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Tight Gas Reservoirs - A Visual Depiction

Topical Report

Work Performed Under Contract No.: DE-AC21-91MC28130

For
U.S. Department of Energy
Office of Fossil Energy
Morgantown Energy Technology Center
P.O. Box 880
Morgantown, West Virginia 26507-0880

By
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December 1993

GAS PRODUCTION EXAMPLES FROM LOW PERMEABILITY RESERVOIRS

Future gas supplies in the U.S. will depend on an increasing contribution from unconventional sources such as overpressured and tight gas reservoirs. Exploitation of these resources and their conversion to economically producible gas reserves represents a major challenge. Meeting this challenge will require not only the continuing development and application of new technologies, but also a detailed understanding of the complex nature of the reservoirs themselves. This report seeks to promote understanding of these reservoirs by providing examples.

The following are examples of gas productive overpressured tight reservoirs in the Greater Green River Basin, Wyoming. These examples show log data (raw and interpreted), well completion and stimulation information, and production decline curves. A sampling of wells from the Lewis and Mesaverde formations are included. Both poor and good wells have been chosen to illustrate the range of productivity that is observed.

The second section of this document displays decline curves and completion details for 30 of the best wells in the Greater Green River Basin. These are included to illustrate the potential that is present when wells are fortuitously located with respect to local stratigraphy and natural fracturing, and are successfully hydraulically fractured.

This data set has been prepared from information collected by Scotia as part of a DOE sponsored project under contract DE-AC21-MC21436. This project is entitled "Reserves in Western Basins" and investigates the reserve potential of overpressured, tight gas reservoirs in three Rocky Mountain Basins. The Greater Green River Basin was studied as the first part of this project and a final report on this work will be available in early 1994. Work is continuing on the Uinta Basin during 1994 and will be commenced on the Piceance Basin in 1995. The data used to construct this report has been obtained from public domain sources and from the NPS and WHCS databases of Petroleum Information Corporation. Petroleum Information Corporation is gratefully acknowledged for consenting to the use of their data in this report.

SECTION 1

FILE: 8-19-91

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204760000	262	24743	21490	5 2	101	604MVRD	604LWIS	9600 12 79	
SECTION		TOWNSHIP		RANGE		--SPOT--			
8		N 19		W 91		E2 SE			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
New field wildcat		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.66628	41.63311	8	N 19	W 91	1320 FSL 1317 FEL		E2 SE
OPERATOR		LEASE NAME		WELL NUMBER					
CURR DAVIS OIL		PORTER-FEDERAL		1					
---REFERENCE---		FIELD		---LEASE---		DATES-----		HOLE	
OPERATOR		GROUND NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
7158 GR FILMORE				05/27/1979		09/19/1979		ROTARY	
HOLE		FINAL							
CHANGE		CH4 STATUS		GAS					
---PROJECTED---		TOTAL DEPTH-----							
DEPTH FORMATION CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD ZONE CODE	
9600 604MVRD NORTON		9600				8750		604MVRD	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	516	300	01						2 3/8 8180
5 1/2	9593	790	03						
-----DRILL STEM TESTS-----		-----FORMATION TESTS-----							
TYPE INTERVAL	FORMATION	CUSHION TYPE	SHOW OPSEQ	MATL	TIME TO SURF	RATE	TIMEOPEN	IFP	FFP
8249- 8365	604LWIS		002				0H10M		
ISIP	FSIP	IHP	FHP						
1023	1063	4084	400						
-----TOPS AND BASES-----									
TYPE	FORMATION	DEPTH							
LOG TOPS	604LNCE	4946							
LOG TOPS	604FXHL	6328							
LOG TOPS	604LWIS	6622							
LOG TOPS	604LWIS	8256							
LOG TOPS	604MVRD	8940							
SAMPLE TOPS	604LNCE	4932							
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	107	280	%	19/64		604LWIS	PERF	JET	1
INTERVAL	OPSEQ								
8348- 8370	005								
-----INITIAL POTENTIAL TREATMENT-----									
TYPE INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS
SEFR 8348- 8370	1435BBLs		480LBS	SAND					36 BALL SLRS
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
	AVC								
	GR								
	DN								
	NEC								
	ILD

0 Bad Hole Flag 20
6 --- Caliper --- 16
0 --- Gamma Ray --- 150
0 75 150

DEPTH

8250

8300

8350

8400

1.00 — Sw — -1.0
0.30 - - - Phi.Sw - - - 0.00
0.30 - - - Phi.Sxo - - - 0.00
0.00 - - - Vclay minimum - - - 2.00
0.30 — Effective Porosity — 0.00
0.30 0.15 0.00

10⁻⁵ - - - Permeability (Alt) - - - 0.1
10⁻⁵ — Permeability (Kukal) — 0.1
10⁻⁵ 10⁻⁴ .001 0.01 0.1

FILE: 8-19-91

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : PORTER FEDERAL 1 / 027105		WELL ID/COUNT : 24 / 1	
FIELD NAME : 24743 FILLMORE		OIL/GAS/WATER : GAS	
OPERATOR NAME : LEVINSON PARTNERS CORPORATION		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204760000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0416330610766661		SECT/TWNSH/RNGE/SP : 008/019N/091W/SE	
ZONE NAME : NO		RE3 CODE/COM CODE : 04 / 5	
HORIZ. WELL ON LEASE : 9600 FT		FIRST WELL NUMBER : 8348 - 8370 FT	
TOTAL DEPTH : 78		AV UPP-LWR PERFS : 8348 - 8370 FT	
DATE DISCOVERED : 0.00 MBSL		DATE COMPLETED : OCT 19	
HISTORIC CUM OIL : 0.00 MMCF		CUM DATE : OCT 92	
HISTORIC CUM GAS : 0.00 MBSL		CUM DATE : OCT 92	
CURRENT CUM OIL : 18.9 MBSL		CUM DATE : OCT 92	
CURRENT CUM GAS : 76.1 MMCF		CUM DATE : OCT 92	
CURRENT CUM WATER : 1.2 MBSL		CUM DATE : OCT 92	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP SEP 79 : 280 MCFD 0 BWPD/ 1100 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 18.0 MCFD		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.085 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : UNECONOMIC	

PREPARED BY THE SCOTIA GROUP, INC.

