50	66.40
391.00	463.46	69.80	3.40	-0.10	1430.79	66.40
392.00	463.64	70.16	3.40	-0.10	1441.12	66.50
393.00	464.36	69.62	3.40	-0.10	1434.30	66.40
394.00	465.08	69.62	3.40	-0.10	1450.09	66.50
395.00	464.36	70.16	3.40	-0.10	1429.62	66.50
396.00	466.16	69.98	3.40	-0.10	1439.76	66.60
397.00	464.00	69.62	3.40	-0.10	1441.71	66.70
398.00	464.72	69.98	3.40	-0.10	1441.12	66.70
399.00	464.72	70.16	3.40	-0.10	1441.51	66.70
400.00	466.52	69.80	3.40	-0.10	1447.36	66.80
401.00	465.98	69.62	3.40	-0.10	1459.83	66.90
402.00	465.80	69.80	3.50	-0.10	1457.30	66.80
403.00	466.88	69.80	3.50	-0.10	1462.37	66.70
404.00	465.80	69.44	3.50	-0.10	1460.22	66.70
405.00	466.52	69.62	3.50	-0.10	1479.13	66.80
406.00	465.62	69.80	3.50	-0.10	1459.05	66.80
407.00	467.24	69.80	3.50	-0.10	1484.98	66.70
408.00	466.70	69.80	3.50	-0.10	1469.58	66.70
409.00	466.70	69.80	3.50	-0.10	1499.01	66.70
410.00	467.78	69.98	3.50	-0.10	1478.35	66.80
411.00	468.68	69.62	3.50	-0.10	1486.34	66.70
412.00	467.60	69.62	3.50	-0.10	1476.60	66.70
413.00	469.22	69.80	3.50	-0.10	1480.11	66.70
414.00	467.78	69.80	3.50	-0.10	1481.86	66.70
415.00	467.24	69.80	3.50	-0.10	1475.62	66.70
416.00	469.22	69.80	3.50	-0.10	1486.54	66.60
417.00	469.94	69.80	3.50	-0.10	1477.57	66.60
418.00	469.76	69.80	3.50	-0.10	1489.27	66.70
419.00	470.66	69.98	3.50	-0.10	1477.38	66.70
420.00	471.20	69.98	3.50	-0.10	1491.02	66.70
421.00	471.56	69.80	3.50	-0.10	1477.57	66.70
422.00	471.20	69.62	3.50	-0.10	1486.54	66.70
423.00	471.56	69.80	3.50	-0.10	1467.63	66.70
424.00	473.00	70.16	3.50	-0.10	1485.17	66.70
425.00	472.64	69.80	3.50	-0.10	1473.67	66.60
426.00	473.18	69.80	3.50	-0.10	1480.30	66.60
427.00	473.90	70.16	3.50	-0.10	1464.12	66.60
428.00	473.72	69.62	3.50	-0.10	1474.06	66.60
429.00	474.80	69.80	3.50	-0.10	1463.93	66.60
430.00	475.70	69.98	3.50	-0.10	1462.95	66.60
431.00	476.24	69.80	3.50	-0.10	1455.35	66.70
432.00	476.42	69.62	3.50	-0.10	1440.73	66.70
433.00	474.98	69.80	3.50	-0.10	1443.85	66.60
434.00	478.76	69.80	3.60	-0.10	1431.38	66.50
435.00	477.86	69.80	3.60	-0.10	1451.26	66.60
436.00	478.40	69.62	3.60	-0.10	1417.54	66.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
437.00	478.22	69.62	3.60	-0.10	1440.73	66.50
438.00	479.30	69.80	3.60	-0.10	1411.69	66.50
439.00	480.02	69.80	3.60	-0.10	1426.70	66.60
440.00	478.40	69.98	3.60	-0.10	1404.67	66.60
441.00	478.94	70.16	3.60	-0.10	1409.35	66.60
442.00	479.84	69.80	3.60	-0.10	1400.38	66.50
443.00	480.02	69.62	3.60	-0.10	1404.67	66.50
444.00	479.48	70.16	3.60	-0.10	1391.22	66.50
445.00	481.64	69.80	3.60	-0.10	1402.14	66.50
446.00	481.64	69.80	3.60	-0.10	1407.40	66.50
447.00	480.92	69.80	3.60	-0.10	1386.74	66.50
448.00	481.46	69.80	3.60	-0.10	1400.38	66.50
449.00	480.92	69.62	3.60	-0.10	1389.66	66.50
450.00	482.00	69.80	3.60	-0.10	1401.75	66.50
451.00	482.18	69.80	3.60	-0.10	1382.84	66.50
452.00	483.80	69.80	3.60	-0.10	1397.07	66.50
453.00	482.72	69.80	3.60	-0.10	1383.43	66.50
454.00	483.80	69.80	3.60	-0.10	1398.82	66.50
455.00	483.62	70.16	3.60	-0.10	1389.66	66.50
456.00	482.72	69.62	3.60	-0.10	1387.32	66.40
457.00	483.98	69.80	3.60	-0.10	1392.59	66.50
458.00	483.98	70.16	3.60	-0.10	1395.32	66.50
459.00	484.52	69.80	3.60	-0.10	1401.55	66.40
460.00	485.60	69.80	3.60	-0.10	1392.98	66.50
461.00	485.96	70.16	3.60	-0.10	1410.13	66.50
462.00	485.96	70.16	3.60	-0.10	1391.42	66.50
463.00	485.60	69.80	3.60	-0.10	1417.73	66.30
464.00	486.68	69.98	3.60	-0.10	1397.26	66.30
465.00	487.22	69.80	3.60	-0.10	1412.27	66.40
466.00	487.58	69.62	3.60	-0.10	1408.38	66.50
467.00	485.42	69.98	3.60	-0.10	1417.54	66.50
468.00	488.12	70.16	3.70	-0.10	1410.52	66.50
469.00	488.12	69.80	3.70	-0.10	1427.48	66.50
470.00	487.76	69.80	3.70	-0.10	1417.73	66.60
471.00	488.12	69.80	3.70	-0.10	1411.88	66.50
472.00	489.02	70.16	3.70	-0.10	1426.11	66.50
473.00	488.66	69.80	3.70	-0.10	1411.30	66.50
474.00	490.10	69.80	3.70	-0.10	1424.94	66.40
475.00	489.74	69.80	3.70	-0.10	1412.27	66.40
476.00	489.38	69.62	3.70	-0.10	1424.94	66.40
477.00	490.28	69.80	3.70	-0.10	1413.25	66.40
478.00	490.46	69.80	3.70	-0.10	1429.82	66.40
479.00	491.00	69.80	3.70	-0.10	1419.88	66.50
480.00	491.00	69.44	3.70	-0.10	1425.53	66.50
481.00	491.18	70.16	3.70	-0.10	1414.42	66.40
482.00	490.46	69.98	3.70	-0.10	1416.95	66.50
483.00	490.82	69.26	3.70	-0.10	1415.39	66.50
484.00	491.90	69.98	3.70	-0.10	1412.86	66.50
485.00	491.90	69.98	3.70	-0.10	1415.78	66.50
486.00	491.54	69.80	3.70	-0.10	1414.22	66.40
487.00	491.72	70.16	3.70	-0.10	1423.97	66.40
488.00	491.54	69.80	3.70	-0.10	1412.86	66.40
489.00	492.62	69.98	3.70	-0.10	1431.57	66.50
490.00	490.64	69.80	3.70	-0.10	1404.67	66.50
491.00	491.54	70.16	3.70	-0.10	1431.96	66.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
492.00	491.72	69.98	3.70	-0.10	1417.15	66.40
493.00	492.26	69.80	3.70	-0.10	1428.84	66.40
494.00	492.08	69.80	3.70	-0.10	1424.55	66.40
495.00	492.26	69.98	3.70	-0.10	1429.43	66.30
496.00	492.26	69.80	3.80	-0.10	1432.74	66.30
497.00	491.54	69.80	3.80	-0.10	1429.62	66.20
498.00	491.90	70.16	3.80	-0.10	1436.05	66.20
499.00	492.62	69.80	3.80	-0.10	1438.59	66.10
500.00	492.98	69.80	3.80	-0.10	1432.35	66.00
501.00	493.52	69.98	3.80	-0.10	1428.26	66.00
502.00	494.60	69.98	3.80	-0.10	1442.49	66.00
503.00	492.98	69.80	3.80	-0.10	1423.78	66.00
504.00	493.16	70.16	3.80	-0.10	1443.46	66.00
505.00	493.52	70.16	3.80	-0.10	1425.72	66.00
506.00	493.88	69.80	3.80	-0.10	1455.74	66.00
507.00	493.70	70.16	3.80	-0.10	1434.10	66.00
508.00	493.34	70.16	3.80	-0.10	1434.49	66.00
509.00	493.34	69.62	3.80	-0.10	1437.42	66.00
510.00	494.60	69.98	3.80	-0.10	1434.69	66.00
511.00	494.24	70.16	3.80	-0.10	1421.63	66.00
512.00	494.06	69.98	3.80	-0.10	1423.38	66.00
513.00	494.78	69.80	3.80	0.40	1420.07	66.00
514.00	494.42	69.98	3.80	-0.10	1408.38	66.00
515.00	495.50	69.80	3.80	-0.10	1425.72	66.10
516.00	494.78	70.34	3.80	-0.10	1410.91	66.20
517.00	495.14	70.16	3.80	-0.10	1411.49	66.30
518.00	496.22	69.80	3.80	-0.10	1399.21	66.30
519.00	494.96	69.62	3.80	-0.10	1410.32	66.30
520.00	495.68	69.98	3.80	-0.10	1390.64	66.30
521.00	495.32	70.34	3.80	-0.10	1398.43	66.20
522.00	495.68	70.16	3.80	-0.10	1388.49	66.30
523.00	495.86	69.62	3.80	-0.10	1388.30	66.30
524.00	496.40	69.80	3.80	-0.10	1378.55	66.30
525.00	496.58	69.98	3.80	-0.10	1387.91	66.40
526.00	496.76	69.80	3.80	-0.10	1389.27	66.40
527.00	497.12	69.98	3.90	-0.10	1376.41	66.50
528.00	497.48	70.16	3.90	-0.10	1376.41	66.60
529.00	496.94	69.80	3.90	-0.10	1353.80	66.50
530.00	497.48	70.34	3.90	-0.10	1372.12	66.60
531.00	497.66	70.16	3.90	-0.10	1355.94	66.60
532.00	497.66	70.16	3.90	-0.10	1366.47	66.60
533.00	497.66	69.80	3.90	-0.10	1355.55	66.70
534.00	498.02	69.98	3.90	-0.10	1369.78	66.80
535.00	498.74	69.98	3.90	-0.10	1363.15	66.80
536.00	498.02	69.80	3.90	-0.10	1387.71	66.90
537.00	498.38	69.98	3.90	-0.10	1390.83	67.00
538.00	497.84	70.16	3.90	-0.10	1405.45	67.00
539.00	498.38	69.80	3.90	-0.10	1400.38	67.00
540.00	498.74	70.52	3.90	-0.10	1409.74	66.90
541.00	498.56	70.34	3.90	-0.10	1412.08	67.00
542.00	498.38	69.80	3.90	0.40	1414.61	67.00
543.00	498.02	69.98	3.90	-0.10	1426.11	67.00
544.00	498.02	70.16	3.90	0.40	1419.10	67.00
545.00	498.38	70.16	3.90	-0.10	1433.91	67.10
546.00	497.66	69.80	3.90	-0.10	1411.49	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
547.00	496.94	70.16	3.90	-0.10	1443.27	67.00
548.00	496.94	70.16	3.90	-0.10	1421.82	67.00
549.00	497.12	69.98	3.90	-0.10	1452.82	67.00
550.00	496.40	70.16	3.90	-0.10	1440.93	66.90
551.00	496.94	70.34	3.90	-0.10	1459.64	66.80
552.00	496.40	69.98	4.00	-0.10	1464.12	66.80
553.00	496.22	69.98	4.00	-0.10	1480.30	66.80
554.00	496.76	69.98	4.00	-0.10	1481.08	66.80
555.00	496.76	70.16	4.00	-0.10	1484.78	66.80
556.00	496.94	69.80	4.00	-0.10	1501.94	66.80
557.00	497.12	69.98	4.00	-0.10	1495.31	66.70
558.00	497.66	70.16	4.00	-0.10	1502.33	66.70
559.00	498.02	70.34	4.00	-0.10	1505.05	66.60
560.00	498.20	69.80	4.00	-0.10	1507.39	66.50
561.00	497.48	70.34	4.00	-0.10	1505.64	66.40
562.00	498.74	70.16	4.00	-0.10	1519.28	66.40
563.00	499.10	69.98	4.00	-0.10	1502.52	66.40
564.00	499.10	70.16	4.00	-0.10	1527.08	66.40
565.00	499.64	70.16	4.00	0.40	1511.88	66.50
566.00	500.00	69.80	4.00	-0.10	1523.96	66.50
567.00	500.72	70.16	4.00	-0.10	1507.78	66.50
568.00	501.62	70.16	4.00	-0.10	1509.93	66.50
569.00	501.08	70.16	4.00	-0.10	1507.20	66.50
570.00	501.44	70.16	4.00	-0.10	1507.20	66.50
571.00	501.62	70.52	4.00	-0.10	1516.56	66.40
572.00	501.98	69.98	4.00	-0.10	1508.56	66.50
573.00	501.98	70.16	4.00	-0.10	1515.00	66.50
574.00	502.16	70.16	4.00	-0.10	1508.95	66.50
575.00	502.34	70.34	4.00	-0.10	1517.53	66.50
576.00	502.34	70.16	4.00	-0.10	1505.64	66.50
577.00	502.88	70.16	4.00	-0.10	1516.75	66.50
578.00	503.24	70.16	4.00	-0.10	1492.78	66.50
579.00	503.06	70.16	4.00	-0.10	1515.97	66.50
580.00	503.60	70.16	4.00	-0.10	1490.44	66.60
581.00	503.78	70.52	4.10	-0.10	1518.50	66.60
582.00	503.60	70.52	4.10	-0.10	1492.78	66.50
583.00	504.86	69.98	4.10	0.40	1517.92	66.50
584.00	503.60	70.16	4.10	-0.10	1483.22	66.50
585.00	503.96	70.34	4.10	-0.10	1510.71	66.50
586.00	505.04	69.98	4.10	-0.10	1483.03	66.50
587.00	504.14	70.16	4.10	-0.10	1508.56	66.40
588.00	504.68	70.16	4.10	-0.10	1485.17	66.40
589.00	505.22	70.16	4.10	-0.10	1507.00	66.40
590.00	504.68	70.52	4.10	-0.10	1496.48	66.40
591.00	504.68	70.34	4.10	-0.10	1498.04	66.40
592.00	506.12	70.34	4.10	-0.10	1489.66	66.40
593.00	505.94	70.52	4.10	-0.10	1488.29	66.50
594.00	505.76	70.52	4.10	0.40	1489.46	66.50
595.00	505.58	70.16	4.10	-0.10	1484.00	66.60
596.00	505.76	70.16	4.10	-0.10	1484.20	66.60
597.00	505.22	70.16	4.10	-0.10	1478.35	66.60
598.00	505.76	70.70	4.10	-0.10	1490.44	66.50
599.00	506.84	70.16	4.10	-0.10	1480.11	66.50
600.00	506.84	70.52	4.10	-0.10	1489.66	66.40
601.00	506.30	70.34	4.10	-0.10	1472.50	66.40

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
602.00	507.20	70.70	4.10	-0.10	1480.30	66.40
603.00	505.76	70.16	4.10	-0.10	1456.52	66.40
604.00	505.94	70.70	4.10	-0.10	1467.63	66.40
605.00	506.84	70.52	4.10	-0.10	1457.10	66.40
606.00	506.66	70.34	4.10	-0.10	1461.00	66.30
607.00	506.30	70.70	4.10	-0.10	1462.37	66.30
608.00	506.12	70.52	4.10	-0.10	1460.81	66.30
609.00	507.38	70.34	4.10	-0.10	1461.39	66.20
610.00	507.02	70.52	4.10	-0.10	1456.71	66.20
611.00	507.38	70.70	4.10	-0.10	1450.67	66.30
612.00	507.38	70.52	4.10	-0.10	1446.97	66.30
613.00	506.84	70.34	4.10	-0.10	1448.92	66.30
614.00	507.20	70.70	4.10	-0.10	1450.87	66.30
615.00	507.74	70.52	4.10	-0.10	1473.48	66.40
616.00	507.38	70.52	4.20	-0.10	1447.16	66.40
617.00	507.20	70.52	4.20	-0.10	1470.75	66.40
618.00	507.74	70.52	4.20	-0.10	1439.95	66.40
619.00	507.92	70.34	4.20	-0.10	1470.75	66.50
620.00	508.10	70.52	4.20	-0.10	1442.88	66.50
621.00	507.56	70.52	4.20	-0.10	1465.29	66.60
622.00	507.92	70.70	4.20	-0.10	1443.66	66.60
623.00	508.10	70.16	4.20	-0.10	1476.60	66.60
624.00	508.28	70.52	4.20	-0.10	1447.36	66.60
625.00	508.46	70.52	4.20	-0.10	1461.98	66.50
626.00	508.82	70.34	4.20	-0.10	1447.36	66.40
627.00	508.64	70.52	4.20	-0.10	1458.27	66.30
628.00	508.28	70.52	4.20	-0.10	1448.33	66.30
629.00	509.54	70.52	4.20	-0.10	1449.11	66.40
630.00	509.54	70.52	4.20	-0.10	1441.32	66.40
631.00	508.82	70.88	4.20	-0.10	1440.34	66.40
632.00	509.72	70.52	4.20	-0.10	1439.95	66.30
633.00	509.00	70.52	4.20	-0.10	1428.06	66.20
634.00	509.00	70.52	4.20	-0.10	1432.93	66.10
635.00	509.54	70.52	4.20	-0.10	1422.80	66.10
636.00	509.36	70.34	4.20	-0.10	1420.27	66.10
637.00	508.82	70.34	4.20	-0.10	1411.10	66.10
638.00	509.72	70.52	4.20	-0.10	1414.61	66.10
639.00	509.72	70.34	4.20	-0.10	1402.92	66.00
640.00	509.90	70.70	4.20	-0.10	1410.91	66.00
641.00	509.54	70.70	4.20	-0.10	1398.82	66.10
642.00	509.90	70.52	4.20	-0.10	1413.83	66.10
643.00	510.44	70.52	4.20	-0.10	1399.41	66.10
644.00	509.36	70.34	4.20	-0.10	1408.38	66.10
645.00	510.80	70.70	4.20	-0.10	1399.80	66.00
646.00	510.26	70.52	4.20	-0.10	1407.40	65.90
647.00	510.62	70.70	4.20	-0.10	1400.58	65.90
648.00	511.16	70.16	4.20	-0.10	1396.88	66.00
649.00	510.62	70.16	4.20	-0.10	1389.27	66.10
650.00	510.62	70.70	4.20	-0.10	1392.20	66.30
651.00	511.52	70.70	4.20	-0.10	1390.05	66.30
652.00	511.34	70.16	4.20	-0.10	1381.28	66.20
653.00	511.34	70.52	4.20	-0.10	1382.84	66.20
654.00	512.24	70.70	4.20	-0.10	1367.64	66.20
655.00	511.88	70.70	4.20	-0.10	1376.21	66.30
656.00	511.88	70.34	4.20	-0.10	1359.84	66.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
657.00	512.06	70.52	4.20	-0.10	1367.05	66.40
658.00	512.06	70.34	4.20	-0.10	1353.80	66.50
659.00	512.24	70.52	4.20	-0.10	1363.35	66.50
660.00	512.78	70.52	4.20	-0.10	1344.64	66.50
661.00	513.50	70.70	4.20	-0.10	1360.62	66.40
662.00	512.96	70.52	4.20	-0.10	1344.64	66.40
663.00	513.14	70.52	4.30	-0.10	1353.21	66.50
664.00	529.88	70.70	4.30	-0.10	1341.32	66.50
665.00	513.14	70.16	4.30	-0.10	1339.76	66.60
666.00	513.68	70.52	4.30	-0.10	1337.81	66.60
667.00	513.68	70.52	4.30	-0.10	1338.40	66.50
668.00	513.86	70.88	4.30	-0.10	1337.42	66.50
669.00	513.50	70.52	4.30	-0.10	1332.55	66.50
670.00	513.50	70.70	4.30	-0.10	1335.48	66.60
671.00	513.50	70.70	4.30	-0.10	1323.39	66.70
672.00	513.86	70.70	4.30	-0.10	1328.46	66.70
673.00	514.22	70.52	4.30	-0.10	1317.35	66.60
674.00	514.40	70.70	4.30	-0.10	1325.73	66.60
675.00	513.68	70.52	4.30	-0.10	1316.76	66.70
676.00	514.40	70.52	4.30	-0.10	1329.43	66.80
677.00	513.86	70.52	4.30	-0.10	1306.24	66.80
678.00	514.40	70.70	4.30	-0.10	1321.64	66.70
679.00	514.40	70.52	4.30	-0.10	1319.88	66.80
680.00	514.04	70.70	4.30	-0.10	1321.64	66.80
681.00	514.94	70.88	4.30	-0.10	1320.47	66.90
682.00	513.86	70.70	4.30	-0.10	1324.56	66.90
683.00	514.58	70.52	4.30	-0.10	1322.81	66.90
684.00	514.58	70.70	4.30	-0.10	1324.95	66.90
685.00	515.12	70.70	4.30	-0.10	1330.60	67.00
686.00	514.58	70.70	4.30	-0.10	1325.92	67.00
687.00	514.22	70.88	4.30	-0.10	1348.54	67.00
688.00	514.76	70.88	4.30	-0.10	1333.14	66.90
689.00	514.40	70.52	4.30	-0.10	1359.65	67.00
690.00	515.30	70.88	4.30	-0.10	1341.71	67.00
691.00	514.04	70.88	4.30	-0.10	1360.23	67.00
692.00	514.40	70.52	4.40	-0.10	1348.54	66.90
693.00	514.76	70.52	4.40	-0.10	1350.09	66.90
694.00	514.94	70.70	4.40	-0.10	1346.00	67.00
695.00	514.94	70.52	4.40	-0.10	1351.85	67.10
696.00	514.76	70.52	4.40	-0.10	1353.60	67.00
697.00	514.04	70.70	4.40	-0.10	1353.02	66.90
698.00	514.40	70.70	4.40	-0.10	1362.18	66.80
699.00	514.58	70.52	4.40	-0.10	1356.92	66.80
700.00	514.04	70.70	4.40	-0.10	1365.69	66.80
701.00	514.76	70.70	4.40	-0.10	1357.89	66.70
702.00	515.12	70.52	4.40	-0.10	1367.25	66.80
703.00	513.68	70.52	4.40	-0.10	1356.72	66.80
704.00	514.76	70.88	4.40	-0.10	1386.93	66.90
705.00	515.12	70.52	4.40	-0.10	1354.19	66.80
706.00	514.40	70.52	4.40	-0.10	1373.87	66.70
707.00	514.04	70.70	4.40	-0.10	1365.10	66.60
708.00	515.48	70.52	4.40	-0.10	1379.33	66.60
709.00	515.30	70.52	4.40	-0.10	1367.64	66.80
710.00	514.58	70.70	4.40	-0.10	1375.24	66.80
711.00	515.84	70.88	4.40	-0.10	1371.93	66.80

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
712.00	515.84	70.52	4.40	-0.10	1369.59	66.80
713.00	516.20	70.70	4.40	0.40	1365.88	66.70
714.00	516.20	70.52	4.40	0.40	1362.96	66.80
715.00	515.84	70.52	4.40	-0.10	1373.29	66.60
716.00	515.66	70.52	4.40	-0.10	1359.84	66.40
717.00	515.66	70.88	4.40	-0.10	1365.69	66.40
718.00	516.02	70.70	4.40	-0.10	1364.32	66.40
719.00	516.92	70.34	4.40	-0.10	1367.83	66.50
720.00	515.30	71.06	4.50	-0.10	1347.37	66.40
721.00	515.66	70.88	4.50	-0.10	1361.59	66.50
722.00	515.48	70.70	4.50	-0.10	1350.09	66.60
723.00	515.12	70.34	4.50	-0.10	1356.33	66.60
724.00	515.48	70.88	4.50	-0.10	1340.54	66.60
725.00	515.12	70.52	4.50	-0.10	1351.46	66.50
726.00	514.22	70.52	4.50	-0.10	1370.37	67.00
727.00	514.94	70.52	4.50	-0.10	1391.61	67.40
728.00	514.94	70.70	4.10	-0.10	1387.91	67.10
729.00	514.40	70.34	3.90	-0.10	1368.42	67.40
730.00	513.50	70.88	3.60	-0.10	1399.80	67.70
731.00	513.50	70.88	3.60	-0.10	1326.90	68.30
732.00	512.96	70.52	3.60	-0.10	1253.41	55.80
733.00	511.88	70.70	3.60	-0.10	1169.01	32.50
734.00	511.88	70.52	3.60	-0.10	1130.03	18.30
735.00	510.80	70.52	3.60	-0.10	1059.47	10.30
736.00	510.08	70.52	3.60	-0.10	1030.43	5.60
737.00	509.90	70.70	3.60	-0.10	987.55	2.90
738.00	509.18	70.52	3.60	-0.10	977.02	1.30
739.00	508.46	70.52	3.60	-0.10	943.30	0.40
740.00	507.56	70.88	3.60	-0.10	919.91	-0.10
741.00	507.38	70.70	3.60	-0.10	907.43	-0.50
742.00	506.66	70.52	3.60	-0.10	897.69	-0.70
743.00	505.58	70.52	3.60	-0.10	882.87	-0.80
744.00	505.22	70.88	3.60	-0.10	875.27	-0.60
745.00	504.50	70.88	3.60	-0.10	862.21	-0.70
746.00	503.78	70.52	3.60	-0.10	855.39	-0.80
747.00	503.42	70.88	3.60	-0.10	851.10	-0.90
748.00	503.06	70.52	3.60	-0.10	834.14	-0.90

Ignitibility Testing: Drilling into Saltcake, 1 ft3/min, no purge, 2nd run

9/1/94

File Name: Run08_4c

Time(Sec)	Bittemp(F)	PrgTemp(F)	Bdepth(in)	Purge(psi)	Dfrcf(lbs)	Rotat(RPM)
16.80	127.58	70.16	0.00	-0.10	1273.49	68.10
17.79	127.76	68.72	0.20	-0.10	1351.85	68.10
18.78	124.52	69.26	0.40	-0.10	1329.24	68.00
19.77	124.70	70.70	0.60	-0.10	1361.01	67.80
20.76	125.24	69.62	0.90	-0.10	1360.04	67.70
21.75	126.86	69.80	1.00	-0.10	1388.10	67.50
22.74	128.84	68.90	1.10	-0.10	1396.10	67.30
23.73	130.64	69.80	1.20	-0.10	1408.57	67.10
24.71	134.06	69.62	1.30	-0.10	1402.14	67.00
25.70	136.94	69.44	1.40	-0.10	1411.49	66.90
27.24	142.34	69.80	1.50	-0.10	1423.19	66.90
28.23	145.58	69.80	1.50	-0.10	1428.84	66.90
29.22	149.72	70.16	1.60	-0.10	1410.52	66.90
30.21	152.78	69.26	1.60	-0.10	1403.89	66.80
31.20	156.92	70.52	1.70	-0.10	1370.95	66.80
32.18	160.52	70.88	1.70	-0.10	1424.55	66.80
33.17	165.02	69.44	1.70	-0.10	1420.46	66.80
34.16	167.72	70.16	1.80	-0.10	1446.58	66.80
35.15	171.68	69.08	1.80	-0.10	1440.34	66.80
36.14	174.20	71.24	1.80	-0.10	1459.25	66.70
37.13	177.26	70.16	1.80	-0.10	1430.21	66.70
38.12	180.68	67.82	1.90	-0.10	1469.97	66.70
39.10	182.84	69.08	1.90	-0.10	1445.02	66.80
40.09	183.74	70.16	1.90	-0.10	1447.94	66.90
41.08	185.00	69.26	1.90	-0.10	1447.55	66.80
42.07	186.44	71.42	1.90	-0.10	1437.81	66.90
43.06	189.14	67.82	1.90	-0.10	1426.70	67.00
44.05	191.66	69.98	1.90	-0.10	1435.66	67.00
45.04	192.20	68.90	1.90	-0.10	1445.21	67.00
46.03	194.54	69.62	1.90	-0.10	1407.60	67.00
47.01	196.16	70.16	1.90	-0.10	1435.08	67.00
48.00	198.32	70.70	1.90	-0.10	1418.32	66.80
48.99	199.22	69.98	2.00	-0.10	1434.10	66.60
49.98	201.92	69.98	2.00	-0.10	1440.93	66.60
50.97	201.92	69.26	2.00	-0.10	1426.70	66.50
51.96	203.00	70.70	2.00	-0.10	1417.54	66.60
52.95	204.98	70.34	2.00	-0.10	1445.60	66.60
53.93	206.24	69.08	2.00	-0.10	1406.62	66.60
54.92	207.68	70.16	2.00	-0.10	1437.03	66.50
55.91	209.48	68.90	2.00	-0.10	1423.78	66.60
56.90	211.64	69.44	2.00	-0.10	1423.97	66.60
57.89	212.90	69.44	2.00	-0.10	1389.86	66.60
58.88	214.52	70.34	2.00	-0.10	1393.95	66.60
59.87	215.96	69.08	2.00	-0.10	1400.77	66.60
60.86	217.76	69.98	2.00	-0.10	1379.92	66.50
61.84	219.20	70.34	2.00	-0.10	1388.10	66.60
62.83	219.74	69.44	2.00	-0.10	1380.70	66.70
63.82	222.08	70.16	2.00	-0.10	1370.17	66.80
64.81	222.44	70.16	2.00	-0.10	1366.66	66.80
65.80	224.06	71.24	2.00	-0.10	1359.84	66.80
66.79	224.96	69.08	2.00	-0.10	1366.86	66.80
67.78	226.04	68.90	2.00	-0.10	1384.98	66.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
68.76	227.48	69.26	2.00	-0.10	1349.12	66.80
69.75	229.46	68.72	2.00	-0.10	1376.02	66.70
70.74	228.92	70.70	2.00	-0.10	1340.35	66.70
71.73	230.00	69.62	2.00	-0.10	1381.67	66.70
72.72	230.72	67.64	2.00	-0.10	1362.37	66.70
73.71	231.80	68.18	2.00	-0.10	1381.67	66.80
74.70	232.88	70.52	2.00	-0.10	1362.37	66.90
75.69	233.78	69.80	2.00	-0.10	1369.59	67.00
76.67	234.50	68.90	2.00	-0.10	1356.14	66.90
77.66	235.94	69.62	2.00	-0.10	1353.99	66.90
78.65	236.48	70.34	2.00	-0.10	1397.46	66.90
79.64	237.56	70.16	2.00	-0.10	1360.81	67.00
80.63	238.64	69.80	2.00	-0.10	1383.23	67.10
81.62	239.90	68.36	2.00	-0.10	1361.01	67.10
82.61	240.26	69.62	2.00	-0.10	1359.26	67.10
83.59	242.42	69.98	2.00	-0.10	1371.34	67.20
84.58	242.42	69.08	2.00	-0.10	1378.94	67.20
85.57	243.68	69.62	2.00	-0.10	1362.76	67.30
86.56	244.40	70.16	2.00	-0.10	1382.26	67.30
87.55	246.02	69.08	2.00	-0.10	1372.12	67.20
88.54	247.46	69.98	2.00	-0.10	1390.05	67.20
89.53	248.00	69.08	2.00	-0.10	1363.93	67.20
90.51	248.18	69.80	2.00	-0.10	1381.67	67.20
91.50	249.44	69.98	2.00	-0.10	1378.55	67.20
92.49	251.06	69.44	2.00	-0.10	1372.12	67.20
93.48	251.60	70.16	2.00	-0.10	1365.69	67.10
94.47	251.78	71.24	2.00	-0.10	1370.37	67.10
95.46	254.12	69.98	2.00	-0.10	1369.59	67.10
96.45	253.58	69.80	2.00	-0.10	1360.43	67.10
97.44	255.38	70.70	2.00	-0.10	1362.76	67.10
98.42	255.38	69.98	2.00	-0.10	1365.49	67.10
99.41	256.10	69.80	2.00	-0.10	1362.18	67.10
100.40	257.54	69.98	2.00	-0.10	1350.87	67.00
101.39	258.62	69.98	2.00	-0.10	1368.03	67.10
102.38	258.98	70.52	2.00	-0.10	1357.11	67.10
103.37	259.88	70.88	2.00	-0.10	1365.49	67.00
104.36	261.32	69.62	2.00	-0.10	1352.24	66.90
105.34	261.14	69.26	2.00	-0.10	1363.93	66.90
106.33	262.94	69.62	2.10	-0.10	1344.83	67.00
107.32	264.20	69.80	2.10	-0.10	1384.21	67.00
108.31	265.46	70.16	2.10	-0.10	1382.84	67.00
109.30	265.82	70.52	2.10	-0.10	1390.83	67.00
110.29	267.08	69.98	2.10	-0.10	1368.22	67.00
111.28	268.34	69.80	2.10	-0.10	1372.12	67.00
112.27	270.50	70.52	2.10	-0.10	1352.82	67.00
113.25	269.96	70.52	2.10	-0.10	1351.46	67.00
114.24	271.22	69.44	2.10	-0.10	1370.76	67.00
115.23	272.66	69.44	2.10	-0.10	1373.68	67.00
116.22	274.10	69.44	2.10	-0.10	1366.66	67.10
117.21	274.82	71.60	2.10	-0.10	1380.11	67.10
118.20	275.72	71.42	2.10	-0.10	1395.51	67.10
119.19	277.52	69.08	2.10	-0.10	1373.68	67.00
120.17	278.96	69.98	2.10	-0.10	1396.29	67.00
121.16	279.68	70.34	2.10	-0.10	1376.60	67.00
122.15	282.20	70.52	2.10	-0.10	1403.70	66.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
123.14	282.92	70.70	2.10	-0.10	1374.07	66.80
124.13	283.64	70.70	2.10	-0.10	1375.63	66.80
125.12	286.16	69.98	2.10	-0.10	1349.12	66.90
126.11	285.80	69.62	2.10	-0.10	1370.95	66.90
127.10	286.34	70.34	2.10	-0.10	1343.08	66.80
128.08	287.60	69.08	2.10	-0.10	1355.55	66.80
129.07	288.32	68.00	2.10	-0.10	1331.38	66.80
130.06	289.04	69.98	2.10	-0.10	1362.18	66.90
131.05	290.66	71.06	2.10	-0.10	1370.95	66.90
132.04	290.66	70.16	2.10	-0.10	1375.63	66.80
133.03	291.74	70.16	2.10	-0.10	1372.12	66.70
134.02	292.82	69.62	2.10	-0.10	1366.08	66.70
135.00	293.72	67.82	2.10	-0.10	1373.87	66.70
135.99	294.98	70.16	2.10	-0.10	1362.37	66.60
136.98	295.52	69.98	2.10	-0.10	1362.37	66.70
137.97	296.42	69.80	2.10	-0.10	1348.54	66.90
138.96	298.04	71.96	2.20	-0.10	1354.97	66.90
139.95	297.50	69.98	2.10	-0.10	1335.28	66.80
140.94	298.04	70.16	2.20	-0.10	1367.64	66.70
141.93	299.12	69.98	2.20	-0.10	1351.26	66.80
142.91	300.92	69.62	2.20	-0.10	1346.20	66.80
143.90	300.74	70.34	2.20	-0.10	1360.23	66.80
144.89	301.28	71.60	2.20	-0.10	1355.16	66.70
145.88	302.54	69.98	2.20	-0.10	1365.10	66.70
146.87	302.36	70.88	2.20	-0.10	1354.97	66.80
147.86	303.98	70.34	2.20	-0.10	1348.15	66.90
148.85	304.70	69.98	2.20	-0.10	1346.98	66.90
149.83	304.34	69.80	2.20	-0.10	1360.43	66.90
150.82	305.78	68.90	2.20	-0.10	1335.48	67.00
151.81	306.14	70.70	2.20	-0.10	1362.96	66.90
152.80	305.78	70.52	2.20	-0.10	1338.59	66.90
153.79	307.22	70.34	2.20	-0.10	1361.01	66.90
154.78	307.94	71.60	2.20	-0.10	1337.42	66.90
155.77	308.48	70.70	2.20	-0.10	1355.36	66.90
156.76	308.48	68.54	2.20	-0.10	1343.47	66.90
157.74	309.56	69.44	2.20	-0.10	1340.54	66.90
158.73	309.74	70.16	2.20	-0.10	1317.74	66.90
159.72	310.64	69.08	2.20	-0.10	1353.41	66.90
160.71	311.72	70.88	2.20	-0.10	1369.20	66.90
161.70	312.26	70.88	2.20	-0.10	1357.11	66.90
162.69	312.62	71.06	2.20	-0.10	1376.02	66.90
163.68	312.98	70.70	2.20	-0.10	1338.98	66.80
164.66	313.16	69.80	2.20	-0.10	1372.90	66.90
165.65	314.24	70.34	2.20	-0.10	1379.92	66.80
166.64	314.60	69.62	2.30	-0.10	1373.48	66.80
167.63	314.78	70.70	2.30	-0.10	1356.72	66.80
168.62	315.68	71.78	2.30	-0.10	1367.44	66.90
169.61	316.04	69.44	2.30	-0.10	1367.05	67.00
170.60	316.94	70.52	2.30	-0.10	1384.21	66.90
171.58	317.30	71.24	2.30	-0.10	1385.37	66.80
172.57	318.20	69.62	2.30	-0.10	1369.59	66.80
173.56	319.28	69.44	2.30	-0.10	1375.04	66.70
174.55	318.92	71.06	2.30	-0.10	1360.62	66.80
175.54	319.64	71.06	2.30	-0.10	1373.09	66.80
176.53	319.46	70.70	2.30	-0.10	1342.10	66.90

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
177.52	321.26	70.70	2.30	-0.10	1373.09	66.80
178.51	322.34	70.52	2.30	-0.10	1369.59	66.80
179.49	321.62	69.08	2.30	-0.10	1402.72	66.70
180.48	322.34	70.52	2.30	-0.10	1353.41	66.80
181.47	323.78	69.80	2.30	-0.10	1383.82	66.80
182.46	324.68	70.52	2.30	-0.10	1372.51	66.80
183.45	324.68	70.16	2.30	-0.10	1405.06	66.80
184.44	325.22	68.36	2.30	-0.10	1363.54	66.70
185.43	325.76	70.16	2.30	-0.10	1371.54	66.70
186.41	326.12	69.26	2.30	-0.10	1375.24	66.70
187.40	326.30	71.06	2.30	-0.10	1365.88	66.70
188.39	326.84	70.34	2.30	-0.10	1359.45	66.70
189.38	327.74	70.34	2.30	-0.10	1388.88	66.60
190.37	327.92	69.98	2.30	-0.10	1352.04	66.60
191.36	328.10	69.44	2.30	-0.10	1368.22	66.60
192.35	328.64	70.52	2.30	-0.10	1370.76	66.60
193.34	329.72	70.88	2.30	-0.10	1347.37	66.60
194.32	330.08	70.52	2.30	-0.10	1375.04	66.60
195.31	330.80	70.16	2.30	-0.10	1356.53	66.60
196.30	330.44	70.70	2.30	-0.10	1360.81	66.60
197.29	330.98	70.88	2.30	-0.10	1361.20	66.60
198.28	331.52	69.62	2.30	-0.10	1353.41	66.60
199.27	331.52	69.62	2.30	-0.10	1358.09	66.60
200.26	332.42	71.06	2.30	-0.10	1343.47	66.60
201.24	332.24	70.88	2.30	-0.10	1343.47	66.70
202.23	333.14	69.62	2.30	-0.10	1335.28	66.70
203.22	333.14	69.80	2.30	-0.10	1360.04	66.80
204.21	335.30	70.16	2.30	-0.10	1316.37	66.80
205.20	334.94	71.06	2.30	-0.10	1350.29	66.90
206.19	334.94	69.98	2.40	-0.10	1324.56	67.00
207.18	336.20	69.44	2.40	-0.10	1363.15	67.00
208.17	336.74	69.26	2.40	-0.10	1316.18	66.90
209.15	337.10	70.16	2.40	-0.10	1369.78	66.90
210.14	337.64	69.62	2.40	-0.10	1362.96	66.90
211.13	339.08	71.24	2.40	-0.10	1366.66	66.80
212.12	339.08	70.16	2.40	-0.10	1396.29	66.90
213.11	339.44	71.60	2.40	-0.10	1391.42	66.90
214.10	339.80	70.70	2.40	-0.10	1413.05	67.00
215.09	339.62	71.06	2.40	-0.10	1405.06	67.10
216.07	340.34	69.80	2.40	-0.10	1417.54	67.20
217.06	341.42	69.26	2.40	-0.10	1410.13	67.20
218.05	341.42	69.80	2.40	-0.10	1426.31	67.30
219.04	342.32	72.50	2.40	-0.10	1402.33	67.30
220.03	342.14	69.80	2.40	-0.10	1423.38	67.30
221.02	343.22	69.80	2.40	-0.10	1374.65	67.20
222.01	344.66	70.34	2.40	-0.10	1374.07	67.20
223.00	344.48	69.26	2.40	-0.10	1352.24	67.20
223.98	345.02	70.16	2.40	-0.10	1369.59	67.20
224.97	344.84	70.16	2.50	-0.10	1352.63	67.30
225.96	345.92	70.52	2.50	-0.10	1353.02	67.30
226.95	345.74	69.62	2.50	-0.10	1352.24	67.30
227.94	346.82	69.26	2.50	-0.10	1353.21	67.20
228.93	345.74	69.62	2.50	-0.10	1364.13	67.20
229.92	345.92	69.62	2.50	-0.10	1348.54	67.10
230.90	347.18	70.16	2.50	-0.10	1361.59	67.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
231.89	346.28	69.98	2.50	-0.10	1357.50	67.00
232.88	346.82	70.88	2.50	-0.10	1381.67	67.00
233.87	347.54	69.26	2.50	-0.10	1338.40	67.10
234.86	346.82	70.34	2.50	-0.10	1359.45	67.10
235.85	348.08	70.70	2.50	-0.10	1336.84	67.10
236.84	348.26	70.52	2.50	-0.10	1344.44	67.10
237.83	348.44	68.00	2.50	-0.10	1349.51	67.20
238.81	349.16	69.44	2.50	-0.10	1342.10	67.20
239.80	348.80	70.88	2.50	-0.10	1338.59	67.20
240.79	348.62	69.26	2.50	-0.10	1353.02	67.20
241.78	348.98	70.16	2.50	-0.10	1362.57	67.20
242.77	349.16	69.62	2.50	-0.10	1332.55	67.20
243.76	348.98	70.16	2.60	-0.10	1346.20	67.20
244.75	349.70	70.16	2.60	-0.10	1339.18	67.10
245.73	348.62	69.08	2.60	-0.10	1370.76	67.20
246.72	348.80	70.70	2.60	-0.10	1330.60	67.20
247.71	350.06	70.70	2.60	-0.10	1367.64	67.20
248.70	349.34	69.44	2.60	-0.10	1358.87	67.20
249.69	349.16	70.52	2.60	-0.10	1370.56	67.10
250.68	350.06	69.80	2.60	-0.10	1348.34	67.00
251.67	350.06	70.16	2.60	-0.10	1368.42	66.90
252.65	349.88	70.16	2.60	-0.10	1384.60	66.90
253.64	350.60	70.16	2.60	-0.10	1375.63	66.90
254.63	350.78	70.16	2.60	-0.10	1372.51	66.90
255.62	350.60	69.08	2.60	-0.10	1388.10	67.00
256.61	351.32	70.70	2.60	-0.10	1379.92	66.90
257.60	351.50	69.26	2.60	-0.10	1367.05	66.90
258.59	351.14	69.08	2.60	-0.10	1378.16	66.90
259.58	351.50	72.50	2.60	-0.10	1363.35	66.80
260.56	351.68	69.26	2.60	-0.10	1348.34	66.80
261.55	350.78	70.70	2.60	-0.10	1343.47	66.90
262.54	351.86	71.24	2.70	-0.10	1360.04	66.90
263.53	350.78	71.06	2.70	-0.10	1337.62	66.90
264.52	350.78	69.80	2.70	-0.10	1342.10	66.90
265.51	351.32	68.36	2.70	-0.10	1327.09	66.90
266.50	351.14	71.24	2.70	-0.10	1338.40	67.00
267.48	349.52	71.24	2.70	-0.10	1334.50	67.00
268.47	349.52	69.62	2.70	-0.10	1363.74	67.00
269.46	348.80	69.80	2.70	-0.10	1363.54	67.10
270.45	348.98	69.62	2.70	-0.10	1380.50	67.10
271.44	348.26	70.34	2.70	-0.10	1389.86	67.10
272.43	348.44	70.16	2.70	-0.10	1394.34	67.10
273.42	348.26	69.62	2.70	-0.10	1407.01	67.00
274.41	347.72	70.52	2.80	-0.10	1415.20	66.90
275.39	347.72	70.70	2.80	-0.10	1421.04	66.90
276.38	347.72	70.88	2.80	-0.10	1416.76	66.90
277.37	347.90	69.62	2.80	-0.10	1432.55	67.00
278.36	347.54	70.52	2.80	-0.10	1422.99	67.00
279.35	347.18	69.08	2.80	-0.10	1422.41	67.00
280.34	347.90	69.62	2.80	-0.10	1423.97	67.00
281.33	346.82	70.70	2.80	-0.10	1416.76	67.00
282.31	347.18	71.24	2.80	-0.10	1425.92	66.90
283.30	346.82	71.42	2.80	-0.10	1427.87	66.90
284.29	347.00	69.80	2.80	-0.10	1429.23	66.90
285.28	346.64	69.80	2.80	-0.10	1438.00	66.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
286.27	347.36	69.80	2.90	-0.10	1441.71	66.90
287.26	345.92	70.16	2.90	-0.10	1418.90	66.90
288.25	346.64	70.52	2.90	-0.10	1433.13	66.90
289.24	346.10	70.52	2.90	-0.10	1452.82	66.80
290.22	346.28	69.08	2.90	-0.10	1461.59	66.80
291.21	346.64	69.62	2.90	-0.10	1456.52	66.80
292.20	347.36	70.16	2.90	-0.10	1449.89	66.70
293.19	347.72	69.98	2.90	-0.10	1442.49	66.80
294.18	348.08	69.44	2.90	-0.10	1453.40	66.80
295.17	347.90	69.80	2.90	-0.10	1437.03	66.80
296.16	348.44	70.52	2.90	-0.10	1450.67	66.90
297.14	348.26	71.24	2.90	-0.10	1438.00	66.90
298.13	348.44	69.44	3.00	-0.10	1464.12	66.90
299.12	348.44	70.70	3.00	-0.10	1457.10	66.80
300.11	348.08	71.24	3.00	-0.10	1459.44	66.80
301.10	349.16	71.60	3.00	-0.10	1472.31	66.80
302.09	348.26	69.80	3.00	-0.10	1442.29	66.90
303.08	348.44	70.34	3.00	-0.10	1482.44	66.90
304.07	349.34	69.08	3.00	-0.10	1464.90	66.90
305.05	349.16	70.88	3.00	-0.10	1490.63	66.90
306.04	348.98	70.70	3.00	-0.10	1472.11	66.90
307.03	349.70	70.70	3.00	-0.10	1503.11	66.90
308.02	348.98	69.62	3.00	-0.10	1453.40	66.90
309.01	350.42	70.70	3.00	-0.10	1499.01	66.90
310.00	350.60	69.98	3.00	-0.10	1451.65	66.80
310.99	350.60	67.64	3.00	-0.10	1463.34	66.80
311.97	349.88	70.70	3.00	-0.10	1461.39	66.80
312.96	350.60	70.70	3.00	-0.10	1462.76	66.90
313.95	350.96	69.08	3.00	-0.10	1453.01	66.80
314.94	350.60	69.98	3.00	-0.10	1450.67	66.80
315.93	350.78	69.80	3.00	-0.10	1429.82	66.60
316.92	350.96	69.44	3.00	-0.10	1443.27	66.50
317.91	351.86	69.98	3.00	-0.10	1433.71	66.30
318.90	352.40	70.34	3.10	-0.10	1422.41	66.30
319.88	352.58	70.34	3.10	-0.10	1454.38	66.40
320.87	352.40	70.88	3.10	-0.10	1440.54	66.40
321.86	353.30	68.72	3.10	-0.10	1426.11	66.60
322.85	352.94	70.70	3.10	-0.10	1426.11	66.60
323.84	353.66	70.34	3.10	-0.10	1421.24	66.60
324.83	354.20	69.98	3.10	-0.10	1397.65	66.50
325.82	354.38	70.34	3.10	-0.10	1397.26	66.50
326.80	354.56	70.16	3.10	-0.10	1398.24	66.60
327.79	355.10	69.62	3.10	-0.10	1384.98	66.60
328.78	354.92	69.44	3.10	-0.10	1396.29	66.60
329.77	356.00	70.52	3.10	-0.10	1378.55	66.60
330.76	356.54	71.42	3.10	-0.10	1368.03	66.60
331.75	356.54	70.88	3.10	-0.10	1351.65	66.60
332.74	356.54	70.34	3.10	-0.10	1350.68	66.60
333.73	356.54	70.16	3.10	-0.10	1356.33	66.60
334.71	356.18	69.80	3.10	-0.10	1372.32	66.60
335.70	357.44	70.16	3.10	-0.10	1338.40	66.70
336.69	357.44	70.70	3.10	-0.10	1370.95	66.70
337.68	356.72	70.34	3.10	-0.10	1343.27	66.70
338.67	357.08	71.78	3.10	-0.10	1367.64	66.60
339.66	356.72	71.24	3.10	-0.10	1336.45	66.50

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
340.65	357.08	70.88	3.10	-0.10	1350.29	66.50
341.63	357.62	70.34	3.20	-0.10	1322.42	66.60
342.62	356.90	70.16	3.20	-0.10	1355.75	66.60
343.61	357.26	69.80	3.20	-0.10	1361.98	66.70
344.60	357.80	69.08	3.20	-0.10	1351.85	66.80
345.59	356.72	68.72	3.20	-0.10	1353.02	66.90
346.58	357.44	70.52	3.20	-0.10	1331.38	66.90
347.57	357.80	70.70	3.20	-0.10	1333.14	66.90
348.55	357.98	70.16	3.20	-0.10	1364.13	66.90
349.54	357.98	71.24	3.20	-0.10	1352.63	66.90
350.53	357.98	69.98	3.20	-0.10	1354.58	66.90
351.52	357.44	69.98	3.20	-0.10	1363.93	66.80
352.51	358.34	71.06	3.20	-0.10	1345.03	66.80
353.50	358.52	69.98	3.20	-0.10	1349.31	66.80
354.49	358.52	70.88	3.20	-0.10	1328.65	66.90
355.48	359.24	69.62	3.20	-0.10	1348.15	67.00
356.46	359.60	70.34	3.20	-0.10	1333.33	67.10
357.45	359.06	70.16	3.20	-0.10	1326.12	67.10
358.44	359.60	70.70	3.20	-0.10	1305.65	67.10
359.43	359.24	69.80	3.30	-0.10	1336.84	67.10
360.42	358.70	71.06	3.30	-0.10	1316.76	67.00
361.41	359.60	70.52	3.30	-0.10	1312.09	67.00
362.40	359.24	70.34	3.30	-0.10	1320.86	67.00
363.38	359.60	70.52	3.30	-0.10	1323.00	67.10
364.37	359.60	70.34	3.30	-0.10	1322.61	67.00
365.36	359.78	70.88	3.30	-0.10	1326.12	67.00
366.35	360.14	70.70	3.30	-0.10	1337.03	67.00
367.34	360.32	71.42	3.30	-0.10	1333.33	67.10
368.33	359.24	69.98	3.30	-0.10	1351.07	67.10
369.32	360.50	70.34	3.30	-0.10	1338.20	67.10
370.31	361.04	70.34	3.30	-0.10	1385.76	67.00
371.29	360.50	70.34	3.30	-0.10	1339.96	67.00
372.28	361.04	70.88	3.40	-0.10	1364.32	67.00
373.27	361.58	70.16	3.40	-0.10	1321.44	67.00
374.26	361.40	70.52	3.40	-0.10	1356.33	67.10
375.25	361.22	70.34	3.40	-0.10	1309.16	67.10
376.24	361.22	71.42	3.40	-0.10	1340.74	67.10
377.23	361.04	71.06	3.40	-0.10	1302.92	67.10
378.21	360.14	70.88	3.40	-0.10	1340.54	67.20
379.20	359.96	69.44	3.40	-0.10	1305.46	67.30
380.19	359.78	69.08	3.40	-0.10	1328.26	67.20
381.18	359.42	70.16	3.40	-0.10	1318.52	67.20
382.17	359.24	69.62	3.40	-0.10	1334.31	67.20
383.16	359.42	71.24	3.40	-0.10	1326.51	67.30
384.15	358.52	71.42	3.40	-0.10	1346.00	67.40
385.14	358.52	70.52	3.40	-0.10	1353.80	67.40
386.12	357.44	69.62	3.40	-0.10	1343.27	67.40
387.11	358.70	71.78	3.40	-0.10	1353.80	67.40
388.10	357.62	72.32	3.50	-0.10	1341.52	67.40
389.09	357.80	70.70	3.50	-0.10	1354.19	67.40
390.08	357.98	71.60	3.50	-0.10	1363.15	67.30
391.07	356.90	71.24	3.50	-0.10	1375.82	67.20
392.06	357.80	71.78	3.50	-0.10	1402.53	67.20
393.04	357.62	72.14	3.50	-0.10	1398.04	67.20
394.03	356.90	71.06	3.50	-0.10	1392.98	67.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
395.02	357.08	69.98	3.50	-0.10	1409.54	67.00
396.01	357.44	70.70	3.50	-0.10	1407.99	67.00
397.00	357.08	70.70	3.50	-0.10	1419.10	66.90
397.99	357.44	71.96	3.50	-0.10	1403.89	67.00
398.98	358.34	71.42	3.50	-0.10	1422.60	67.00
399.97	357.98	69.80	3.50	-0.10	1414.81	67.00
400.95	358.16	70.16	3.50	-0.10	1412.08	66.90
401.94	357.80	69.98	3.50	-0.10	1408.38	66.90
402.93	358.88	71.06	3.50	-0.10	1414.61	67.00
403.92	357.80	70.70	3.50	-0.10	1427.87	66.90
404.91	357.98	71.24	3.50	-0.10	1392.78	66.90
405.90	357.62	70.16	3.60	-0.10	1399.41	66.80
406.89	358.52	69.62	3.60	-0.10	1410.71	66.80
407.87	358.34	71.42	3.60	-0.10	1422.60	66.80
408.86	358.52	70.70	3.60	-0.10	1393.17	66.80
409.85	358.52	70.34	3.60	-0.10	1408.77	66.60
410.84	358.70	70.16	3.60	-0.10	1385.37	66.60
411.83	358.52	70.88	3.60	-0.10	1394.34	66.70
412.82	358.70	69.62	3.60	-0.10	1362.18	66.80
413.81	358.70	69.80	3.60	-0.10	1383.23	66.80
414.80	357.98	70.88	3.60	-0.10	1350.48	66.80
415.78	357.98	70.70	3.60	-0.10	1351.85	66.80
416.77	358.16	70.16	3.60	-0.10	1341.13	66.90
417.76	357.26	70.34	3.60	-0.10	1352.82	67.00
418.75	357.62	71.24	3.60	-0.10	1337.81	66.90
419.74	356.72	70.70	3.60	-0.10	1345.22	66.90
420.73	356.90	69.62	3.60	-0.10	1350.87	66.90
421.72	356.90	70.70	3.70	-0.10	1326.70	66.90
422.70	356.18	71.42	3.70	-0.10	1337.03	66.90
423.69	356.18	70.34	3.70	-0.10	1312.86	66.80
424.68	356.72	70.16	3.70	-0.10	1329.24	66.90
425.67	356.00	69.80	3.70	-0.10	1310.53	67.00
426.66	355.28	70.52	3.70	-0.10	1325.14	66.90
427.65	355.10	69.62	3.70	-0.10	1319.30	66.90
428.64	354.56	70.16	3.70	-0.10	1321.05	66.90
429.62	355.10	70.34	3.70	-0.10	1288.31	66.90
430.61	354.38	69.80	3.70	-0.10	1306.82	66.90
431.60	354.38	70.34	3.70	-0.10	1305.65	66.80
432.59	353.84	70.16	3.70	-0.10	1339.76	66.80
433.58	353.84	70.52	3.70	-0.10	1311.50	66.70
434.57	353.30	70.70	3.70	-0.10	1339.37	66.70
435.56	353.48	70.34	3.70	-0.10	1317.93	66.80
436.55	353.30	71.24	3.70	-0.10	1331.58	66.90
437.53	353.12	71.60	3.70	-0.10	1329.63	66.90
438.52	352.94	69.08	3.70	-0.10	1338.79	66.80
439.51	352.94	70.70	3.80	-0.10	1326.51	66.80
440.50	352.58	69.80	3.80	-0.10	1355.36	66.80
441.49	352.94	70.70	3.80	-0.10	1323.98	66.80
442.48	352.22	70.70	3.80	-0.10	1328.26	66.90
443.47	352.94	71.78	3.80	-0.10	1346.98	66.90
444.45	352.76	69.80	3.80	-0.10	1347.37	66.90
445.44	352.76	69.08	3.80	-0.10	1361.59	66.80
446.43	352.58	70.88	3.80	-0.10	1348.73	66.80
447.42	352.94	70.34	3.80	-0.10	1328.46	66.80
448.41	352.58	69.62	3.80	-0.10	1339.76	66.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
449.40	352.04	70.52	3.80	-0.10	1346.00	66.80
450.39	352.04	71.24	3.80	-0.10	1309.75	66.90
451.38	352.04	71.78	3.80	-0.10	1323.98	66.90
452.36	351.86	70.88	3.80	-0.10	1295.71	66.80
453.35	352.04	70.34	3.80	-0.10	1324.56	66.90
454.34	350.96	70.70	3.90	-0.10	1287.53	66.80
455.33	350.78	71.60	3.90	-0.10	1336.84	66.70
456.32	350.24	70.88	3.90	-0.10	1328.85	66.70
457.31	349.88	70.34	3.90	-0.10	1343.86	66.70
458.30	349.52	70.34	3.90	-0.10	1342.69	66.70
459.28	348.98	69.98	3.90	-0.10	1371.15	66.70
460.27	348.26	67.28	3.90	-0.10	1377.19	66.70
461.26	348.26	70.70	3.90	-0.10	1390.05	66.70
462.25	347.90	69.44	3.90	-0.10	1394.54	66.60
463.24	347.00	71.06	3.90	-0.10	1403.50	66.60
464.23	347.18	70.70	4.00	-0.10	1387.91	66.50
465.22	346.46	69.44	4.00	-0.10	1417.54	66.60
466.21	345.92	71.42	4.00	-0.10	1398.24	66.60
467.19	346.28	70.52	4.00	-0.10	1431.77	66.70
468.18	345.38	70.34	4.00	-0.10	1436.05	66.70
469.17	344.84	70.16	4.00	-0.10	1439.37	66.70
470.16	345.56	71.24	4.00	-0.10	1417.54	66.70
471.15	344.84	71.78	4.00	-0.10	1422.60	66.70
472.14	344.12	70.88	4.00	-0.10	1430.21	66.80
473.13	344.48	70.88	4.10	-0.10	1415.98	66.90
474.11	343.94	70.52	4.10	-0.10	1440.54	66.90
475.10	344.66	70.16	4.10	-0.10	1416.17	67.00
476.09	344.12	71.06	4.10	-0.10	1476.99	66.90
477.08	343.76	70.34	4.10	-0.10	1442.49	66.90
478.07	343.58	71.06	4.10	-0.10	1475.43	66.90
479.06	343.40	69.80	4.10	-0.10	1463.54	66.90
480.05	343.58	70.70	4.10	-0.10	1485.56	66.80
481.04	343.58	71.24	4.10	-0.10	1481.66	66.70
482.02	343.22	70.34	4.10	-0.10	1477.18	66.70
483.01	343.40	70.34	4.10	-0.10	1479.13	66.70
484.00	343.40	70.16	4.10	-0.10	1494.53	66.70
484.99	343.76	70.34	4.20	-0.10	1486.15	66.60
485.98	344.30	71.24	4.20	-0.10	1487.32	66.60
486.97	344.12	70.34	4.20	-0.10	1479.52	66.70
487.96	344.30	70.88	4.20	-0.10	1506.22	66.60
488.94	344.66	71.24	4.20	-0.10	1491.22	66.60
489.93	345.20	71.24	4.20	-0.10	1489.46	66.50
490.92	345.56	70.34	4.20	-0.10	1505.64	66.50
491.91	344.84	71.96	4.20	-0.10	1485.76	66.50
492.90	345.74	70.52	4.20	-0.10	1499.99	66.50
493.89	345.92	70.52	4.20	-0.10	1496.09	66.50
494.88	345.92	71.06	4.20	-0.10	1503.30	66.50
495.87	346.46	71.42	4.20	-0.10	1478.94	66.60
496.85	346.28	68.00	4.20	-0.10	1479.52	66.60
497.84	346.82	71.06	4.20	-0.10	1439.37	66.60
498.83	347.18	70.34	4.20	-0.10	1483.81	66.50
499.82	347.54	70.70	4.20	-0.10	1435.47	66.50
500.81	347.90	70.70	4.30	-0.10	1456.33	66.50
501.80	347.90	71.42	4.30	-0.10	1421.82	66.50
502.79	347.90	71.06	4.30	-0.10	1439.95	66.60

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
503.77	348.26	70.70	4.30	-0.10	1418.32	66.70
504.76	348.62	71.06	4.30	-0.10	1417.93	66.70
505.75	349.52	71.24	4.30	-0.10	1421.82	66.70
506.74	349.16	71.78	4.30	-0.10	1421.43	66.70
507.73	349.70	72.86	4.30	-0.10	1396.29	66.80
508.72	349.52	71.24	4.30	-0.10	1406.43	66.80
509.71	349.88	71.24	4.30	-0.10	1429.43	66.80
510.69	350.42	70.16	4.30	-0.10	1402.33	66.80
511.68	350.60	70.88	4.30	-0.10	1413.05	66.80
512.67	351.32	71.06	4.30	-0.10	1400.58	66.80
513.66	351.68	70.16	4.30	-0.10	1415.59	66.80
514.65	352.04	70.70	4.30	-0.10	1391.81	66.90
515.64	353.30	71.24	4.30	-0.10	1415.78	67.00
516.63	353.12	71.96	4.30	-0.10	1389.08	67.00
517.62	353.84	70.70	4.30	-0.10	1400.97	67.00
518.60	354.56	71.78	4.30	-0.10	1363.93	67.00
519.59	355.10	70.88	4.30	-0.10	1399.02	66.90
520.58	355.64	71.24	4.30	-0.10	1396.29	66.90
521.57	356.54	70.70	4.30	-0.10	1394.54	66.90
522.56	356.90	70.52	4.30	-0.10	1376.99	67.00
523.55	357.26	71.42	4.30	-0.10	1385.37	66.90
524.54	358.16	70.88	4.30	-0.10	1379.33	66.90
525.52	358.16	70.70	4.30	-0.10	1361.01	66.80
526.51	359.24	71.60	4.40	-0.10	1365.69	66.80
527.50	359.60	70.88	4.40	-0.10	1366.08	66.80
528.49	360.14	71.24	4.40	-0.10	1381.09	66.80
529.48	361.04	71.24	4.40	-0.10	1357.50	66.80
530.47	361.76	70.52	4.40	-0.10	1400.77	66.80
531.46	362.12	71.96	4.40	-0.10	1371.73	66.80
532.45	362.84	71.42	4.40	-0.10	1387.13	66.80
533.43	362.84	70.34	4.40	-0.10	1367.25	66.80
534.42	363.20	70.88	4.40	-0.10	1383.04	66.80
535.41	363.38	71.78	4.40	-0.10	1371.73	66.90
536.40	363.02	70.88	4.40	-0.10	1398.82	67.00
537.39	362.12	72.50	4.40	-0.10	1377.58	67.00
538.38	363.02	70.70	4.40	-0.10	1409.35	67.00
539.37	363.20	70.88	4.40	-0.10	1378.16	67.00
540.35	363.20	71.24	4.40	-0.10	1407.60	66.90
541.34	363.02	70.34	4.40	-0.10	1401.75	66.90
542.33	363.20	71.24	4.40	-0.10	1408.96	66.90
543.32	363.20	71.06	4.40	-0.10	1402.14	66.80
544.31	363.56	71.42	4.40	-0.10	1403.89	66.80
545.30	363.56	70.52	4.40	-0.10	1426.31	66.80
546.29	363.92	71.42	4.40	-0.10	1428.26	66.90
547.28	364.10	71.24	4.40	-0.10	1413.05	66.90
548.26	364.28	70.52	4.50	-0.10	1420.27	66.90
549.25	364.82	70.70	4.50	-0.10	1420.66	66.90
550.24	364.82	70.88	4.50	-0.10	1404.28	66.90
551.23	364.46	69.80	4.50	-0.10	1401.36	66.90
552.22	365.72	70.34	4.50	-0.10	1375.82	66.90
553.21	366.44	70.52	4.50	-0.10	1417.34	66.90
554.20	366.08	70.70	4.50	-0.10	1382.84	66.80
555.18	366.26	70.88	4.50	-0.10	1390.83	66.80
556.17	366.62	72.32	4.50	-0.10	1375.04	66.80
557.16	367.16	71.24	4.50	-0.10	1394.15	66.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
558.15	367.52	71.06	4.50	-0.10	1386.74	66.80
559.14	367.70	71.24	4.50	-0.10	1386.54	66.80
560.13	367.70	70.52	4.50	-0.10	1374.65	66.80
561.12	368.42	71.24	4.50	-0.10	1369.59	66.80
562.11	369.50	71.06	4.50	-0.10	1370.76	66.90
563.09	369.14	71.42	4.50	-0.10	1359.26	66.90
564.08	369.14	71.60	4.50	-0.10	1363.35	66.90
565.07	369.32	71.06	4.50	-0.10	1353.21	67.00
566.06	370.22	71.78	4.50	-0.10	1352.63	67.00
567.05	369.86	70.52	4.50	-0.10	1353.41	67.00
568.04	370.04	70.88	4.50	0.40	1331.38	67.00
569.03	370.40	70.52	4.50	-0.10	1333.53	67.00
570.01	370.40	70.16	4.50	-0.10	1349.70	67.10
571.00	370.94	70.34	4.50	-0.10	1341.71	67.10
571.99	370.94	70.88	4.50	-0.10	1355.94	67.10
572.98	371.12	71.06	4.50	-0.10	1305.46	67.10
573.97	371.48	70.70	4.50	-0.10	1341.91	67.10
574.96	371.48	70.88	4.50	-0.10	1321.25	67.00
575.95	371.48	71.24	4.50	-0.10	1331.19	67.00
576.94	372.20	71.96	4.50	-0.10	1311.70	67.00
577.92	371.84	71.24	4.60	-0.10	1338.01	66.90
578.91	372.38	71.06	4.60	-0.10	1333.72	67.00
579.90	372.74	71.24	4.60	-0.10	1361.01	67.00
580.89	372.92	71.24	4.60	-0.10	1347.37	66.90
581.88	373.10	70.34	4.60	-0.10	1361.01	66.90
582.87	373.46	71.06	4.60	-0.10	1353.41	66.90
583.86	373.28	70.52	4.60	-0.10	1360.23	66.80
584.84	373.82	71.06	4.60	-0.10	1348.34	66.70
585.83	374.00	69.98	4.60	-0.10	1362.76	66.70
586.82	373.82	71.24	4.60	-0.10	1342.88	66.60
587.81	374.72	71.60	4.60	-0.10	1378.36	66.60
588.80	374.18	71.06	4.60	-0.10	1357.89	66.60
589.79	374.00	71.96	4.60	-0.10	1372.90	66.70
590.78	374.54	70.52	4.60	-0.10	1361.79	66.60
591.76	374.36	72.68	4.60	-0.10	1357.11	66.70
592.75	374.72	71.06	4.60	-0.10	1374.46	66.60
593.74	375.08	70.70	4.60	-0.10	1361.79	66.60
594.73	374.90	71.06	4.60	-0.10	1397.26	66.60
595.72	375.26	71.60	4.60	-0.10	1369.78	66.60
596.71	375.62	70.34	4.60	-0.10	1387.91	66.60
597.70	375.62	71.24	4.60	-0.10	1385.96	66.60
598.69	375.98	70.16	4.60	-0.10	1395.51	66.50
599.67	376.16	71.78	4.60	-0.10	1381.09	66.50
600.66	376.16	71.60	4.60	-0.10	1401.75	66.40
601.65	376.52	71.24	4.60	-0.10	1384.98	66.30
602.64	376.16	70.34	4.60	-0.10	1390.64	66.30
603.63	376.70	71.24	4.70	-0.10	1393.17	66.40
604.62	377.06	71.24	4.70	-0.10	1387.52	66.50
605.61	376.34	70.70	4.70	-0.10	1397.65	66.50
606.59	376.88	70.52	4.70	-0.10	1399.80	66.50
607.58	376.88	70.70	4.70	-0.10	1385.96	66.60
608.57	377.42	70.88	4.70	-0.10	1408.38	66.60
609.56	377.60	70.88	4.70	-0.10	1393.95	66.60
610.55	377.24	71.06	4.70	-0.10	1389.08	66.60
611.54	377.24	70.52	4.70	-0.10	1389.86	66.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
612.53	377.60	71.42	4.70	-0.10	1397.26	66.50
613.52	377.60	70.88	4.70	-0.10	1396.10	66.60
614.50	377.60	71.78	4.70	-0.10	1419.49	66.60
615.49	377.78	71.24	4.70	-0.10	1406.23	66.70
616.48	377.96	70.88	4.70	-0.10	1405.65	66.80
617.47	378.14	70.52	4.70	-0.10	1399.41	66.80
618.46	378.50	72.14	4.70	-0.10	1377.77	66.80
619.45	378.50	70.52	4.70	-0.10	1402.14	66.80
620.44	378.86	71.24	4.70	-0.10	1396.49	66.80
621.42	379.04	72.68	4.70	-0.10	1402.33	66.80
622.41	378.68	71.60	4.70	-0.10	1390.64	66.80
623.40	379.22	71.42	4.70	-0.10	1407.01	66.70
624.39	379.22	71.24	4.70	-0.10	1396.68	66.70
625.38	379.40	70.88	4.70	-0.10	1406.23	66.60
626.37	380.12	71.06	4.70	-0.10	1386.54	66.60
627.36	379.22	70.52	4.70	-0.10	1392.20	66.70
628.35	379.58	71.06	4.70	-0.10	1392.39	66.70
629.33	379.76	70.88	4.80	-0.10	1379.53	66.70
630.32	379.94	71.06	4.80	-0.10	1388.10	66.70
631.31	379.58	71.60	4.80	-0.10	1379.33	66.80
632.30	380.12	71.60	4.80	-0.10	1386.15	66.70
633.29	379.76	70.70	4.80	-0.10	1371.15	66.60
634.28	379.94	71.24	4.80	-0.10	1391.61	66.60
635.27	380.48	70.52	4.80	-0.10	1367.64	66.70
636.25	379.94	71.24	4.80	-0.10	1381.09	66.80
637.24	380.12	71.60	4.80	-0.10	1357.89	66.80
638.23	380.30	71.06	4.80	-0.10	1382.06	66.80
639.22	380.12	72.14	4.80	-0.10	1364.13	66.70
640.21	380.12	71.24	4.80	-0.10	1386.35	66.80
641.20	380.30	69.62	4.80	-0.10	1358.28	66.80
642.19	380.12	71.06	4.80	-0.10	1364.32	66.90
643.18	380.48	71.06	4.80	-0.10	1343.08	67.00
644.16	380.84	70.34	4.80	-0.10	1361.79	67.00
645.15	380.48	71.60	4.80	-0.10	1339.96	67.00
646.14	380.84	71.78	4.80	-0.10	1358.09	67.00
647.13	380.66	70.88	4.80	-0.10	1342.30	67.00
648.12	380.48	71.24	4.80	-0.10	1336.84	67.00
649.11	380.84	71.06	4.80	-0.10	1344.25	67.10
650.10	380.30	71.96	4.80	-0.10	1356.53	67.00
651.08	380.48	69.80	4.80	-0.10	1342.69	67.00
652.07	381.02	70.52	4.80	-0.10	1345.61	67.00
653.06	380.84	71.06	4.80	-0.10	1346.59	67.00
654.05	381.20	71.42	4.80	-0.10	1337.03	67.00
655.04	381.02	71.60	4.80	-0.10	1347.37	67.00
656.03	381.20	70.52	4.80	-0.10	1326.12	67.00
657.02	381.38	71.78	4.80	-0.10	1336.06	67.00
658.01	381.38	71.24	4.80	-0.10	1324.37	67.00
658.99	381.02	70.70	4.80	-0.10	1344.83	67.10
659.98	381.56	71.24	4.80	-0.10	1328.46	67.10
660.97	381.20	71.24	4.80	-0.10	1343.86	67.00
661.96	381.56	71.60	4.80	-0.10	1327.09	67.00
662.95	381.20	70.88	4.90	-0.10	1351.85	67.00
663.94	381.20	70.88	4.90	-0.10	1340.74	67.00
664.93	381.38	71.24	4.90	-0.10	1354.77	67.00
665.91	381.56	70.70	4.90	-0.10	1351.46	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
666.90	381.20	71.24	4.90	-0.10	1345.22	67.00
667.89	381.56	71.06	4.90	-0.10	1332.55	66.90
668.88	382.10	71.06	4.90	-0.10	1348.34	66.90
669.87	382.28	71.24	4.90	-0.10	1332.16	66.90
670.86	382.64	71.06	4.90	-0.10	1329.82	66.90
671.85	382.46	71.24	4.90	-0.10	1305.07	66.90
672.84	382.64	71.78	4.90	-0.10	1306.43	66.90
673.82	383.00	70.88	4.90	-0.10	1321.05	66.90
674.81	383.00	70.52	4.90	-0.10	1314.23	66.80
675.80	383.18	70.52	4.90	-0.10	1325.34	66.80
676.79	383.54	70.52	4.90	-0.10	1284.99	66.80
677.78	383.36	71.60	4.90	-0.10	1335.28	66.80
678.77	383.72	70.34	4.90	-0.10	1327.87	66.60
679.76	384.08	71.60	4.90	-0.10	1338.40	66.60
680.74	383.90	71.24	4.90	-0.10	1317.93	66.80
681.73	384.44	71.60	4.90	-0.10	1337.62	66.90
682.72	384.26	72.14	4.90	-0.10	1316.76	66.90
683.71	384.44	71.24	4.90	-0.10	1332.55	67.00
684.70	384.98	71.06	4.90	-0.10	1317.15	67.00
685.69	384.98	72.50	4.90	-0.10	1341.91	67.00
686.68	384.98	70.52	4.90	-0.10	1306.82	67.00
687.66	385.16	71.24	4.90	-0.10	1326.90	67.00
688.65	384.98	71.06	4.90	-0.10	1326.70	66.90
689.64	385.16	71.42	4.90	-0.10	1336.26	66.90
690.63	385.52	70.70	5.00	-0.10	1351.26	67.00
691.62	385.16	71.24	5.00	-0.10	1361.98	67.00
692.61	385.52	71.42	5.00	-0.10	1363.54	67.00
693.60	385.88	71.24	5.00	-0.10	1391.03	66.90
694.59	385.70	71.24	5.00	-0.10	1381.28	66.90
695.57	386.24	71.06	5.00	-0.10	1390.05	66.90
696.56	386.60	71.60	5.00	-0.10	1385.76	66.90
697.55	386.24	71.42	5.00	-0.10	1383.62	66.90
698.54	386.78	71.06	5.00	-0.10	1407.60	66.80
699.53	386.78	71.06	5.00	-0.10	1396.29	66.80
700.52	386.60	71.06	5.00	-0.10	1413.25	66.80
701.51	387.14	71.78	5.00	-0.10	1399.41	66.80
702.49	386.96	71.60	5.00	-0.10	1431.57	66.80
703.48	387.50	71.06	5.00	-0.10	1406.82	66.70
704.47	387.50	71.24	5.00	-0.10	1428.45	66.70
705.46	387.50	71.60	5.00	-0.10	1417.93	66.60
706.45	387.68	71.24	5.00	-0.10	1447.55	66.70
707.44	388.40	71.42	5.00	-0.10	1418.71	66.60
708.43	387.68	71.24	5.00	-0.10	1456.91	66.60
709.42	387.68	71.24	5.00	-0.10	1441.12	66.50
710.40	387.86	71.06	5.00	-0.10	1461.78	66.30
711.39	388.22	70.34	5.00	-0.10	1421.43	66.30
712.38	388.58	70.70	5.00	-0.10	1431.96	66.30
713.37	388.76	71.24	5.00	-0.10	1440.54	66.40
714.36	389.12	70.88	5.00	-0.10	1440.15	66.50
715.35	389.12	70.52	5.10	-0.10	1445.21	66.50
716.34	389.84	70.88	5.10	-0.10	1430.79	66.60
717.32	389.48	71.42	5.10	-0.10	1412.86	66.60
718.31	389.84	71.24	5.10	-0.10	1414.03	66.50
719.30	389.84	70.52	5.10	-0.10	1410.32	66.40
720.29	390.38	71.78	5.10	-0.10	1399.02	66.30