S.S.L. FRI FEB 11 1994 17:43:45

6 --- Caliper --- 16
0 --- Gamma Ray --- 150
0 75 150

DEPTH

9950

10000

10050

10100

0.1 --- Deep Induction --- 1000
0.1 --- Medium Induction --- 1000
0.1 --- SFL Resistivity --- 1000 100 --- BHC Sonic msec/ft --- 40
0.1 1 10 100 1000 100 70 40

FILE: 272497LW

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP										
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION	TOWNSHIP	RANGE	--SFOT--				
49037208590000	262	34650	21490	6 2	101	609CRCS	604LWIS	11914 9 77	27	N 24	W 97	NW SE				
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS												
Development well		Gas well		Producer: 1 GAS Zone												
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--							
WYO	SWEETWTR	108.36652	42.02280	27	N 24	W 97	1980 FSL 1982 FEL		NW SE							
OPERATOR		LEASE NAME		WELL NUMBER												
CURR DAVIS OIL		UNIT		5												
---REFERENCE---		FIELD		---LEASE---		-----DATES-----		HOLE		FINAL						
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS		CHANGE CH4		STATUS				
6813 KB		6791 GR HAY RESERVOIR				02/09/1977		08/23/1977		ROTARY		GAS				
---PROJECTED---		TOTAL DEPTH---														
DEPTH	FORMATION	CONTRACTOR	DRILLER	LOG	PLUG BACK	OLD	ZONE CODE									
11000	604MVRD	BRINKERHOFF	11914	11900	10760		609CRCS									
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA												
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH						
10 3/4	765	700	01						2 7/8	9780						
7 5/8	10776	835	06													
-----DRILL STEM TESTS-----		-----FORMATION TESTS-----														
TYPE	INTERVAL	FORMATION	CUSHION	TYPE	SHOW	OPSEQ	MATL	TIME TO SURF	RATE	TIMEOPEN	IFP	FFP	ISIP	FSIP	IHP	FHP
	9990-10245	604LWIS		REVOUT	S	005	GAS	04M	234 MCFD	0H06M	1163	1163	6439		6892	692
-----TOPS AND BASES-----																
TYPE	FORMATION	DEPTH														
LOG TOPS	604LNCE	7034														
LOG TOPS	604LWIS	8443														
LOG TOPS	604MVRD	10378														
SAMPLE TOPS	604LWIS	8367														
SAMPLE TOPS	604MVRD	10394														
-----CORE DATA-----																
CORE ID	INTERVAL	RECOVERY	ZONE	TYPE	SHOW	OPSEQ										
CORE 01	9982-10042	57.00FT	604LWIS			002										
CORE 02	10820-10821	00.00FT	604MVRD			003										
CORE 03	10873-10874	00.25FT	604MVRD			004										
-----INITIAL POTENTIAL TESTS-----																
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ					
1	61	4930	%	16/64		604LWIS	PERF	JET	1	9972-10030	009					
-----INITIAL POTENTIAL TREATMENT-----																
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS						
SEFR	9972-10030															
-----PRODUCTION TESTS-----																
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ					
1	3059		%	16/64		604LWIS	PERF	JET	1	9972-10030	007					
2	6096		%	16/64		604LWIS	PERF	JET	1	9972-10030	008					
-----PRODUCTION TESTS TREATMENT-----																
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS						
SEFR	9972-10030	201558GALS		325000LBS	SAND		30			@ 6400 PSI						

<continued on following page>

0 Bad Hole Flag 20
6 - - - - - Caliper - - - - - 16
0 - - - - - Gamma Ray - - - - - 150
0 75 150

DEPTH

9950

10000

10050

10100

1.00 — Sw — -1.0
0.30 - - - - - Phi.Sw - - - - - 0.00
0.30 - - - - - Phi.Sxo - - - - - 0.00
0.00 - - - - - Vclay minimum - - - - - 2.00
0.30 - - - - - Effective Porosity - - - - - 0.00
0.30 0.15 0.00

10⁻⁵ - - - - - Permeability (Alt) - - - - - 0.1
10⁻⁵ - - - - - Permeability (Kukal) - - - - - 0.1
10⁻⁵ 10⁻⁴ .001 0.01 0.1

FILE: 272497LW

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : HAY RESERVOIR UT / 022383		WELL ID/COUNT : 46 / 1	
FIELD NAME : 3485OHAY RESERVOIR		OIL/GAS/WATER : GAS	
OPERATOR NAME : PRESIDIO OIL COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037208590000	COUNTY/STATE : SWEETWTR WYOMING		
COORDINATES : 0420229810836539	SECT/TWNSH/RNGE/SP : 027/024N/097W/NWSE		
ZONE NAME : NO	RES CODE/COM CODE : 80 / 500		
HORL WELL ON LEASE : 11914 FT	FIRST WELL NUMBER : 9972	5	
TOTAL DEPTH : 76	AV UPP-LWR PERFS : -10030 FT		
DATE DISCOVERED : 0.0 MBBL	DATE COMPLETED : FEB 93		
HISTORIC CUM OIL : 0.0 MMCF	CUM DATE : FEB 93		
HISTORIC CUM GAS : 109.9 MBBL	CUM DATE : FEB 93		
HISTORIC CUM WATER : 6054.1 MMCF	CUM DATE : FEB 93		
CURRENT CUM OIL : 5.1 MBBL	CUM DATE : FEB 93		
CURRENT CUM GAS : 5.1 MBBL	CUM DATE : FEB 93		
CURRENT CUM WATER : 5.1 MBBL	CUM DATE : FEB 93		
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP AUG 77 : 4930 MCFD 0 BOPD/ 4000 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 1328	INIT/FINAL DECLINE : 0.093 / 0.050	INITIAL GOR/YIELD : 0.0 BBL/MMCF	
START DATE : MAR 93		HYPERBOLIC EXPONENT : 39 YRS 10 MNTHS	
REMAINING GAS : 5449.3	MMCF	E.U.R. GAS : 12503.4	MMCF

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S.S.L. FRI FEB 11 1994 11:28:51

6 --- Caliper --- 16
0 --- Gamma Ray --- 150
0 75 150

DEPTH

10000

10050

10100

10150

0.1 Deep Induction 1000
0.1 --- Medium Induction --- 1000
0.1 --- SFL Resistivity --- 1000 1.95 Bulk Density gm/cc 2.95
0.1 1 10 100 1000 1.95 2.20 2.45 2.70 2.95

FILE: 21-24-97

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49037209970000	262	34650	21490	6	2	101	604MVRD	604LWIS	10376 10 82
SECTION		TOWNSHIP		RANGE		--SPOT--			
21		N 24		W 97		NW SE			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	SWEETWTR	108.38713	42.03719	21	N 24	W 97	1980 FSL 2180 FEL		NW SE
OPERATOR		LEASE NAME		WELL NUMBER					
CURR DAVIS OIL		UNIT		8					
---REFERENCE---		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6858 KB		6836 GR		HAY RESERVOIR		05/17/1977		08/29/1977 ROTARY	
								GAS	
---PROJECTED---		-----TOTAL DEPTH-----							
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
10600 604MVRD		BRINKERHOFF DRLG		10372		10376 10312		604MVRD	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
10 3/4	790	400	01						2 3/8 9835
5 1/2	10353	300	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LWIS		8543					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	125	4740	%	16/64	24	604LWIS	PERF	JET	1 10038-10086
									003
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SGFR	10038-10086	204330GALS		75000LBS	SAND				REMARKS
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
	TM