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
721.28	390.20	71.06	5.10	-0.10	1404.87	66.30
722.27	390.56	71.06	5.10	-0.10	1397.65	66.20
723.26	390.56	71.78	5.10	-0.10	1394.34	66.30
724.25	390.92	71.60	5.10	-0.10	1376.60	66.30
725.23	391.10	71.42	5.10	-0.10	1389.66	66.30
726.22	391.28	71.24	5.10	-0.10	1373.29	66.40
727.21	391.28	70.70	5.10	-0.10	1390.64	66.40
728.20	392.00	71.06	5.10	-0.10	1363.54	66.40
729.19	392.00	71.06	5.10	-0.10	1375.63	66.40
730.18	392.18	70.70	5.10	-0.10	1370.76	66.30
731.17	392.72	70.70	5.10	-0.10	1373.29	66.30
732.15	392.54	71.24	5.10	-0.10	1367.25	66.30
733.14	392.54	71.06	5.10	-0.10	1363.15	66.30
734.13	393.08	70.52	5.10	-0.10	1370.95	66.20
735.12	393.08	71.42	5.10	-0.10	1348.54	66.20
736.11	393.08	71.24	5.10	-0.10	1365.88	66.20
737.10	393.62	70.70	5.10	-0.10	1352.82	66.30
738.09	393.98	71.42	5.10	-0.10	1355.16	66.40
739.08	394.34	71.06	5.10	-0.10	1337.23	66.50
740.06	394.52	71.06	5.10	-0.10	1360.23	66.50
741.05	394.34	70.88	5.10	-0.10	1344.25	66.50
742.04	394.88	71.78	5.10	-0.10	1361.79	66.60
743.03	395.42	71.60	5.10	-0.10	1342.69	66.60
744.02	395.42	71.60	5.10	-0.10	1353.41	66.60
745.01	395.96	71.24	5.10	-0.10	1326.31	66.60
746.00	396.50	71.06	5.10	-0.10	1343.86	66.60
746.98	396.32	70.52	5.10	-0.10	1335.09	66.60
747.97	396.68	71.42	5.10	-0.10	1335.09	66.70
748.96	396.86	69.98	5.10	-0.10	1320.08	66.70
749.95	397.04	71.24	5.10	-0.10	1303.12	66.80
750.94	397.76	71.24	5.10	-0.10	1335.09	66.80
751.93	397.94	71.24	5.10	-0.10	1311.50	66.80
752.92	398.30	71.78	5.10	-0.10	1310.72	66.90
753.91	398.84	71.24	5.20	-0.10	1310.53	66.90
754.89	398.48	70.70	5.20	-0.10	1316.18	66.80
755.88	399.02	71.06	5.20	-0.10	1300.78	66.70
756.87	399.56	70.16	5.20	-0.10	1337.03	66.60
757.86	399.38	71.24	5.20	-0.10	1313.06	66.60
758.85	400.28	71.24	5.20	-0.10	1314.23	66.70
759.84	400.46	70.88	5.20	-0.10	1314.81	66.70
760.83	400.46	72.14	5.20	-0.10	1307.99	66.70
761.81	401.18	71.60	5.20	-0.10	1329.24	66.70
762.80	401.36	71.24	5.20	-0.10	1306.63	66.70
763.79	401.90	71.42	5.20	-0.10	1311.31	66.70
764.78	402.26	70.34	5.20	-0.10	1294.54	66.80
765.77	402.44	70.88	5.20	-0.10	1297.27	66.90
766.76	402.80	71.06	5.20	-0.10	1296.30	66.90
767.75	403.34	70.70	5.20	-0.10	1303.90	66.80
768.73	403.34	70.70	5.20	-0.10	1285.97	66.80
769.72	403.88	71.24	5.20	-0.10	1321.64	66.80
770.71	403.70	71.06	5.20	-0.10	1316.57	66.80
771.70	404.24	70.70	5.20	-0.10	1316.96	66.80
772.69	404.24	70.16	5.20	-0.10	1334.50	66.80
773.68	404.78	71.06	5.20	-0.10	1326.31	66.80
774.67	404.24	71.60	5.20	-0.10	1322.22	66.90

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
775.66	404.96	71.06	5.20	-0.10	1334.70	66.90
776.64	404.96	70.52	5.20	-0.10	1322.03	66.90
777.63	404.78	71.24	5.20	-0.10	1323.39	66.80
778.62	405.50	71.42	5.20	-0.10	1319.69	66.80
779.61	405.50	70.70	5.20	-0.10	1325.53	66.80
780.60	405.86	71.60	5.20	-0.10	1345.81	66.80
781.59	406.22	70.70	5.30	-0.10	1326.12	66.80
782.58	406.40	70.16	5.30	-0.10	1339.18	66.80
783.56	406.40	71.24	5.30	-0.10	1337.03	66.90
784.55	406.94	70.70	5.30	-0.10	1339.57	66.90
785.54	406.76	71.24	5.30	-0.10	1327.48	66.90
786.53	407.48	71.06	5.30	-0.10	1341.32	66.90
787.52	407.48	71.06	5.30	-0.10	1330.41	66.80
788.51	407.48	71.96	5.30	-0.10	1344.44	66.90
789.50	408.20	70.52	5.30	-0.10	1330.99	66.90
790.49	408.74	71.24	5.30	-0.10	1349.12	66.90
791.47	408.74	71.06	5.30	-0.10	1342.10	66.90
792.46	408.74	69.80	5.30	-0.10	1321.25	66.90
793.45	409.28	70.88	5.30	-0.10	1329.43	67.00
794.44	409.46	71.24	5.30	-0.10	1330.21	67.00
795.43	409.82	71.60	5.30	-0.10	1315.20	67.10
796.42	409.28	70.70	5.30	-0.10	1302.92	67.10
797.41	410.00	70.70	5.30	-0.10	1324.17	67.20
798.39	410.36	71.06	5.30	-0.10	1306.82	67.20
799.38	410.00	71.60	5.30	-0.10	1315.59	67.20
800.37	410.36	70.52	5.30	-0.10	1297.86	67.20
801.36	410.90	70.52	5.30	-0.10	1289.28	67.20
802.35	410.90	71.24	5.30	-0.10	1291.23	67.20
803.34	410.90	71.06	5.30	-0.10	1295.13	67.20
804.33	411.44	71.24	5.30	-0.10	1285.77	67.10
805.32	411.08	71.06	5.30	-0.10	1295.71	67.00
806.30	411.62	71.24	5.30	-0.10	1285.97	67.00
807.29	411.44	70.52	5.30	-0.10	1291.81	66.90
808.28	411.98	71.06	5.30	-0.10	1279.34	66.90
809.27	411.62	71.60	5.40	-0.10	1292.59	66.90
810.26	411.80	70.52	5.40	-0.10	1293.18	66.90
811.25	411.62	71.24	5.40	-0.10	1306.43	66.90
812.24	411.80	71.06	5.40	-0.10	1310.14	66.90
813.22	411.80	71.06	5.40	-0.10	1300.97	66.90
814.21	411.98	70.52	5.40	-0.10	1324.56	66.90
815.20	411.80	71.24	5.40	-0.10	1326.12	66.90
816.19	411.62	70.70	5.40	-0.10	1346.20	66.80
817.18	411.98	71.06	5.40	-0.10	1346.00	66.80
818.17	411.98	71.24	5.40	-0.10	1352.63	66.90
819.16	412.16	71.06	5.40	-0.10	1334.31	66.90
820.15	412.34	71.60	5.40	-0.10	1360.62	67.00
821.13	411.80	70.70	5.40	-0.10	1312.09	67.00
822.12	412.34	70.70	5.40	-0.10	1383.04	67.00
823.11	412.34	71.60	5.40	-0.10	1365.49	67.00
824.10	412.16	70.70	5.40	-0.10	1410.91	67.00
825.09	411.80	71.06	5.50	-0.10	1398.63	67.00
826.08	411.80	70.70	5.50	-0.10	1437.42	66.90
827.07	411.26	70.88	5.50	-0.10	1426.70	66.90
828.05	411.26	71.24	5.50	-0.10	1430.60	66.90
829.04	411.08	71.60	5.50	-0.10	1437.81	66.80

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
830.03	411.26	71.06	5.50	-0.10	1460.42	66.80
831.02	411.80	70.88	5.50	-0.10	1447.36	66.80
832.01	410.72	70.70	5.50	-0.10	1458.66	66.80
833.00	410.36	71.06	5.50	-0.10	1457.49	66.80
833.99	410.72	70.52	5.50	-0.10	1470.94	66.80
834.98	410.72	70.70	5.50	-0.10	1470.36	66.80
835.96	409.82	71.24	5.50	-0.10	1461.20	66.70
836.95	409.46	71.06	5.50	-0.10	1486.34	66.60
837.94	409.28	71.24	5.50	-0.10	1471.14	66.50
838.93	408.74	71.06	5.50	-0.10	1479.52	66.60
839.92	408.92	70.70	5.50	-0.10	1474.65	66.60
840.91	408.74	71.42	5.50	-0.10	1475.04	66.60
841.90	408.56	71.24	5.50	-0.10	1470.75	66.60
842.88	409.10	71.60	5.50	-0.10	1470.55	66.60
843.87	408.38	71.06	5.50	-0.10	1467.83	66.70
844.86	408.74	71.24	5.60	-0.10	1485.17	66.70
845.85	408.20	70.70	5.60	-0.10	1465.88	66.70
846.84	407.66	71.60	5.60	-0.10	1475.62	66.60
847.83	408.02	70.70	5.60	-0.10	1475.62	66.70
848.82	407.48	70.16	5.60	-0.10	1488.49	66.60
849.80	407.66	71.06	5.60	-0.10	1492.00	66.60
850.79	406.94	72.32	5.60	-0.10	1482.64	66.70
851.78	407.12	70.88	5.60	-0.10	1487.71	66.60
852.77	405.86	71.24	5.60	-0.10	1516.75	66.70
853.76	405.50	71.78	5.60	-0.10	1492.58	66.70
854.75	404.06	71.24	5.60	-0.10	1500.57	66.70
855.74	403.34	71.06	5.60	-0.10	1481.27	66.60
856.73	402.62	71.42	5.60	-0.10	1496.28	66.50
857.71	401.54	71.06	5.60	-0.10	1499.40	66.60
858.70	400.82	71.24	5.60	-0.10	1506.22	66.60
859.69	400.28	71.42	5.60	-0.10	1503.50	66.70
860.68	399.74	71.42	5.60	-0.10	1501.55	66.70
862.44	398.84	71.78	5.60	-0.10	1518.89	66.70
863.43	398.84	70.70	5.60	-0.10	1499.60	66.80

Ignitibility Testing: Drilling into Saltcake, 1 cc/min Flammable, no purge, 1st run

9/1/94

File Name: Run09_3a

Time(Sec)	Bittemp(F)	PrgTemp(F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	137.48	71.24	0.00	-0.10	1430.79	68.70
1.00	137.66	71.78	0.00	-0.10	1399.21	68.70
2.00	136.94	71.60	0.00	-0.10	1339.76	68.50
3.00	136.76	71.78	0.10	-0.10	1335.67	68.30
4.00	135.32	70.70	0.40	-0.10	1392.39	68.00
5.00	133.34	71.24	0.60	-0.10	1423.97	67.80
6.00	134.42	71.60	0.90	-0.10	1392.59	67.40
7.00	136.40	71.42	1.00	-0.10	1453.01	67.30
8.00	138.74	71.60	1.10	-0.10	1443.27	67.20
9.00	141.26	71.42	1.10	-0.10	1477.18	67.20
10.00	145.40	71.60	1.20	-0.10	1430.79	67.20
11.00	149.18	71.60	1.20	-0.10	1422.21	67.20
12.00	151.88	70.88	1.30	-0.10	1449.31	67.10
13.00	154.94	71.60	1.30	-0.10	1480.88	67.10
14.00	157.64	71.42	1.40	-0.10	1457.88	67.00
15.00	159.80	71.78	1.40	-0.10	1452.04	67.00
16.00	163.22	72.14	1.40	-0.10	1460.81	67.00
17.00	165.74	71.60	1.50	-0.10	1478.16	67.00
18.00	168.80	71.60	1.50	-0.10	1476.21	67.10
19.00	173.12	71.60	1.50	-0.10	1484.39	67.20
20.00	175.82	71.96	1.50	-0.10	1504.47	67.20
21.00	179.42	71.78	1.50	-0.10	1467.83	67.20
22.00	182.84	71.42	1.50	-0.10	1501.55	67.30
23.00	186.44	71.96	1.60	-0.10	1462.56	67.30
24.00	189.68	72.32	1.60	-0.10	1504.47	67.30
25.00	192.74	71.96	1.60	-0.10	1472.70	67.30
26.00	195.62	71.96	1.60	-0.10	1486.54	67.40
27.00	198.32	71.60	1.60	-0.10	1462.76	67.50
28.00	200.12	71.06	1.60	-0.10	1461.00	67.50
29.00	203.54	71.24	1.60	-0.10	1448.72	67.50
30.00	206.42	71.24	1.60	-0.10	1436.44	67.50
31.00	209.12	73.04	1.60	-0.10	1404.87	67.50
32.00	212.54	71.96	1.60	-0.10	1392.39	67.60
33.00	215.42	72.32	1.60	-0.10	1393.17	67.60
34.00	217.94	72.14	1.60	-0.10	1376.80	67.70
35.00	219.92	71.96	1.60	-0.10	1376.80	67.80
36.00	220.46	71.42	1.60	-0.10	1352.04	67.80
37.00	221.18	71.06	1.60	-0.10	1380.89	67.90
38.00	222.08	71.60	1.60	-0.10	1360.81	67.90
39.00	223.16	72.14	1.60	-0.10	1395.51	67.90
40.00	224.60	73.04	1.60	-0.10	1358.48	67.90
41.00	225.86	70.70	1.60	-0.10	1381.87	67.80
42.00	227.48	72.14	1.60	-0.10	1367.83	67.80
43.00	229.28	71.78	1.60	-0.10	1368.61	67.80
44.00	231.98	71.60	1.60	-0.10	1376.02	67.70
45.00	233.42	71.60	1.60	-0.10	1375.43	67.60
46.00	234.86	71.78	1.60	-0.10	1383.23	67.60
47.00	236.48	72.68	1.60	-0.10	1378.94	67.70
48.00	238.82	71.78	1.60	-0.10	1363.93	67.60
49.00	240.80	71.60	1.60	-0.10	1369.00	67.60
50.00	242.42	71.96	1.60	-0.10	1363.74	67.60
51.00	244.76	71.78	1.60	-0.10	1339.18	67.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
52.00	244.58	71.60	1.70	-0.10	1379.33	67.60
53.00	246.38	72.14	1.70	-0.10	1345.61	67.70
54.00	247.28	71.96	1.70	-0.10	1365.30	67.70
55.00	247.64	72.68	1.70	-0.10	1360.43	67.80
56.00	249.08	72.68	1.70	-0.10	1365.10	67.90
57.00	249.62	71.24	1.70	-0.10	1374.07	68.00
58.00	252.14	71.06	1.70	-0.10	1384.40	68.00
59.00	251.60	72.32	1.70	-0.10	1381.48	68.00
60.00	252.86	71.60	1.70	-0.10	1381.09	67.90
61.00	253.22	72.50	1.70	-0.10	1374.85	67.90
62.00	254.84	72.14	1.70	-0.10	1361.79	67.90
63.00	255.38	72.14	1.70	-0.10	1369.98	67.90
64.00	256.82	71.96	1.70	-0.10	1376.80	67.90
65.00	258.08	73.04	1.70	-0.10	1397.85	67.90
66.00	259.34	71.96	1.70	-0.10	1370.37	67.90
67.00	260.96	72.68	1.70	-0.10	1402.92	67.80
68.00	262.76	71.96	1.70	-0.10	1372.71	67.90
69.00	263.48	72.32	1.70	-0.10	1389.08	67.80
70.00	264.74	71.96	1.70	-0.10	1369.20	67.80
71.00	265.46	73.40	1.70	-0.10	1384.98	67.80
72.00	266.72	72.32	1.70	-0.10	1361.01	67.80
73.00	267.62	70.70	1.70	-0.10	1361.59	67.80
74.00	267.98	71.78	1.70	-0.10	1341.91	67.90
75.00	269.24	73.58	1.70	-0.10	1358.09	67.90
76.00	269.78	72.50	1.70	-0.10	1352.82	67.90
77.00	269.96	71.60	1.70	-0.10	1353.21	67.90
78.00	270.68	72.14	1.70	-0.10	1367.83	67.90
79.00	271.04	71.60	1.70	-0.10	1343.47	67.80
80.00	272.48	72.50	1.70	-0.10	1367.64	67.90
81.00	273.02	72.50	1.70	-0.10	1361.20	67.80
82.00	273.38	71.42	1.70	-0.10	1376.02	67.80
83.00	275.00	71.60	1.80	-0.10	1363.15	67.80
84.00	276.80	71.96	1.80	-0.10	1372.90	67.70
85.00	276.62	72.86	1.80	-0.10	1342.49	67.80
86.00	278.24	72.14	1.80	-0.10	1369.20	67.80
87.00	278.60	72.14	1.80	-0.10	1370.56	67.80
88.00	280.22	72.68	1.80	-0.10	1376.60	67.80
89.00	280.94	72.50	1.80	-0.10	1355.75	67.80
90.00	281.66	72.86	1.80	-0.10	1347.76	67.80
91.00	282.92	72.32	1.80	-0.10	1357.70	67.80
92.00	283.64	71.96	1.80	-0.10	1337.42	67.80
93.00	285.44	72.14	1.80	-0.10	1367.44	67.80
94.00	286.16	72.14	1.80	-0.10	1336.26	67.80
95.00	287.42	71.78	1.80	-0.10	1362.37	67.70
96.00	287.78	72.14	1.80	-0.10	1340.35	67.70
97.00	289.22	72.50	1.80	-0.10	1358.28	67.60
98.00	290.66	72.50	1.80	-0.10	1350.87	67.60
99.00	291.20	71.78	1.80	-0.10	1377.97	67.50
100.00	291.92	72.68	1.80	-0.10	1358.67	67.50
101.00	293.00	72.50	1.80	-0.10	1397.26	67.50
102.00	294.62	72.50	1.80	-0.10	1368.81	67.40
103.00	294.98	72.32	1.80	-0.10	1409.74	67.40
104.00	296.60	72.32	1.80	-0.10	1398.24	67.40
105.00	296.60	73.04	1.80	-0.10	1407.79	67.40
106.00	298.22	72.14	1.80	-0.10	1394.15	67.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	299.12	72.68	1.80	-0.10	1394.15	67.30
108.00	299.66	71.96	1.80	-0.10	1387.52	67.20
109.00	300.74	72.68	1.80	-0.10	1399.02	67.20
110.00	302.18	72.32	1.80	-0.10	1399.02	67.30
111.00	301.64	72.50	1.80	-0.10	1390.64	67.30
112.00	303.62	72.50	1.80	-0.10	1415.20	67.40
113.00	303.80	72.32	1.80	-0.10	1394.54	67.40
114.00	303.80	72.50	1.80	-0.10	1414.03	67.40
115.00	304.34	72.50	1.90	-0.10	1371.93	67.30
116.00	304.34	72.86	1.90	-0.10	1398.24	67.30
117.00	304.34	72.50	1.90	-0.10	1377.97	67.30
118.00	304.70	71.96	1.90	-0.10	1407.01	67.40
119.00	304.70	72.14	1.90	-0.10	1376.80	67.30
120.00	305.06	73.22	1.90	-0.10	1391.61	67.40
121.00	305.96	72.32	1.90	-0.10	1380.31	67.40
122.00	306.14	72.32	1.90	-0.10	1389.47	67.30
123.00	307.40	72.50	1.90	-0.10	1403.11	67.20
124.00	307.58	72.14	1.90	-0.10	1384.60	67.30
125.00	308.48	72.14	1.90	-0.10	1394.73	67.40
126.00	309.02	72.86	1.90	-0.10	1384.98	67.50
127.00	310.10	72.14	1.90	-0.10	1390.25	67.60
128.00	310.82	71.24	1.90	-0.10	1386.15	67.60
129.00	311.54	71.96	1.90	-0.10	1402.72	67.50
130.00	312.26	72.86	1.90	-0.10	1408.57	67.30
131.00	312.80	72.68	1.90	-0.10	1403.70	67.30
132.00	313.70	71.78	1.90	-0.10	1399.21	67.40
133.00	314.24	72.14	1.90	-0.10	1415.20	67.40
134.00	315.32	71.78	1.90	-0.10	1387.91	67.50
135.00	315.86	71.78	1.90	-0.10	1399.41	67.60
136.00	316.76	72.14	1.90	-0.10	1386.93	67.60
137.00	318.02	72.50	1.90	-0.10	1399.99	67.60
138.00	318.38	70.88	1.90	-0.10	1393.95	67.50
139.00	319.28	72.32	1.90	-0.10	1395.71	67.40
140.00	320.36	71.78	1.90	-0.10	1385.57	67.50
141.00	320.90	71.60	1.90	-0.10	1392.39	67.50
142.00	321.98	73.22	1.90	-0.10	1396.88	67.60
143.00	322.70	71.78	1.90	-0.10	1371.73	67.70
144.00	323.60	72.50	1.90	-0.10	1386.35	67.80
145.00	324.50	72.14	1.90	-0.10	1368.03	67.70
146.00	325.40	73.04	1.90	-0.10	1393.37	67.70
147.00	325.94	72.86	1.90	-0.10	1358.28	67.70
148.00	326.12	72.68	1.90	-0.10	1386.74	67.70
149.00	327.02	72.86	1.90	-0.10	1375.24	67.70
150.00	327.92	72.14	1.90	-0.10	1374.46	67.80
151.00	328.10	71.60	1.90	-0.10	1366.47	67.80
152.00	329.18	72.32	1.90	-0.10	1386.35	67.70
153.00	329.72	72.86	1.90	-0.10	1358.67	67.60
154.00	330.26	72.50	1.90	-0.10	1372.90	67.60
155.00	330.62	73.04	1.90	-0.10	1357.31	67.60
156.00	330.44	72.50	2.00	-0.10	1357.89	67.70
157.00	329.54	72.14	2.00	-0.10	1349.70	67.70
158.00	330.44	72.32	2.00	-0.10	1346.78	67.80
159.00	329.00	72.14	2.00	-0.10	1378.16	67.80
160.00	330.08	72.32	2.00	-0.10	1364.52	67.70
161.00	329.90	72.32	2.00	-0.10	1383.43	67.70

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	330.62	73.22	2.00	-0.10	1365.10	67.70
163.00	330.80	73.22	2.00	-0.10	1397.07	67.80
164.00	330.80	72.14	2.00	-0.10	1375.24	67.70
165.00	330.44	73.40	2.00	-0.10	1397.65	67.60
166.00	331.88	73.40	2.00	-0.10	1384.21	67.70
167.00	332.06	72.32	2.00	-0.10	1389.47	67.70
168.00	331.88	72.14	2.00	-0.10	1405.84	67.70
169.00	332.60	73.04	2.00	-0.10	1415.78	67.80
170.00	332.60	71.96	2.00	-0.10	1414.81	67.70
171.00	333.14	73.94	2.00	-0.10	1414.61	67.70
172.00	333.50	73.58	2.00	-0.10	1422.02	67.70
173.00	333.50	73.40	2.00	-0.10	1415.98	67.80
174.00	334.58	72.86	2.00	-0.10	1432.93	67.80
175.00	334.58	72.86	2.00	-0.10	1433.52	67.80
176.00	335.30	72.32	2.00	-0.10	1445.21	67.80
177.00	335.48	72.68	2.00	-0.10	1429.23	67.80
178.00	336.02	74.12	2.00	-0.10	1460.81	67.80
179.00	336.38	73.04	2.00	-0.10	1420.85	67.90
180.00	337.64	72.68	2.00	-0.10	1466.66	67.90
181.00	337.46	71.96	2.00	-0.10	1435.66	67.90
182.00	338.72	72.86	2.00	-0.10	1463.93	67.80
183.00	338.72	73.40	2.00	-0.10	1449.31	67.80
184.00	339.62	73.22	2.00	-0.10	1456.13	67.60
185.00	339.98	73.40	2.00	-0.10	1468.99	67.70
186.00	340.52	72.86	2.00	-0.10	1470.94	67.70
187.00	340.88	73.40	2.00	-0.10	1477.77	67.60
188.00	340.88	73.04	2.00	-0.10	1470.94	67.50
189.00	340.70	72.50	2.00	-0.10	1473.67	67.60
190.00	341.24	72.86	2.00	-0.10	1452.43	67.60
191.00	341.78	72.86	2.10	-0.10	1458.27	67.70
192.00	341.78	71.78	2.10	-0.10	1457.10	67.60
193.00	342.68	73.04	2.10	-0.10	1464.12	67.50
194.00	342.68	72.14	2.10	-0.10	1452.43	67.40
195.00	342.86	73.04	2.10	-0.10	1480.69	67.40
196.00	343.58	72.50	2.10	-0.10	1456.71	67.50
197.00	343.94	73.22	2.10	-0.10	1479.52	67.60
198.00	345.20	72.68	2.10	-0.10	1465.68	67.50
199.00	345.92	73.58	2.10	-0.10	1481.86	67.50
200.00	346.82	72.32	2.10	-0.10	1461.59	67.50
201.00	347.54	72.50	2.10	-0.10	1477.57	67.60
202.00	347.54	72.50	2.10	-0.10	1463.54	67.70
203.00	347.36	73.40	2.10	-0.10	1470.36	67.60
204.00	347.54	73.04	2.10	-0.10	1470.55	67.60
205.00	346.82	72.68	2.10	-0.10	1467.05	67.60
206.00	347.00	72.68	2.10	-0.10	1474.06	67.60
207.00	347.36	73.04	2.10	-0.10	1454.96	67.70
208.00	347.36	73.04	2.10	-0.10	1455.74	67.60
209.00	347.90	73.04	2.10	-0.10	1442.88	67.60
210.00	348.26	72.50	2.10	-0.10	1467.24	67.60
211.00	347.90	72.50	2.10	-0.10	1441.12	67.70
212.00	349.16	72.32	2.10	-0.10	1452.04	67.70
213.00	349.16	73.58	2.10	-0.10	1431.38	67.60
214.00	350.42	72.50	2.10	-0.10	1430.40	67.50
215.00	350.06	73.04	2.10	-0.10	1406.23	67.50
216.00	350.42	73.04	2.10	-0.10	1435.66	67.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
217.00	350.60	72.68	2.10	-0.10	1416.95	67.50
218.00	350.78	72.50	2.10	-0.10	1408.18	67.50
219.00	349.88	72.68	2.10	-0.10	1403.70	67.40
220.00	350.78	71.96	2.10	-0.10	1413.25	67.50
221.00	351.14	72.86	2.10	-0.10	1380.89	67.60
222.00	351.32	73.04	2.10	-0.10	1386.54	67.60
223.00	351.32	73.04	2.10	-0.10	1392.00	67.50
224.00	351.50	73.58	2.10	-0.10	1383.23	67.40
225.00	351.86	72.50	2.10	-0.10	1378.55	67.40
226.00	351.86	73.94	2.10	-0.10	1359.26	67.40
227.00	352.58	72.86	2.10	-0.10	1376.21	67.40
228.00	352.76	73.40	2.20	-0.10	1346.00	67.30
229.00	352.94	72.50	2.20	-0.10	1370.17	67.30
230.00	353.48	73.58	2.20	-0.10	1347.56	67.30
231.00	353.30	72.86	2.20	-0.10	1362.76	67.40
232.00	353.48	73.04	2.20	-0.10	1345.61	67.50
233.00	353.84	72.86	2.20	-0.10	1361.01	67.50
234.00	353.66	73.04	2.20	-0.10	1326.51	67.50
235.00	354.56	71.96	2.20	-0.10	1366.86	67.40
236.00	354.38	73.40	2.20	-0.10	1329.04	67.40
237.00	354.38	72.50	2.20	-0.10	1354.38	67.40
238.00	355.10	73.22	2.20	-0.10	1333.53	67.50
239.00	354.74	72.86	2.20	-0.10	1353.21	67.50
240.00	354.74	72.68	2.20	-0.10	1369.59	67.50
241.00	355.28	73.04	2.20	-0.10	1369.20	67.50
242.00	355.28	73.40	2.20	-0.10	1367.05	67.40
243.00	355.46	73.22	2.20	-0.10	1343.27	67.50
244.00	355.64	72.50	2.20	-0.10	1346.00	67.50
245.00	356.00	72.14	2.20	-0.10	1356.14	67.50
246.00	356.36	73.58	2.20	-0.10	1342.88	67.50
247.00	356.36	72.14	2.20	-0.10	1357.31	67.50
248.00	356.72	72.68	2.20	-0.10	1363.93	67.50
249.00	356.72	72.50	2.20	-0.10	1343.86	67.50
250.00	356.90	73.58	2.20	-0.10	1357.89	67.50
251.00	357.44	72.86	2.20	-0.10	1346.39	67.40
252.00	357.26	73.22	2.20	-0.10	1353.21	67.40
253.00	357.44	73.04	2.20	-0.10	1350.09	67.40
254.00	357.80	72.68	2.20	-0.10	1358.09	67.40
255.00	357.98	73.04	2.20	-0.10	1359.26	67.40
256.00	358.70	73.76	2.20	-0.10	1368.42	67.40
257.00	358.52	73.40	2.20	-0.10	1366.66	67.40
258.00	358.70	73.40	2.20	-0.10	1368.42	67.40
259.00	359.60	72.68	2.20	-0.10	1357.70	67.30
260.00	359.60	72.14	2.20	-0.10	1371.93	67.20
261.00	360.14	73.04	2.20	-0.10	1372.12	67.20
262.00	360.14	73.04	2.20	-0.10	1355.94	67.30
263.00	359.96	72.68	2.30	-0.10	1364.32	67.30
264.00	360.68	73.40	2.30	-0.10	1346.78	67.30
265.00	360.86	72.68	2.30	-0.10	1360.81	67.20
266.00	360.50	72.50	2.30	-0.10	1349.12	67.30
267.00	361.22	73.04	2.30	-0.10	1355.94	67.40
268.00	361.58	72.86	2.30	-0.10	1339.57	67.40
269.00	361.76	72.50	2.30	-0.10	1349.90	67.50
270.00	361.76	72.86	2.30	-0.10	1325.34	67.50
271.00	362.12	73.04	2.30	-0.10	1347.95	67.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
272.00	362.12	73.04	2.30	-0.10	1333.53	67.50
273.00	363.20	73.40	2.30	-0.10	1365.10	67.50
274.00	362.30	73.04	2.30	-0.10	1341.32	67.50
275.00	362.84	74.12	2.30	-0.10	1365.10	67.50
276.00	362.66	73.04	2.30	-0.10	1365.10	67.40
277.00	362.84	72.32	2.30	-0.10	1365.10	67.40
278.00	363.38	73.58	2.30	-0.10	1359.65	67.40
279.00	363.56	73.40	2.30	-0.10	1356.33	67.40
280.00	363.74	73.04	2.40	-0.10	1351.07	67.40
281.00	363.56	73.22	2.40	-0.10	1334.70	67.30
282.00	363.20	73.22	2.40	-0.10	1339.76	67.30
283.00	363.92	73.58	2.40	-0.10	1340.15	67.30
284.00	363.20	73.04	2.40	-0.10	1339.96	67.20
285.00	363.56	73.04	2.40	-0.10	1349.90	67.20
286.00	363.20	73.40	2.40	-0.10	1348.92	67.20
287.00	362.84	73.40	2.40	-0.10	1350.87	67.20
288.00	362.48	73.04	2.40	-0.10	1378.75	67.20
289.00	363.02	73.04	2.40	-0.10	1381.09	67.20
290.00	362.12	73.04	2.40	-0.10	1409.54	67.20
291.00	362.48	73.22	2.40	-0.10	1411.49	67.20
292.00	362.12	73.94	2.40	-0.10	1453.21	67.20
293.00	362.30	73.22	2.40	-0.10	1447.55	67.20
294.00	361.94	72.68	2.40	-0.10	1471.72	67.30
295.00	362.12	73.40	2.50	-0.10	1471.53	67.30
296.00	361.94	73.04	2.50	-0.10	1489.66	67.30
297.00	362.30	73.58	2.50	-0.10	1477.38	67.30
298.00	362.66	73.40	2.50	-0.10	1487.71	67.30
299.00	362.30	72.50	2.50	-0.10	1504.86	67.30
300.00	362.66	73.22	2.50	-0.10	1495.70	67.30
301.00	362.84	72.68	2.50	-0.10	1500.18	67.30
302.00	362.84	72.68	2.50	-0.10	1481.86	67.30
303.00	362.84	73.40	2.50	-0.10	1482.05	67.30
304.00	363.20	73.40	2.50	-0.10	1454.96	67.40
305.00	362.66	73.04	2.50	-0.10	1466.27	67.40
306.00	363.02	73.40	2.50	-0.10	1450.87	67.40
307.00	362.84	73.22	2.50	-0.10	1455.35	67.40
308.00	363.02	73.40	2.50	-0.10	1444.24	67.40
309.00	363.20	73.22	2.50	-0.10	1441.51	67.40
310.00	363.20	73.40	2.50	-0.10	1407.21	67.30
311.00	363.02	73.40	2.50	-0.10	1414.61	67.40
312.00	362.84	72.86	2.50	-0.10	1411.88	67.40
313.00	362.48	73.04	2.50	-0.10	1400.77	67.40
314.00	362.84	73.58	2.50	-0.10	1385.76	67.40
315.00	362.48	73.40	2.60	-0.10	1383.23	67.40
316.00	362.12	73.22	2.60	-0.10	1384.40	67.40
317.00	362.30	73.40	2.60	-0.10	1369.00	67.50
318.00	362.12	73.40	2.60	-0.10	1372.90	67.50
319.00	362.66	73.22	2.60	-0.10	1369.78	67.50
320.00	361.76	73.04	2.60	-0.10	1378.94	67.60
321.00	361.40	73.58	2.60	-0.10	1376.41	67.60
322.00	361.40	73.58	2.60	-0.10	1374.65	67.70
323.00	361.22	73.04	2.60	-0.10	1356.14	67.70
324.00	361.04	73.58	2.60	-0.10	1377.58	67.80
325.00	360.86	73.40	2.60	-0.10	1362.76	67.90
326.00	361.40	73.40	2.60	-0.10	1404.09	67.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	360.86	73.40	2.60	-0.10	1372.51	67.90
328.00	360.86	73.40	2.60	-0.10	1380.89	67.80
329.00	360.86	73.58	2.60	-0.10	1371.54	67.80
330.00	361.22	73.04	2.60	-0.10	1386.15	67.70
331.00	360.86	73.40	2.60	-0.10	1368.42	67.70
332.00	361.04	73.76	2.60	-0.10	1394.93	67.70
333.00	361.04	73.22	2.60	-0.10	1376.21	67.70
334.00	361.40	72.86	2.60	-0.10	1386.15	67.70
335.00	361.58	73.04	2.60	-0.10	1384.01	67.70
336.00	361.58	73.22	2.70	-0.10	1388.69	67.60
337.00	361.76	73.58	2.70	-0.10	1396.88	67.60
338.00	361.94	73.04	2.70	-0.10	1391.42	67.50
339.00	361.94	73.40	2.70	-0.10	1401.55	67.50
340.00	362.30	73.58	2.70	-0.10	1383.62	67.50
341.00	362.48	73.40	2.70	-0.10	1399.60	67.50
342.00	362.66	73.58	2.70	-0.10	1390.64	67.50
343.00	362.84	73.04	2.70	-0.10	1410.91	67.50
344.00	362.48	73.40	2.70	-0.10	1400.19	67.50
345.00	363.02	73.58	2.70	-0.10	1412.66	67.60
346.00	363.38	73.04	2.70	-0.10	1392.78	67.60
347.00	363.56	73.94	2.70	-0.10	1410.32	67.50
348.00	364.10	73.58	2.70	-0.10	1397.26	67.50
349.00	364.28	73.04	2.70	-0.10	1423.19	67.50
350.00	364.46	73.22	2.70	-0.10	1400.77	67.40
351.00	365.00	73.58	2.70	-0.10	1403.50	67.50
352.00	364.46	73.40	2.70	-0.10	1376.60	67.50
353.00	365.00	73.94	2.70	-0.10	1410.32	67.60
354.00	365.18	73.22	2.70	-0.10	1391.22	67.60
355.00	365.18	73.58	2.70	-0.10	1407.60	67.60
356.00	365.18	73.04	2.70	-0.10	1393.95	67.60
357.00	365.18	72.86	2.80	-0.10	1402.14	67.60
358.00	365.18	73.94	2.80	-0.10	1391.81	67.50
359.00	364.82	72.50	2.80	-0.10	1397.26	67.50
360.00	364.82	73.76	2.80	-0.10	1399.21	67.50
361.00	364.82	73.22	2.80	-0.10	1396.10	67.40
362.00	364.64	73.58	2.80	-0.10	1404.09	67.40
363.00	364.82	73.58	2.80	-0.10	1408.18	67.40
364.00	364.82	73.58	2.80	-0.10	1409.74	67.40
365.00	364.64	73.58	2.80	-0.10	1382.84	67.40
366.00	365.00	73.76	2.80	-0.10	1420.46	67.40
367.00	364.64	73.22	2.80	-0.10	1382.45	67.30
368.00	364.64	73.58	2.80	-0.10	1414.61	67.40
369.00	364.64	73.58	2.80	-0.10	1392.20	67.40
370.00	364.46	73.40	2.80	-0.10	1422.41	67.40
371.00	364.82	72.86	2.80	-0.10	1397.85	67.50
372.00	364.82	73.40	2.80	-0.10	1416.95	67.50
373.00	365.18	73.58	2.80	-0.10	1414.42	67.40
374.00	364.64	73.40	2.80	-0.10	1415.98	67.40
375.00	364.64	73.58	2.80	-0.10	1394.54	67.40
376.00	364.64	73.58	2.80	-0.10	1399.02	67.40
377.00	365.18	73.40	2.80	-0.10	1397.26	67.40
378.00	365.18	73.76	2.80	-0.10	1397.65	67.40
379.00	365.00	74.12	2.90	-0.10	1395.12	67.50
380.00	365.18	73.22	2.90	-0.10	1401.75	67.50
381.00	365.36	73.94	2.90	-0.10	1397.26	67.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
382.00	365.72	73.58	2.90	-0.10	1391.61	67.60
383.00	365.72	73.58	2.90	-0.10	1391.81	67.60
384.00	366.62	73.58	2.90	-0.10	1378.55	67.60
385.00	366.62	73.22	2.90	-0.10	1386.15	67.60
386.00	366.80	73.94	2.90	-0.10	1372.71	67.50
387.00	367.16	74.12	2.90	-0.10	1382.84	67.50
388.00	367.16	73.22	2.90	-0.10	1366.08	67.40
389.00	367.34	73.58	2.90	-0.10	1384.98	67.40
390.00	367.70	73.76	2.90	-0.10	1358.09	67.40
391.00	367.52	73.94	2.90	-0.10	1373.87	67.40
392.00	367.88	73.94	2.90	-0.10	1357.50	67.40
393.00	367.70	73.40	2.90	-0.10	1367.64	67.40
394.00	368.06	74.12	2.90	-0.10	1353.21	67.30
395.00	368.24	73.58	2.90	-0.10	1361.79	67.30
396.00	368.24	73.58	2.90	-0.10	1352.43	67.20
397.00	368.78	73.40	2.90	-0.10	1364.71	67.10
398.00	368.42	73.76	2.90	-0.10	1361.98	67.10
399.00	368.60	73.94	2.90	-0.10	1364.52	67.10
400.00	369.14	73.58	2.90	-0.10	1360.81	67.10
401.00	368.96	73.58	2.90	-0.10	1348.54	67.10
402.00	369.14	73.76	2.90	-0.10	1367.44	67.20
403.00	369.32	74.12	2.90	-0.10	1367.25	67.10
404.00	369.32	73.58	2.90	-0.10	1376.60	67.10
405.00	369.68	73.40	3.00	-0.10	1369.98	67.10
406.00	369.86	74.48	3.00	-0.10	1394.34	67.00
407.00	370.04	74.12	3.00	-0.10	1367.64	67.00
408.00	370.58	73.40	3.00	-0.10	1395.12	67.00
409.00	370.58	73.58	3.00	-0.10	1380.50	67.10
410.00	370.94	73.58	3.00	-0.10	1394.15	67.20
411.00	370.94	73.76	3.00	-0.10	1374.26	67.20
412.00	371.30	73.94	3.00	-0.10	1376.60	67.20
413.00	371.84	73.94	3.00	-0.10	1375.82	67.10
414.00	372.02	73.94	3.00	-0.10	1380.89	67.00
415.00	372.20	74.30	3.00	-0.10	1359.26	67.00
416.00	372.38	73.76	3.00	-0.10	1371.54	66.90
417.00	372.56	73.76	3.00	-0.10	1377.97	66.90
418.00	372.92	73.94	3.00	-0.10	1371.73	66.90
419.00	373.10	73.76	3.00	-0.10	1378.16	67.00
420.00	373.10	73.94	3.00	-0.10	1360.81	67.10
421.00	373.46	73.58	3.00	-0.10	1377.19	67.00
422.00	373.28	73.94	3.00	-0.10	1353.21	67.00
423.00	374.00	73.58	3.00	-0.10	1389.08	67.20
424.00	374.00	73.76	3.00	-0.10	1372.32	67.20
425.00	374.36	73.94	3.00	-0.10	1401.16	67.20
426.00	374.18	74.48	3.00	-0.10	1377.19	67.10
427.00	374.54	73.58	3.00	-0.10	1409.15	67.20
428.00	374.90	73.94	3.00	-0.10	1382.65	67.20
429.00	375.62	73.76	3.00	-0.10	1412.08	67.30
430.00	375.44	74.12	3.00	-0.10	1388.10	67.40
431.00	375.80	74.12	3.00	-0.10	1399.41	67.40
432.00	375.44	73.94	3.00	-0.10	1391.61	67.40
433.00	376.34	73.94	3.10	-0.10	1409.15	67.40
434.00	377.06	73.94	3.10	-0.10	1412.86	67.30
435.00	377.24	73.76	3.10	-0.10	1414.42	67.30
436.00	377.60	73.94	3.10	-0.10	1419.68	67.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
437.00	377.60	73.58	3.10	-0.10	1403.70	67.10
438.00	377.96	74.12	3.10	-0.10	1423.78	67.10
439.00	378.32	73.76	3.10	-0.10	1388.30	67.20
440.00	378.50	73.94	3.10	-0.10	1417.54	67.20
441.00	378.32	73.58	3.10	-0.10	1394.15	67.20
442.00	378.86	73.76	3.10	-0.10	1421.82	67.20
443.00	378.68	74.12	3.10	-0.10	1405.45	67.20
444.00	379.22	74.12	3.10	-0.10	1426.89	67.10
445.00	379.04	73.58	3.10	-0.10	1408.77	67.00
446.00	379.22	74.12	3.10	-0.10	1423.97	67.00
447.00	379.94	73.94	3.10	-0.10	1410.71	67.00
448.00	379.58	73.76	3.10	-0.10	1413.44	67.10
449.00	380.30	74.30	3.10	-0.10	1408.57	67.20
450.00	380.30	73.58	3.10	-0.10	1416.37	67.10
451.00	380.30	74.12	3.10	-0.10	1406.43	67.10
452.00	380.84	74.30	3.10	-0.10	1401.55	67.00
453.00	380.66	73.94	3.10	-0.10	1404.67	67.10
454.00	380.48	74.12	3.10	-0.10	1406.23	67.10
455.00	381.02	73.94	3.10	-0.10	1414.42	67.10
456.00	381.20	73.94	3.10	-0.10	1395.32	67.20
457.00	381.56	74.12	3.10	-0.10	1407.79	67.20
458.00	381.56	73.94	3.20	-0.10	1390.25	67.10
459.00	381.56	74.48	3.20	-0.10	1406.82	67.10
460.00	382.10	73.94	3.20	-0.10	1391.81	67.20
461.00	381.74	74.12	3.20	-0.10	1401.36	67.30
462.00	381.74	74.12	3.20	-0.10	1386.35	67.40
463.00	381.56	73.94	3.20	-0.10	1385.57	67.40
464.00	381.74	74.12	3.20	-0.10	1382.65	67.40
465.00	381.92	74.12	3.20	-0.10	1396.49	67.40
466.00	381.56	73.94	3.20	-0.10	1375.43	67.40
467.00	381.74	74.12	3.20	-0.10	1392.20	67.40
468.00	382.10	73.76	3.20	-0.10	1381.67	67.40
469.00	381.56	74.12	3.20	-0.10	1385.57	67.40
470.00	381.74	74.30	3.20	-0.10	1386.35	67.30
471.00	381.38	73.94	3.20	-0.10	1371.73	67.30
472.00	381.56	74.30	3.20	-0.10	1386.54	67.30
473.00	381.38	73.76	3.20	-0.10	1356.33	67.40
474.00	381.38	74.12	3.20	-0.10	1371.54	67.40
475.00	381.92	74.30	3.20	-0.10	1344.25	67.40
476.00	381.74	73.76	3.20	-0.10	1373.48	67.40
477.00	381.92	74.12	3.20	-0.10	1330.41	67.30
478.00	382.10	73.76	3.30	-0.10	1355.16	67.40
479.00	381.20	73.94	3.30	-0.10	1319.49	67.40
480.00	381.38	74.12	3.30	-0.10	1351.46	67.50
481.00	381.02	74.12	3.30	-0.10	1343.86	67.50
482.00	380.30	74.12	3.30	-0.10	1371.15	67.50
483.00	380.30	74.12	3.30	-0.10	1364.71	67.50
484.00	379.58	74.48	3.30	-0.10	1371.54	67.40
485.00	379.04	74.48	3.30	-0.10	1384.40	67.40
486.00	379.40	73.58	3.30	-0.10	1386.35	67.50
487.00	378.50	74.12	3.30	-0.10	1423.97	67.50
488.00	378.50	74.30	3.30	-0.10	1405.45	67.50
489.00	377.96	73.76	3.30	-0.10	1430.40	67.50
490.00	377.78	74.12	3.30	-0.10	1417.34	67.50
491.00	377.60	74.12	3.30	-0.10	1442.10	67.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
492.00	377.42	74.48	3.30	-0.10	1420.07	67.40
493.00	377.42	74.48	3.30	-0.10	1449.89	67.30
494.00	377.60	74.30	3.40	-0.10	1427.87	67.20
495.00	377.42	74.12	3.40	-0.10	1468.02	67.20
496.00	377.42	74.30	3.40	-0.10	1446.97	67.30
497.00	377.06	73.94	3.40	-0.10	1471.53	67.40
498.00	377.24	73.94	3.40	-0.10	1466.85	67.40
499.00	377.60	73.94	3.40	-0.10	1470.94	67.30
500.00	377.42	74.12	3.40	-0.10	1466.66	67.30
501.00	377.96	74.48	3.40	-0.10	1461.39	67.40
502.00	378.14	73.94	3.40	-0.10	1458.86	67.40
503.00	378.50	73.94	3.40	-0.10	1448.53	67.40
504.00	379.04	74.12	3.40	-0.10	1448.14	67.30
505.00	378.50	74.48	3.40	-0.10	1439.37	67.30
506.00	378.86	74.30	3.40	-0.10	1466.46	67.30
507.00	379.04	73.94	3.40	-0.10	1440.93	67.40
508.00	378.32	74.30	3.40	-0.10	1458.66	67.40
509.00	378.50	73.94	3.40	-0.10	1429.82	67.40
510.00	378.32	74.12	3.40	-0.10	1452.04	67.40
511.00	378.50	74.30	3.40	-0.10	1427.67	67.40
512.00	378.50	73.58	3.40	-0.10	1443.07	67.50
513.00	378.32	74.48	3.40	-0.10	1414.42	67.40
514.00	378.86	74.30	3.40	-0.10	1435.66	67.30
515.00	378.68	74.48	3.50	-0.10	1384.79	67.30
516.00	378.86	74.48	3.50	-0.10	1413.64	67.30
517.00	378.68	73.94	3.50	-0.10	1376.60	67.40
518.00	378.50	74.12	3.50	-0.10	1380.11	67.40
519.00	378.68	74.30	3.50	-0.10	1353.60	67.40
520.00	378.14	74.12	3.50	-0.10	1352.63	67.40
521.00	377.42	73.94	3.50	-0.10	1342.69	67.40
522.00	377.60	74.48	3.50	-0.10	1341.71	67.30
523.00	377.24	74.48	3.50	-0.10	1350.87	67.30
524.00	377.24	74.12	3.50	-0.10	1337.42	67.30
525.00	376.88	74.12	3.50	-0.10	1377.77	67.30
526.00	376.16	74.12	3.50	-0.10	1366.66	67.20
527.00	376.16	73.94	3.50	-0.10	1392.59	67.10
528.00	375.80	74.48	3.50	-0.10	1388.10	67.10
529.00	375.44	73.40	3.50	-0.10	1414.61	67.10
530.00	375.26	74.12	3.60	-0.10	1406.62	67.20
531.00	374.72	74.66	3.60	-0.10	1435.47	67.20
532.00	374.72	74.30	3.60	-0.10	1431.38	67.20
533.00	374.36	74.48	3.60	-0.10	1451.06	67.30
534.00	374.36	73.94	3.60	-0.10	1453.99	67.30
535.00	374.18	73.94	3.60	-0.10	1458.08	67.20
536.00	373.64	74.12	3.60	-0.10	1461.20	67.10
537.00	374.18	74.48	3.60	-0.10	1456.71	67.00
538.00	373.46	74.48	3.60	-0.10	1462.95	66.90
539.00	374.00	74.48	3.60	-0.10	1457.69	66.80
540.00	374.00	74.48	3.60	-0.10	1467.24	66.80
541.00	373.64	74.30	3.60	-0.10	1463.54	66.90
542.00	374.18	74.48	3.60	-0.10	1487.32	67.00
543.00	374.00	74.12	3.60	-0.10	1471.53	67.00
544.00	373.64	74.48	3.60	-0.10	1495.89	67.00
545.00	373.64	74.48	3.70	-0.10	1454.96	67.00
546.00	373.46	74.30	3.70	-0.10	1488.68	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
547.00	373.28	74.30	3.70	-0.10	1470.55	66.90
548.00	373.46	74.48	3.70	-0.10	1507.98	66.90
549.00	372.92	74.30	3.70	-0.10	1473.87	66.80
550.00	373.46	74.30	3.70	-0.10	1504.47	66.80
551.00	372.56	73.94	3.70	-0.10	1476.01	66.80
552.00	372.74	74.48	3.70	-0.10	1510.51	66.80
553.00	372.92	74.30	3.70	-0.10	1482.83	67.00
554.00	372.20	74.48	3.70	-0.10	1512.27	66.90
555.00	372.56	74.48	3.70	-0.10	1484.20	67.00
556.00	372.20	73.94	3.70	-0.10	1473.48	67.00
557.00	372.20	74.30	3.70	-0.10	1481.08	67.00
558.00	372.38	74.48	3.70	-0.10	1469.77	67.10
559.00	372.38	74.84	3.70	-0.10	1489.07	67.10
560.00	372.38	74.48	3.70	-0.10	1460.42	67.20
561.00	372.38	74.30	3.70	-0.10	1483.61	67.20
562.00	372.20	74.66	3.70	-0.10	1464.71	67.20
563.00	372.20	74.30	3.70	-0.10	1483.03	67.20
564.00	372.02	73.94	3.80	-0.10	1464.12	67.30
565.00	371.84	74.30	3.80	-0.10	1483.03	67.20
566.00	371.48	74.30	3.80	-0.10	1454.77	67.20
567.00	371.30	74.48	3.80	-0.10	1478.55	67.20
568.00	371.84	74.30	3.80	-0.10	1439.37	67.20
569.00	371.30	74.48	3.80	-0.10	1467.44	67.30
570.00	371.48	74.48	3.80	-0.10	1445.41	67.20
571.00	371.48	74.30	3.80	-0.10	1451.26	67.20
572.00	371.66	74.48	3.80	-0.10	1427.28	67.20
573.00	371.66	74.12	3.80	-0.10	1413.44	67.10
574.00	371.30	73.94	3.80	-0.10	1408.96	67.10
575.00	370.94	74.30	3.80	-0.10	1385.57	67.20
576.00	370.76	73.94	3.80	-0.10	1397.85	67.20
577.00	370.04	74.48	3.80	-0.10	1366.66	67.30
578.00	370.04	74.30	3.80	-0.10	1384.01	67.30
579.00	369.14	74.30	3.80	-0.10	1359.45	67.30
580.00	368.96	73.94	3.80	-0.10	1380.50	67.40
581.00	368.60	74.12	3.90	-0.10	1371.34	67.50
582.00	367.70	73.94	3.90	-0.10	1392.98	67.50
583.00	367.88	74.30	3.90	-0.10	1378.75	67.50
584.00	367.52	74.48	3.90	-0.10	1408.38	67.40
585.00	367.16	74.30	3.90	-0.10	1391.42	67.40
586.00	367.34	74.12	3.90	-0.10	1418.12	67.40
587.00	367.16	73.94	3.90	-0.10	1399.80	67.40
588.00	367.34	74.30	3.90	-0.10	1428.65	67.40
589.00	367.16	74.66	3.90	-0.10	1377.58	67.50
590.00	366.80	74.30	3.90	-0.10	1401.36	67.50
591.00	366.62	74.48	3.90	-0.10	1388.10	67.50
592.00	366.26	73.22	3.90	-0.10	1385.37	67.60
593.00	366.44	74.48	3.90	-0.10	1387.91	67.60
594.00	365.90	74.12	3.90	-0.10	1387.71	67.60
595.00	365.90	74.30	3.90	-0.10	1411.49	67.60
596.00	366.08	73.58	3.90	-0.10	1396.29	67.60
597.00	365.54	74.30	3.90	-0.10	1412.66	67.60
598.00	365.54	74.48	3.90	-0.10	1395.32	67.60
599.00	365.54	74.84	4.00	-0.10	1412.27	67.60
600.00	365.90	74.30	4.00	-0.10	1400.77	67.60
601.00	365.90	74.48	4.00	-0.10	1423.19	67.60

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
602.00	365.72	74.30	4.00	-0.10	1395.90	67.60
603.00	365.90	74.30	4.00	-0.10	1408.18	67.60
604.00	365.90	74.12	4.00	-0.10	1407.99	67.60
605.00	365.54	74.30	4.00	-0.10	1414.81	67.60
606.00	365.90	74.30	4.00	-0.10	1406.04	67.60
607.00	365.36	73.94	4.00	-0.10	1415.20	67.60
608.00	365.90	74.30	4.00	-0.10	1426.50	67.60
609.00	365.54	73.94	4.00	-0.10	1396.68	67.60
610.00	365.54	74.30	4.00	-0.10	1419.68	67.60
611.00	365.72	74.48	4.00	-0.10	1411.69	67.60
612.00	365.90	74.12	4.00	-0.10	1426.50	67.60
613.00	365.90	74.12	4.00	-0.10	1415.59	67.60
614.00	365.90	74.30	4.00	-0.10	1425.33	67.60
615.00	365.54	74.30	4.00	-0.10	1420.46	67.60
616.00	365.90	74.30	4.00	-0.10	1430.60	67.70
617.00	365.54	73.94	4.10	-0.10	1416.56	67.70
618.00	365.72	75.02	4.10	-0.10	1434.30	67.70
619.00	365.54	73.94	4.10	-0.10	1409.54	67.70
620.00	365.54	74.30	4.10	-0.10	1404.09	67.80
621.00	365.54	74.30	4.10	-0.10	1403.89	67.80
622.00	365.36	73.58	4.10	-0.10	1388.88	67.80
623.00	365.36	74.30	4.10	-0.10	1394.73	67.90
624.00	365.18	73.94	4.10	-0.10	1364.52	67.80
625.00	364.64	74.12	4.10	-0.10	1383.04	67.80
626.00	364.46	74.30	4.10	-0.10	1357.70	67.70
627.00	363.74	74.30	4.10	-0.10	1368.03	67.70
628.00	363.92	74.12	4.10	-0.10	1344.25	67.50
629.00	363.56	74.12	4.10	-0.10	1366.47	67.50
630.00	362.84	74.48	4.10	-0.10	1344.05	67.40
631.00	362.84	73.94	4.10	-0.10	1354.58	67.50
632.00	362.30	73.94	4.10	-0.10	1339.96	67.50
633.00	361.94	74.30	4.10	-0.10	1365.10	67.60
634.00	361.58	74.12	4.20	-0.10	1373.68	67.60
635.00	360.86	74.12	4.20	-0.10	1374.46	67.60
636.00	361.04	74.84	4.20	-0.10	1387.32	67.60
637.00	360.86	74.12	4.20	-0.10	1393.95	67.70
638.00	360.68	74.48	4.20	-0.10	1383.62	67.60
639.00	359.96	74.12	4.20	-0.10	1383.43	67.60
640.00	358.88	74.30	4.20	-0.10	1402.14	67.60
641.00	358.70	74.12	4.20	-0.10	1391.61	67.60
642.00	357.62	74.30	4.20	-0.10	1414.03	67.60
643.00	357.44	74.30	4.20	-0.10	1406.04	67.60
644.00	356.54	73.76	4.20	-0.10	1422.80	67.60
645.00	356.36	74.66	4.20	-0.10	1416.95	67.60
646.00	355.64	74.30	4.20	-0.10	1435.27	67.60
647.00	355.10	73.76	4.30	-0.10	1439.76	67.60
648.00	354.38	74.30	4.30	-0.10	1440.15	67.50
649.00	354.02	74.12	4.30	-0.10	1449.50	67.60
650.00	353.48	74.12	4.30	-0.10	1453.99	67.50
651.00	353.30	74.30	4.30	-0.10	1457.88	67.50
652.00	352.58	74.12	4.30	-0.10	1453.21	67.50
653.00	352.40	74.30	4.30	-0.10	1469.77	67.60
654.00	352.04	74.30	4.30	-0.10	1458.86	67.50
655.00	351.86	74.84	4.30	-0.10	1476.60	67.50
656.00	351.50	74.12	4.30	-0.10	1456.52	67.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
657.00	350.96	74.12	4.30	-0.10	1478.94	67.50
658.00	350.78	74.30	4.30	-0.10	1470.16	67.40
659.00	350.60	74.30	4.30	-0.10	1489.66	67.40
660.00	350.24	73.76	4.30	-0.10	1483.03	67.40
661.00	350.24	73.94	4.40	-0.10	1500.18	67.40
662.00	350.06	73.94	4.40	-0.10	1500.38	67.40
663.00	349.88	74.30	4.40	-0.10	1508.95	67.40
664.00	350.06	73.76	4.40	-0.10	1504.47	67.30
665.00	349.88	73.94	4.40	-0.10	1509.54	67.30
666.00	350.24	74.30	4.40	-0.10	1515.00	67.20
667.00	350.24	74.12	4.40	-0.10	1481.47	67.20
668.00	350.24	74.48	4.40	-0.10	1506.42	67.20
669.00	350.96	73.94	4.40	-0.10	1483.81	67.20
670.00	350.60	73.94	4.40	-0.10	1494.92	67.10
671.00	351.14	74.66	4.40	-0.10	1485.17	67.10
672.00	351.14	74.30	4.40	-0.10	1486.73	67.10
673.00	350.78	73.94	4.40	-0.10	1477.18	67.00
674.00	351.14	74.30	4.40	-0.10	1479.13	67.00
675.00	350.78	74.12	4.40	-0.10	1468.22	67.00
676.00	350.78	74.30	4.40	-0.10	1460.81	67.00
677.00	351.14	73.94	4.40	-0.10	1428.45	67.00
678.00	350.96	73.94	4.40	-0.60	1432.55	67.00
679.00	350.78	74.30	4.50	-0.10	1414.42	67.10
680.00	350.24	74.12	4.50	-0.10	1398.24	67.20
681.00	350.42	74.48	4.50	-0.10	1417.73	67.20
682.00	350.42	74.30	4.50	-0.10	1389.08	67.20
683.00	349.88	74.66	4.50	-0.10	1395.71	67.10
684.00	349.34	74.12	4.50	-0.10	1370.76	67.20
685.00	349.34	74.12	4.50	-0.10	1374.46	67.30
686.00	349.34	73.94	4.50	-0.10	1353.41	67.30
687.00	349.16	74.12	4.50	-0.10	1361.98	67.40
688.00	348.62	73.94	4.50	-0.10	1351.85	67.50
689.00	348.62	73.94	4.50	-0.10	1355.94	67.50
690.00	348.80	73.94	4.50	-0.10	1348.92	67.50
691.00	347.90	74.30	4.50	-0.60	1357.11	67.50
692.00	347.72	74.12	4.50	-0.60	1362.76	67.50
693.00	346.82	73.94	4.50	-0.10	1351.07	67.50
694.00	347.36	74.30	4.50	-0.60	1351.26	67.50
695.00	346.82	74.30	4.50	-0.10	1354.97	67.40
696.00	346.64	74.30	4.60	-0.10	1367.83	67.40
697.00	347.72	73.94	4.60	-0.10	1371.15	67.40
698.00	346.64	74.12	4.60	-0.10	1371.54	67.30
699.00	346.82	74.48	4.60	-0.10	1369.00	67.30
700.00	346.28	74.12	4.60	-0.10	1389.08	67.30
701.00	346.64	73.94	4.60	-0.10	1368.22	67.40
702.00	346.82	73.76	4.60	-0.10	1388.10	67.40
703.00	347.00	73.94	4.60	-0.10	1382.84	67.40
704.00	347.00	74.30	4.60	-0.60	1394.34	67.40
705.00	346.82	74.12	4.60	-0.60	1391.22	67.40
706.00	347.18	74.30	4.60	-0.60	1400.38	67.30
707.00	347.54	73.94	4.60	-0.10	1407.40	67.20
708.00	347.36	74.12	4.60	-0.10	1403.11	67.20
709.00	347.72	74.30	4.60	-0.10	1424.16	67.10
710.00	347.54	73.94	4.60	-0.10	1403.11	67.10
711.00	348.26	74.30	4.60	-0.10	1418.32	67.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
712.00	348.44	74.30	4.70	-0.10	1402.92	67.10
713.00	348.62	74.30	4.70	-0.10	1412.66	67.20
714.00	348.98	74.12	4.70	-0.10	1378.55	67.20
715.00	348.98	73.94	4.70	-0.10	1390.05	67.30
716.00	349.16	74.48	4.70	-0.60	1374.46	67.30
717.00	349.34	74.30	4.70	-0.10	1364.13	67.40
718.00	349.52	74.30	4.70	-0.10	1360.81	67.40
719.00	349.34	74.12	4.70	-0.60	1373.09	67.40
720.00	349.88	74.48	4.70	-0.10	1380.70	67.50
721.00	350.24	74.66	4.70	-0.10	1360.04	67.40
722.00	350.42	74.12	4.70	-0.10	1378.16	67.40
723.00	350.24	74.30	4.70	-0.10	1362.96	67.50
724.00	351.14	74.12	4.70	-0.10	1378.55	67.50
725.00	350.78	74.12	4.70	-0.10	1341.13	67.50
726.00	351.14	74.30	4.70	-0.10	1377.38	67.50
727.00	351.68	73.76	4.70	-0.10	1355.94	67.50
728.00	352.22	74.30	4.70	-0.10	1362.96	67.50
729.00	352.22	74.30	4.70	-0.10	1357.89	67.40
730.00	352.04	73.94	4.70	-0.10	1356.53	67.40
731.00	352.76	74.30	4.80	-0.10	1352.43	67.40
732.00	353.12	73.76	4.80	-0.10	1359.26	67.50
733.00	353.12	74.12	4.80	-0.10	1378.36	67.50
734.00	354.02	73.94	4.80	-0.10	1367.83	67.70

Ignitibility Testing: Drilling into Saltcake, 1 cc/min Flammable, no purge, 2nd run

9/1/94

File Name: Run10_3b

Time(Sec)	BitTemp(F)	PrgTmp(F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	83.12	71.06	0.00	-0.10	1382.06	67.50
1.00	83.12	70.52	0.00	-0.10	1371.73	67.40
2.00	83.30	70.70	0.00	-0.10	1381.28	67.50
3.00	84.02	70.34	0.00	-0.10	1376.60	67.50
4.00	84.02	70.34	0.00	-0.10	1336.65	67.50
5.00	84.02	71.24	0.00	-0.10	1295.32	67.30
6.00	84.20	70.52	0.00	-0.10	1284.60	67.10
7.00	84.92	70.70	0.20	-0.10	1278.36	66.90
8.00	86.18	70.52	0.50	-0.10	1296.30	66.70
9.00	91.22	70.16	0.90	-0.10	1341.52	66.20
10.00	95.36	70.70	0.90	-0.10	1358.67	66.10
11.00	100.22	70.16	1.00	-0.10	1356.92	66.00
12.00	105.08	72.32	1.10	-0.10	1394.15	65.90
13.00	110.84	70.34	1.10	-0.10	1372.51	65.90
14.00	114.98	70.52	1.10	-0.10	1373.09	65.90
15.00	120.20	70.52	1.20	-0.10	1362.57	65.80
16.00	125.06	70.52	1.20	-0.10	1365.49	65.70
17.00	130.46	70.34	1.20	-0.10	1363.54	65.60
18.00	134.60	71.60	1.30	-0.10	1390.64	65.50
19.00	136.94	70.52	1.30	-0.10	1367.44	65.50
20.00	141.44	70.70	1.30	-0.10	1390.05	65.50
21.00	144.68	70.52	1.30	-0.10	1375.24	65.50
22.00	147.56	70.70	1.40	-0.10	1385.18	65.50
23.00	150.98	70.52	1.40	-0.10	1373.68	65.60
24.00	154.76	70.70	1.40	-0.10	1406.62	65.70
25.00	158.00	70.70	1.40	-0.10	1374.26	65.70
26.00	162.14	70.52	1.40	-0.10	1395.12	65.70
27.00	165.56	70.52	1.40	-0.10	1371.93	65.80
28.00	168.80	70.70	1.40	-0.10	1393.76	65.80
29.00	171.68	70.52	1.40	-0.10	1371.73	65.80
30.00	174.74	70.70	1.40	-0.10	1403.50	65.70
31.00	173.66	70.52	1.50	-0.10	1371.54	65.80
32.00	179.60	70.70	1.50	-0.10	1381.67	65.80
33.00	182.66	71.06	1.50	-0.10	1367.05	65.80
34.00	184.64	70.52	1.50	-0.10	1375.63	65.80
35.00	186.80	70.52	1.50	-0.10	1362.96	65.90
36.00	189.32	70.70	1.50	-0.10	1415.00	65.90
37.00	191.66	70.52	1.50	-0.10	1395.32	66.00
38.00	195.26	71.06	1.50	-0.10	1388.30	66.10
39.00	197.06	70.52	1.50	-0.10	1388.69	66.10
40.00	199.94	70.70	1.50	-0.10	1394.34	66.10
41.00	202.46	70.70	1.50	-0.10	1387.52	66.10
42.00	204.62	71.06	1.50	-0.10	1392.78	66.10
43.00	207.50	70.52	1.50	-0.10	1421.43	66.10
44.00	213.98	70.52	1.60	-0.10	1392.39	66.10
45.00	212.18	70.70	1.60	-0.10	1389.86	66.10
46.00	213.62	70.70	1.60	-0.10	1379.33	66.10
47.00	215.60	70.70	1.60	-0.10	1378.94	66.10
48.00	217.58	69.98	1.60	-0.10	1395.12	66.10
49.00	220.10	70.70	1.60	-0.10	1399.41	66.10
50.00	224.24	70.70	1.60	-0.10	1372.32	66.20
51.00	226.04	70.52	1.60	-0.10	1389.86	66.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	229.64	70.70	1.60	-0.10	1390.44	66.20
53.00	232.16	70.70	1.60	-0.10	1389.86	66.30
54.00	234.68	70.70	1.60	-0.10	1377.77	66.30
55.00	237.38	71.06	1.60	-0.10	1393.95	66.30
56.00	239.18	71.24	1.60	-0.10	1382.06	66.30
57.00	241.16	69.26	1.60	-0.10	1388.30	66.40
58.00	243.14	70.52	1.60	-0.10	1359.65	66.40
59.00	245.84	70.70	1.60	-0.10	1394.15	66.40
60.00	247.64	70.52	1.60	-0.10	1381.48	66.40
61.00	250.34	70.70	1.60	-0.10	1393.76	66.50
62.00	252.32	70.52	1.60	-0.10	1381.48	66.50
63.00	253.58	71.06	1.60	-0.10	1386.93	66.50
64.00	255.20	70.70	1.60	-0.10	1377.19	66.50
65.00	256.28	70.70	1.60	-0.10	1384.40	66.60
66.00	257.90	70.88	1.60	-0.10	1370.37	66.60
67.00	258.98	70.70	1.60	-0.10	1406.62	66.60
68.00	259.52	70.52	1.60	-0.10	1364.32	66.60
69.00	260.06	70.16	1.60	-0.10	1384.79	66.60
70.00	260.96	71.06	1.60	-0.10	1372.51	66.70
71.00	262.04	70.70	1.60	-0.10	1380.70	66.70
72.00	263.30	71.06	1.60	-0.10	1376.60	66.70
73.00	265.10	71.06	1.60	-0.10	1373.09	66.80
74.00	265.82	70.70	1.60	-0.10	1356.33	66.80
75.00	267.62	70.88	1.60	-0.10	1361.98	66.80
76.00	269.78	70.70	1.60	-0.10	1369.20	66.80
77.00	270.86	70.52	1.70	-0.10	1375.63	66.80
78.00	272.30	71.06	1.60	-0.10	1375.82	66.80
79.00	272.84	71.06	1.60	-0.10	1361.79	66.80
80.00	274.82	71.42	1.70	-0.10	1370.17	66.70
81.00	274.46	70.88	1.70	-0.10	1375.63	66.70
82.00	274.46	71.24	1.70	-0.10	1406.43	66.70
83.00	275.54	70.88	1.70	-0.10	1366.66	66.60
84.00	276.26	70.88	1.70	-0.10	1377.97	66.70
85.00	277.70	70.88	1.70	-0.10	1371.54	66.80
86.00	277.70	70.70	1.70	-0.10	1376.02	66.70
87.00	278.96	71.06	1.70	-0.10	1380.89	66.60
88.00	280.04	70.52	1.70	-0.10	1414.42	66.60
89.00	285.44	70.88	1.70	-0.10	1362.96	66.60
90.00	281.66	71.06	1.70	-0.10	1381.67	66.70
91.00	282.74	71.06	1.70	-0.10	1346.59	66.60
92.00	283.28	70.70	1.70	-0.10	1370.95	66.70
93.00	283.82	71.06	1.70	-0.10	1352.63	66.80
94.00	284.90	71.06	1.70	-0.10	1385.57	66.80
95.00	290.12	70.70	1.70	-0.10	1373.29	66.80
96.00	286.88	71.24	1.70	-0.10	1392.39	66.80
97.00	288.50	71.24	1.70	-0.10	1362.18	66.80
98.00	288.68	71.24	1.70	-0.10	1390.44	66.90
99.00	289.04	71.06	1.70	-0.10	1359.45	67.00
100.00	290.30	70.88	1.70	-0.10	1376.60	67.00
101.00	291.02	70.52	1.70	-0.10	1367.44	67.00
102.00	291.20	70.70	1.70	-0.10	1388.49	67.00
103.00	292.28	71.06	1.70	-0.10	1376.99	67.00
104.00	292.10	71.24	1.70	-0.10	1376.02	67.00
105.00	293.90	71.60	1.70	-0.10	1364.32	67.00
106.00	295.34	71.24	1.70	-0.10	1389.08	67.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	295.70	71.60	1.70	-0.10	1390.44	66.90
108.00	296.96	68.54	1.70	-0.10	1401.36	66.90
109.00	297.50	71.06	1.70	-0.10	1394.34	66.90
110.00	298.94	71.06	1.70	-0.10	1417.15	66.90
111.00	300.02	71.06	1.70	-0.10	1375.43	66.80
112.00	301.10	71.06	1.70	-0.10	1399.41	66.70
113.00	302.36	71.06	1.70	-0.10	1388.49	66.60
114.00	303.44	70.70	1.70	-0.10	1392.98	66.60
115.00	304.52	71.06	1.70	-0.10	1395.90	66.60
116.00	305.78	71.06	1.70	-0.10	1394.34	66.60
117.00	306.68	71.06	1.70	-0.10	1394.93	66.60
118.00	307.94	70.88	1.70	-0.10	1374.07	66.70
119.00	309.02	71.24	1.70	-0.10	1377.58	66.70
120.00	310.10	70.70	1.70	-0.10	1383.04	66.60
121.00	310.82	71.78	1.70	-0.10	1381.28	66.60
122.00	312.08	71.24	1.70	-0.10	1373.48	66.60
123.00	312.80	71.60	1.70	-0.10	1386.35	66.50
124.00	314.24	71.42	1.70	-0.10	1357.50	66.50
125.00	315.14	71.24	1.70	-0.10	1373.09	66.50
126.00	316.58	71.42	1.70	-0.10	1359.26	66.50
127.00	317.84	71.24	1.70	-0.10	1369.39	66.50
128.00	318.38	71.42	1.70	-0.10	1341.32	66.40
129.00	319.64	71.42	1.70	-0.10	1370.95	66.40
130.00	320.36	71.06	1.70	-0.10	1340.54	66.40
131.00	321.98	71.24	1.70	-0.10	1359.26	66.50
132.00	323.78	71.24	1.70	-0.10	1339.57	66.50
133.00	324.50	71.24	1.70	-0.10	1392.00	66.40
134.00	323.96	71.24	1.70	-0.10	1353.21	66.30
135.00	325.76	71.60	1.70	-0.10	1358.48	66.20
136.00	327.02	71.42	1.70	-0.10	1340.15	66.30
137.00	327.74	71.60	1.70	-0.10	1355.16	66.30
138.00	328.64	71.60	1.70	-0.10	1349.70	66.40
139.00	329.54	71.60	1.70	-0.10	1386.15	66.30
140.00	333.50	71.42	1.70	-0.10	1363.74	66.30
141.00	332.24	71.06	1.70	-0.10	1366.27	66.40
142.00	332.24	71.42	1.70	-0.10	1350.87	66.40
143.00	333.14	71.24	1.70	-0.10	1347.56	66.30
144.00	333.32	71.78	1.70	-0.10	1339.37	66.20
145.00	334.22	71.60	1.70	-0.10	1360.43	66.20
146.00	336.74	71.06	1.70	-0.10	1348.34	66.20
147.00	336.02	71.60	1.70	-0.10	1358.48	66.20
148.00	336.56	71.24	1.70	-0.10	1361.59	66.20
149.00	337.82	71.24	1.70	-0.10	1364.13	66.10
150.00	339.08	71.24	1.70	-0.10	1358.48	66.20
151.00	339.62	71.42	1.70	-0.10	1343.27	66.20
152.00	340.34	71.60	1.70	-0.10	1341.71	66.30
153.00	340.70	71.78	1.70	-0.10	1338.01	66.30
154.00	341.60	71.78	1.70	-0.10	1342.49	66.20
155.00	343.04	71.60	1.70	-0.10	1332.94	66.30
156.00	342.86	71.60	1.70	-0.10	1359.26	66.30
157.00	343.40	71.96	1.70	-0.10	1327.68	66.30
158.00	343.76	71.60	1.70	-0.10	1339.18	66.20
159.00	344.66	71.24	1.70	-0.10	1324.56	66.00
160.00	345.38	71.24	1.70	-0.10	1335.09	66.10
161.00	345.56	71.78	1.70	-0.10	1327.48	66.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	345.92	71.24	1.70	-0.10	1341.32	66.30
163.00	346.82	71.06	1.70	-0.10	1327.48	66.40
164.00	347.18	71.60	1.70	-0.10	1348.73	66.30
165.00	347.72	71.24	1.70	-0.10	1325.53	66.30
166.00	349.70	72.86	1.70	-0.10	1340.15	66.40
167.00	349.70	71.60	1.70	-0.10	1324.37	66.40
168.00	350.06	71.60	1.70	-0.10	1335.48	66.50
169.00	350.60	71.42	1.70	-0.10	1313.06	66.40
170.00	350.96	71.06	1.70	-0.10	1344.05	66.40
171.00	351.50	71.24	1.70	-0.10	1320.86	66.50
172.00	352.04	73.40	1.70	-0.10	1338.20	66.60
173.00	352.94	71.60	1.70	-0.10	1318.32	66.50
174.00	353.48	71.60	1.70	-0.10	1320.47	66.50
175.00	353.84	71.60	1.70	-0.10	1319.88	66.60
176.00	354.74	71.24	1.70	-0.10	1323.78	66.60
177.00	354.92	71.24	1.70	-0.10	1335.67	66.70
178.00	355.82	71.60	1.70	-0.10	1330.21	66.70
179.00	356.36	71.42	1.70	-0.10	1341.13	66.70
180.00	356.54	71.78	1.70	-0.10	1326.51	66.70
181.00	356.72	71.60	1.70	-0.10	1334.31	66.80
182.00	357.62	71.78	1.70	-0.10	1322.42	66.70
183.00	357.98	71.60	1.70	-0.10	1346.98	66.60
184.00	359.06	71.78	1.70	-0.10	1319.88	66.60
185.00	353.84	71.60	1.70	-0.10	1338.98	66.70
186.00	358.16	71.42	1.70	-0.10	1313.06	66.70
187.00	358.70	71.78	1.70	-0.10	1330.02	66.70
188.00	358.34	71.60	1.70	-0.10	1302.92	66.80
189.00	358.34	71.24	1.70	-0.10	1323.00	66.80
190.00	358.88	71.24	1.70	-0.10	1327.48	66.80
191.00	359.42	71.60	1.70	-0.10	1336.65	66.80
192.00	360.14	71.60	1.70	-0.10	1305.85	66.80
193.00	359.96	71.60	1.70	-0.10	1313.64	66.80
194.00	360.32	71.60	1.70	-0.10	1303.90	66.90
195.00	360.32	71.60	1.70	-0.10	1315.79	66.90
196.00	360.50	71.78	1.70	-0.10	1294.74	66.90
197.00	360.86	71.42	1.70	-0.10	1322.22	66.90
198.00	363.02	71.60	1.70	-0.10	1307.21	66.90
199.00	361.94	71.60	1.70	-0.10	1316.76	67.00
200.00	362.30	71.42	1.70	-0.10	1311.31	66.90
201.00	363.02	71.60	1.70	-0.10	1306.63	66.80
202.00	362.48	71.24	1.70	-0.10	1336.45	66.80
203.00	363.02	71.78	1.70	-0.10	1333.53	66.90
204.00	363.38	71.60	1.70	-0.10	1350.48	66.80
205.00	363.20	71.78	1.70	-0.10	1343.08	66.90
206.00	363.56	71.60	1.70	-0.10	1351.85	66.90
207.00	363.38	71.60	1.70	-0.10	1342.69	67.00
208.00	364.46	71.78	1.70	-0.10	1359.06	67.00
209.00	363.92	72.14	1.70	-0.10	1330.21	67.00
210.00	364.46	72.14	1.70	-0.10	1368.81	66.90
211.00	365.18	71.60	1.70	-0.10	1337.81	66.90
212.00	365.54	71.78	1.70	-0.10	1359.65	66.80
213.00	366.08	71.60	1.70	-0.10	1338.98	66.70
214.00	366.44	71.42	1.70	-0.10	1358.28	66.80
215.00	366.80	71.42	1.70	-0.10	1340.15	66.80
216.00	366.98	71.42	1.70	-0.10	1350.87	66.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
217.00	368.24	72.68	1.70	-0.10	1334.50	66.70
218.00	369.32	71.60	1.70	-0.10	1358.48	66.80
219.00	369.86	71.60	1.70	-0.10	1338.79	66.80
220.00	370.40	71.60	1.70	-0.10	1331.58	66.80
221.00	371.12	71.60	1.70	-0.10	1329.24	66.90
222.00	371.84	71.24	1.70	-0.10	1345.81	66.90
223.00	372.20	72.50	1.70	-0.10	1333.72	66.90
224.00	372.38	71.78	1.70	-0.10	1348.92	66.80
225.00	372.92	71.24	1.70	-0.10	1330.60	66.70
226.00	373.64	71.60	1.70	-0.10	1328.46	66.80
227.00	373.82	71.60	1.70	-0.10	1332.36	66.80
228.00	374.36	71.96	1.70	-0.10	1325.92	66.70
229.00	375.80	71.60	1.70	-0.10	1337.42	66.70
230.00	376.34	71.60	1.70	-0.10	1325.34	66.70
231.00	377.42	71.78	1.70	-0.10	1352.82	66.70
232.00	377.60	71.60	1.70	-0.10	1317.93	66.60
233.00	378.32	71.78	1.70	-0.10	1338.98	66.60
234.00	379.58	71.60	1.70	-0.10	1330.21	66.60
235.00	380.30	71.78	1.70	-0.10	1338.40	66.60
236.00	377.60	71.78	1.70	-0.10	1330.99	66.50
237.00	381.02	71.96	1.70	-0.10	1334.70	66.50
238.00	381.74	71.78	1.70	-0.10	1318.32	66.60
239.00	382.28	71.42	1.70	-0.10	1328.65	66.70
240.00	383.00	71.24	1.70	-0.10	1324.17	66.60
241.00	383.54	71.78	1.70	-0.10	1363.74	66.60
242.00	384.08	71.78	1.70	-0.10	1347.17	66.60
243.00	385.16	71.78	1.70	-0.10	1335.67	66.60
244.00	385.52	71.96	1.70	-0.10	1321.25	66.60
245.00	385.88	71.96	1.70	-0.10	1334.70	66.50
246.00	385.88	71.78	1.70	-0.10	1319.30	66.50
247.00	385.70	71.78	1.70	-0.10	1335.28	66.50
248.00	385.70	72.14	1.70	-0.10	1330.02	66.50
249.00	391.64	71.60	1.70	-0.10	1324.37	66.50
250.00	387.86	71.78	1.70	-0.10	1321.83	66.50
251.00	387.68	71.78	1.70	-0.10	1325.53	66.40
252.00	387.68	72.32	1.70	-0.10	1308.97	66.50
253.00	387.50	71.60	1.70	-0.10	1323.78	66.50
254.00	387.68	71.78	1.70	-0.10	1330.60	66.50
255.00	387.86	71.78	1.70	-0.10	1327.09	66.50
256.00	387.68	71.78	1.70	-0.10	1317.93	66.40
257.00	388.58	71.60	1.70	-0.10	1318.71	66.40
258.00	388.76	71.78	1.70	-0.10	1320.27	66.30
259.00	388.94	72.32	1.70	-0.10	1304.48	66.10
260.00	389.48	71.96	1.70	-0.10	1310.72	66.10
261.00	389.48	72.32	1.70	-0.10	1311.70	66.10
262.00	389.48	69.26	1.70	-0.10	1318.52	66.20
263.00	389.84	71.78	1.70	-0.10	1313.25	66.20
264.00	390.38	71.78	1.70	-0.10	1316.76	66.10
265.00	390.38	71.78	1.70	-0.10	1312.67	66.20
266.00	391.10	71.78	1.70	-0.10	1329.63	66.20
267.00	390.92	71.60	1.70	-0.10	1299.61	66.20
268.00	390.74	71.42	1.70	-0.10	1312.28	66.30
269.00	391.10	71.78	1.70	-0.10	1300.00	66.30
270.00	390.92	71.78	1.70	-0.10	1311.11	66.40
271.00	391.46	71.78	1.70	-0.10	1293.96	66.40