0 Bad Hole Flag 20
 6 - - - - - Caliper - - - - - 16
 0 - - - - - Gamma Ray - - - - - 150
 0 75 150

DEPTH

10000

10050

10100

10150

1.00 — Sw — -1.0
 0.30 - - - - - Phi.Sw - - - - - 0.00
 0.30 - - - - - Phi.Sxo - - - - - 0.00
 0.00 - - - - - Vclay minimum - - - - - 2.00
 0.30 - - - - - Effective Porosity - - - - - 0.00
 0.30 0.15 0.00 10⁻⁵ 10⁻⁴ .001 0.01 0.1

FILE: 21-24-97

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : HAY RESERVOIR UT / 025083		WELL ID/COUNT : 51 / 1	
FIELD NAME : 34850 HAY RESERVOIR		OIL/GAS/WATER : GAS	
OPERATOR NAME : PRESIDIO OIL COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037209870000		COUNTY/STATE : SWEETWATER WYOMING	
COORDINATES : 0420373710838663		SECT/TWNSH/RNGE/SP : 021/024N/097W/NWSE	
ZONE NAME : 10375 NO FT		RES CODE/COM CODE : 4 6 / 5	
HORIZ. WELL ON LEASE : 10375 NO FT		FIRST WELL NUMBER : 10038 - 10085 FT	
TOTAL DEPTH : 10375 NO FT		AV. UPP-LWR PERFS : 10038 - 10085 FT	
DATE DISCOVERED : 76		DATE COMPLETED : FEB 19 93	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 33.2 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 3055.2 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 0.4 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP AUG 77 : 4740 MCFD 0 BWPD/ 3600 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 0.0 MCFD		INITIAL GOR/YIELD : 17.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.630		HYPERBOLIC EXPONENT : 0.000	
START DATE : MAR 93		LIFE (UNESCAL CASE) : UNECONOMIC

FILE: 13-26-97

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49037214970000	262	66875	21490	6 2	101	604LWIS	604LWIS	13725 7 80	
SECTION		TOWNSHIP		RANGE		--SPOT--			
13		N 26		W 97		SW NE			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	SWEETWTR	108.34988	42.22909	13	N 26	W 97	1980 FNL 1990 FEL		SW NE
OPERATOR		LEASE NAME		WELL NUMBER					
CURR DAVIS OIL		PICKET LAKE		5					
---REFERENCE---		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
7150 KB		7149 GR		PICKET LAKE		08/03/1979		07/09/1980 ROTARY	
								CHANGE CH4 STATUS	
								GAS	
---PROJECTED---				-----TOTAL DEPTH-----					
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
13900 604LWIS		RIO GRANDE		13725		13660		604LWIS	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	1926	1100	01						
5 1/2	13725	290	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		619FRUN		4350					
LOG TOPS		604LNCE		8194					
LOG TOPS		604LWIS		13016					
LOG TOPS		604LWIS		13534					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS PERFS/FT	INTERVAL OPSEQ
1	22	527	%	/64		604LWIS	PERF	18 13545-13613	005
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES REMARKS
SGFR	13545-13613								
-----PRODUCTION TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS PERFS/FT	INTERVAL OPSEQ
1	170		%	24/64	24	604LWIS	PERF	18 13545-13613	003
2	182		%	20/64		604LWIS	PERF	18 13545-13613	004
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES REMARKS
SGFR	13545-13613	83950GALS		105000LBS	SAND				20/40 SD
COND	13545-13613	300BBLS							
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
300- 1950	CB								
300- 1950	GR								
	ILD								
	AV								
	NEC								
	DN								

SCOTIALOG: Conventional Interpretation

DAVIS OIL PICKET LAKE #5 API #49037214970000

Client: U.S. DEPARTMENT OF ENERGY

0 Bad Hole Flag 20
 6 - - - - - Caliper - - - - - 16
 0 - - - - - Gamma Ray - - - - - 150
 0 75 150

DEPTH

13500

13550

13600

13650

1.00 — Sw — -1.0
 0.30 - - - - - Phi.Sw - - - - - 0.00
 0.30 - - - - - Phi.Sxo - - - - - 0.00
 0.00 - - - - - Vclay minimum - - - - - 2.00
 0.30 - - - - - Effective Porosity - - - - - 0.00
 0.30 0.15 0.30

10⁻⁵ - - - - - Permeability (Alt) - - - - - 0.1
 10⁻⁵ - - - - - Permeability (Kukal) - - - - - 0.1
 10⁻⁵ 10⁻⁴ .001 0.01 0.1

FILE: 13-26-97

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : PICKET LAKE UT 5 / 027666		WELL ID/COUNT : 89 / 1	
FIELD NAME : 86875 PICKET LAKE		OIL/GAS/WATER : GAS	
OPERATOR NAME : H P C INCORPORATED		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037214970000		COUNTY/STATE : SWEETWATER WYOMING	
COORDINATES : 0422287910834988		SECT/TWNSH/RNGE/SP : 013/026N/097W/SWNE	
ZONE NAME : H P C INCORPORATED		RES CODE/COM CODE : 804 / 900	
HORIZ WELL ON LEASE : 13725 FT		FIRST WELL NUMBER : 13545	
TOTAL DEPTH : 78		AV UPP-LWR PERFS : 13545 -- 13513 FT	
DATE DISCOVERED : 0.0 MBSL		DATE COMPLETED : OCT 81	
HISTORIC CUM OIL : 0.0 MMCF		CUM DATE : OCT 81	
HISTORIC CUM GAS : 0.0 MBSL		CUM DATE : OCT 81	
HISTORIC CUM WATER : 0.7 MBSL		CUM DATE : OCT 81	
CURRENT CUM OIL : 0.0 MMCF		CUM DATE : OCT 81	
CURRENT CUM GAS : 0.1 MBSL		CUM DATE : OCT 81	
CURRENT CUM WATER : 0.1 MBSL		CUM DATE : OCT 81	
RECENT ALLOWABLE & TEST DATA			
RATE/FTP JUL 80 : 527 MCFC		0 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 0.0 MCFC		INITIAL GOR/YIELD : 1104.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.800		HYPERBOLIC EXPONENT : 0.000	
START DATE : MAR 93		LIFE (UNESCAL CASE) : UNECONOMIC	

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S.S.L. THU DEC 09 1993 16:37:03

FILE: 22-10-94

Scotia Group Proprietary Systems

FRI FEB 11 1994

6 --- Caliper --- 16
0 --- Gamma Ray --- 150
0 75 150

DEPTH

0.1 Deep Induction 1000
0.1 --- Medium Induction --- 1000
0.1 --- SFL Resistivity --- 1000 100 --- BHC Sonic msec/ft --- 40
0.1 1 10 100 1000 100 70 40

7700

7750

7800

FILE: 22-10-94

Scotia Group Proprietary Systems

FRI FEB 11 1994

FILE: 22-10-94

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP										
API NUMBER	PROVINCE	FIELD OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION	TOWNSHIP	RANGE	--SPOT--					
05081060350000	262	6480	79905	5 2	101	604MVRD	604LWIS	9492	3 68	22 N 10 W 94	C NE NE					
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS												
New field wildcat		Gas well		Producer: 1 GAS Zone												
STATE COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--								
COLO MOFFAT	107.92694	40.81736	22	N 10	W 94	660 FNL 660 FEL		C NE NE								
OPERATOR		LEASE NAME		WELL NUMBER												
CURR SKELLY OIL		FEDERAL-C		1												
---REFERENCE---		FIELD		---LEASE---		-----DATES-----		HOLE		FINAL						
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS		CHANGE CH4 STATUS						
6745 KB		6733 GR BIG HOLE		11/27/1967		02/24/1968		ROTARY		GAS						
---PROJECTED---				-----TOTAL DEPTH-----												
DEPTH FORMATION CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE CODE						
9600 604MVRD R L MANNING		9492		9458		7896				604MVRD						
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA								
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH						
10 3/4	514	500	01													
5 1/2	7967	400	07													
-----DRILL STEM TESTS-----				-----FORMATION TESTS-----												
TYPE	INTERVAL	FORMATION	CUSHION	TYPE	SHOW	OPSEQ	MATL	TIME TO SURF	RATE	TIMEOPEN	IFP	FFP	ISIP	FSIP	IHP	FHP
	4416- 4438	652WSTC				002				0H30M			1837	1822	2213	219
	7015- 7057	604LNCE				003							2838	2733	3466	342
	7729- 7792	604LWIS		S		004								2202		
	7829- 7897	604LWIS		S		005	GAS	04M		0H15M			2740	2743	3799	372
	9013- 9115	604MVRD				006							300	206	4728	470
-----TOPS AND BASES-----																
TYPE	FORMATION		DEPTH													
LOG TOPS	619FRUN		5128													
LOG TOPS	604LNCE		6327													
LOG TOPS	604LWIS		7240													
LOG TOPS	604LWIS		7536													
LOG TOPS	604MVRD		8950													
SAMPLE TOPS	652HWTH		2140													
SAMPLE TOPS	619FRUN		5128													
SAMPLE TOPS	604LNCE		6328													
-----INITIAL POTENTIAL TESTS-----																
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ					
1	1100		%	16/64		604LWIS	PERF			7536- 7856	013					
-----INITIAL POTENTIAL TREATMENT-----																
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS						
SWFR 7818- 7856																
-----PRODUCTION TESTS-----																
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ					
1	516		%	164	15	604LWIS	PERF		2	7818- 7856	008					
2	0		%	164		604LWIS	PERF		2	7747- 7770	009					
3	0		%	164		604LWIS	PERF		2	7747- 7770	010					
4	825		%	164	23	604LWIS	PERF			7700- 7743	011					
5	777		%	164	16	604LWIS	PERF			7536- 7590	012					

<continued on following page>

0 Bad Hole Flag 20
6 - - - - - Caliper - - - - - 16
0 - - - - - Gamma Ray - - - - - 150
0 75 150

DEPTH

7500

7550

7600

7650

1.00 — Sw — -1.0
0.30 - - - - - Phi.Sw - - - - - 0.00
0.30 - - - - - Phi.Sxo - - - - - 0.00
0.00 - - - - - Vclay minimum - - - - - 2.00
0.30 - - - - - Effective Porosity - - - - - 0.00
0.30 0.15 0.00

10⁻⁵ - - - - - Permeability (Alt) - - - - - 0.1
10⁻⁵ - - - - - Permeability (Kukal) - - - - - 0.1
10⁻⁵ 10⁻⁴ 001 0.01 0.1

FILE: 22-10-94

Scotia Group Proprietary Systems

FRI FEB 11 1994

0 Bad Hole Flag 20
 6 ---- Caliper ---- 16
 0 ---- Gamma Ray ---- 150
 0 75 150

DEPTH

1.00 ---- Sw ---- -1.0
 0.30 ---- Phi.Sw ---- 0.00
 0.30 ---- Phi.Sxo ---- 0.00
 0.00 ---- Vclay minimum ---- 2.00
 0.30 ---- Effective Porosity ---- 0.00

10⁻⁵ ---- Permeability (Alt) ---- 0.1
 10⁻⁵ ---- Permeability (Kukal) ---- 0.1
 10⁻⁵ 10⁻⁴ .001 0.01 0.1

7700

7750

7800

FILE: 22-10-94

Scotia Group Proprietary Systems

FRI FEB 11 1994

0 Bad Hole Flag 20
6 ----- Caliper ----- 16
0 ----- Gamma Ray ----- 150
0 75 150

DEPTH

1.00 ----- Sw ----- -1.0
0.30 ----- Phi.Sw ----- 0.00
0.30 ----- Phi.Sxo ----- 0.00
0.00 ----- Vclay minimum ----- 2.00
0.30 ----- Effective Porosity ----- 0.00

10⁻⁵ ----- Permeability (Alt) ----- 0.1
10⁻⁵ ----- Permeability (Kukal) ----- 0.1
10⁻⁵ 10⁻⁴ .001 0.01 0.1

7850

7900

7950

FILE: 22-10-94

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : FEDERAL C-1 / 005206		WELL ID/COUNT : 7 / 1	
FIELD NAME : 06450819 HOLE		OIL/GAS/WATER : GAS	
OPERATOR NAME : GASCO INCORPORATED		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 05081060350000		COUNTY/STATE : MOFFAT COLORADO	
COORDINATES : 0408173410792712		SECT/TWNSH/RNGE/SP : 022/010N/094W/NENE	
ZONE NAME		RES CODE/COM CODE : 4 6 / 5	
HOLE WELL ON LEASE		FIRST WELL NUMBER	
TOTAL DEPTH : 9492 FT		AV UPP-LWR PERFS : 7535 - 7855 FT	
DATE DISCOVERED : 68		DATE COMPLETED	
HISTORIC CUM OIL : 1.1 MBSL		CUM DATE	
HISTORIC CUM GAS : 137.8 MMCF		CUM DATE	
HISTORIC CUM WATER : 0.0 MBSL		CUM DATE	
CURRENT CUM OIL : 3.8 MBSL		CUM DATE	
CURRENT CUM GAS : 562.6 MMCF		CUM DATE	
CURRENT CUM WATER : 1.8 MBSL		CUM DATE	
RECENT ALLOWABLE & TEST DATA			
RATE/FTP		FEB 88 : 1100 MCFD 0 BWPD/ 821 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 39.0 MCFD		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.055 / 0.050		HYPERBOLIC EXPONENT : 0.800	
START DATE : MAR 93		LIFE (UNESCAL CASE) : UNECONOMIC