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
272.00	391.64	71.78	1.70	-0.10	1309.94	66.50
273.00	392.18	71.60	1.70	-0.10	1300.20	66.50
274.00	392.54	71.78	1.70	-0.10	1311.31	66.50
275.00	392.90	72.14	1.70	-0.10	1298.05	66.50
276.00	393.08	71.96	1.70	-0.10	1301.17	66.50
277.00	393.44	71.60	1.70	-0.10	1296.10	66.50
278.00	393.98	71.78	1.70	-0.10	1328.07	66.50
279.00	394.52	71.96	1.70	-0.10	1306.24	66.60
280.00	394.88	72.14	1.70	-0.10	1305.26	66.60
281.00	395.60	71.78	1.70	-0.10	1298.05	66.60
282.00	396.14	71.96	1.70	-0.10	1297.86	66.60
283.00	396.86	71.96	1.70	-0.10	1286.55	66.60
284.00	397.22	71.78	1.70	-0.10	1281.09	66.70
285.00	399.02	72.14	1.70	-0.10	1290.06	66.60
286.00	399.20	72.14	1.70	-0.10	1296.49	66.60
287.00	399.20	72.14	1.70	-0.10	1331.77	66.60
288.00	400.10	71.78	1.70	-0.10	1320.08	66.70
289.00	400.10	71.96	1.70	-0.10	1333.33	66.70
290.00	400.46	71.96	1.70	-0.10	1318.71	66.70
291.00	400.10	71.78	1.70	-0.10	1330.99	66.80
292.00	400.64	71.78	1.70	-0.10	1323.20	66.80
293.00	401.18	71.60	1.70	-0.10	1358.48	66.90
294.00	406.22	72.14	1.70	-0.10	1320.08	66.90
295.00	402.08	71.78	1.70	-0.10	1341.32	66.80
296.00	401.36	71.78	1.70	-0.10	1300.59	66.70
297.00	401.54	71.78	1.70	-0.10	1332.75	66.60
298.00	401.72	72.32	1.70	-0.10	1316.96	66.60
299.00	401.36	71.96	1.70	-0.10	1340.35	66.70
300.00	405.50	71.60	1.70	-0.10	1335.48	66.60
301.00	403.16	72.14	1.70	-0.10	1327.29	66.70
302.00	403.52	72.14	1.70	-0.10	1312.67	66.70
303.00	403.52	72.14	1.70	-0.10	1317.54	66.80
304.00	404.42	71.78	1.70	-0.10	1303.70	66.80
305.00	404.42	71.96	1.70	-0.10	1315.40	66.80
306.00	404.60	72.14	1.80	-0.10	1298.44	66.80
307.00	404.96	71.78	1.70	-0.10	1325.34	66.70
308.00	404.96	72.32	1.70	-0.10	1292.40	66.70
309.00	405.14	72.14	1.80	-0.10	1297.08	66.70
310.00	405.50	72.14	1.70	-0.10	1278.17	66.60
311.00	406.04	72.32	1.70	-0.10	1289.08	66.70
312.00	406.22	72.14	1.80	-0.10	1297.86	66.80
313.00	406.40	70.52	1.70	-0.10	1318.32	66.90
314.00	407.30	71.78	1.80	-0.10	1334.11	66.90
315.00	406.94	72.32	1.70	-0.10	1322.81	67.00
316.00	408.02	72.14	1.80	-0.10	1355.36	67.00
317.00	407.84	71.60	1.80	-0.10	1342.69	67.00
318.00	408.92	72.14	1.80	-0.10	1355.75	66.90
319.00	409.28	71.78	1.80	-0.10	1347.95	66.90
320.00	409.46	72.32	1.80	-0.10	1373.29	66.80
321.00	410.00	71.78	1.80	-0.10	1342.69	66.70
322.00	410.54	72.14	1.80	-0.10	1387.71	66.50
323.00	410.90	71.96	1.80	-0.10	1350.68	66.50
324.00	411.08	71.60	1.80	-0.10	1386.54	66.40
325.00	411.26	71.78	1.80	-0.10	1354.19	66.50
326.00	411.98	74.30	1.80	-0.10	1377.58	66.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	411.80	72.14	1.80	-0.10	1362.57	66.60
328.00	412.34	72.14	1.80	-0.10	1380.11	66.60
329.00	412.34	72.14	1.80	-0.10	1363.35	66.50
330.00	412.70	72.14	1.80	-0.10	1384.60	66.60
331.00	412.88	71.96	1.80	-0.10	1395.90	66.50
332.00	413.60	72.14	1.80	-0.10	1389.66	66.60
333.00	413.42	72.14	1.80	-0.10	1378.94	66.60
334.00	413.96	72.32	1.80	-0.10	1380.50	66.60
335.00	413.96	72.14	1.80	-0.10	1384.01	66.50
336.00	413.96	72.14	1.80	-0.10	1383.23	66.60
337.00	414.32	72.14	1.80	-0.10	1410.13	66.60
338.00	414.68	71.78	1.80	-0.10	1393.37	66.60
339.00	409.82	72.14	1.80	-0.10	1402.33	66.60
340.00	414.32	71.96	1.80	-0.10	1376.80	66.60
341.00	413.96	72.14	1.80	-0.10	1394.73	66.60
342.00	414.68	72.14	1.80	-0.10	1368.22	66.60
343.00	414.14	71.78	1.80	-0.10	1402.33	66.60
344.00	414.68	72.32	1.80	-0.10	1383.43	66.60
345.00	415.04	71.96	1.80	-0.10	1396.29	66.50
346.00	415.58	72.14	1.80	-0.10	1365.69	66.50
347.00	415.58	71.96	1.80	-0.10	1386.93	66.50
348.00	415.58	72.14	1.80	-0.10	1389.08	66.60
349.00	416.48	72.32	1.80	-0.10	1390.64	66.60
350.00	415.94	72.14	1.80	-0.10	1397.65	66.70
351.00	417.02	72.14	1.80	-0.10	1379.14	66.70
352.00	417.38	71.96	1.80	-0.10	1396.49	66.80
353.00	418.10	72.14	1.80	-0.10	1373.29	66.80
354.00	418.10	72.14	1.80	-0.10	1401.75	66.80
355.00	417.92	72.14	1.80	-0.10	1376.60	66.70
356.00	418.10	71.78	1.80	-0.10	1402.14	66.70
357.00	418.82	72.14	1.80	-0.10	1383.23	66.70
358.00	418.82	72.50	1.80	-0.10	1408.38	66.70
359.00	418.82	72.14	1.80	-0.10	1371.34	66.60
360.00	419.36	72.50	1.80	-0.10	1400.97	66.60
361.00	419.90	72.50	1.80	-0.10	1381.28	66.60
362.00	420.44	72.68	1.80	-0.10	1384.40	66.60
363.00	420.62	72.68	1.80	-0.10	1376.80	66.60
364.00	420.62	72.68	1.80	-0.10	1373.29	66.60
365.00	420.44	72.32	1.80	-0.10	1383.04	66.60
366.00	421.16	71.96	1.80	-0.10	1369.78	66.50
367.00	421.52	72.14	1.80	-0.10	1372.51	66.50
368.00	422.42	72.14	1.80	-0.10	1366.66	66.50
369.00	422.24	71.96	1.80	-0.10	1358.67	66.50
370.00	422.96	72.14	1.80	-0.10	1336.26	66.60
371.00	422.96	73.04	1.80	-0.10	1345.81	66.60
372.00	423.32	72.14	1.80	-0.10	1333.33	66.70
373.00	423.32	71.60	1.80	-0.10	1341.91	66.70
374.00	423.86	71.78	1.80	-0.10	1321.44	66.70
375.00	424.40	72.14	1.80	-0.10	1333.72	66.70
376.00	424.40	71.78	1.80	-0.10	1323.78	66.80
377.00	424.58	72.50	1.80	-0.10	1332.75	66.90
378.00	424.58	71.96	1.80	-0.10	1318.13	66.90
379.00	425.12	72.32	1.80	-0.10	1320.66	66.90
380.00	425.30	72.14	1.80	-0.10	1305.46	66.90
381.00	425.12	72.32	1.80	-0.10	1305.07	66.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
382.00	426.02	72.14	1.80	-0.10	1292.79	66.90
383.00	426.02	72.32	1.80	-0.10	1284.99	66.80
384.00	427.10	72.32	1.80	-0.10	1307.21	66.80
385.00	426.92	72.14	1.80	-0.10	1326.70	66.80
386.00	426.92	72.32	1.80	-0.10	1346.78	66.70
387.00	427.46	72.32	1.80	-0.10	1353.02	66.70
388.00	427.82	72.50	1.80	-0.10	1372.32	66.80
389.00	428.00	72.14	1.80	-0.10	1351.46	66.80
390.00	425.30	72.14	1.80	-0.10	1391.03	66.60
391.00	428.36	72.32	1.80	-0.10	1347.95	66.60
392.00	427.82	72.50	1.80	-0.10	1359.65	66.50
393.00	428.00	72.50	1.80	-0.10	1344.83	66.50
394.00	428.18	71.78	1.80	-0.10	1375.63	66.40
395.00	428.54	72.32	1.80	-0.10	1358.48	66.30
396.00	428.54	72.32	1.80	-0.10	1388.69	66.30
397.00	430.70	72.14	1.80	-0.10	1341.52	66.30
398.00	429.44	72.32	1.80	-0.10	1356.92	66.20
399.00	429.26	72.14	1.80	-0.10	1350.29	66.20
400.00	429.08	72.32	1.80	-0.10	1359.06	66.30
401.00	429.44	72.14	1.80	-0.10	1355.16	66.50
402.00	428.72	72.32	1.80	-0.10	1375.82	66.60
403.00	435.92	72.14	1.80	-0.10	1368.22	66.60
404.00	430.34	71.78	1.80	-0.10	1362.96	66.50
405.00	430.52	72.32	1.80	-0.10	1357.70	66.40
406.00	430.52	71.96	1.80	-0.10	1351.65	66.40
407.00	430.70	72.14	1.80	-0.10	1347.95	66.40
408.00	431.60	72.14	1.80	-0.10	1348.92	66.50
409.00	431.60	72.32	1.80	-0.10	1367.83	66.50
410.00	432.14	72.14	1.80	-0.10	1345.22	66.50
411.00	431.60	72.14	1.80	-0.10	1357.11	66.40
412.00	431.96	72.32	1.80	-0.10	1330.02	66.40
413.00	432.14	72.32	1.80	-0.10	1346.59	66.50
414.00	432.86	72.68	1.80	-0.10	1336.45	66.60
415.00	433.04	72.50	1.80	-0.10	1344.83	66.60
416.00	433.04	69.26	1.80	-0.10	1315.59	66.70
417.00	432.86	72.32	1.80	-0.10	1320.66	66.70
418.00	433.04	71.96	1.80	-0.10	1299.22	66.70
419.00	433.58	72.14	1.80	-0.10	1321.44	66.60
420.00	433.40	71.42	1.80	-0.10	1316.37	66.60
421.00	433.94	71.96	1.80	-0.10	1323.00	66.70
422.00	434.48	71.42	1.80	-0.10	1322.03	66.80
423.00	434.48	71.78	1.80	-0.10	1321.64	66.70
424.00	434.84	72.32	1.80	-0.10	1293.18	66.70
425.00	434.30	71.96	1.80	-0.10	1321.64	66.80
426.00	435.38	72.14	1.80	-0.10	1359.26	66.80
427.00	435.74	71.78	1.80	-0.10	1353.80	66.80
428.00	435.56	72.14	1.80	-0.10	1362.96	66.80
429.00	435.56	72.68	1.80	-0.10	1343.27	66.80
430.00	435.74	72.32	1.80	-0.10	1355.16	66.80
431.00	436.82	72.14	1.80	-0.10	1342.88	66.80
432.00	436.28	72.14	1.80	-0.10	1358.67	66.90
433.00	436.82	72.14	1.80	-0.10	1344.44	67.00
434.00	437.00	72.14	1.80	-0.10	1360.81	66.90
435.00	437.36	72.14	1.80	-0.10	1337.62	66.90
436.00	437.54	71.96	1.80	-0.10	1352.43	66.90

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
437.00	437.54	71.96	1.80	-0.10	1359.06	66.90
438.00	438.08	72.14	1.80	-0.10	1363.74	66.90
439.00	438.08	71.96	1.80	-0.10	1363.54	66.90
440.00	438.62	71.96	1.80	-0.10	1369.39	66.90
441.00	439.16	71.78	1.80	-0.10	1373.48	66.90
442.00	437.00	72.32	1.80	-0.10	1346.00	66.90
443.00	438.98	71.96	1.80	-0.10	1359.65	67.00
444.00	438.62	71.96	1.80	-0.10	1344.25	67.00
445.00	439.52	72.68	1.80	-0.10	1358.48	67.00
446.00	439.34	72.32	1.80	-0.10	1354.97	67.00
447.00	439.34	72.32	1.80	-0.10	1377.97	66.90
448.00	442.04	72.32	1.80	-0.10	1355.36	67.00
449.00	440.06	71.96	1.80	-0.10	1359.26	67.00
450.00	440.78	72.32	1.80	-0.10	1356.53	66.90
451.00	440.78	72.14	1.80	-0.10	1356.33	66.80
452.00	441.32	72.50	1.80	-0.10	1353.41	66.80
453.00	440.96	72.32	1.80	-0.10	1365.30	66.80
454.00	442.58	72.68	1.80	-0.10	1357.11	66.80
455.00	442.40	72.32	1.80	-0.10	1356.33	66.70
456.00	442.40	72.32	1.80	-0.10	1348.15	66.60
457.00	442.76	72.50	1.80	-0.10	1338.98	66.70
458.00	442.76	72.32	1.80	-0.10	1332.55	66.80
459.00	443.30	72.68	1.80	-0.10	1323.59	66.90
460.00	443.48	72.14	1.80	-0.10	1321.25	66.90
461.00	443.48	72.50	1.80	-0.10	1307.80	66.90
462.00	443.84	72.14	1.80	-0.10	1322.22	66.90
463.00	443.84	72.68	1.80	-0.10	1300.20	66.90
464.00	444.56	72.68	1.80	-0.10	1317.15	66.90
465.00	444.56	72.68	1.80	-0.10	1292.40	66.80
466.00	444.74	72.68	1.80	-0.10	1343.27	66.90
467.00	445.10	71.60	1.80	-0.10	1334.50	66.90
468.00	444.92	72.32	1.80	-0.10	1371.54	66.90
469.00	445.64	72.50	1.80	-0.10	1355.36	66.90
470.00	445.10	72.68	1.80	-0.10	1342.88	66.80
471.00	445.64	72.14	1.80	-0.10	1342.49	66.70
472.00	445.64	71.96	1.80	-0.10	1345.42	66.70
473.00	446.18	72.14	1.80	-0.10	1353.41	66.80
474.00	446.18	73.04	1.80	-0.10	1355.55	66.70
475.00	446.36	72.32	1.80	-0.10	1356.92	66.60
476.00	446.36	72.14	1.80	-0.10	1337.62	66.60
477.00	446.90	72.50	1.80	-0.10	1356.92	66.60
478.00	446.72	71.96	1.80	-0.10	1338.79	66.70
479.00	447.08	71.96	1.80	-0.10	1347.76	66.60
480.00	447.08	74.48	1.80	-0.10	1320.66	66.50
481.00	446.90	72.14	1.80	-0.10	1342.49	66.50
482.00	446.90	72.32	1.80	-0.10	1334.89	66.60
483.00	447.44	72.14	1.80	-0.10	1353.99	66.60
484.00	446.90	72.32	1.80	-0.10	1349.70	66.50
485.00	447.80	72.32	1.80	-0.10	1366.66	66.50
486.00	447.62	72.32	1.80	-0.10	1352.04	66.60
487.00	447.98	72.32	1.80	-0.10	1353.21	66.70
488.00	447.98	72.14	1.80	-0.10	1343.08	66.60
489.00	447.80	72.68	1.80	-0.10	1341.32	66.50
490.00	448.16	72.32	1.80	-0.10	1330.80	66.60
491.00	448.16	72.68	1.80	-0.10	1339.76	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
492.00	449.42	72.32	1.80	-0.10	1348.54	66.70
493.00	444.20	72.14	1.80	-0.10	1335.09	66.70
494.00	448.16	72.32	1.80	-0.10	1329.43	66.70
495.00	447.98	72.50	1.80	-0.10	1319.10	66.70
496.00	447.98	72.68	1.80	-0.10	1340.74	66.70
497.00	447.80	71.78	1.80	-0.10	1329.82	66.70
498.00	447.26	72.68	1.80	-0.10	1372.32	66.60
499.00	449.06	72.68	1.80	-0.10	1324.95	66.60
500.00	448.34	72.32	1.80	-0.10	1350.68	66.60
501.00	448.70	72.32	1.80	-0.10	1313.45	66.70
502.00	448.16	72.14	1.80	-0.10	1340.93	66.70
503.00	448.34	72.68	1.80	-0.10	1305.07	66.70
504.00	448.16	72.50	1.80	-0.10	1342.69	66.50
505.00	448.34	72.68	1.80	-0.10	1329.24	66.60
506.00	448.88	72.14	1.80	-0.10	1329.43	66.60
507.00	448.52	72.32	1.80	-0.10	1314.42	66.60
508.00	449.06	72.68	1.80	-0.10	1334.89	66.50
509.00	449.06	72.32	1.80	-0.10	1335.67	66.50
510.00	449.06	72.50	1.80	-0.10	1342.30	66.60
511.00	448.52	72.14	1.80	-0.10	1329.43	66.60
512.00	448.16	72.50	1.80	-0.10	1327.68	66.70
513.00	449.24	72.32	1.80	-0.10	1333.33	66.60
514.00	448.52	72.32	1.80	-0.10	1329.43	66.70
515.00	448.88	72.50	1.80	-0.10	1324.17	66.80
516.00	449.24	72.50	1.80	-0.10	1321.25	66.70
517.00	449.42	72.86	1.80	-0.10	1320.66	66.70
518.00	449.42	72.68	1.80	-0.10	1303.51	66.80
519.00	449.60	72.32	1.80	-0.10	1309.36	66.70
520.00	449.60	72.50	1.80	-0.10	1281.87	66.60
521.00	449.60	72.14	1.80	-0.10	1355.16	66.50
522.00	449.78	72.32	1.80	-0.10	1359.84	66.60
523.00	450.32	72.14	1.80	-0.10	1379.33	66.60
524.00	450.14	72.32	1.80	-0.10	1376.60	66.60
525.00	450.14	72.86	1.80	-0.10	1400.58	66.60
526.00	449.60	72.14	1.80	-0.10	1395.90	66.60
527.00	450.32	72.68	1.80	-0.10	1420.66	66.60
528.00	450.32	72.32	1.80	-0.10	1422.60	66.70
529.00	450.32	72.68	1.80	-0.10	1429.82	66.70
530.00	450.68	72.14	1.80	-0.10	1429.04	66.60
531.00	450.68	73.22	1.80	-0.10	1428.84	66.50
532.00	450.50	72.50	1.80	-0.10	1431.18	66.60
533.00	450.68	72.50	1.80	-0.10	1435.86	66.50
534.00	450.32	72.32	1.80	-0.10	1456.52	66.40
535.00	450.86	72.32	1.80	-0.10	1441.90	66.50
536.00	451.22	72.68	1.80	-0.10	1462.56	66.50
537.00	451.40	72.68	1.80	-0.10	1448.53	66.50
538.00	451.22	72.14	1.80	-0.10	1466.27	66.50
539.00	451.22	71.96	1.80	-0.10	1454.18	66.50
540.00	451.40	72.32	1.80	-0.10	1463.54	66.60
541.00	451.58	72.32	1.80	-0.10	1453.60	66.60
542.00	451.58	72.32	1.80	-0.10	1452.23	66.70
543.00	452.30	72.32	1.80	-0.10	1453.99	66.70
544.00	450.68	72.32	1.80	-0.10	1459.25	66.70
545.00	451.76	72.32	1.80	-0.10	1440.15	66.70
546.00	452.30	72.32	1.80	-0.10	1447.16	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
547.00	451.94	72.32	1.80	-0.10	1441.12	66.70
548.00	452.30	72.32	1.80	-0.10	1449.50	66.60
549.00	452.30	72.32	1.80	-0.10	1461.20	66.50
550.00	451.94	72.32	1.80	-0.10	1477.38	66.40
551.00	454.28	72.50	1.80	-0.10	1450.28	66.40
552.00	452.84	72.50	1.80	-0.10	1450.87	66.40
553.00	453.20	72.32	1.80	-0.10	1459.44	66.40
554.00	452.84	72.32	1.80	-0.10	1442.49	66.30
555.00	452.30	72.32	1.80	-0.10	1477.18	66.30
556.00	452.48	72.32	1.80	-0.10	1445.99	66.30
557.00	459.14	72.68	1.80	-0.10	1450.87	66.40
558.00	453.56	72.32	1.80	-0.10	1420.85	66.40
559.00	453.92	72.32	1.80	-0.10	1440.73	66.50
560.00	453.74	72.32	1.80	-0.10	1425.72	66.50
561.00	454.28	71.78	1.80	-0.10	1434.69	66.40
562.00	454.10	72.68	1.80	-0.10	1429.43	66.40
563.00	454.82	72.32	1.80	-0.10	1422.02	66.40
564.00	454.28	72.68	1.80	-0.10	1407.60	66.30
565.00	455.00	72.68	1.80	-0.10	1387.71	66.30
566.00	454.46	72.50	1.80	-0.10	1395.12	66.40
567.00	455.00	72.68	1.80	-0.10	1381.28	66.40
568.00	455.00	72.68	1.80	-0.10	1394.34	66.40
569.00	455.36	73.22	1.80	-0.10	1367.05	66.50
570.00	455.90	69.80	1.80	-0.10	1396.29	66.50
571.00	455.36	72.50	1.80	-0.10	1367.44	66.50
572.00	455.90	72.50	1.80	-0.10	1390.64	66.50
573.00	456.08	72.32	1.80	-0.10	1387.71	66.60
574.00	456.08	72.32	1.80	-0.10	1388.69	66.60
575.00	455.72	72.14	1.80	-0.10	1384.60	66.60
576.00	456.26	72.14	1.80	-0.10	1414.61	66.60
577.00	456.44	72.50	1.80	-0.10	1414.81	66.70
578.00	456.44	72.32	1.80	-0.10	1417.34	66.70
579.00	456.98	72.68	1.80	-0.10	1418.12	66.70
580.00	456.62	72.32	1.80	-0.10	1429.62	66.70
581.00	457.34	72.32	1.80	-0.10	1435.47	66.80
582.00	457.16	72.14	1.80	-0.10	1419.10	66.80
583.00	457.34	73.04	1.80	-0.10	1438.59	66.90
584.00	457.70	72.68	1.80	-0.10	1399.02	66.90
585.00	457.52	72.68	1.80	-0.10	1439.95	66.90
586.00	457.70	72.68	1.80	-0.10	1416.76	66.90
587.00	458.06	72.32	1.80	-0.10	1415.78	66.90
588.00	458.06	72.68	1.80	-0.10	1412.47	67.00
589.00	458.60	72.32	1.80	-0.10	1416.17	67.00
590.00	458.24	72.86	1.80	-0.10	1408.77	66.90
591.00	458.96	72.68	1.80	-0.10	1419.88	66.90
592.00	458.60	72.86	1.80	-0.10	1422.41	66.90
593.00	459.50	73.22	1.80	-0.10	1422.21	66.80
594.00	459.14	72.32	1.80	-0.10	1418.51	66.80
595.00	459.68	72.68	1.80	-0.10	1404.09	66.80
596.00	459.32	72.50	1.80	-0.10	1409.54	66.70
597.00	459.14	72.86	1.80	-0.10	1377.77	66.70
598.00	459.50	72.86	1.80	-0.10	1400.58	66.60
599.00	459.32	72.50	1.80	-0.10	1397.65	66.60
600.00	459.32	72.68	1.80	-0.10	1408.57	66.70
601.00	459.14	72.68	1.80	-0.10	1419.49	66.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
602.00	464.54	72.68	1.80	-0.10	1396.88	66.80
603.00	460.04	72.50	1.80	-0.10	1386.93	66.80
604.00	459.86	72.86	1.80	-0.10	1376.02	66.80
605.00	459.86	72.50	1.80	-0.10	1360.43	66.90
606.00	460.04	73.04	1.80	-0.10	1366.08	66.90
607.00	460.22	72.68	1.80	-0.10	1374.65	66.80
608.00	464.72	72.50	1.80	-0.10	1371.73	66.80
609.00	460.94	72.68	1.80	-0.10	1365.30	66.80
610.00	460.94	72.68	1.80	-0.10	1344.44	66.80
611.00	461.12	72.86	1.80	-0.10	1370.56	66.90
612.00	461.30	72.50	1.80	-0.10	1346.98	66.90
613.00	461.48	72.86	1.80	-0.10	1362.37	67.00
614.00	461.66	72.68	1.80	-0.10	1339.18	67.00
615.00	461.84	72.68	1.80	-0.10	1369.98	67.00
616.00	462.20	72.86	1.80	-0.10	1349.31	67.00
617.00	461.84	73.04	1.80	-0.10	1352.43	66.90
618.00	462.38	73.22	1.80	-0.10	1353.21	66.90
619.00	462.20	72.86	1.80	-0.10	1354.58	66.90
620.00	462.74	73.40	1.80	-0.10	1350.09	66.90
621.00	463.10	69.80	1.80	-0.10	1354.77	66.90
622.00	462.92	72.68	1.80	-0.10	1361.98	66.90
623.00	462.92	72.86	1.80	-0.10	1337.23	66.90
624.00	463.10	72.68	1.80	-0.10	1350.48	66.90
625.00	463.28	72.50	1.80	-0.10	1337.23	66.90
626.00	463.28	72.68	1.80	-0.10	1353.99	66.90
627.00	463.46	72.32	1.80	-0.10	1339.37	66.90
628.00	463.46	72.32	1.80	-0.10	1354.38	66.90
629.00	463.82	72.86	1.80	-0.10	1342.49	66.90
630.00	464.00	72.86	1.80	-0.10	1355.55	66.90
631.00	464.00	73.04	1.80	-0.10	1340.54	67.00
632.00	464.54	72.68	1.80	-0.10	1359.06	67.00
633.00	464.72	72.32	1.80	-0.10	1347.56	67.00
634.00	464.54	73.22	1.80	-0.10	1350.68	67.00
635.00	465.08	72.86	1.80	-0.10	1344.64	66.90
636.00	465.26	72.86	1.80	-0.10	1348.92	67.00
637.00	465.62	72.86	1.80	-0.10	1346.59	66.90
638.00	465.44	72.68	1.80	-0.10	1351.07	66.90
639.00	465.62	72.86	1.80	-0.10	1348.73	67.00
640.00	465.98	72.68	1.80	-0.10	1346.78	66.90
641.00	465.80	73.22	1.80	-0.10	1348.34	67.00
642.00	466.16	72.68	1.80	-0.10	1332.94	67.00
643.00	466.16	72.86	1.80	-0.10	1351.85	67.00
644.00	466.52	73.04	1.80	-0.10	1335.28	67.00
645.00	466.70	73.22	1.80	-0.10	1341.71	67.00
646.00	466.34	73.22	1.80	-0.10	1323.59	67.00
647.00	466.52	72.86	1.80	-0.10	1325.34	67.00
648.00	466.16	72.86	1.80	-0.10	1308.38	66.90
649.00	466.70	72.68	1.80	-0.10	1323.00	66.90
650.00	466.16	72.86	1.80	-0.10	1310.33	66.90
651.00	466.70	73.04	1.80	-0.10	1351.46	66.90
652.00	466.70	72.86	1.80	-0.10	1384.60	66.90
653.00	471.74	73.04	1.80	-0.10	1387.91	66.90
654.00	467.24	72.86	1.80	-0.10	1387.91	67.00
655.00	467.24	72.86	1.80	-0.10	1397.07	67.00
656.00	467.60	72.86	1.80	-0.10	1403.50	66.90