FILE: 8-13-95

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP							
API NUMBER		PROVINCE		FIELD OPERATOR		CLASS		STATUS		TOTAL DEPTH		PRODUCING		TD ISSUED		SECTION		TOWNSHIP		RANGE		--SPOT--	
49037219220000		262		84585		99650		1 2		101		604ERCS		604LWIS		14975		11		82		8 N 13 W 95 NE NW NE	
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS															
Outpost or extension well				Gas well				Producer: 1 GAS Zone															
STATE COUNTY		LONGITUDE		LATITUDE		SECTION		TOWNSHIP		RANGE		-----LOCATION-----				--SPOT--							
WYO SWEETWTR		108.11530		41.11843		8		N 13		W 95		563 FNL 1908 FEL				NE NW NE							
OPERATOR				LEASE NAME				WELL NUMBER															
CURR H P C INC				TRITON UNIT				10															
----REFERENCE----				FIELD		---LEASE---				-----DATES-----				HOLE		FINAL							
OPERATOR GROUND				NAME		TYPE NUMBER		SPUD		COMPLETION		TOOLS		CHANGE		CH4 STATUS							
6562 KB				6540 GR		TRITON		02/07/1982		09/28/1982		ROTARY				GAS							
---PROJECTED---				-----TOTAL DEPTH-----																			
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE CODE											
14700 604MVRD		BURRIS KURT DRLG		14975		14957		13420				604ERCS											
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA															
SIZE		DEPTH		CEMENT		OPSEQ		SIZE		TYPE		INTERVAL		CEMENT		OPSEQ		SIZE		DEPTH			
13 3/8		2530		2200		01		7				12079-13500		300		004							
9 5/8		12530		685		02																	
-----TOPS AND BASES-----																							
TYPE		FORMATION		DEPTH																			
LOG TOPS		604LNCE		9738																			
LOG TOPS		604FXHL		12168																			
LOG TOPS		604LWIS		12454																			
LOG TOPS		604ALMD		14333																			
LOG TOPS		604ERCS		14806																			
-----CORE DATA-----																							
CORE ID		INTERVAL		RECOVERY		ZONE		TYPE		SHOW		OPSEQ											
CORE 01		13278-13337		57.50FT		604LWIS		CONV		FLRN		003											
-----INITIAL POTENTIAL TESTS-----																							
OIL		GAS		WATER		BS&W		CHOKE		TIME		ZONE		PROD THRU		PERFS		PERFS/FT		INTERVAL		OPSEQ	
1		949				%		24/64				604LWIS		PERF				4		13259-13279		005	
-----LOGS-----																							
INTERVAL		TYPE		COMPANY																			
12040-13010		AV																					
12040-13010		GR																					
12040-13010		CB																					
12040-13010		AD																					
12492-14951		ILD F																					
12492-14951		CORL																					
		AVC																					
		DN																					
		NEC																					
		NPTD																					
		CP

0 Bad Hole Flag 20
 6 - - - - - Caliper - - - - - 16
 0 - - - - - Gamma Ray - - - - - 150
 0 75 150

DEPTH

13200

13250

13300

13350

1.00 — Sw — -1.0
 0.30 - - - - - Phi.Sw - - - - - 0.00
 0.30 - - - - - Phi.Sxo - - - - - 0.00
 0.00 - - - - - Vclay minimum - - - - - 2.00
 0.30 - - - - - Effective Porosity - - - - - 0.00

10-5 - - - - - Permeability (Alt) - - - - - 0.1
 10-5 - - - - - Permeability (Kukal) - - - - - 0.1

FILE: 8-13-95

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : TRITON UNIT 10 / 035605		WELL ID/COUNT : 104 / 1	
FIELD NAME : 8455 TRITON		OIL/GAS/WATER : GAS	
OPERATOR NAME : PRESIDIO OIL COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037219220000	COUNTY/STATE : SWEETWATER WYOMING		
COORDINATES : 0411185010811510	SECT/TWNSH/RNGE/SP : 008/013N/095W/NWNE		
ZONE NAME : NO	RES CODE/COM CODE : 04 / 000		
HORL WELL ON LEASE : 14975	FIRST WELL NUMBER : 13259		
TOTAL DEPTH : 80 FT	AV UPP-LWR PERFS : -13275 FT		
DATE DISCOVERED : 80	DATE COMPLETED : FEB 93		
HISTORIC CUM OIL : 0.0 MBSL	CUM DATE : FEB 93		
HISTORIC CUM GAS : 0.0 MMCF	CUM DATE : FEB 93		
HISTORIC CUM WATER : 0.0 MBSL	CUM DATE : FEB 93		
CURRENT CUM OIL : 597.0 MBSL	CUM DATE : FEB 93		
CURRENT CUM GAS : 0.1 MMCF	CUM DATE : FEB 93		
CURRENT CUM WATER : 0.1 MBSL	CUM DATE : FEB 93		
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP SEP 82 : 949 MCFD	0 BWPD/ 845 PSIG
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 153	0.155 MCFD	INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : MAR 93		HYPERBOLIC EXPONENT : 0.000	
START DATE		LIFE (UNESCAL CASE) : 5 YRS 10 MNTHS	
REMAINING GAS : 234.3	MMCF	E.U.R. GAS : 931.3	MMCF

PREPARED BY THE SCOTIA GROUP, INC.

S.S.L. FRI FEB 11 1994 17:49:21

6 --- Caliper --- 16
 -100 --- Spont Potential --- 0
 0 --- Gamma Ray --- 150
 0 75 150

DEPTH

0.1 --- Deep Induction --- 1000
 0.1 --- Medium Induction --- 1000
 0.1 --- SFL Resistivity --- 1000
 0.1 1 10 100 1000

0.30 --- Raw Neutron Por --- 0.00
 1.95 --- Bulk Density gm/cc --- 2.95
 100 --- BHC Sonic msec/ft --- 40
 100 70 40

13000

13050

13100

13150

FILE: CEDALMD

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP		SECTION TOWNSHIP				RANGE		--SPOT--							
API NUMBER		PROVINCE		FIELD		OPERATOR		CLASS		STATUS		TOTAL DEPTH		PRODUCING		TD ISSUED		6		N 13		W 94		NW SE NE							
49037222800000		262		10640		126144		5 2		101		604ERCS		604ALMD		13435 12 86															
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS																							
New field wildcat				Gas well				Producer: 1 GAS Zone																							
STATE		COUNTY		LONGITUDE		LATITUDE		SECTION		TOWNSHIP		RANGE		-----LOCATION-----				--SPOT--													
WYO		SWEETWTR		108.01694		41.12909		6		N 13		W 94		1923 FNL 1144 FEL				NW SE NE													
-----NARRATIVE-----																															
30 MI NW OF BAGGS, WY																															
OPERATOR						LEASE NAME						WELL NUMBER																			
CURR CELSIUS ENERGY						CEDAR BREAKS-FED						6-1																			
-----REFERENCE----				FIELD				---LEASE---				-----DATES-----				HOLE				FINAL											
OPERATOR		GROUND		NAME		TYPE		NUMBER		SPUD		COMPLETION		TOOLS		CHANGE		CH4		STATUS											
6698 KB		6671 GR		CEDAR BREAKS		3		01/19/1984		05/18/1984		ROTARY								GAS											
---PROJECTED---													-----TOTAL DEPTH-----																		
DEPTH				FORMATION				CONTRACTOR				DRILLER				LOG				PLUG BACK				OLD				ZONE CODE			
13750				604ERCS				RODEN DRLG				13435								13212				604ERCS							
-----CASING DATA-----										-----LINER DATA-----										TUBING DATA											
SIZE		DEPTH		CEMENT		OPSEQ		SIZE		TYPE		INTERVAL		CEMENT		OPSEQ		SIZE		DEPTH											
10 3/4		1514		1025		01												2 7/8		12910											
7 5/8		11354		580		02																									
5		13425		435		03																									
-----TOPS AND BASES-----																															
TYPE		FORMATION										DEPTH																			
LOG TOPS		652WSTC										0																			
LOG TOPS		619FRUN										6818																			
LOG TOPS		604LNCE										10180																			
LOG TOPS		604FXHL										10815																			
LOG TOPS		604LWIS										11005																			
LOG TOPS		604ALMD										12998																			
LOG TOPS		604ERCS										13360																			
-----CORE DATA-----																															
CORE ID				INTERVAL				RECOVERY				ZONE				TYPE				SHOW				OPSEQ							
CORE 1				13019-13051				32.00FT				604ALMD				CONV				FLRM											
-----INITIAL POTENTIAL TESTS-----																															
OIL		GAS		WATER		BS&W		CHOKE		TIME		ZONE		PROD THRU		PERFS		PERFS/FT		INTERVAL		OPSEQ									
1		1249		130		%		32/64				604ALMD		PERF						2 13010-13058											
-----INITIAL POTENTIAL TREATMENT-----																															
TYPE		INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT		BREAKDOWN		INJECTION		ADDITIVE		STAGES		REMARKS											
SGFR		13010-13026		122000GALS		257000LBS		SAND												40#											
-----LOGS-----																															
INTERVAL		TYPE		COMPANY																											
		ILD																													
		AVC																													
		NEC																													
		DN																													
		GR																													
		EL

0 Bad Hole Flag 20
 6 - - - - - Caliper - - - - - 16
 0 - - - - - Gamma Ray - - - - - 150

0 75 150

DEPTH

1.00 ——— Sw ——— 1.0

0.30 - - - - - Phi.Sw - - - - - 0.00

0.30 - - - - - Phi.Sxo - - - - - 0.00

0.00 - - - - - Vclay minimum - - - - - 2.00

0.30 ——— Effective Porosity ——— 0.00

0.30 0.15 0.00

10⁻⁵ - - - - - Permeability (Alt) - - - - - 0.1

10⁻⁵ - - - - - Permeability (Kukal) - - - - - 0.1

10⁻⁵ 10⁻⁴ 0.01 0.01 0.1

13000

13050

13100

13150

FILE: CEDALMD

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE	FEDERAL C S S-1 / 042841	WELL ID/COUNT	18 / 1
FIELD NAME	10340 CEDAR BREAKS	OIL/GAS/WATER	GAS
OPERATOR NAME	CELSIUS ENERGY COMPANY	STATUS	ACTIVE
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER	49037222800000	COUNTY/STATE	SWEETWATER WYOMING
COORDINATES	0411291210801872	SECT/TWNSH/RNG/SP	008/013N/094W/9ENE
ZONE NAME	NO	RES CODE/COM CODE	83 / 800
HORL WELL ON LEASE	13435	FIRST WELL NUMBER	13010
TOTAL DEPTH	83	AV UPP-LWR PERFS	-13058 FT
DATE DISCOVERED	0.0 MBSL	DATE COMPLETED	FEB 93
HISTORIC CUM OIL	0.0 MMCF	CUM DATE	FEB 93
HISTORIC CUM GAS	0.0 MBSL	CUM DATE	FEB 93
HISTORIC CUM WATER	0.0 MMCF	CUM DATE	FEB 93
CURRENT CUM OIL	454.0 MBSL	CUM DATE	
CURRENT CUM GAS	1.9 MMCF	CUM DATE	
CURRENT CUM WATER		CUM DATE	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP MAY 84	1249 MCFD 130 BOPD/ 280 PSIG
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY	117	INITIAL GOR/YIELD	0.0 BBL/MMCF
INIT/FINAL DECLINE	0.210	HYPERBOLIC EXPONENT	0.000
START DATE	MAR 93	LIFE (UNESCAL CASE)	1 YRS 10 MNTHS
REMAINING GAS	55.0	E.U.R. GAS	509.0 MMCF

PREPARED BY THE SCOTIA GROUP, INC.

S.S.L. THU DEC 09 1993 16:20:57

FILE: MULIGAN

Scotia Group Proprietary Systems

FRI FEB 11 1994

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49037226850000

TUE JAN 18 1994 10:34:00

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION	TOWNSHIP
49037226850000	140	55925	126144	5 2	101	604ALMD	604ALMD	13118	9 90
								RANGE	--SPOT--
								24	N 15 W 95
								SW NE NW	
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
New field wildcat		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	SWEETWTR	108.04494	41.26199	24	N 15	W 95	1174 FNL 1414 FWL		SW NE NW
-----NARRATIVE-----									
27 MI S WAMSUTTER, WY									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR CELSIUS ENERGY		MULLIGAN DRAW-UNIT		1					
---REFERENCE---		FIELD		---LEASE---		DATES		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6763 KB		6734 GR		MULLIGAN DRAW		3		12/02/1989 03/01/1990 ROTARY	
								FINAL	
								CH4 STATUS	
								GAS	
---PROJECTED---									
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
13000 604ERCS		GRACE DRLG		13118		13109 13008		604ALMD	
-----CASING DATA-----									
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	TUBING DATA
10 3/4	1518	972							SIZE DEPTH
7 5/8	10898	640							
5 1/2	13117	375							
-----DRILL STEM TESTS-----									
TYPE INTERVAL		FORMATION CUSHION		TYPE SHOW OPSEQ		MATL		TIME TO SURF RATE TIMEOPEN	
10332-10360		604LNCE		MISRUN				IFP FFP ISIP FSIP IHP FHP	
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		652GRRV		0					
LOG TOPS		652WSTC		3032					
LOG TOPS		619FRUN		5815					
LOG TOPS		604LNCE		9478					
LOG TOPS		604FXHL		10547					
LOG TOPS		604LWIS		10758					
LOG TOPS		604ALMD		12856					
-----CORE DATA-----									
CORE ID INTERVAL		RECOVERY		ZONE TYPE		SHOW OPSEQ			
CORE 1 12868-12929		60.80FT		604ALMD		CONV			
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	8	2152	7	%	32/64	604ALMD	PERF		4 12853-12877
-----INITIAL POTENTIAL TREATMENT-----									
TYPE INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT AGENT		BREAKDOWN INJECTION	
FFR 12853-12877		17892GALS						ADDITIVE STAGES	
								REMARKS	
								15% HCL	