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
657.00	467.06	73.22	1.80	-0.10	1408.77	66.90
658.00	467.60	72.86	1.80	-0.10	1423.19	66.80
659.00	472.28	72.86	1.80	-0.10	1402.92	66.80
660.00	468.68	73.04	1.80	-0.10	1398.82	66.80
661.00	468.32	72.68	1.80	-0.10	1395.51	66.70
662.00	469.04	73.04	1.80	-0.10	1404.28	66.70
663.00	468.86	72.68	1.80	-0.10	1383.43	66.60
664.00	468.86	73.04	1.80	-0.10	1394.15	66.60
665.00	469.58	73.04	1.80	-0.10	1370.17	66.60
666.00	469.22	73.04	1.80	-0.10	1379.33	66.40
667.00	469.94	73.22	1.80	-0.10	1349.90	66.40
668.00	470.12	72.86	1.80	-0.10	1360.62	66.30
669.00	469.94	72.86	1.80	-0.10	1338.40	66.40
670.00	469.76	72.86	1.80	-0.10	1339.96	66.40
671.00	469.94	73.40	1.80	-0.10	1339.37	66.40
672.00	470.48	70.16	1.80	-0.10	1343.86	66.40
673.00	470.30	73.04	1.80	-0.10	1337.42	66.50
674.00	471.02	72.86	1.80	-0.10	1346.59	66.40
675.00	470.84	72.68	1.80	-0.10	1344.05	66.40
676.00	470.48	72.86	1.80	-0.10	1341.32	66.30
677.00	470.84	72.68	1.80	-0.10	1330.02	66.30
678.00	471.20	72.86	1.80	-0.10	1328.46	66.40
679.00	471.38	72.86	1.80	-0.10	1326.31	66.50
680.00	471.02	73.04	1.80	-0.10	1308.97	66.50
681.00	471.56	72.86	1.80	-0.10	1316.37	66.60
682.00	471.92	72.86	1.80	-0.10	1298.25	66.60
683.00	472.28	72.86	1.80	-0.10	1314.62	66.60
684.00	471.92	72.86	1.80	-0.10	1313.06	66.60
685.00	472.10	73.22	1.80	-0.10	1338.59	66.60
686.00	472.28	72.86	1.80	-0.10	1341.13	66.50
687.00	472.28	73.22	1.80	-0.10	1356.33	66.50
688.00	472.82	72.86	1.80	-0.10	1352.63	66.60
689.00	472.28	72.86	1.80	-0.10	1356.33	66.60
690.00	473.00	73.22	1.80	-0.10	1359.84	66.60
691.00	473.36	72.86	1.80	-0.10	1367.25	66.60
692.00	473.36	73.04	1.80	-0.10	1367.64	66.70
693.00	473.54	72.86	1.80	-0.10	1359.65	66.70
694.00	473.54	73.22	1.80	-0.10	1372.32	66.80
695.00	473.90	73.04	1.80	-0.10	1365.69	66.80
696.00	473.90	73.04	1.80	-0.10	1381.28	66.90
697.00	473.90	73.22	1.80	-0.10	1377.77	66.90
698.00	473.54	73.04	1.80	-0.10	1370.17	66.80
699.00	473.72	73.22	1.80	-0.10	1351.26	66.70
700.00	473.54	73.04	1.80	-0.10	1367.44	66.70
701.00	473.54	73.22	1.80	-0.10	1356.33	66.70
702.00	473.72	72.86	1.80	-0.10	1377.19	66.80
703.00	473.36	73.04	1.80	-0.10	1385.37	66.80
704.00	477.68	73.22	1.80	-0.10	1365.10	66.90
705.00	474.08	73.22	1.80	-0.10	1357.70	66.70
706.00	474.80	73.04	1.80	-0.10	1369.78	66.70
707.00	475.16	72.86	1.80	-0.10	1361.20	66.70
708.00	474.62	73.40	1.80	-0.10	1367.25	66.70
709.00	474.98	73.04	1.80	-0.10	1379.92	66.80
710.00	480.92	73.40	1.80	-0.10	1365.30	66.80
711.00	476.06	73.22	1.80	-0.10	1365.30	66.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
712.00	476.06	73.22	1.80	-0.10	1352.43	66.80
713.00	476.06	73.04	1.80	-0.10	1364.52	66.90
714.00	475.88	72.86	1.80	-0.10	1346.98	66.90
715.00	476.06	73.40	1.80	-0.10	1360.81	67.00
716.00	476.06	73.22	1.80	-0.10	1338.98	67.00
717.00	476.24	73.40	1.80	-0.10	1357.50	67.00
718.00	476.24	73.40	1.80	-0.10	1331.97	66.90
719.00	476.42	73.40	1.80	-0.10	1353.41	67.00
720.00	476.60	73.22	1.80	-0.10	1339.18	67.00
721.00	476.60	73.40	1.80	-0.10	1350.87	67.10
722.00	477.14	73.76	1.80	-0.10	1332.55	67.00
723.00	477.14	71.06	1.80	-0.10	1348.54	67.00
724.00	476.96	73.40	1.80	-0.10	1331.38	67.00
725.00	477.50	73.22	1.80	-0.10	1342.88	67.00
726.00	477.14	73.22	1.80	-0.10	1326.12	67.00
727.00	477.50	72.86	1.80	-0.10	1339.37	67.00
728.00	477.14	73.40	1.80	-0.10	1335.67	66.90
729.00	477.86	73.40	1.80	-0.10	1344.05	66.90
730.00	477.86	73.04	1.80	-0.10	1339.76	66.90
731.00	478.04	73.40	1.80	-0.10	1309.55	67.00
732.00	478.22	73.04	1.80	-0.10	1316.57	67.10
733.00	478.22	73.40	1.80	-0.10	1292.79	67.00
734.00	478.40	72.86	1.80	-0.10	1305.65	67.00
735.00	478.40	73.94	1.80	-0.10	1289.86	66.90
736.00	479.12	73.58	1.80	-0.10	1313.45	66.90
737.00	478.76	73.22	1.80	-0.10	1293.37	66.90
738.00	479.12	73.22	1.80	-0.10	1307.41	66.80
739.00	479.30	73.22	1.80	-0.10	1281.09	66.70
740.00	479.30	73.58	1.80	-0.10	1301.36	66.60
741.00	479.30	73.04	1.80	-0.10	1272.52	66.60
742.00	480.02	73.58	1.80	-0.10	1305.46	66.70
743.00	480.20	73.22	1.80	-0.10	1288.31	66.70
744.00	480.02	73.40	1.80	-0.10	1312.48	66.70
745.00	480.56	73.40	1.80	-0.10	1308.38	66.60
746.00	480.56	73.40	1.80	-0.10	1364.71	66.70
747.00	481.10	73.40	1.80	-0.10	1392.59	66.80
748.00	477.68	73.40	1.80	-0.10	1419.49	66.90
749.00	480.56	73.58	1.80	-0.10	1405.84	67.00
750.00	480.74	73.22	1.80	-0.10	1404.87	66.90
751.00	480.56	73.40	1.80	-0.10	1409.54	66.90
752.00	481.10	73.04	1.80	-0.10	1424.16	66.80
753.00	480.74	73.40	1.80	-0.10	1445.99	66.80
754.00	481.10	73.58	1.80	-0.10	1444.05	66.80
755.00	481.28	73.22	1.80	-0.10	1422.21	66.80
756.00	481.82	73.76	1.80	-0.10	1403.70	66.90
757.00	481.46	73.22	1.80	-0.10	1428.45	66.90
758.00	482.00	73.22	1.80	-0.10	1404.28	67.10
759.00	481.82	73.40	1.80	-0.10	1344.44	67.30
760.00	481.46	73.58	1.50	-0.10	1264.53	67.00
761.00	484.70	73.22	1.50	-0.10	1323.00	67.40
762.00	481.64	73.22	1.50	-0.10	1205.27	68.20
763.00	481.82	73.40	1.50	-0.10	1129.25	68.20
764.00	481.10	73.22	1.50	-0.10	1042.71	67.90
765.00	480.02	73.40	1.30	-0.10	1124.77	67.80
766.00	479.12	73.22	1.10	-0.10	1169.60	67.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
767.00	478.40	73.76	1.00	-0.10	1269.40	67.90
768.00	478.76	73.40	0.80	-0.10	1310.72	67.90
769.00	477.14	73.76	0.50	-0.10	1324.95	67.70
770.00	476.24	73.94	0.40	-0.10	1369.78	67.80
771.00	474.80	73.76	0.10	-0.10	1398.04	67.80
772.00	473.90	73.76	0.00	-0.10	1384.01	67.90
773.00	473.00	73.40	0.00	-0.10	1433.91	67.80
774.00	471.56	73.40	0.00	-0.10	1441.51	67.70
775.00	470.66	73.40	0.00	-0.10	1424.94	67.60
776.00	468.68	73.58	0.00	-0.10	1291.62	67.50
777.00	467.78	73.40	0.00	-0.10	1349.51	67.50
778.00	466.70	73.40	0.00	-0.10	1348.73	68.00

Ignitibility Testing: Drilling into Saltcake, 1 ft3/min flammable, no purge, 3rd run

9/1/94

File Name: Run11_4d

Time(Sec)	Bittemp(F)	PrgTmp(F)	Bdepth(in)	Purge(psi)	Dfrcf(lbs)	Rotat(RPM)
0.00	96.08	73.04	-0.50	0.40	1376.80	67.70
1.00	93.02	73.22	-0.50	0.40	1341.32	67.70
2.00	95.36	72.68	-0.20	0.40	1299.03	67.40
3.00	95.18	72.86	0.20	0.40	1301.95	67.00
4.00	94.28	72.50	0.40	0.40	1308.97	66.60
5.00	96.26	72.32	0.60	0.40	1359.26	66.30
6.00	98.60	72.50	0.80	0.40	1383.23	66.00
7.00	101.84	73.04	0.90	0.40	1410.13	65.80
8.00	105.80	72.68	1.00	0.40	1385.37	65.60
9.00	113.18	72.32	1.10	0.40	1418.12	65.30
10.00	118.22	73.04	1.20	0.40	1422.99	65.30
11.00	123.62	72.50	1.20	0.40	1435.86	65.20
12.00	131.00	73.04	1.20	0.40	1406.43	65.20
13.00	135.68	72.86	1.30	0.40	1367.25	65.10
14.00	140.90	73.04	1.30	0.40	1391.81	65.00
15.00	145.94	73.04	1.40	0.40	1416.56	65.00
16.00	150.62	73.04	1.40	0.40	1395.51	65.20
17.00	156.02	72.68	1.40	0.40	1395.32	65.40
18.00	161.24	73.04	1.40	0.40	1418.90	65.50
19.00	167.72	73.04	1.50	0.40	1423.78	65.50
20.00	174.20	72.68	1.50	0.40	1431.57	65.60
21.00	180.32	72.86	1.50	0.40	1419.49	65.70
22.00	185.54	72.86	1.50	0.40	1426.70	65.70
23.00	192.02	73.22	1.50	0.40	1388.10	65.80
24.00	196.88	73.22	1.50	0.40	1384.79	65.70
25.00	201.74	70.70	1.50	0.40	1363.93	65.60
26.00	205.34	72.68	1.50	0.40	1385.76	65.50
27.00	209.30	73.04	1.60	0.40	1393.17	65.50
28.00	213.98	72.68	1.60	0.40	1413.05	65.60
29.00	217.40	72.68	1.60	0.40	1427.28	65.70
30.00	220.82	72.68	1.60	0.40	1445.60	65.70
31.00	224.24	75.20	1.60	0.40	1430.60	65.70
32.00	227.48	72.68	1.60	0.40	1430.40	65.70
33.00	230.72	73.04	1.60	0.40	1425.92	65.70
34.00	234.14	72.68	1.60	0.40	1423.38	65.70
35.00	236.48	73.04	1.60	0.40	1412.08	65.80
36.00	238.64	72.68	1.60	0.40	1410.32	65.90
37.00	240.62	74.84	1.60	0.40	1412.86	65.90
38.00	242.96	73.04	1.70	0.40	1409.54	65.80
39.00	245.30	73.04	1.70	0.40	1428.65	65.70
40.00	247.64	72.68	1.70	0.40	1408.77	65.80
41.00	249.44	72.50	1.70	0.40	1431.38	65.90
42.00	252.32	72.68	1.70	0.40	1395.90	65.90
43.00	253.94	73.04	1.70	0.40	1418.32	66.00
44.00	256.10	72.86	1.70	0.40	1388.88	66.00
45.00	257.54	72.86	1.70	0.40	1399.21	65.90
46.00	259.52	72.86	1.70	0.40	1369.78	65.90
47.00	261.32	73.40	1.70	0.40	1394.93	65.80
48.00	263.66	72.86	1.70	0.40	1395.71	65.70
49.00	264.02	72.86	1.70	0.40	1418.90	65.80
50.00	266.36	72.68	1.70	0.40	1398.82	65.90
51.00	267.80	72.86	1.70	0.40	1394.73	66.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	269.60	73.04	1.70	0.40	1401.75	66.10
53.00	270.86	72.68	1.70	0.40	1397.26	66.10
54.00	273.20	73.04	1.70	0.40	1417.73	66.10
55.00	273.92	73.22	1.70	0.40	1407.01	66.10
56.00	277.34	73.04	1.70	0.40	1390.83	66.20
57.00	279.32	72.86	1.70	0.40	1373.09	66.20
58.00	281.48	73.04	1.70	0.40	1375.82	66.10
59.00	283.64	73.04	1.70	0.40	1366.86	66.10
60.00	285.62	73.04	1.70	0.40	1379.53	66.10
61.00	289.04	72.86	1.70	0.40	1369.98	66.20
62.00	290.48	73.04	1.70	0.40	1360.23	66.20
63.00	292.10	72.68	1.70	0.40	1343.08	66.20
64.00	293.54	73.04	1.70	0.40	1347.37	66.10
65.00	294.80	72.86	1.70	0.40	1345.22	66.20
66.00	296.24	72.68	1.70	0.40	1351.26	66.20
67.00	297.14	73.04	1.70	0.40	1356.33	66.30
68.00	298.22	73.22	1.70	0.40	1350.68	66.20
69.00	299.30	72.86	1.70	0.40	1353.41	66.20
70.00	299.84	73.04	1.70	0.40	1345.03	66.20
71.00	300.92	73.04	1.70	0.40	1341.71	66.20
72.00	301.46	73.22	1.70	0.40	1333.53	66.20
73.00	302.54	73.04	1.70	0.40	1350.87	66.10
74.00	302.90	71.06	1.70	0.40	1344.64	66.10
75.00	303.62	72.86	1.70	0.40	1365.10	66.10
76.00	304.52	72.68	1.70	0.40	1349.70	66.20
77.00	305.42	72.86	1.70	0.40	1358.09	66.20
78.00	305.78	72.86	1.70	0.40	1342.69	66.10
79.00	306.50	72.86	1.70	0.40	1344.44	66.10
80.00	306.86	74.84	1.70	0.40	1339.37	66.10
81.00	306.86	73.04	1.70	0.40	1342.69	66.20
82.00	306.86	72.68	1.70	0.40	1331.19	66.20
83.00	307.40	72.86	1.70	0.40	1335.09	66.20
84.00	307.40	72.68	1.70	0.40	1330.60	66.20
85.00	307.58	72.68	1.70	0.40	1347.37	66.20
86.00	307.76	74.84	1.70	0.40	1351.26	66.30
87.00	307.58	73.22	1.70	0.40	1338.98	66.30
88.00	308.12	73.04	1.70	0.40	1339.76	66.30
89.00	308.66	73.22	1.70	0.40	1320.27	66.20
90.00	309.02	72.50	1.70	0.40	1345.03	66.20
91.00	309.74	72.68	1.70	0.40	1325.73	66.20
92.00	311.00	73.04	1.70	0.40	1343.86	66.10
93.00	311.00	73.40	1.70	0.40	1315.40	66.00
94.00	311.54	73.04	1.70	0.40	1343.27	66.00
95.00	311.54	73.04	1.70	0.40	1314.62	66.00
96.00	311.90	73.40	1.80	0.40	1352.63	66.10
97.00	312.08	73.04	1.70	0.40	1347.17	66.10
98.00	310.64	73.22	1.80	0.40	1361.20	66.10
99.00	312.08	73.22	1.70	0.40	1338.59	66.00
100.00	312.62	73.04	1.70	0.40	1336.65	66.10
101.00	312.62	73.04	1.70	0.40	1340.35	66.10
102.00	312.80	73.04	1.80	0.40	1346.59	66.00
103.00	312.62	73.04	1.70	0.40	1389.66	66.00
104.00	312.26	73.22	1.80	0.40	1365.10	66.00
105.00	313.70	73.22	1.70	0.40	1364.91	66.00
106.00	313.70	73.40	1.80	-0.10	1338.40	65.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
107.00	314.06	72.86	1.80	0.40	1363.93	65.90
108.00	314.24	73.04	1.80	0.40	1326.12	65.90
109.00	314.42	73.04	1.70	0.40	1364.32	66.00
110.00	317.12	73.04	1.80	0.40	1330.80	66.10
111.00	315.14	73.04	1.80	0.40	1333.33	66.00
112.00	316.04	73.04	1.80	0.40	1320.66	66.00
113.00	316.22	72.86	1.80	0.40	1339.37	66.10
114.00	316.94	73.04	1.80	0.40	1335.09	66.10
115.00	317.12	72.68	1.80	0.40	1343.47	66.00
116.00	317.48	73.22	1.80	0.40	1341.91	66.00
117.00	318.02	73.04	1.80	0.40	1343.08	66.00
118.00	318.20	73.22	1.80	0.40	1334.50	66.00
119.00	318.74	73.22	1.80	0.40	1338.20	66.10
120.00	318.92	73.22	1.80	0.40	1346.98	66.10
121.00	320.36	73.58	1.80	0.40	1351.07	66.10
122.00	320.36	73.58	1.80	0.40	1380.50	66.10
123.00	321.08	72.14	1.80	0.40	1346.98	66.10
124.00	321.26	73.22	1.80	0.40	1365.49	66.10
125.00	322.16	73.22	1.80	0.40	1348.34	66.10
126.00	323.06	73.22	1.80	0.40	1364.32	66.00
127.00	323.24	72.86	1.80	0.40	1339.57	66.00
128.00	323.78	72.86	1.80	0.40	1358.87	65.90
129.00	324.68	74.84	1.80	0.40	1334.31	66.00
130.00	324.86	73.22	1.80	0.40	1363.15	66.00
131.00	325.94	73.40	1.80	0.40	1323.98	65.90
132.00	325.94	73.04	1.80	0.40	1344.25	65.90
133.00	327.02	73.22	1.80	0.40	1322.03	66.00
134.00	327.74	73.22	1.80	0.40	1332.36	66.00
135.00	328.64	73.58	1.80	0.40	1327.87	66.00
136.00	328.64	73.58	1.80	0.40	1322.81	66.00
137.00	330.08	73.22	1.80	0.40	1334.31	65.90
138.00	330.62	73.04	1.80	0.40	1343.27	65.80
139.00	331.16	73.04	1.80	0.40	1352.24	65.80
140.00	331.52	73.40	1.80	0.40	1331.77	65.80
141.00	332.78	73.40	1.80	0.40	1343.47	65.80
142.00	332.96	73.22	1.80	0.40	1327.68	65.80
143.00	334.04	73.58	1.80	0.40	1343.66	65.80
144.00	334.58	73.22	1.80	0.40	1334.89	65.80
145.00	335.66	73.58	1.80	0.40	1343.08	65.90
146.00	336.20	73.22	1.80	0.40	1339.76	66.00
147.00	334.40	73.22	1.80	0.40	1359.65	66.00
148.00	336.74	73.22	1.80	0.40	1340.15	66.00
149.00	337.64	73.58	1.80	0.40	1353.02	65.90
150.00	338.36	73.04	1.80	0.40	1347.76	65.90
151.00	338.54	73.22	1.80	0.40	1368.03	65.80
152.00	339.44	73.22	1.80	0.40	1376.99	65.80
153.00	339.62	73.58	1.80	0.40	1375.04	65.80
154.00	340.70	73.40	1.80	0.40	1354.97	65.80
155.00	341.06	73.58	1.80	0.40	1356.92	65.70
156.00	341.60	73.22	1.80	0.40	1365.49	65.70
157.00	342.32	73.76	1.80	0.40	1361.98	65.80
158.00	342.50	73.22	1.80	0.40	1384.60	65.90
159.00	347.72	73.58	1.80	0.40	1362.76	65.90
160.00	344.30	73.04	1.80	0.40	1373.29	65.90
161.00	344.84	73.22	1.80	0.40	1349.51	65.90

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	346.10	73.22	1.80	0.40	1366.27	65.90
163.00	345.92	73.04	1.80	0.40	1343.08	65.90
164.00	347.36	73.22	1.80	0.40	1347.76	65.90
165.00	347.18	73.22	1.80	0.40	1338.40	65.90
166.00	348.08	73.40	1.80	0.40	1345.61	65.90
167.00	348.62	73.58	1.80	0.40	1336.45	65.80
168.00	349.34	73.58	1.80	0.40	1346.98	65.70
169.00	349.88	73.40	1.80	0.40	1339.37	65.60
170.00	350.60	73.76	1.80	0.40	1336.06	65.60
171.00	351.32	73.40	1.80	0.40	1325.92	65.70
172.00	351.32	72.86	1.80	0.40	1313.84	65.70
173.00	351.32	73.22	1.80	0.40	1322.22	65.80
174.00	352.40	73.58	1.80	0.40	1341.13	65.80
175.00	352.40	73.04	1.80	0.40	1352.24	65.90
176.00	352.76	73.22	1.80	0.40	1351.65	65.90
177.00	352.58	73.04	1.80	0.40	1360.04	65.90
178.00	352.76	73.76	1.80	0.40	1345.03	65.90
179.00	353.30	73.22	1.80	0.40	1361.01	65.90
180.00	353.12	73.22	1.80	0.40	1340.54	65.90
181.00	353.66	73.04	1.80	0.40	1354.19	65.80
182.00	353.84	73.40	1.80	0.40	1338.20	65.90
183.00	354.02	73.22	1.80	0.40	1363.15	65.90
184.00	354.56	73.58	1.80	0.40	1339.96	65.90
185.00	354.74	72.86	1.80	0.40	1351.46	65.90
186.00	354.92	73.58	1.80	0.40	1344.64	66.00
187.00	355.82	73.22	1.80	0.40	1340.15	66.00
188.00	356.00	73.58	1.80	0.40	1328.65	66.00
189.00	356.36	73.40	1.80	0.40	1331.77	65.90
190.00	356.90	73.58	1.80	0.40	1342.69	65.90
191.00	357.44	73.22	1.80	0.40	1343.86	65.90
192.00	357.80	73.58	1.80	0.40	1347.17	65.90
193.00	358.70	73.40	1.80	0.40	1342.10	65.90
194.00	358.70	73.58	1.80	0.40	1364.13	66.00
195.00	359.42	73.22	1.80	0.40	1343.66	65.90
196.00	355.82	73.58	1.80	0.40	1359.06	65.90
197.00	359.96	73.40	1.80	0.40	1332.16	66.00
198.00	360.32	73.40	1.80	0.40	1353.60	66.00
199.00	360.86	73.22	1.80	0.40	1331.58	66.00
200.00	360.86	73.22	1.80	0.40	1357.11	66.10
201.00	361.22	73.40	1.80	0.40	1349.70	66.10
202.00	363.20	73.40	1.80	0.40	1362.96	66.10
203.00	362.84	73.58	1.80	0.40	1320.08	66.10
204.00	362.66	73.22	1.80	0.40	1352.04	66.10
205.00	363.20	73.40	1.80	0.40	1331.38	66.20
206.00	363.56	73.58	1.80	0.40	1345.42	66.20
207.00	363.92	73.76	1.80	0.40	1336.84	66.30
208.00	369.68	73.40	1.80	0.40	1338.59	66.40
209.00	365.36	73.58	1.80	0.40	1326.51	66.40
210.00	366.26	73.58	1.80	0.40	1336.65	66.40
211.00	366.80	73.40	1.80	0.40	1347.37	66.40
212.00	366.98	73.04	1.80	0.40	1340.74	66.40
213.00	367.70	73.40	1.80	0.40	1353.21	66.30
214.00	368.42	73.58	1.80	0.40	1337.81	66.20
215.00	368.42	73.58	1.80	0.40	1353.21	66.10
216.00	368.78	73.40	1.80	0.40	1332.94	66.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
217.00	369.32	73.58	1.80	0.40	1350.68	66.10
218.00	370.04	73.76	1.80	0.40	1331.77	66.10
219.00	370.58	73.94	1.80	0.40	1346.00	66.10
220.00	371.12	73.22	1.80	0.40	1330.60	66.20
221.00	371.30	73.22	1.80	0.40	1345.03	66.10
222.00	372.02	73.58	1.80	0.40	1328.26	66.10
223.00	372.56	73.58	1.80	0.40	1327.29	66.10
224.00	373.28	73.22	1.80	0.40	1319.30	66.10
225.00	373.10	73.40	1.80	-0.10	1316.18	66.20
226.00	374.00	72.86	1.80	0.40	1328.65	66.10
227.00	374.18	73.58	1.80	0.40	1335.28	66.20
228.00	374.90	73.22	1.80	0.40	1330.99	66.10
229.00	374.36	73.58	1.80	0.40	1333.14	66.30
230.00	375.62	73.58	1.80	-0.10	1345.81	66.30
231.00	375.62	73.22	1.80	-0.10	1340.35	66.30
232.00	376.16	73.58	1.80	-0.10	1343.47	66.40
233.00	376.52	73.58	1.80	0.40	1352.04	66.40
234.00	376.70	73.76	1.80	0.40	1356.14	66.40
235.00	376.88	73.40	1.80	-0.10	1356.72	66.40
236.00	377.42	73.58	1.80	0.40	1375.82	66.30
237.00	377.78	73.40	1.80	-0.10	1373.09	66.40
238.00	378.14	73.76	1.80	0.40	1388.30	66.40
239.00	378.68	73.58	1.80	0.40	1370.76	66.40
240.00	378.50	73.58	1.80	-0.10	1403.11	66.30
241.00	379.58	73.58	1.80	-0.10	1373.68	66.20
242.00	379.94	73.76	1.80	-0.10	1406.82	66.20
243.00	380.12	73.58	1.80	-0.10	1389.86	66.30
244.00	381.02	73.58	1.80	-0.10	1423.97	66.20
245.00	377.42	73.58	1.80	-0.10	1383.62	66.30
246.00	381.02	73.58	1.80	-0.10	1385.18	66.30
247.00	381.56	73.58	1.80	0.40	1371.54	66.20
248.00	381.56	73.76	1.80	0.40	1384.21	66.20
249.00	382.10	73.22	1.80	0.40	1393.56	66.20
250.00	382.10	73.58	1.80	0.40	1401.75	66.20
251.00	385.16	73.58	1.80	0.40	1383.23	66.20
252.00	383.00	73.76	1.80	0.40	1365.10	66.20
253.00	383.54	73.76	1.80	-0.10	1375.82	66.30
254.00	383.72	73.40	1.80	0.40	1371.15	66.20
255.00	384.44	74.12	1.80	-0.10	1384.01	66.20
256.00	384.44	73.22	1.80	0.40	1369.78	66.20
257.00	390.38	73.58	1.80	-0.10	1384.79	66.30
258.00	385.34	73.58	1.80	-0.10	1339.76	66.20
259.00	386.06	73.58	1.80	-0.10	1366.86	66.30
260.00	386.24	73.58	1.80	0.40	1338.40	66.30
261.00	386.42	73.40	1.80	-0.10	1360.81	66.40
262.00	387.14	73.58	1.80	0.40	1341.91	66.40
263.00	387.50	73.76	1.80	0.40	1360.62	66.40
264.00	388.04	73.58	1.80	-0.10	1334.31	66.40
265.00	388.40	73.76	1.80	0.40	1338.79	66.30
266.00	388.76	73.58	1.80	0.40	1330.60	66.30
267.00	388.58	73.94	1.80	0.40	1345.22	66.30
268.00	389.48	73.94	1.80	0.40	1337.23	66.30
269.00	389.30	73.76	1.80	0.40	1335.67	66.30
270.00	390.38	73.76	1.80	0.40	1320.66	66.30
271.00	390.02	73.40	1.90	0.40	1331.19	66.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
272.00	390.56	73.76	1.80	0.40	1320.66	66.30
273.00	391.10	73.58	1.90	0.40	1332.75	66.20
274.00	391.46	73.58	1.80	0.40	1338.59	66.00
275.00	391.46	73.04	1.90	0.40	1338.79	65.90
276.00	391.82	74.84	1.80	-0.10	1368.61	65.90
277.00	392.36	73.22	1.90	-0.10	1357.11	65.90
278.00	392.54	73.40	1.80	-0.10	1376.99	66.00
279.00	392.72	73.40	1.90	-0.10	1353.99	66.10
280.00	392.90	73.76	1.90	-0.10	1386.93	66.10
281.00	393.62	73.58	1.90	-0.10	1346.39	66.10
282.00	393.80	73.76	1.90	-0.10	1388.49	66.00
283.00	393.98	73.58	1.90	0.40	1351.46	66.00
284.00	394.16	73.40	1.90	0.40	1377.77	65.90
285.00	394.88	73.76	1.90	0.40	1342.88	65.90
286.00	395.06	73.40	1.90	0.40	1372.12	65.90
287.00	395.96	73.76	1.90	-0.10	1349.70	65.80
288.00	395.96	73.58	1.90	0.40	1362.18	65.80
289.00	396.68	73.76	1.90	-0.10	1342.49	65.80
290.00	396.86	73.40	1.90	-0.10	1353.60	65.70
291.00	397.22	73.76	1.90	0.40	1354.19	65.80
292.00	398.30	73.76	1.90	0.40	1356.92	65.80
293.00	398.48	73.76	1.90	0.40	1367.83	65.80
294.00	397.40	73.58	1.90	0.40	1352.82	65.90
295.00	398.48	73.76	1.90	0.40	1361.59	66.00
296.00	399.20	73.76	1.90	0.40	1330.21	66.00
297.00	399.20	73.76	1.90	-0.10	1365.10	65.90
298.00	399.74	73.22	1.90	0.40	1336.26	65.70
299.00	399.92	73.58	1.90	0.40	1377.58	65.70
300.00	399.74	73.94	1.90	0.40	1359.65	65.70
301.00	401.18	73.58	1.90	-0.10	1353.02	65.70
302.00	401.36	73.58	1.90	0.40	1342.69	65.80
303.00	401.36	73.58	1.90	-0.10	1346.20	65.90
304.00	401.90	74.12	1.90	-0.10	1347.37	66.00
305.00	401.90	73.76	1.90	-0.10	1362.57	66.00
306.00	404.96	74.12	1.90	-0.10	1349.70	66.00
307.00	403.16	73.58	1.90	0.40	1347.56	66.00
308.00	403.88	73.76	1.90	0.40	1342.30	65.90
309.00	403.88	73.76	1.90	-0.10	1337.81	65.90
310.00	404.24	73.76	1.90	0.40	1339.18	65.90
311.00	405.14	73.58	1.90	0.40	1331.97	66.00
312.00	404.96	74.12	1.90	-0.10	1335.48	66.10
313.00	405.14	73.76	1.90	0.40	1307.41	66.20
314.00	405.32	73.76	1.90	-0.10	1327.48	66.30
315.00	406.22	73.76	1.90	-0.10	1327.09	66.30
316.00	406.40	73.94	1.90	-0.10	1347.37	66.40
317.00	406.94	73.76	1.90	0.40	1353.41	66.30
318.00	406.76	74.12	1.90	-0.10	1381.09	66.30
319.00	407.66	71.96	1.90	-0.10	1354.58	66.30
320.00	407.30	73.40	1.90	-0.10	1382.65	66.30
321.00	408.20	73.76	1.90	-0.10	1374.85	66.20
322.00	408.20	73.76	1.90	0.40	1362.96	66.30
323.00	408.74	73.58	1.90	-0.10	1372.71	66.30
324.00	408.74	73.76	1.90	-0.10	1371.73	66.30
325.00	409.46	76.10	1.90	-0.10	1382.65	66.20
326.00	409.28	73.58	1.90	-0.10	1372.90	66.10

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	409.82	73.58	1.90	-0.10	1387.13	66.20
328.00	410.00	73.58	1.90	0.40	1374.65	66.30
329.00	410.72	73.58	1.90	-0.10	1398.82	66.40
330.00	411.26	73.40	1.90	-0.10	1383.82	66.50
331.00	411.26	74.66	1.90	-0.10	1412.66	66.40
332.00	411.44	73.76	1.90	0.40	1389.86	66.30
333.00	411.80	73.76	1.90	0.40	1412.08	66.30
334.00	411.80	73.58	1.90	0.40	1392.20	66.30
335.00	411.62	73.58	1.90	0.40	1415.39	66.40
336.00	412.16	73.76	1.90	-0.10	1421.24	66.30
337.00	412.16	73.76	1.90	-0.10	1416.37	66.30
338.00	412.52	73.76	1.90	-0.10	1419.88	66.30
339.00	412.52	73.58	1.90	0.40	1413.64	66.40
340.00	412.88	73.76	1.90	0.40	1416.37	66.50
341.00	412.70	74.30	1.90	0.40	1411.30	66.60
342.00	413.78	73.94	1.90	0.40	1436.64	66.50
343.00	411.08	73.94	1.90	0.40	1417.73	66.50
344.00	413.24	73.76	1.90	0.40	1430.99	66.50
345.00	413.24	73.76	1.90	0.40	1416.95	66.50
346.00	413.60	73.76	1.90	0.40	1430.40	66.50
347.00	413.42	73.40	1.90	0.40	1430.40	66.50
348.00	414.14	73.58	1.90	0.40	1463.34	66.50
349.00	413.42	73.76	1.90	0.40	1445.60	66.50
350.00	414.86	74.12	1.90	0.40	1429.04	66.50
351.00	415.04	73.76	1.90	0.40	1413.05	66.60
352.00	415.76	73.94	1.90	0.40	1426.70	66.50
353.00	415.58	73.76	1.90	0.40	1417.54	66.40
354.00	415.58	73.76	1.90	0.40	1437.42	66.40
355.00	419.36	73.76	1.90	0.40	1435.66	66.30
356.00	417.38	73.76	1.90	0.40	1429.23	66.30
357.00	417.38	73.58	1.90	0.40	1434.88	66.40
358.00	418.10	73.76	1.90	0.40	1408.18	66.40
359.00	418.46	73.58	1.90	0.40	1435.27	66.30
360.00	418.82	73.94	1.90	0.40	1413.05	66.20
361.00	419.00	73.76	1.90	0.40	1442.49	66.20
362.00	419.36	74.12	1.90	0.40	1405.26	66.30
363.00	419.36	73.76	1.90	0.40	1433.91	66.20
364.00	419.90	73.76	1.90	-0.10	1404.28	66.10
365.00	420.44	73.76	1.90	0.40	1419.88	66.00
366.00	420.62	73.94	1.90	0.40	1422.41	66.00
367.00	421.34	73.94	1.90	0.40	1424.55	66.00
368.00	421.52	73.94	1.90	0.40	1411.69	66.10
369.00	421.52	73.76	1.90	-0.10	1407.40	66.10
370.00	422.06	73.58	1.90	-0.10	1410.71	66.10
371.00	422.42	73.40	1.90	-0.10	1411.69	66.10
372.00	422.24	73.58	1.90	-0.10	1412.86	66.20
373.00	422.78	73.22	1.90	0.40	1399.99	66.30
374.00	422.78	74.12	1.90	-0.10	1408.38	66.30
375.00	423.14	73.58	1.90	-0.10	1399.99	66.10
376.00	423.32	73.58	1.90	-0.10	1418.32	66.10
377.00	423.32	73.58	1.90	-0.10	1390.64	66.10
378.00	423.50	73.58	1.90	-0.10	1396.29	66.20
379.00	423.86	73.76	1.90	-0.10	1393.76	66.30
380.00	424.04	73.76	1.90	-0.10	1399.41	66.30
381.00	424.40	73.76	1.90	-0.10	1388.10	66.20

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
382.00	424.22	73.76	1.90	-0.10	1395.71	66.20
383.00	424.40	73.58	1.90	0.40	1388.88	66.30
384.00	424.58	73.76	1.90	-0.10	1398.63	66.30
385.00	425.12	73.76	1.90	-0.10	1387.91	66.20
386.00	424.94	73.58	1.90	-0.10	1379.33	66.20
387.00	425.30	73.58	1.90	-0.10	1399.02	66.20
388.00	425.48	73.76	1.90	-0.10	1378.16	66.20
389.00	425.48	73.76	1.90	-0.10	1391.42	66.20
390.00	425.84	73.76	1.90	-0.10	1377.58	66.10
391.00	426.56	73.76	1.90	-0.10	1418.32	66.10
392.00	423.68	73.94	1.90	-0.10	1379.53	66.10
393.00	425.84	73.76	1.90	-0.10	1394.54	66.10
394.00	426.20	73.76	1.90	-0.10	1386.93	66.10
395.00	426.02	73.94	1.90	-0.10	1399.02	66.00
396.00	426.02	73.58	1.90	-0.10	1398.04	65.90
397.00	425.84	73.76	1.90	-0.10	1426.31	65.90
398.00	431.24	73.76	1.90	-0.10	1381.67	66.00
399.00	426.92	73.58	1.90	-0.10	1386.35	66.00
400.00	426.56	73.76	1.90	-0.10	1378.75	66.10
401.00	426.74	73.76	1.90	-0.10	1380.31	66.10
402.00	426.38	73.76	1.90	-0.10	1387.71	66.00
403.00	427.10	73.94	1.90	-0.10	1397.07	65.90
404.00	427.82	73.94	1.90	-0.10	1384.98	65.90
405.00	427.64	73.76	1.90	-0.10	1366.08	65.90
406.00	428.00	73.76	1.90	-0.10	1392.59	66.00
407.00	428.00	73.94	1.90	-0.10	1361.01	66.10
408.00	427.82	73.58	1.90	-0.10	1379.33	66.10
409.00	428.36	73.76	1.90	-0.10	1364.71	66.20
410.00	428.00	73.94	1.90	-0.10	1382.84	66.10
411.00	428.72	74.12	1.90	-0.10	1373.87	66.00
412.00	428.36	73.76	1.90	0.40	1381.09	65.90
413.00	428.90	73.94	1.90	-0.10	1373.87	65.90
414.00	428.90	74.12	1.90	-0.10	1381.87	65.80
415.00	429.26	74.30	1.90	-0.10	1370.17	65.80
416.00	429.44	72.32	1.90	-0.10	1369.39	65.80
417.00	429.26	74.12	1.90	-0.10	1367.44	65.70
418.00	429.26	73.76	1.90	-0.10	1358.48	65.70
419.00	429.98	73.94	1.90	-0.10	1363.15	65.70
420.00	429.98	73.40	1.90	-0.10	1357.89	65.70
421.00	429.62	73.58	1.90	-0.10	1368.81	65.80
422.00	430.52	73.76	1.90	-0.10	1361.01	65.80
423.00	430.34	73.94	1.90	-0.10	1373.68	65.90
424.00	430.52	73.40	1.90	-0.10	1367.25	65.90
425.00	430.70	73.76	1.90	-0.10	1376.99	65.90
426.00	431.06	73.58	1.90	-0.10	1363.93	65.80
427.00	430.52	73.58	1.90	0.40	1367.25	65.90
428.00	431.42	75.92	1.90	-0.10	1361.79	65.90
429.00	431.42	73.76	1.90	-0.10	1366.47	65.90
430.00	431.60	73.76	1.90	-0.10	1354.97	66.00
431.00	431.60	73.76	1.90	-0.10	1364.71	66.00
432.00	431.96	73.58	1.90	-0.10	1354.77	66.00
433.00	431.60	73.76	1.90	-0.10	1355.55	66.20
434.00	432.86	73.76	1.90	-0.10	1350.68	66.30
435.00	432.50	74.12	1.90	-0.10	1352.63	66.40
436.00	432.86	74.12	1.90	-0.10	1369.00	66.40

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
437.00	433.04	73.76	1.90	-0.10	1351.65	66.40
438.00	433.58	73.94	1.90	-0.10	1370.95	66.40
439.00	434.30	73.94	1.90	-0.10	1360.23	66.40
440.00	433.04	73.76	1.90	-0.10	1373.87	66.50
441.00	433.58	74.30	1.90	-0.10	1343.66	66.40
442.00	433.94	73.76	1.90	-0.10	1328.46	66.30
443.00	433.76	73.94	1.90	-0.10	1349.12	66.30
444.00	434.12	73.58	1.90	-0.10	1393.95	66.20
445.00	433.94	73.76	1.90	-0.10	1412.86	66.10
446.00	433.40	73.76	1.90	-0.10	1439.17	66.10
447.00	435.02	73.76	1.90	-0.10	1419.88	66.10
448.00	435.02	73.76	1.90	-0.10	1419.68	66.10
449.00	435.02	73.76	1.90	-0.10	1420.66	66.10
450.00	435.20	74.30	1.90	0.40	1428.45	66.10
451.00	435.02	73.76	1.90	-0.10	1437.22	66.00
452.00	438.26	73.76	1.90	-0.10	1435.66	66.00
453.00	435.56	73.94	1.90	-0.10	1429.82	66.00
454.00	436.28	74.12	1.90	-0.10	1434.88	65.90
455.00	436.46	73.76	1.90	-0.10	1442.68	65.90
456.00	436.82	73.58	1.90	-0.10	1433.52	65.90
457.00	436.46	73.58	1.90	-0.10	1434.88	65.90
458.00	436.46	73.76	1.90	-0.10	1424.75	66.00
459.00	436.64	73.76	1.90	-0.10	1441.71	66.00
460.00	436.82	74.12	1.90	-0.10	1412.08	66.00
461.00	437.00	74.12	1.90	-0.10	1430.01	66.10
462.00	437.54	73.94	1.90	-0.10	1408.57	66.10
463.00	437.36	74.12	1.90	-0.10	1435.08	66.20
464.00	437.72	74.12	1.90	-0.10	1416.56	66.20
465.00	437.54	73.76	1.90	-0.10	1435.66	66.20
466.00	438.08	73.58	1.90	-0.10	1418.12	66.20
467.00	437.90	73.58	1.90	-0.10	1431.38	66.20
468.00	438.62	73.76	1.90	-0.10	1413.44	66.20
469.00	438.26	73.58	1.90	-0.10	1422.99	66.20
470.00	438.62	73.58	1.90	0.40	1421.82	66.20
471.00	438.62	74.12	1.90	-0.10	1424.16	66.20
472.00	439.16	73.94	1.90	0.40	1427.09	66.20
473.00	439.34	73.58	1.90	-0.10	1422.60	66.20
474.00	439.70	73.76	1.90	0.40	1426.70	66.20
475.00	439.70	73.40	1.90	-0.10	1413.05	66.20
476.00	440.42	73.76	1.90	-0.10	1411.49	66.20
477.00	440.06	73.76	1.90	-0.10	1388.10	66.20
478.00	440.60	73.76	1.90	-0.10	1392.00	66.30
479.00	440.78	73.76	1.90	-0.10	1361.98	66.20
480.00	440.78	73.94	1.90	-0.10	1380.89	66.10
481.00	441.32	73.76	1.90	-0.10	1369.39	66.10
482.00	441.14	73.94	1.90	0.40	1383.43	66.00
483.00	441.68	73.76	1.90	-0.10	1365.30	66.10
484.00	441.86	74.12	1.90	0.40	1392.59	66.10
485.00	441.86	73.76	1.90	-0.10	1364.91	66.10
486.00	442.40	73.76	1.90	-0.10	1381.67	66.10
487.00	443.66	74.12	1.90	-0.10	1358.48	66.20
488.00	443.48	73.94	1.90	-0.10	1384.79	66.20
489.00	439.52	74.12	1.90	0.40	1343.27	66.30
490.00	443.48	74.12	1.90	-0.10	1358.28	66.40
491.00	443.30	74.12	1.90	-0.10	1346.20	66.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
492.00	443.48	74.12	1.90	0.40	1362.37	66.60
493.00	443.66	73.94	1.90	-0.10	1371.34	66.60
494.00	443.66	74.12	1.90	0.40	1369.00	66.70
495.00	447.98	73.76	1.90	-0.10	1350.09	66.60
496.00	444.20	73.76	1.90	0.40	1335.28	66.60
497.00	444.38	74.12	1.90	-0.10	1338.59	66.50
498.00	444.38	73.94	1.90	-0.10	1308.58	66.50
499.00	444.92	73.94	1.90	-0.10	1337.42	66.50
500.00	444.74	73.94	1.90	-0.10	1359.26	66.40
501.00	449.96	74.30	1.90	-0.10	1363.15	66.30
502.00	446.00	73.94	1.90	-0.10	1357.70	66.30
503.00	446.18	73.76	1.90	-0.10	1373.87	66.30
504.00	446.00	73.76	1.90	-0.10	1358.67	66.30
505.00	446.72	73.76	1.90	-0.10	1377.38	66.30
506.00	446.90	73.94	1.90	-0.10	1357.31	66.30
507.00	447.08	74.48	1.90	-0.10	1367.25	66.30
508.00	447.26	73.94	1.90	-0.10	1360.23	66.40
509.00	447.80	74.30	1.90	-0.10	1361.40	66.40
510.00	447.80	73.94	1.90	-0.10	1356.92	66.40
511.00	448.34	74.66	1.90	-0.10	1363.54	66.50
512.00	448.34	74.12	1.90	-0.10	1348.15	66.50
513.00	448.52	73.58	1.90	-0.10	1347.37	66.50
514.00	449.24	73.94	1.90	-0.10	1365.49	66.50
515.00	448.70	73.76	1.90	-0.10	1385.18	66.40
516.00	449.24	73.94	1.90	-0.10	1385.18	66.40
517.00	448.88	73.58	1.90	-0.10	1379.72	66.40
518.00	449.78	73.76	1.90	-0.10	1376.80	66.30
519.00	449.78	72.86	1.90	-0.10	1362.76	66.30
520.00	450.32	73.94	1.90	-0.10	1424.75	66.30
521.00	450.14	73.94	1.90	-0.10	1428.65	66.30
522.00	450.86	74.12	1.90	-0.10	1449.31	66.30
523.00	450.50	73.94	1.90	-0.10	1438.98	66.30
524.00	451.22	73.58	1.90	-0.10	1460.03	66.30
525.00	450.50	75.02	1.90	-0.10	1442.88	66.30
526.00	451.04	73.94	1.90	0.40	1455.35	66.30
527.00	451.04	74.12	1.90	-0.10	1438.00	66.30
528.00	451.58	73.76	1.90	-0.10	1455.35	66.30
529.00	451.40	73.58	1.90	0.40	1446.19	66.20
530.00	451.94	73.76	1.90	-0.10	1439.95	66.30
531.00	451.94	74.12	1.90	-0.10	1430.79	66.20
532.00	452.12	73.76	1.90	-0.10	1424.36	66.20
533.00	452.48	73.94	1.90	-0.10	1447.55	66.20
534.00	452.66	73.76	1.90	-0.10	1434.10	66.20
535.00	453.20	74.30	1.90	-0.10	1458.27	66.20
536.00	453.38	74.12	1.90	-0.10	1437.03	66.20
537.00	453.38	73.94	1.90	-0.10	1458.27	66.20
538.00	452.48	73.76	1.90	-0.10	1426.31	66.20
539.00	453.38	73.94	1.90	-0.10	1445.60	66.20
540.00	453.74	74.12	1.90	-0.10	1436.44	66.20
541.00	453.38	73.94	1.90	-0.10	1445.60	66.20
542.00	453.38	73.76	1.90	-0.10	1445.41	66.20
543.00	453.20	73.94	2.00	-0.10	1471.33	66.20
544.00	454.46	74.12	1.90	-0.10	1438.00	66.20
545.00	453.74	73.76	1.90	-0.10	1437.03	66.20
546.00	454.28	74.12	1.90	-0.10	1431.77	66.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
547.00	454.28	73.58	1.90	-0.10	1430.21	66.20
548.00	454.28	74.12	1.90	-0.10	1435.08	66.20
549.00	454.82	73.76	1.90	-0.10	1442.49	66.20
550.00	455.18	74.12	1.90	-0.10	1424.16	66.20
551.00	455.36	73.94	1.90	-0.10	1426.89	66.20
552.00	455.90	73.94	1.90	-0.10	1442.10	66.20
553.00	456.08	73.76	1.90	-0.10	1422.21	66.20
554.00	456.26	73.94	1.90	-0.10	1432.35	66.30
555.00	456.08	73.94	1.90	-0.10	1405.26	66.30
556.00	456.26	73.94	1.90	-0.10	1428.26	66.30
557.00	456.62	73.94	2.00	-0.10	1407.99	66.30
558.00	457.16	74.48	1.90	-0.10	1420.27	66.40
559.00	457.16	74.12	1.90	-0.10	1403.11	66.30
560.00	456.98	74.30	2.00	-0.10	1427.48	66.30
561.00	457.34	74.12	1.90	-0.10	1398.43	66.20
562.00	457.70	71.96	1.90	-0.10	1439.76	66.10
563.00	457.34	73.76	1.90	-0.10	1405.26	66.10
564.00	457.34	74.12	1.90	-0.10	1422.21	66.00
565.00	458.24	73.94	1.90	-0.10	1411.49	66.00
566.00	458.24	74.12	1.90	-0.10	1413.05	66.10
567.00	458.24	73.58	1.90	-0.10	1401.55	66.20
568.00	458.42	75.92	1.90	-0.10	1408.38	66.20
569.00	458.42	73.94	1.90	-0.10	1402.14	66.30
570.00	458.96	73.76	1.90	-0.10	1411.49	66.20
571.00	458.96	73.76	1.90	-0.10	1407.21	66.10
572.00	459.32	73.76	1.90	-0.10	1407.79	66.00
573.00	459.68	73.58	1.90	-0.10	1411.88	65.90
574.00	459.50	75.20	1.90	-0.10	1395.12	65.90
575.00	460.22	73.94	1.90	-0.10	1400.77	65.80
576.00	460.04	74.12	1.90	-0.10	1391.61	65.80
577.00	460.40	73.76	1.90	-0.10	1414.81	65.80
578.00	460.22	73.76	1.90	-0.10	1371.73	65.80
579.00	460.58	73.76	1.90	-0.10	1396.29	65.90
580.00	461.12	73.76	1.90	-0.10	1368.03	65.90
581.00	461.12	73.76	1.90	-0.10	1378.36	66.10
582.00	461.30	74.12	1.90	-0.10	1355.16	66.10
583.00	461.84	73.94	1.90	-0.10	1369.00	66.10
584.00	462.20	74.12	1.90	-0.10	1358.28	66.20
585.00	462.56	73.94	1.90	-0.10	1379.14	66.20
586.00	459.14	73.76	1.90	-0.10	1356.33	66.20
587.00	462.74	73.94	1.90	-0.10	1361.98	66.20
588.00	462.38	74.12	1.90	-0.10	1361.98	66.30
589.00	463.10	73.76	1.90	-0.10	1367.44	66.20
590.00	462.56	73.76	1.90	-0.10	1366.86	66.20
591.00	462.74	73.76	1.90	-0.10	1366.08	66.20
592.00	463.10	74.12	1.90	-0.10	1365.10	66.20
593.00	463.28	73.76	1.90	-0.10	1351.46	66.20
594.00	463.64	73.94	1.90	-0.10	1364.52	66.30
595.00	464.18	74.12	1.90	-0.10	1369.00	66.30
596.00	463.46	74.12	1.90	-0.10	1378.75	66.30
597.00	464.18	74.12	1.90	-0.10	1383.23	66.30
598.00	469.22	74.12	1.90	-0.10	1382.45	66.30
599.00	464.90	74.12	1.90	-0.10	1366.66	66.30
600.00	465.08	74.12	1.90	-0.10	1371.15	66.20
601.00	465.44	74.30	1.90	-0.10	1356.33	66.20

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
602.00	464.90	73.58	1.90	-0.10	1372.71	66.10
603.00	465.98	74.12	1.90	-0.10	1349.51	66.10
604.00	465.80	74.12	1.90	-0.10	1369.59	66.10
605.00	466.34	74.30	1.90	-0.10	1345.81	66.20
606.00	466.16	73.76	2.00	-0.10	1360.43	66.20
607.00	466.52	74.12	2.00	-0.10	1350.48	66.30
608.00	466.88	74.30	1.90	-0.10	1359.65	66.30
609.00	467.06	74.30	1.90	-0.10	1346.20	66.20
610.00	466.88	74.12	1.90	-0.10	1357.31	66.20
611.00	467.42	74.12	1.90	-0.10	1346.20	66.20
612.00	467.06	74.12	1.90	-0.10	1356.53	66.20
613.00	467.42	74.12	1.90	-0.10	1343.86	66.30
614.00	467.60	73.76	1.90	-0.10	1355.36	66.30
615.00	468.14	73.94	1.90	-0.10	1360.43	66.30
616.00	467.96	73.40	1.90	-0.10	1334.11	66.20
617.00	468.32	73.94	1.90	-0.10	1325.53	66.20
618.00	468.14	74.12	1.90	-0.10	1310.33	66.30
619.00	468.50	74.30	1.90	-0.10	1335.48	66.40
620.00	468.68	74.12	1.90	-0.10	1337.62	66.40
621.00	468.68	73.58	1.90	-0.10	1348.73	66.40
622.00	469.04	74.48	2.00	-0.10	1343.66	66.30
623.00	469.22	74.12	1.90	-0.10	1353.41	66.30
624.00	469.22	74.12	2.00	-0.10	1334.70	66.30
625.00	469.40	74.66	1.90	-0.10	1345.42	66.30
626.00	469.76	73.58	1.90	-0.10	1333.14	66.40
627.00	469.76	74.12	1.90	-0.10	1334.89	66.50
628.00	470.30	74.12	1.90	-0.10	1304.87	66.50
629.00	469.94	74.12	1.90	-0.10	1323.00	66.50
630.00	470.30	74.12	1.90	-0.10	1310.33	66.50
631.00	470.66	74.12	1.90	-0.10	1318.91	66.50
632.00	470.84	74.30	1.90	-0.10	1310.53	66.50
633.00	470.84	74.12	1.90	-0.10	1336.26	66.60
634.00	471.38	73.94	1.90	-0.10	1355.16	66.50
635.00	469.22	74.12	1.90	-0.10	1368.61	66.40
636.00	471.74	74.12	1.90	-0.10	1375.82	66.40
637.00	471.20	74.30	1.90	-0.10	1380.50	66.30
638.00	471.56	74.30	1.90	-0.10	1398.04	66.40
639.00	471.56	74.12	1.90	-0.10	1409.15	66.50
640.00	471.56	73.94	1.90	-0.10	1428.84	66.40
641.00	476.42	74.48	1.90	-0.10	1377.58	66.30
642.00	471.92	74.12	1.90	-0.10	1392.59	66.20
643.00	472.28	74.30	1.90	-0.10	1379.53	66.20
644.00	473.00	74.66	1.90	-0.10	1416.17	66.20
645.00	472.64	74.12	1.90	-0.10	1399.60	66.30
646.00	472.64	74.30	2.00	-0.10	1418.71	66.30
647.00	473.18	73.76	1.90	-0.10	1387.32	66.20
648.00	474.44	74.48	2.00	-0.10	1407.99	66.10
649.00	474.08	74.48	1.90	-0.10	1399.60	66.00
650.00	474.44	74.12	1.90	-0.10	1410.91	65.90
651.00	474.44	74.12	1.90	-0.10	1393.76	66.10
652.00	474.62	74.12	2.00	-0.10	1413.05	66.20
653.00	474.98	74.30	1.90	-0.10	1396.10	66.20
654.00	475.34	74.30	2.00	-0.10	1416.17	66.20
655.00	475.16	74.84	2.00	-0.10	1400.19	66.20
656.00	475.70	74.66	1.90	-0.10	1420.66	66.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
657.00	475.52	74.30	1.90	-0.10	1402.92	66.30
658.00	475.70	74.66	2.00	-0.10	1416.95	66.30
659.00	475.70	71.96	2.00	-0.10	1403.50	66.20
660.00	476.06	74.12	2.00	0.40	1402.33	66.20
661.00	476.24	74.12	2.00	-0.10	1405.65	66.30
662.00	476.60	74.12	2.00	-0.10	1399.41	66.30
663.00	476.24	73.76	2.00	0.40	1407.99	66.30
664.00	476.78	74.12	2.00	-0.10	1404.48	66.30
665.00	476.42	75.38	2.00	-0.10	1404.48	66.20
666.00	477.14	74.30	2.00	-0.10	1383.43	66.30
667.00	477.14	74.12	2.00	-0.10	1399.60	66.30
668.00	477.86	74.30	2.00	0.40	1381.09	66.30
669.00	477.68	74.12	2.00	-0.10	1395.51	66.20
670.00	478.22	73.76	2.00	-0.10	1389.86	66.20
671.00	478.04	75.56	2.00	-0.10	1393.56	66.20
672.00	478.40	74.12	2.00	-0.10	1389.66	66.30
673.00	478.94	74.12	2.00	-0.10	1400.97	66.30
674.00	479.12	74.30	2.00	-0.10	1386.93	66.30
675.00	478.76	73.94	2.00	0.40	1389.27	66.20
676.00	479.30	74.12	2.00	0.40	1382.45	66.10
677.00	479.66	74.12	2.00	-0.10	1385.18	66.10
678.00	479.84	74.30	2.00	-0.10	1386.93	66.20
679.00	480.02	74.12	2.00	-0.10	1383.62	66.20
680.00	480.02	74.30	2.00	0.40	1397.46	66.30
681.00	480.92	74.30	2.00	-0.10	1383.82	66.20
682.00	480.92	74.30	2.00	-0.10	1407.40	66.20
683.00	478.04	74.12	2.00	-0.10	1394.93	66.20
684.00	480.92	74.30	2.00	0.40	1413.44	66.20
685.00	480.92	74.12	2.00	-0.10	1374.07	66.30
686.00	481.28	74.48	2.00	-0.10	1407.01	66.40
687.00	480.92	73.58	2.00	-0.10	1377.77	66.40
688.00	481.46	74.30	2.00	-0.10	1406.62	66.30
689.00	480.92	73.94	2.00	-0.10	1373.87	66.30
690.00	481.82	74.30	2.00	-0.10	1376.21	66.20
691.00	481.82	74.12	2.00	0.40	1355.36	66.20
692.00	482.18	74.30	2.00	-0.10	1358.28	66.30
693.00	482.54	74.48	2.00	-0.10	1353.60	66.40
694.00	482.18	74.12	2.00	-0.10	1366.08	66.40
695.00	485.78	74.12	2.00	-0.10	1350.68	66.40
696.00	483.08	74.12	2.00	-0.10	1359.84	66.40
697.00	483.98	74.12	2.00	-0.10	1353.02	66.40
698.00	483.26	74.30	2.00	-0.10	1356.72	66.30
699.00	484.16	73.76	2.00	-0.10	1359.84	66.20
700.00	483.98	73.76	2.00	-0.10	1358.67	66.10
701.00	484.34	74.12	2.00	-0.10	1352.82	66.00
702.00	484.16	74.30	2.00	-0.10	1341.91	65.90
703.00	484.70	74.48	2.00	-0.10	1357.31	65.90
704.00	484.70	74.12	2.00	-0.10	1334.31	66.00
705.00	485.24	74.48	2.00	-0.10	1360.62	66.00
706.00	485.42	74.30	2.00	0.40	1333.72	65.90
707.00	485.24	74.12	2.00	-0.10	1353.21	65.90
708.00	485.42	74.12	2.00	-0.10	1335.87	65.90
709.00	485.60	74.12	2.00	-0.10	1358.87	65.90
710.00	485.78	74.30	2.00	-0.10	1331.97	65.90
711.00	485.96	74.12	2.00	-0.10	1344.64	65.90

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
712.00	485.78	73.76	2.00	-0.10	1323.20	65.90
713.00	486.32	73.58	2.00	-0.10	1335.28	66.00
714.00	486.50	74.12	2.00	-0.10	1324.95	66.00
715.00	486.32	73.94	2.00	-0.10	1329.04	66.00
716.00	486.68	74.12	2.00	-0.10	1324.17	66.10
717.00	487.40	74.12	2.00	-0.10	1324.95	66.10
718.00	487.22	73.76	2.00	-0.10	1316.57	66.10
719.00	487.58	75.02	2.00	-0.10	1317.35	66.10
720.00	487.94	73.76	2.00	-0.10	1313.64	66.10
721.00	488.30	74.30	2.00	-0.10	1312.67	66.10
722.00	489.02	74.12	2.00	-0.10	1312.67	66.10
723.00	488.66	74.12	2.00	-0.10	1304.87	66.10
724.00	489.20	74.12	2.00	-0.10	1319.49	66.10
725.00	489.74	74.30	2.00	-0.10	1298.44	66.10
726.00	489.38	73.94	2.00	-0.10	1333.14	66.10
727.00	490.46	74.30	2.00	-0.10	1335.67	66.10
728.00	490.64	74.12	2.00	-0.10	1377.19	66.10
729.00	490.82	74.30	2.00	-0.10	1344.25	66.10
730.00	491.36	74.12	2.00	-0.10	1394.34	66.10
731.00	491.36	73.94	2.00	-0.10	1380.89	66.10
732.00	489.74	74.12	2.00	-0.10	1408.96	66.00
733.00	491.36	74.12	2.00	-0.10	1382.65	65.90
734.00	491.54	74.12	2.00	-0.10	1420.46	65.90
735.00	491.90	74.30	2.00	-0.10	1415.78	65.90
736.00	491.90	73.94	2.00	-0.10	1465.49	65.90
737.00	491.36	74.30	2.00	-0.10	1469.58	65.90
738.00	496.04	73.76	2.00	-0.10	1454.96	66.00
739.00	492.26	74.12	2.00	-0.10	1455.35	66.00
740.00	492.44	74.12	2.00	-0.10	1459.05	66.10
741.00	492.26	74.30	2.00	-0.10	1469.77	66.10
742.00	492.26	74.12	2.00	-0.10	1473.67	66.10
743.00	492.44	74.30	2.00	-0.10	1488.10	66.10
744.00	493.52	74.12	2.00	-0.10	1478.94	66.10
745.00	493.16	74.12	2.00	-0.10	1476.79	66.00
746.00	493.70	74.12	2.00	-0.10	1468.41	66.00
747.00	493.88	74.12	2.00	-0.10	1479.13	66.00
748.00	493.88	74.12	2.00	-0.10	1466.85	66.10
749.00	494.24	74.30	2.00	-0.10	1490.63	66.10
750.00	494.42	74.12	2.00	-0.10	1459.44	66.10
751.00	494.42	74.30	2.00	-0.10	1489.66	66.20
752.00	494.60	73.76	2.00	-0.10	1462.76	66.30
753.00	494.60	74.30	2.00	-0.10	1487.12	66.30
754.00	495.14	74.30	2.00	-0.10	1467.63	66.30
755.00	494.96	74.30	2.00	-0.10	1475.43	66.20
756.00	495.32	72.14	2.00	-0.10	1467.44	66.30
757.00	494.96	74.12	2.00	-0.10	1487.51	66.30
758.00	495.50	74.30	2.00	-0.10	1454.77	66.30
759.00	495.14	74.30	2.00	-0.10	1466.07	66.30
760.00	495.68	74.12	2.00	-0.10	1462.76	66.30
761.00	495.68	73.76	2.00	-0.10	1466.07	66.30
762.00	496.04	76.28	2.00	-0.10	1457.69	66.30
763.00	495.50	74.12	2.00	-0.10	1450.67	66.30
764.00	496.04	74.30	2.00	-0.10	1459.05	66.20
765.00	495.86	73.94	2.00	-0.10	1459.25	66.30
766.00	496.22	74.12	2.00	-0.10	1470.55	66.30

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
767.00	496.22	73.58	2.00	-0.10	1453.01	66.30
768.00	496.94	75.56	2.00	-0.10	1471.33	66.30
769.00	496.58	74.12	2.00	-0.10	1453.60	66.40
770.00	496.76	74.12	2.00	-0.10	1476.79	66.40
771.00	496.76	74.48	2.00	-0.10	1445.80	66.50
772.00	497.30	74.30	2.00	-0.10	1471.33	66.60
773.00	496.76	74.30	2.00	-0.10	1431.57	66.60
774.00	497.66	74.12	2.00	-0.10	1454.18	66.60
775.00	496.94	74.12	2.00	-0.10	1435.66	66.60
776.00	497.48	74.48	2.00	-0.10	1451.06	66.50
777.00	497.66	74.30	2.00	-0.10	1435.47	66.50
778.00	498.02	74.48	2.00	-0.10	1440.93	66.50
779.00	497.84	74.12	2.00	-0.10	1430.40	66.50
780.00	497.84	74.30	2.00	-0.10	1419.49	66.50
781.00	498.38	73.94	2.00	-0.10	1420.85	66.50

Ignitibility Testing: Drilling into Saltcake, 1 cm³/min Flammable, 30 SCFM Purge, 1st run

9/1/94

File Name: Run12_1a

Time(Sec)	Bittemp(F)	PrgTemp(F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	109.40	71.78	-0.50	22.80	1331.58	67.70
0.99	108.68	71.60	-0.50	22.80	1324.17	67.70
1.97	107.96	71.06	-0.50	22.80	1337.62	67.60
2.96	107.42	71.24	-0.50	22.80	1325.73	67.60
3.95	106.88	71.06	-0.50	22.80	1336.84	67.50
4.94	105.98	71.60	-0.50	22.80	1321.83	67.50
5.93	105.26	71.06	-0.50	22.80	1328.65	67.50
6.92	104.54	71.06	-0.50	22.80	1308.58	67.50
7.91	104.00	70.70	-0.20	22.80	1251.08	67.30
8.89	102.74	71.06	0.20	23.30	1289.28	67.00
9.88	101.30	71.06	0.50	23.80	1269.40	66.70
10.87	99.14	71.78	0.80	24.40	1281.29	66.50
11.86	97.88	71.60	1.10	24.40	1288.89	66.40
12.85	97.52	71.24	1.40	24.40	1300.20	66.40
13.84	97.16	71.06	1.70	24.40	1277.97	66.40
14.83	97.16	71.06	2.00	24.40	1285.77	66.40
15.82	97.34	70.88	2.30	24.90	1276.22	66.30
16.80	96.98	71.06	2.60	24.40	1275.64	66.30
17.79	97.88	71.60	2.90	24.40	1246.79	66.40
18.78	97.52	71.24	3.20	24.40	1259.46	66.40
19.77	97.34	71.06	3.50	24.40	1281.29	66.30
20.76	97.70	71.06	3.70	24.90	1328.85	66.20
21.75	98.24	71.06	4.00	24.90	1330.60	66.00
22.74	99.14	71.06	4.20	24.90	1350.48	65.80
23.72	101.12	70.70	4.30	24.90	1344.44	65.60
24.71	103.64	71.60	4.50	24.90	1358.87	65.50
25.70	105.44	71.24	4.70	24.90	1356.33	65.40
26.69	104.18	71.06	4.90	24.90	1367.44	65.40
27.68	109.04	70.52	5.00	24.90	1362.96	65.40
28.67	110.66	70.70	5.10	24.40	1374.26	65.40
29.66	112.10	70.70	5.30	24.40	1391.81	65.40
30.65	112.10	70.70	5.40	24.40	1393.56	65.50
31.63	113.90	71.06	5.50	23.80	1398.24	65.50
32.62	114.26	71.06	5.60	23.80	1386.93	65.60
33.61	115.52	70.70	5.60	23.80	1371.93	65.70
34.60	116.42	70.70	5.70	23.80	1338.79	65.70
35.59	116.06	70.52	5.80	24.40	1329.63	65.70
36.58	116.24	70.88	6.00	23.80	1318.32	65.80
37.57	116.96	70.70	6.10	23.80	1332.75	65.90
38.55	125.24	70.88	6.20	24.40	1318.71	65.90
39.54	120.38	70.70	6.30	24.40	1325.34	65.90
40.53	121.10	70.70	6.40	24.40	1344.05	65.80
41.52	123.08	70.70	6.50	24.40	1374.85	65.80
42.51	125.96	70.34	6.60	23.80	1346.00	65.70
43.50	127.76	70.52	6.70	24.40	1345.03	65.60
44.49	128.48	71.06	6.90	24.40	1317.15	65.50
45.48	129.74	70.70	7.00	24.90	1331.97	65.50
46.46	129.38	70.52	7.10	24.90	1330.60	65.50
47.45	127.22	70.52	7.20	24.90	1349.31	65.50
48.44	126.86	70.34	7.30	25.40	1361.20	65.50
49.43	127.40	70.52	7.50	24.90	1378.55	65.40
50.42	127.22	70.70	7.60	24.90	1399.02	65.40

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
51.41	126.86	68.54	7.70	24.90	1390.25	65.30
52.40	127.58	70.70	7.80	24.90	1381.09	65.40
53.38	128.12	70.52	7.90	24.90	1360.81	65.40
54.37	127.40	70.16	8.00	25.40	1368.03	65.40
55.36	127.94	70.16	8.10	24.90	1352.82	65.50
56.35	128.12	69.98	8.20	24.90	1363.35	65.50
57.34	128.12	72.14	8.30	24.40	1362.96	65.60
58.33	127.94	70.70	8.50	24.40	1342.88	65.70
59.32	129.38	70.52	8.60	24.90	1334.50	65.80
60.31	129.20	69.98	8.70	24.90	1327.87	65.80
61.29	130.28	69.98	8.80	24.90	1316.37	65.80
62.28	131.00	69.62	8.90	24.40	1292.98	65.90
63.27	131.18	72.14	9.10	25.40	1279.34	65.90
64.26	130.28	70.16	9.20	24.90	1279.92	65.90
65.25	130.10	70.52	9.40	24.40	1295.32	65.80
66.24	128.84	69.98	9.50	24.40	1299.61	65.80
67.23	128.30	69.62	9.60	24.90	1290.45	65.80
68.21	129.38	69.98	9.80	24.90	1304.87	65.80
69.20	130.28	69.98	9.90	25.40	1346.78	65.70
70.19	131.18	69.80	10.10	25.40	1326.90	65.60
71.18	131.54	70.34	10.20	24.90	1375.43	65.50
72.17	132.08	70.16	10.30	25.40	1329.82	65.50
73.16	131.54	70.34	10.40	25.40	1335.48	65.50
74.15	132.98	69.62	10.60	25.40	1323.00	65.50
75.14	131.54	69.80	10.70	25.40	1345.61	65.60
76.12	131.36	69.98	10.80	25.90	1359.26	65.60
77.11	131.54	69.98	11.00	25.40	1379.33	65.60
78.10	129.92	69.98	11.10	25.40	1324.56	65.60
79.09	129.74	70.16	11.20	24.90	1333.72	65.70
80.08	129.20	69.44	11.30	25.40	1327.09	65.70
81.07	128.66	69.44	11.50	25.90	1335.67	65.60
82.06	130.28	69.62	11.60	25.90	1330.80	65.60
83.04	129.92	69.62	11.70	25.90	1347.95	65.60
84.03	130.64	69.62	11.80	26.50	1391.42	65.50
85.02	129.20	69.98	12.00	25.40	1341.52	65.60
86.01	128.12	69.44	12.10	25.40	1367.83	65.60
87.00	128.66	69.44	12.20	25.90	1324.37	65.80
87.99	128.66	69.62	12.30	25.90	1316.96	65.90
88.98	128.66	69.44	12.50	26.50	1285.58	65.80
89.96	127.58	69.44	12.60	25.90	1306.24	65.90
90.95	127.04	69.80	12.80	26.50	1330.80	65.90
91.94	127.04	69.62	12.90	26.50	1364.32	65.80
92.93	126.86	69.62	13.00	26.50	1341.71	65.90
93.92	126.50	69.44	13.20	27.50	1326.31	65.90
94.91	125.60	69.26	13.30	27.00	1334.31	65.90
95.90	124.70	69.08	13.40	26.50	1322.03	65.90
96.89	124.34	69.26	13.60	26.50	1298.05	66.00
97.87	124.16	69.62	13.70	26.50	1337.42	66.00
98.86	124.52	69.80	13.80	26.50	1319.10	66.00
99.85	124.70	68.18	13.90	25.90	1342.49	66.00
100.84	125.06	69.08	14.10	25.90	1324.95	66.00
101.83	124.52	68.72	14.20	26.50	1274.27	66.00
102.82	124.70	69.08	14.40	25.90	1295.91	66.00
103.81	123.08	68.90	14.50	26.50	1300.39	66.00
104.79	123.62	69.62	14.60	27.00	1335.67	66.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
105.78	123.62	66.92	14.80	25.90	1316.57	66.00
106.77	124.70	68.72	14.90	27.00	1330.80	66.00
107.76	124.52	68.90	15.10	26.50	1297.47	66.00
108.75	122.90	68.36	15.20	27.00	1291.03	65.90
109.74	121.64	68.72	15.40	25.90	1320.47	65.90
110.73	122.90	68.18	15.60	26.50	1332.75	65.80
111.72	123.08	69.44	15.70	26.50	1286.75	65.60
112.70	121.82	68.72	15.90	26.50	1267.06	65.60
113.69	120.02	68.72	16.10	26.50	1234.12	65.70
114.68	119.30	68.54	16.30	27.50	1298.25	65.70
115.67	116.60	68.54	16.50	28.10	1294.15	65.70
116.66	115.70	68.36	16.80	32.30	1245.23	65.80
117.65	115.52	68.54	17.00	36.00	1274.47	65.90
118.64	114.44	68.54	17.20	36.60	1268.62	65.80
119.62	113.36	68.90	17.40	38.20	1314.42	65.80
120.61	112.64	68.54	17.60	40.30	1253.22	65.80
121.60	112.64	68.54	17.80	42.40	1306.82	65.90
122.59	113.18	68.72	18.00	44.50	1348.54	65.80
123.58	114.08	68.72	18.20	42.90	1335.09	65.70
124.57	110.12	68.90	18.30	44.50	1276.81	65.60
125.56	111.56	68.72	18.50	44.50	1262.19	65.60
126.55	111.56	68.36	18.70	44.00	1277.00	65.60
127.53	112.10	68.36	18.80	41.90	1315.98	65.60
128.52	111.56	68.18	19.00	42.90	1332.75	65.60
129.51	111.20	68.18	19.20	43.50	1324.76	65.80
130.50	113.72	68.36	19.40	44.50	1335.28	65.80
131.49	110.12	68.54	19.40	42.40	1372.12	66.20
132.48	109.04	68.54	19.40	41.90	1374.07	66.50
133.47	107.42	68.18	19.40	41.40	1362.18	66.60
134.45	105.62	68.36	19.40	41.40	1364.91	66.70
135.44	102.56	68.18	19.40	41.40	1365.10	66.80
136.43	108.14	68.00	19.40	41.40	1347.56	66.90
137.42	100.76	68.36	19.40	41.40	1343.27	67.10
138.41	100.22	68.54	19.40	40.80	1357.11	67.20
139.40	97.52	68.36	19.40	40.80	1344.05	67.20
140.39	98.96	67.64	19.40	40.80	1360.23	67.20
141.38	98.06	68.00	19.40	40.80	1338.20	67.20
142.36	96.98	68.36	19.40	40.80	1361.79	67.20
143.35	96.44	68.00	19.40	38.20	1343.66	67.30
144.34	95.72	68.00	19.40	37.60	1339.96	67.30
145.33	95.36	68.00	19.40	38.20	1355.75	67.40
146.32	94.64	68.36	19.40	37.10	1378.55	67.40
147.31	95.36	68.00	19.40	37.10	1377.58	67.30
148.30	94.10	67.64	19.40	37.10	1360.62	67.30
149.28	93.56	67.64	19.40	37.60	1349.70	67.30
150.27	93.20	68.00	19.40	38.70	1344.25	67.30
151.26	93.74	68.00	19.40	38.20	1347.76	67.40
152.25	92.66	67.82	19.40	38.20	1359.65	67.50
153.24	91.94	68.18	19.40	38.70	1382.06	67.50
154.23	92.12	66.92	19.40	38.70	1356.33	67.60
155.22	91.76	67.64	19.40	38.20	1374.26	67.60
156.21	91.76	67.10	19.40	36.00	1344.05	67.40
157.19	91.22	66.92	19.40	3.10	1359.06	67.40
158.18	90.68	67.10	19.40	-0.10	1337.81	67.40