<continued on following page>

0 Bad Hole Flag 20
6 - - - - - Caliper - - - - - 16
0 - - - - - Gamma Ray - - - - - 150
0 75 150

DEPTH

12850

12900

12950

13000

1.00 — Sw — -1.0

2.50 - - - - - Rho Matrix Variable - - - - - 3.00

0.30 — Phi.Sw — 0.00

0.00 - - - - - Vclay minimum - - - - - 2.00

0.30 — Effective Porosity — 0.00

0.30 0.15 0.00

10⁻⁵ - - - - - Permeability (Alt) - - - - - 0.110⁻⁵ — Permeability (Kukal) — 0.110⁻⁵ 10⁻⁴ .001 0.01 0.1

FILE: MULIGAN

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : MULLIGAN DRAW UT / 056092		WELL ID/COUNT : 80 / 1	
FIELD NAME : 55925MULLIGAN DRAW		OIL/GAS/WATER : GAS	
OPERATOR NAME : CELSIUS ENERGY COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037225850000		COUNTY/STATE : SWEETWTR WYOMING	
COORDINATES : 0412620210804485		SECT/TWNSH/RNGE/SP : 024/015N/095W/NENW	
ZONE NAME : NO		RES CODE/COM CODE : 04 /	
HORL WELL ON LEASE : 13118 FT		FIRST WELL NUMBER : 000 5	
TOTAL DEPTH : 13118 FT		AV UPF-LWR PERFS : 12653 - 12677 FT	
DATE DISCOVERED : 0.0 MBSL		DATE COMPLETED : FEB 93	
HISTORIC CUM OIL : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MBSL		CUM DATE : FEB 93	
HISTORIC CUM WATER : 13.2 MBSL		CUM DATE : FEB 93	
CURRENT CUM OIL : 2235.9 MMCF		CUM DATE : FEB 93	
CURRENT CUM GAS : 6.1 MBSL		CUM DATE : FEB 93	
CURRENT CUM WATER : 6.1 MBSL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP MAR 90 : 2152 MCFD 7 BWPD/ 349 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 3119 MCFD		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.191 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 52.1 MBSL		E.U.R. OIL : 65.2 MBSL	
REMAINING GAS : 8575.5 MMCF		E.U.R. GAS : 10911.3 MMCF	

PREPARED BY THE SCOTIA GROUP, INC.

S.S.L. THU DEC 09 1993 16:21:01

FILE: TIERN2ER

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP		SECTION TOWNSHIP RANGE --SPOT--									
API NUMBER	PROVINCE	FIELD OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	15	N 19	W 94	C NW NE						
49037203320000	262	81975	65005	5 2	101	604MVRD	604MVRD	12260	4	73							
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS													
New field wildcat		Gas well		Producer: 1 GAS Zone													
STATE COUNTY		LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--								
WYO SWEETWTR		107.97512	41.62834	15	N 19	W 94	660 FNL 1980 FEL		C NW NE								
OPERATOR		LEASE NAME		WELL NUMBER													
CURR AMOCO PRODUCTION		TIERNEY UNIT		2													
---REFERENCE---		FIELD	---LEASE---		-----DATES-----		HOLE		FINAL								
OPERATOR GROUND		NAME	TYPE	NUMBER	SPUD	COMPLETION	TOOLS	CHANGE	CH4	STATUS							
6691 KB		TIERNEY			08/12/1972	04/04/1973	ROTARY			GAS							
---PROJECTED---		-----TOTAL DEPTH-----															
DEPTH FORMATION CONTRACTOR		DRILLER	LOG	PLUG BACK	OLD	ZONE CODE											
13000 604MVRD EXETER		12260		11350		604MVRD											
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA													
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH							
9 5/8	985	900	01	4 1/2	BLANK	9226-12200	450	010	2 7/8	12090							
7	9420	125	09														
-----DRILL STEM TESTS-----		-----FORMATION TESTS-----															
TYPE	INTERVAL	FORMATION	CUSHION	TYPE	SHOW	OPSEQ	MATL	TIME	TO SURF	RATE	TIMEOPEN	IFP	FFP	ISIP	FSIP	IHP	FHP
	9512- 9634	604MVRD			S	003	GAS	12M	90	MCFD	0H05M	473	387	4953	5089	4915	482
	9793- 9904	604MVRD		MISRUN		005	GAS	15M									
	9796- 9904	604MVRD			S	006	GAS	20M	8	MCFD	0H05M	495	463				
	11134-11229	604MVRD			S	008	GAS	11M	850	MCFD	0H05M	552	515	7610	7117	7793	773
-----TOPS AND BASES-----																	
TYPE	FORMATION		DEPTH														
LOG TOPS	604LWIS		7220														
LOG TOPS	604MVRD		9454														
SAMPLE TOPS	604LWIS		7520														
SAMPLE TOPS	604ALMD		9453														
-----CORE DATA-----																	
CORE ID	INTERVAL	RECOVERY	ZONE	TYPE	SHOW	OPSEQ											
CORE 01		60.00FT			GAS	002											
CORE 02	9788- 9848	58.00FT	604MVRD		ODOR	004											
CORE 03	9848- 9880	29.00FT	604MVRD			006											
CORE 04	10946-11006	60.00FT	604MVRD			007											
CORE 05	11369-11404	30.00FT	604MVRD		BLDG	009											
-----INITIAL POTENTIAL TESTS-----																	
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ						
1	468		%	48/64	24	604MVRD	PERF			11001-11162	031						

<continued on following page>

0 Bad Hole Flag 20
 4 ----- Caliper ----- 14
 0 ----- Gamma Ray ----- 150
 0 75 150

DEPTH

1.00 ----- Sw ----- -1.0
 0.30 ----- Phi.Sw ----- 0.00
 0.30 ----- Phi.Sxo ----- 0.00
 0.00 ----- Vclay minimum ----- 2.00
 0.30 ----- Effective Porosity ----- 0.00
 0.30 0.15 0.00

10⁻⁵ ----- Permeability (Alt) ----- 0.1
 10⁻⁵ ----- Permeability (Kukal) ----- 0.1
 10⁻⁵ 10⁻⁴ .001 0.01 0.1