Ignitibility Testing: Drilling into Saltcake, 1 cm3/min Flammable, 30 SCFM Purge, 2nd run

9/1/94

File Name: Run13_1b

Time(Sec)	Bittemp(F)	PrgTemp(F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
0.00	81.32	68.90	-0.30	21.20	1381.67	66.90
1.00	80.96	68.90	-0.20	21.70	1362.37	66.80
2.00	80.78	68.54	0.10	21.20	1310.72	66.50
3.00	82.40	69.26	0.40	22.20	1290.45	66.20
4.00	83.66	68.54	0.90	23.30	1290.06	66.00
5.00	84.92	70.52	1.20	23.80	1289.28	65.90
6.00	86.54	68.90	1.40	24.40	1287.72	65.80
7.00	86.90	68.72	1.60	24.90	1293.57	65.70
8.00	88.16	68.90	1.90	25.40	1295.91	65.60
9.00	89.60	68.72	2.00	25.40	1323.39	65.60
10.00	89.24	68.54	2.20	25.40	1294.35	65.60
11.00	92.66	68.90	2.80	24.90	1330.21	65.50
12.00	95.00	68.36	2.60	24.90	1338.40	65.40
13.00	96.80	69.08	3.10	24.90	1350.48	65.50
14.00	99.86	68.72	2.80	25.40	1358.28	65.60
15.00	101.30	68.54	3.30	25.90	1363.54	65.60
16.00	103.28	68.54	3.10	25.90	1376.02	65.50
17.00	98.42	68.72	3.10	26.50	1358.67	65.40
18.00	105.08	68.72	3.00	26.50	1376.80	65.40
19.00	105.62	68.72	3.30	27.00	1348.92	65.60
20.00	106.52	69.08	3.30	28.60	1379.53	65.60
21.00	106.16	68.90	3.40	30.20	1353.60	65.50
22.00	104.72	68.72	3.40	29.10	1386.54	65.40
23.00	107.42	68.54	3.40	26.50	1376.02	65.40
24.00	107.96	68.90	3.40	25.40	1369.39	65.60
25.00	108.50	68.36	3.40	25.90	1366.47	65.60
26.00	108.50	68.54	3.40	28.10	1368.81	65.50
27.00	108.32	68.54	3.40	30.20	1368.03	65.50
28.00	106.88	68.36	3.50	31.30	1364.91	65.60
29.00	113.00	68.36	3.50	31.80	1378.75	65.70
30.00	107.06	68.54	3.80	26.50	1367.44	65.70
31.00	108.50	68.18	3.90	25.90	1377.58	65.60
32.00	109.40	68.72	3.80	27.00	1364.71	65.70
33.00	109.04	67.82	4.00	28.60	1377.38	65.70
34.00	109.40	68.72	3.90	31.30	1366.47	65.80
35.00	109.58	68.36	4.00	25.90	1378.75	65.80
36.00	110.30	68.36	3.90	25.40	1367.44	65.70
37.00	111.92	68.36	4.00	25.40	1368.81	65.80
38.00	112.46	68.36	4.10	25.90	1374.85	65.90
39.00	112.64	68.54	4.10	28.10	1361.20	65.90
40.00	111.02	68.36	3.90	28.60	1367.25	65.80
41.00	111.38	68.54	4.40	24.90	1364.32	65.70
42.00	112.46	67.46	4.20	24.40	1387.71	65.80
43.00	112.64	67.82	4.30	24.40	1368.42	65.80
44.00	114.44	67.82	4.30	24.40	1376.99	65.90
45.00	115.34	68.00	4.10	24.90	1373.29	65.80
46.00	118.22	67.82	4.20	24.90	1393.95	65.70
47.00	115.52	67.82	4.10	25.40	1362.18	65.60
48.00	115.52	70.16	4.50	25.90	1377.58	65.70
49.00	115.88	68.36	4.30	27.50	1362.96	65.60
50.00	114.80	67.46	4.30	29.10	1402.14	65.50
51.00	114.08	67.82	4.60	30.20	1371.93	65.50

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
52.00	114.08	67.46	4.60	31.30	1387.71	65.50
53.00	112.46	67.10	4.50	31.80	1378.16	65.50
54.00	112.10	68.90	4.40	32.30	1363.54	65.50
55.00	111.92	67.82	4.60	32.90	1383.04	65.60
56.00	111.92	68.00	4.40	32.30	1368.81	65.70
57.00	111.56	67.46	4.60	32.30	1383.62	65.80
58.00	111.02	67.82	4.70	33.40	1361.20	65.80
59.00	111.20	67.82	4.60	33.90	1388.49	65.80
60.00	111.92	67.64	4.60	33.90	1367.05	65.80
61.00	111.02	67.46	4.50	34.50	1382.45	65.90
62.00	110.30	67.46	4.70	35.00	1366.27	65.90
63.00	111.20	67.82	4.70	36.00	1387.13	65.80
64.00	111.38	68.00	4.50	36.00	1371.54	65.80
65.00	111.74	67.64	4.70	37.10	1385.57	65.80
66.00	110.12	68.18	4.60	39.80	1377.97	65.80
67.00	109.76	67.46	4.60	41.40	1372.90	65.80
68.00	110.30	67.64	4.70	41.90	1360.43	65.80
69.00	110.12	67.82	4.80	42.90	1365.88	65.80
70.00	110.12	67.64	4.70	44.00	1383.43	65.80
71.00	109.76	68.00	4.70	44.50	1385.37	65.80
72.00	107.96	67.46	5.00	45.60	1418.90	65.70
73.00	108.86	67.64	5.10	45.60	1352.24	65.80
74.00	108.86	67.28	4.80	45.10	1386.93	65.90
75.00	108.50	67.82	4.90	45.60	1370.37	65.80
76.00	109.04	67.64	5.00	45.10	1381.67	65.70
77.00	108.86	67.82	4.90	45.10	1384.40	65.60
78.00	109.40	67.28	5.10	45.10	1391.61	65.70
79.00	109.94	67.28	5.10	45.10	1373.29	65.70
80.00	110.12	67.10	5.20	48.30	1377.19	65.60
81.00	109.94	67.64	5.30	49.90	1384.60	65.60
82.00	110.12	67.46	5.30	49.30	1366.27	65.70
83.00	109.76	67.64	5.50	49.90	1393.37	65.70
84.00	110.12	67.28	5.40	49.90	1360.62	65.70
85.00	110.66	67.28	5.20	49.90	1387.52	65.60
86.00	110.66	67.46	5.10	49.90	1364.32	65.70
87.00	110.48	67.28	5.30	50.40	1376.21	65.70
88.00	110.66	67.46	5.40	49.90	1367.83	65.70
89.00	110.84	67.64	5.50	47.70	1373.09	65.70
90.00	110.48	67.64	5.40	46.70	1356.53	65.80
91.00	111.20	64.76	5.40	48.80	1383.23	65.80
92.00	111.74	67.28	5.30	49.90	1377.38	65.90
93.00	111.74	67.28	5.30	50.90	1375.24	65.80
94.00	112.82	67.10	5.40	52.50	1382.06	65.80
95.00	111.74	67.10	5.40	56.80	1364.32	65.70
96.00	113.72	67.46	5.60	55.70	1380.89	65.70
97.00	113.72	65.12	5.60	51.40	1362.18	65.70
98.00	113.00	67.10	5.70	44.00	1384.60	65.70
99.00	114.80	66.38	5.70	40.30	1356.53	65.60
100.00	114.44	66.56	5.70	40.80	1386.35	65.60
101.00	116.78	67.28	5.70	44.00	1351.65	65.60
102.00	116.78	66.02	5.70	48.80	1378.36	65.70
103.00	118.22	68.18	5.70	50.90	1379.53	65.70
104.00	117.32	66.74	5.80	50.90	1377.19	65.60
105.00	116.78	66.92	5.80	50.90	1373.29	65.70
106.00	116.78	66.74	5.90	51.40	1374.46	65.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
107.00	116.42	66.56	5.80	52.00	1381.28	65.60
108.00	116.60	66.74	5.90	50.90	1364.52	65.50
109.00	116.24	66.92	5.90	50.40	1379.92	65.50
110.00	116.24	66.38	5.70	49.90	1366.66	65.60
111.00	116.60	66.56	5.80	49.90	1379.14	65.60
112.00	116.60	66.56	5.70	50.40	1370.37	65.60
113.00	116.60	66.74	6.10	52.00	1374.07	65.60
114.00	116.78	66.20	6.00	51.40	1385.96	65.80
115.00	112.82	66.38	6.10	51.40	1380.70	65.70
116.00	116.24	66.38	5.90	50.40	1367.05	65.60
117.00	114.98	66.38	6.00	50.40	1378.55	65.70
118.00	114.80	66.74	6.20	51.40	1348.73	65.70
119.00	116.42	66.38	6.10	53.00	1380.50	65.70
120.00	115.70	66.92	6.10	55.70	1400.38	65.70
121.00	115.16	66.38	6.10	57.80	1384.79	65.60
122.00	114.08	66.38	6.00	58.90	1365.88	65.70
123.00	114.44	66.38	6.40	61.00	1379.14	65.70
124.00	113.90	66.20	6.10	63.10	1372.71	65.80
125.00	113.18	66.38	6.10	64.70	1365.69	65.90
126.00	113.54	66.38	6.10	64.70	1396.88	65.90
127.00	120.74	66.38	6.40	64.70	1361.79	65.90
128.00	114.08	66.20	6.40	61.50	1375.63	65.90
129.00	114.44	65.84	6.40	58.90	1363.74	66.00
130.00	114.08	66.20	6.40	59.40	1381.87	65.80
131.00	114.62	65.84	6.30	60.50	1364.13	65.70
132.00	115.70	66.38	6.40	61.50	1383.43	65.60
133.00	114.08	66.56	6.30	61.00	1364.91	65.50
134.00	115.16	66.38	6.60	59.40	1370.37	65.50
135.00	114.08	66.20	6.60	57.80	1381.87	65.60
136.00	114.62	65.84	6.40	58.40	1375.24	65.70
137.00	115.34	66.38	6.70	66.90	1369.78	65.70
138.00	115.34	66.38	6.60	70.60	1371.34	65.70
139.00	113.90	66.56	6.70	76.90	1383.43	65.80
140.00	113.00	65.84	6.50	85.40	1374.46	65.60
141.00	111.38	65.84	6.50	88.10	1392.59	65.50
142.00	110.48	65.66	6.50	87.60	1368.22	65.40
143.00	109.58	65.66	6.60	83.30	1383.04	65.30
144.00	108.14	65.66	6.60	89.20	1365.88	65.30
145.00	108.32	65.12	6.60	70.00	1373.68	65.20
146.00	106.52	66.92	6.60	47.20	1371.93	65.20
147.00	107.24	64.76	6.60	41.90	1373.68	65.10
148.00	109.04	64.94	6.70	41.40	1382.45	65.10
149.00	110.30	64.76	6.70	42.40	1362.18	65.10
150.00	112.46	64.58	6.80	42.90	1391.22	65.10
151.00	113.00	64.76	6.80	46.70	1368.61	65.10
152.00	113.00	68.18	6.80	50.40	1375.82	65.10
153.00	113.18	65.30	6.80	55.20	1357.70	65.10
154.00	112.82	64.94	6.90	62.60	1370.17	65.10
155.00	112.28	64.94	6.90	68.40	1365.49	65.20
156.00	111.74	64.40	6.90	71.10	1380.70	65.30
157.00	111.02	64.76	6.90	74.30	1364.52	65.40
158.00	110.48	64.58	7.00	72.70	1378.75	65.40
159.00	108.86	64.58	7.00	70.00	1378.55	65.50
160.00	108.86	64.76	7.00	71.10	1371.34	65.50
161.00	108.68	64.58	7.00	70.60	1378.16	65.50

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
162.00	108.86	64.76	7.10	72.20	1364.91	65.50
163.00	108.86	64.22	7.10	74.80	1382.06	65.40
164.00	107.78	64.22	7.10	75.40	1378.36	65.40
165.00	107.42	64.58	7.10	76.90	1380.31	65.50
166.00	107.06	64.58	7.20	79.10	1352.82	65.60
167.00	106.70	64.58	7.20	83.90	1371.54	65.60
168.00	106.34	63.86	7.20	84.90	1356.33	65.70
169.00	106.16	64.22	7.20	84.40	1390.05	65.70
170.00	105.44	63.68	7.20	84.40	1406.43	65.70
171.00	105.98	64.04	7.30	86.00	1375.04	65.60
172.00	105.44	64.04	7.30	86.50	1371.73	65.60
173.00	104.36	64.22	7.30	87.60	1365.49	65.60
174.00	104.00	63.86	7.30	88.10	1384.98	65.60
175.00	104.36	63.86	7.40	86.50	1366.08	65.60
176.00	104.36	63.68	7.40	86.50	1398.63	65.70
177.00	104.90	63.68	7.40	87.00	1367.83	65.70
178.00	105.62	63.32	7.40	88.60	1392.59	65.70
179.00	105.08	64.04	7.50	89.70	1371.54	65.70
180.00	105.08	63.86	7.50	92.90	1378.75	65.70
181.00	105.08	63.50	7.50	90.20	1373.48	65.60
182.00	104.90	63.50	7.50	89.70	1391.03	65.50
183.00	105.26	63.32	7.60	89.20	1376.02	65.50
184.00	104.90	63.32	7.60	86.00	1358.48	65.50
185.00	104.18	63.68	7.60	84.90	1369.00	65.60
186.00	104.90	63.14	7.60	85.40	1371.93	65.60
187.00	105.98	63.68	7.60	87.00	1379.14	65.80
188.00	106.52	63.50	7.70	92.40	1369.78	65.90
189.00	105.98	61.70	7.70	93.40	1379.33	65.90
190.00	105.98	63.14	7.70	93.40	1375.24	66.00
191.00	106.52	63.14	7.70	91.30	1385.76	66.00
192.00	104.54	62.96	7.80	88.60	1362.96	66.10
193.00	102.92	62.78	7.80	86.50	1392.00	66.10
194.00	102.38	63.14	7.80	84.90	1377.38	66.10
195.00	102.92	61.16	7.80	85.40	1375.82	66.10
196.00	103.82	62.78	7.80	90.80	1373.87	66.10
197.00	103.10	62.60	7.90	83.30	1377.97	66.10
198.00	103.10	62.24	7.90	64.20	1380.31	66.10
199.00	104.54	62.60	7.90	54.10	1371.93	66.10
200.00	106.70	61.52	7.90	49.90	1372.90	66.00
201.00	107.96	63.50	8.00	48.80	1362.57	65.90
202.00	110.12	62.24	8.00	45.60	1392.00	65.80
203.00	111.92	61.88	8.00	46.10	1371.34	65.80
204.00	112.46	62.24	8.00	47.20	1377.38	65.70
205.00	113.54	62.06	8.00	46.70	1364.32	65.80
206.00	113.36	62.24	8.10	47.70	1376.80	65.80
207.00	113.00	62.24	8.10	48.80	1360.23	65.80
208.00	114.08	62.06	8.10	47.70	1383.04	65.80
209.00	113.72	61.70	8.10	46.70	1381.87	65.90
210.00	113.36	61.52	8.20	36.60	1375.24	65.90
211.00	114.08	61.70	8.20	36.00	1375.24	65.90
212.00	114.62	62.06	8.20	35.50	1376.80	65.90
213.00	115.88	62.06	8.20	36.00	1393.37	66.00
214.00	115.70	61.70	8.20	37.10	1371.54	66.00
215.00	116.78	61.70	8.30	38.20	1367.64	66.00
216.00	117.14	61.52	8.30	35.00	1352.63	66.00

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
217.00	117.86	61.34	8.30	34.50	1390.64	66.00
218.00	117.86	61.70	8.30	35.50	1372.90	66.00
219.00	117.86	61.70	8.30	34.50	1410.91	66.00
220.00	123.62	61.52	8.40	33.90	1372.71	66.00
221.00	118.58	61.16	8.40	33.40	1379.14	66.00
222.00	118.22	60.98	8.40	33.40	1377.38	66.00
223.00	118.04	61.34	8.40	33.40	1368.42	66.00
224.00	117.68	61.16	8.50	33.40	1397.07	66.00
225.00	117.32	60.98	8.50	33.90	1380.89	66.00
226.00	121.10	61.70	8.50	33.90	1375.43	66.00
227.00	117.32	61.16	8.50	32.90	1368.42	66.00
228.00	117.32	60.98	8.60	32.90	1376.99	66.00
229.00	117.68	60.80	8.60	32.90	1366.86	66.00
230.00	117.86	60.62	8.60	32.90	1388.30	66.00
231.00	117.86	60.80	8.60	32.90	1373.48	66.10
232.00	117.68	60.98	8.60	32.30	1376.80	66.10
233.00	117.50	61.16	8.70	32.90	1369.59	66.10
234.00	117.32	60.62	8.70	32.90	1370.17	66.10
235.00	117.86	60.98	8.70	33.40	1378.75	66.10
236.00	117.50	60.98	8.70	32.90	1375.24	66.10
237.00	117.50	60.62	8.80	32.30	1376.80	66.10
238.00	117.32	59.54	8.80	32.90	1363.35	66.10
239.00	118.58	60.26	8.80	32.90	1380.89	66.10
240.00	118.22	60.62	8.80	32.90	1368.42	66.10
241.00	118.04	60.44	8.80	33.40	1378.16	66.00
242.00	118.22	59.90	8.90	34.50	1354.38	66.00
243.00	118.76	60.08	8.90	35.00	1376.21	66.10
244.00	118.58	59.00	8.90	35.00	1371.34	66.10
245.00	118.22	59.90	8.90	35.00	1372.51	66.10
246.00	116.96	60.26	9.00	35.00	1372.90	66.10
247.00	117.68	60.08	9.00	35.50	1368.03	66.10
248.00	117.14	59.90	9.00	35.50	1394.34	66.00
249.00	116.96	59.36	9.00	35.50	1370.95	66.00
250.00	116.78	60.26	9.10	36.00	1384.40	66.00
251.00	116.96	59.90	9.10	36.00	1369.98	66.00
252.00	116.06	59.72	9.10	37.10	1387.91	66.00
253.00	115.88	59.72	9.10	38.20	1375.43	66.00
254.00	114.80	60.08	9.20	39.80	1371.73	65.90
255.00	115.16	59.90	9.20	40.80	1365.69	65.90
256.00	114.08	59.54	9.20	42.40	1372.90	65.90
257.00	114.08	59.54	9.20	43.50	1368.42	65.90
258.00	114.08	59.54	9.30	45.60	1356.72	65.80
259.00	113.00	59.54	9.30	37.10	1380.11	65.80
260.00	113.00	59.72	9.30	35.00	1361.40	65.80
261.00	113.54	59.90	9.30	35.50	1381.67	65.90
262.00	114.62	59.54	9.40	36.60	1371.54	65.90
263.00	111.92	59.36	9.40	37.10	1372.12	65.90
264.00	114.26	59.18	9.40	39.20	1368.42	65.90
265.00	114.62	59.18	9.40	40.80	1366.47	65.90
266.00	113.90	59.18	9.50	42.40	1373.68	65.90
267.00	114.44	59.18	9.50	43.50	1381.28	65.80
268.00	113.36	59.18	9.50	45.10	1382.45	65.70
269.00	117.32	59.18	9.60	41.40	1368.61	65.70
270.00	113.36	58.64	9.60	38.20	1373.68	65.70
271.00	112.82	59.00	9.60	39.20	1364.71	65.60

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
272.00	113.36	59.00	9.60	41.40	1376.99	65.60
273.00	113.54	59.18	9.70	44.50	1362.96	65.60
274.00	113.54	59.00	9.70	45.60	1393.76	65.60
275.00	116.78	59.00	9.80	45.60	1359.45	65.50
276.00	114.08	59.18	9.80	45.60	1367.25	65.50
277.00	114.08	59.00	9.80	44.50	1360.43	65.40
278.00	113.90	59.00	9.90	44.00	1363.35	65.40
279.00	113.90	58.64	9.90	45.10	1367.05	65.40
280.00	113.72	59.18	9.90	47.70	1366.27	65.30
281.00	114.44	59.36	10.00	49.90	1365.69	65.30
282.00	114.26	59.00	10.00	57.80	1361.98	65.20
283.00	113.54	59.00	10.10	56.20	1372.90	65.40
284.00	113.00	58.46	10.10	39.80	1350.48	65.50
285.00	113.18	58.82	10.20	34.50	1366.08	65.60
286.00	114.26	59.00	10.20	35.00	1360.04	65.60
287.00	114.08	57.74	10.20	32.30	1363.54	65.60
288.00	114.62	58.64	10.30	32.90	1360.81	65.50
289.00	116.24	58.64	10.30	34.50	1370.17	65.50
290.00	116.42	58.64	10.40	37.60	1370.37	65.60
291.00	118.04	58.46	10.40	41.90	1367.05	65.70
292.00	118.22	58.64	10.40	45.60	1374.85	65.80
293.00	118.40	57.02	10.50	50.40	1356.14	65.80
294.00	118.76	59.00	10.50	56.20	1374.26	65.70
295.00	118.22	58.82	10.50	59.90	1357.70	65.70
296.00	116.96	58.46	10.60	56.80	1376.99	65.70
297.00	115.34	58.10	10.60	44.50	1351.85	65.80
298.00	117.14	57.56	10.60	42.40	1370.17	65.80
299.00	117.86	59.54	10.70	39.80	1364.52	65.80
300.00	118.76	58.64	10.70	39.20	1369.98	65.70
301.00	119.30	58.28	10.70	39.20	1380.89	65.60
302.00	119.66	58.46	10.70	38.20	1359.45	65.60
303.00	120.74	58.10	10.80	38.20	1383.04	65.60
304.00	121.46	58.10	10.80	36.00	1356.53	65.80
305.00	122.54	58.46	10.80	35.50	1377.58	65.90
306.00	123.44	58.46	10.80	35.00	1364.13	65.90
307.00	123.26	58.28	10.90	35.00	1367.44	65.80
308.00	123.26	58.46	10.90	35.00	1359.65	65.60
309.00	123.26	58.46	10.90	35.00	1374.26	65.60
310.00	123.98	57.74	11.00	34.50	1372.90	65.70
311.00	123.62	58.10	11.00	31.30	1389.66	65.70
312.00	121.10	57.92	11.00	30.20	1373.87	65.70
313.00	122.36	57.74	11.00	29.10	1351.07	65.60
314.00	123.62	58.28	11.10	29.10	1367.64	65.50
315.00	124.52	58.10	11.10	28.60	1352.82	65.50
316.00	124.16	58.10	11.10	28.10	1386.54	65.50
317.00	124.88	58.10	11.10	28.10	1392.39	65.60
318.00	129.74	57.74	11.10	28.10	1375.04	65.60
319.00	125.60	57.74	11.20	28.10	1346.59	65.70
320.00	126.14	57.56	11.20	28.10	1365.10	65.90
321.00	126.50	58.10	11.20	28.10	1365.49	65.90
322.00	125.96	58.10	11.20	28.60	1372.90	65.80
323.00	125.06	57.74	11.30	29.10	1387.52	65.70
324.00	129.56	57.38	11.30	30.20	1374.46	65.70
325.00	126.32	57.56	11.30	30.20	1381.67	65.70
326.00	126.86	57.56	11.30	28.60	1354.58	65.70

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
327.00	126.32	57.20	11.40	29.10	1383.23	65.70
328.00	127.04	57.74	11.40	28.60	1363.93	65.70
329.00	126.68	57.74	11.40	27.50	1377.97	65.70
330.00	126.86	57.74	11.40	28.10	1359.26	65.70
331.00	127.04	57.56	11.40	28.60	1375.82	65.80
332.00	127.04	57.92	11.40	28.10	1389.08	65.80
333.00	127.40	57.56	11.50	28.60	1367.83	65.70
334.00	127.94	58.10	11.50	28.60	1381.09	65.70
335.00	127.58	58.10	11.50	28.10	1376.21	65.70
336.00	127.40	56.84	11.50	28.60	1377.77	65.70
337.00	127.58	57.74	11.50	28.10	1364.91	65.70
338.00	127.22	57.20	11.60	28.10	1384.60	65.60
339.00	127.58	57.02	11.60	29.10	1364.13	65.60
340.00	127.04	57.38	11.60	29.70	1377.77	65.70
341.00	126.68	57.74	11.60	28.10	1365.10	65.80
342.00	126.50	56.48	11.60	27.50	1375.43	65.80
343.00	127.58	57.74	11.70	27.00	1371.73	65.80
344.00	127.22	57.20	11.70	27.00	1381.28	65.70
345.00	126.68	56.84	11.70	27.00	1364.71	65.80
346.00	127.94	57.02	11.70	27.00	1373.29	65.80
347.00	127.76	56.84	11.70	27.00	1374.26	65.90
348.00	127.76	57.92	11.80	27.50	1360.04	65.80
349.00	127.04	57.92	11.80	27.00	1378.75	65.80
350.00	126.86	57.02	11.80	26.50	1358.09	65.70
351.00	127.40	57.74	11.80	26.50	1380.70	65.80
352.00	127.22	56.84	11.80	27.00	1369.00	65.80
353.00	127.40	56.84	11.80	26.50	1373.48	65.80
354.00	127.58	57.02	11.90	26.50	1372.51	65.80
355.00	127.22	57.20	11.90	27.00	1384.21	65.70
356.00	127.58	57.38	11.90	27.00	1365.69	65.80
357.00	127.04	57.02	11.90	27.50	1370.37	65.80
358.00	128.66	56.84	11.90	27.50	1366.66	65.70
359.00	128.84	57.02	12.00	27.50	1391.42	65.60
360.00	128.84	56.66	12.00	28.60	1380.11	65.60
361.00	123.98	57.20	12.00	27.50	1361.79	65.70
362.00	126.86	56.66	12.00	27.00	1367.64	65.70
363.00	128.30	57.38	12.00	27.00	1356.92	65.70
364.00	128.30	57.20	12.10	25.90	1376.41	65.70
365.00	128.66	57.20	12.10	26.50	1368.42	65.70
366.00	128.48	56.66	12.10	25.90	1407.99	65.70
367.00	131.72	56.84	12.10	26.50	1365.10	65.70
368.00	129.20	56.66	12.10	26.50	1373.48	65.50
369.00	129.92	57.20	12.20	27.00	1357.50	65.40
370.00	129.92	57.02	12.20	27.50	1375.24	65.50
371.00	129.20	57.02	12.20	28.10	1374.85	65.50
372.00	128.84	56.48	12.20	29.10	1392.78	65.40
373.00	136.40	56.84	12.20	30.70	1357.89	65.40
374.00	129.38	56.48	12.30	29.10	1385.57	65.40
375.00	129.20	56.48	12.30	29.70	1369.59	65.60
376.00	129.92	56.84	12.30	28.60	1365.10	65.70
377.00	128.66	56.30	12.30	26.50	1381.48	65.70
378.00	127.58	56.48	12.40	25.90	1356.53	65.60
379.00	127.04	56.66	12.40	25.90	1380.70	65.70
380.00	127.40	56.48	12.40	26.50	1356.33	65.70
381.00	128.30	56.66	12.40	26.50	1384.01	65.70

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrc(lbs)	Rotat(RPM)
382.00	128.12	56.66	12.50	27.50	1362.96	65.60
383.00	127.40	57.20	12.50	27.00	1377.58	65.60
384.00	127.94	57.02	12.50	25.90	1364.13	65.70
385.00	128.66	56.30	12.50	25.40	1374.07	65.70
386.00	129.38	56.48	12.50	25.40	1360.04	65.70
387.00	129.20	56.48	12.60	25.40	1378.94	65.70
388.00	129.20	56.30	12.60	25.90	1371.93	65.70
389.00	128.84	56.48	12.60	25.90	1363.35	65.80
390.00	128.30	56.30	12.70	26.50	1381.67	65.80
391.00	128.48	55.94	12.70	26.50	1369.59	65.70
392.00	128.30	56.48	12.70	25.40	1386.15	65.60
393.00	129.56	55.94	12.70	25.40	1354.77	65.70
394.00	130.10	56.12	12.80	25.90	1379.92	65.70
395.00	130.28	56.12	12.80	25.40	1357.89	65.60
396.00	130.82	56.12	12.80	25.40	1373.68	65.60
397.00	131.18	56.66	12.90	25.90	1360.23	65.70
398.00	130.28	56.66	12.90	26.50	1365.49	65.70
399.00	129.92	56.48	12.90	26.50	1359.06	65.80
400.00	129.92	56.48	12.90	27.00	1369.98	65.90
401.00	130.82	56.12	13.00	27.00	1356.53	65.90
402.00	132.44	56.48	13.00	28.10	1381.09	65.90
403.00	131.72	56.30	13.00	28.60	1366.86	65.80
404.00	131.54	56.12	13.00	28.60	1355.55	65.70
405.00	131.90	56.48	13.10	25.90	1373.87	65.80
406.00	131.18	56.12	13.10	25.90	1350.48	65.80
407.00	131.54	56.30	13.10	25.40	1372.12	65.90
408.00	131.54	55.94	13.10	24.90	1362.18	65.90
409.00	131.72	56.12	13.20	24.90	1391.61	65.90
410.00	127.94	56.48	13.20	25.40	1359.26	65.80
411.00	131.36	56.48	13.20	25.90	1373.29	65.70
412.00	131.72	56.84	13.20	25.90	1358.09	65.60
413.00	131.90	56.48	13.30	27.00	1373.29	65.60
414.00	130.46	56.12	13.30	25.40	1361.98	65.50
415.00	131.36	56.12	13.30	24.90	1405.65	65.50
416.00	129.74	55.94	13.30	25.40	1374.46	65.40
417.00	131.72	56.48	13.40	26.50	1357.31	65.40
418.00	132.08	56.48	13.40	28.10	1363.74	65.30
419.00	132.26	56.48	13.40	29.10	1355.16	65.30
420.00	132.08	56.48	13.50	30.70	1372.32	65.30
421.00	131.18	56.30	13.50	31.80	1378.55	65.30
422.00	139.64	56.30	13.50	31.80	1384.01	65.30
423.00	132.08	56.30	13.50	28.60	1358.67	65.30
424.00	131.90	56.48	13.60	28.10	1370.56	65.20
425.00	132.44	56.48	13.60	28.60	1371.73	65.30
426.00	131.90	56.12	13.60	29.10	1373.68	65.30
427.00	132.26	55.76	13.60	28.10	1361.98	65.40
428.00	131.00	56.12	13.60	25.90	1376.99	65.40
429.00	130.64	55.76	13.70	24.90	1359.45	65.40
430.00	130.64	55.94	13.70	24.90	1379.33	65.50
431.00	130.28	56.12	13.70	24.90	1384.21	65.40
432.00	130.82	56.30	13.70	25.40	1371.73	65.40
433.00	131.36	56.12	13.80	25.90	1375.43	65.40
434.00	132.08	56.66	13.80	26.50	1354.38	65.40
435.00	132.08	55.58	13.80	25.40	1378.55	65.30
436.00	131.54	55.94	13.80	25.90	1365.69	65.40

Ignitability Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
437.00	131.54	55.94	13.80	26.50	1383.82	65.30
438.00	131.00	56.66	13.90	27.00	1358.87	65.20
439.00	131.90	56.30	13.90	28.10	1375.24	65.20
440.00	132.98	56.48	13.90	28.60	1364.71	65.30
441.00	133.16	58.10	14.00	29.10	1368.42	65.30
442.00	132.98	55.58	14.00	29.10	1357.11	65.20
443.00	132.98	55.58	14.00	29.10	1376.41	65.20
444.00	132.26	55.58	14.10	29.10	1356.72	65.30
445.00	131.54	55.58	14.10	29.10	1364.52	65.30
446.00	132.80	55.58	14.10	30.20	1357.70	65.30
447.00	132.62	59.00	14.20	30.70	1359.26	65.30
448.00	132.80	56.30	14.20	30.20	1369.78	65.30
449.00	132.80	55.94	14.30	28.10	1363.93	65.40
450.00	131.36	55.76	14.30	25.90	1369.78	65.40
451.00	129.92	55.40	14.30	24.90	1358.09	65.50
452.00	130.28	56.48	14.40	24.90	1366.08	65.60
453.00	131.00	56.48	14.40	25.40	1348.92	65.60
454.00	130.46	56.30	14.40	24.40	1371.93	65.60
455.00	130.64	55.76	14.50	24.40	1350.87	65.60
456.00	131.00	56.30	14.50	24.40	1384.21	65.60
457.00	131.54	56.66	14.50	25.40	1346.00	65.50
458.00	131.90	56.30	14.60	26.50	1380.31	65.50
459.00	130.82	55.94	14.60	27.50	1367.83	65.50
460.00	130.64	56.30	14.60	29.10	1368.03	65.50
461.00	131.54	56.30	14.70	27.50	1362.18	65.50
462.00	131.18	56.12	14.70	25.40	1354.77	65.50
463.00	131.18	55.76	14.70	24.90	1363.54	65.60
464.00	131.54	56.12	14.70	23.30	1373.29	65.60
465.00	129.38	55.94	14.80	23.30	1415.59	65.60
466.00	131.72	56.66	14.80	23.30	1360.62	65.60
467.00	133.16	56.48	14.80	23.80	1369.00	65.70
468.00	133.34	56.12	14.80	24.90	1353.02	65.60
469.00	134.24	55.94	14.90	25.90	1374.26	65.60
470.00	134.24	55.94	14.90	25.90	1382.45	65.70
471.00	134.96	55.94	14.90	25.40	1401.36	65.70
472.00	135.32	55.94	15.00	25.40	1362.57	65.70
473.00	135.68	56.12	15.00	26.50	1367.44	65.70
474.00	135.50	56.12	15.10	27.00	1350.68	65.70
475.00	135.14	55.94	15.10	28.10	1360.43	65.70
476.00	135.86	56.30	15.10	28.60	1361.59	65.90
477.00	135.68	55.94	15.20	29.70	1369.39	66.00
478.00	135.68	56.12	15.20	29.70	1360.23	66.10
479.00	135.32	56.30	15.30	30.70	1361.59	66.10
480.00	135.32	56.30	15.30	30.20	1364.13	66.30
481.00	135.14	56.66	15.30	29.70	1354.38	66.30
482.00	136.40	56.30	15.40	30.20	1367.44	66.30
483.00	135.50	56.66	15.40	30.70	1364.52	66.20
484.00	135.14	53.24	15.40	25.90	1380.70	66.20
485.00	134.24	56.12	15.40	23.30	1356.33	66.10
486.00	134.24	56.12	15.50	22.20	1378.36	66.10
487.00	133.52	55.94	15.50	21.70	1352.82	66.10
488.00	134.06	56.48	15.60	21.70	1370.37	66.00
489.00	134.06	56.48	15.60	22.20	1346.59	66.00
490.00	133.52	54.50	15.60	22.80	1369.98	65.90
491.00	134.24	55.94	15.70	24.40	1333.53	65.80

Ignitibility Testing Results

Time(Sec)	Bit Temp (F)	PrgTemp (F)	Bdepth(in)	Purge(psi)	Dfrce(lbs)	Rotat(RPM)
492.00	134.60	56.12	15.80	25.90	1362.18	65.80
493.00	134.78	55.94	15.80	26.50	1371.34	65.80
494.00	134.96	56.48	15.80	27.00	1366.86	65.90
495.00	134.78	55.58	15.90	27.50	1373.48	66.00
496.00	134.60	60.62	15.90	28.60	1362.76	66.00
497.00	137.12	56.30	16.00	28.60	1368.81	66.00
498.00	135.14	55.94	16.00	29.10	1341.13	66.00
499.00	134.24	55.94	16.10	29.70	1362.18	66.00
500.00	134.06	55.76	16.20	29.10	1332.55	66.00
501.00	134.06	56.30	16.30	27.50	1357.31	66.10
502.00	133.88	56.30	16.40	25.40	1335.28	66.10
503.00	133.52	55.94	16.50	25.40	1349.12	66.10
504.00	133.34	55.94	16.60	28.60	1320.27	66.10
505.00	134.06	56.30	16.70	31.30	1338.01	66.00
506.00	134.24	56.66	16.80	29.10	1330.41	66.00
507.00	134.60	56.30	16.90	30.70	1336.84	66.00
508.00	133.70	56.48	17.10	29.70	1332.75	66.00
509.00	133.34	56.48	17.20	33.90	1319.49	66.00
510.00	133.52	56.30	17.40	37.60	1298.64	65.90
511.00	132.26	56.30	17.60	43.50	1302.14	65.90
512.00	130.64	55.94	17.70	45.60	1304.48	65.90
513.00	129.92	56.12	17.90	44.50	1335.87	66.10
514.00	129.92	56.30	17.90	45.60	1365.49	66.10
515.00	131.54	56.30	18.00	49.30	1328.07	66.10
516.00	130.82	56.66	18.10	51.40	1334.31	66.10
517.00	130.46	56.48	18.20	54.60	1330.80	66.00
518.00	129.38	56.48	18.40	58.90	1331.38	65.90
519.00	128.12	56.30	18.50	62.60	1326.12	65.90
520.00	128.66	56.66	18.60	65.80	1342.88	65.90
521.00	128.84	56.66	18.70	66.90	1335.09	65.90
522.00	128.66	56.48	18.80	66.30	1347.76	65.90
523.00	129.20	56.84	18.90	65.80	1340.93	66.00
524.00	128.84	56.12	19.00	64.20	1360.23	66.00
525.00	128.12	56.12	19.10	64.20	1310.72	66.00
526.00	126.86	56.30	19.10	62.60	1378.94	66.30
527.00	123.44	56.48	19.10	58.90	1347.56	66.70