11100

11150

11200

FILE: TIERN2ER

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : TIERNEY UT 2 / 004350		WELL ID/COUNT : 396 / 1	
FIELD NAME : 81975 TIERNEY		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037203320000		COUNTY/STATE : SWEETWTR WYOMING	
COORDINATES : 0416283610797517		SECT/TWNSH/RNG/SP : 015/019N/094W/NNNE	
ZONE NAME : NO		RES CODE/COM CODE : 04 /	
HORIZ. WELL ON LEASE : 12250 FT		FIRST WELL NUMBER : 200	
TOTAL DEPTH : 72		AV UPP-LWR PERFS : 11001 -11162 FT	
DATE DISCOVERED : 0.0 MMBL		DATE COMPLETED : FEB 93	
HISTORIC CUM OIL : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MMBL		CUM DATE : FEB 93	
HISTORIC CUM WATER : 106.3 MMBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 166.3 MMCF		CUM DATE : FEB 93	
CURRENT CUM GAS : 4.2 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP APR 73 : 468 MCFD 0 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 9.0 MCFO		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.098 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : UNECONOMIC

6 Caliper 16
-100 ---- Spont Potential ---- 0
0 ----- Gamma Ray ----- 150
0 75 150

DEPTH

10450

10500

10550

0.1 Deep Induction 1000
0.1 ---- Medium Induction ---- 1000 0.30 ---- Raw Neutron Por ---- 0.00
0.1 ---- SFL Resistivity ---- 1000 0.30 ---- Raw Density Por ---- 0.00
0.1 1 10 100 1000 0.30 0.15 0.00

FILE: FIVEALMD

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP		SECTION TOWNSHIP RANGE --SPOT--			
API NUMBER		PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH		PRODUCING	TD	ISSUED	35		N	21	W	93	C SW			
49037210530000		262	25550	65005	1	2	101		604ERCS	604ALMD	11066	3		80							
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS													
Outpost or extension well				Gas well				Producer: 1 GAS Zone													
STATE COUNTY		LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--												
WYO SWEETWTR		107.88697	41.74466	35	N	21	W		93		1320 FSL		1318 FWL		C SW						
-----NARRATIVE-----																					
IRREG SEC - SW/4 IS 2636' E-W																					
OPERATOR				LEASE NAME				WELL NUMBER													
CURR AMOCO PROD				UNIT				3													
---REFERENCE---				FIELD		---LEASE---		-----DATES-----				HOLE		FINAL							
OPERATOR		GROUND		NAME		TYPE		NUMBER		SPUD		COMPLETION		TOOLS		CHANGE		CH4 STATUS			
6867 KB		6845 GR		FIVE MILE		GULCH		02/15/1978		02/20/1979		ROTARY						GAS			
---PROJECTED---				-----TOTAL DEPTH-----																	
DEPTH		FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE		CODE					
11015		604MVRD		MANNING		11066				10600				604ERCS							
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA													
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH											
9 5/8	248	1050	01																		
5 1/2	11066	575	07																		
-----TOPS AND BASES-----																					
TYPE		FORMATION		DEPTH																	
LOG TOPS		604LWIS		8474																	
LOG TOPS		604ALMD		10410																	
LOG TOPS		604ERCS		10774																	
-----CORE DATA-----																					
CORE	ID	INTERVAL	RECOVERY	ZONE	TYPE	SHOW	OPSEQ														
CORE	1	10582-10641	59.00FT	604ALMD	CONV		002														
CORE	2	10040-10100	59.00FT	604LWIS	CONV		003														
CORE	3	10700-10734	29.00FT	604ALMD	CONV		004														
CORE	4	10734-10794	59.00FT	604ALMD	CONV		005														
CORE	5	10794-10854	50.00FT	604ALMD	CONV		006														
-----INITIAL POTENTIAL TESTS-----																					
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ										
1	3	624	5	%	32/64	24	604ALMD	PERF	JET	2	10408-10722	015									
-----INITIAL POTENTIAL TREATMENT-----																					
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS											
SGFR 10664-10722																					
-----PRODUCTION TESTS-----																					
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ										
1		365	%	32/64	24	604ERCS	PERF	JET	2	10872-10932	008										
2	8	525	%	20/64	15	604ALMD	PERF		2	10408-10418	009										
3	3	1453	%	20/64	17	604ALMD	PERF		2	10408-10418	010										
4		6	37	%	24/64	5	604ALMD	PERF		10408-10418	011										
5		32	11	%	20/64	16	604ALMD	PERF	2	10408-10418	012										
6	10	547	%	32/64	24	604ALMD	PERF		2	10408-10418	013										
7		250	%	24/64	24	604ALMD	PERF	JET	2	10664-10722	014										

<continued on following page>

0 Bad Hole Flag 20
 6 - - - - - Caliper - - - - - 16
 0 - - - - - Gamma Ray - - - - - 150
 0 75 150

DEPTH

1.00 ——— Sw ——— -1.0
 0.30 - - - - - Phi.Sw - - - - - 0.00
 0.30 - - - - - Phi.Sxo - - - - - 0.00
 0.00 - - - - - Vclay minimum - - - - - 2.00
 0.30 - - - - - Effective Porosity - - - - - 0.00
 0.30 0.15 0.00

10⁻⁵ - - - - - Permeability (Alt) - - - - - 0.1
 10⁻⁵ - - - - - Permeability (Kukal) - - - - - 0.1
 10⁻⁵ 10⁻⁴ 0.01 0.01 0.1

10450

10500

10550

FILE: FIVEALMD

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : FIVE MILE GULCH / 026370		WELL ID/COUNT : 71 / 1	
FIELD NAME : 25550 FIVE MILE GULCH		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037210530000		COUNTY/STATE : SWEETWATER WYOMING	
COORDINATES : 0417448910788704		SECT/TWNSH/RNGE/SP : 035/021N/093W/SW	
ZONE NAME :		RES CODE/COM CODE : 4 5 / 500	
MORL WELL ON LEASE : NO		FIRST WELL NUMBER : 10408	
TOTAL DEPTH : 11055 FT		AV UPP-LWR PERFS : -10722 FT	
DATE DISCOVERED : 78		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE :	
CURRENT CUM OIL : 22.1 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 827.6 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 5.0 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP FEB 79 : 624 MCFD 5 BWPD/ 700 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 53.0 MCFD		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.109 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 1 YRS 10 MNTHS	
REMAINING OIL/COND : 1.3 MMBL		E.U.R. OIL : 23.4 MMBL	
REMAINING GAS : 34.8 MMCF		E.U.R. GAS : 882.4 MMCF

4 Caliper 14
-100 ---- Spont Potential ---- 0
0 ----- Gamma Ray ----- 150
0 75 150

0.1 Deep Induction 2000
0.1 Medium Induction 2000
0.1 SFL Resistivity 2000
0.1 1 19 199 1999

0.30 ---- Raw Neutron Por ---- 0.00
0.30 ---- Raw Density Por ---- 0.00
0.30 0.15 0.00

10600

10650

10700

FILE: SRALMD

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP		SECTION TOWNSHIP RANGE --SPOT--					
API NUMBER		PROVINCE		FIELD OPERATOR		CLASS		STATUS		TOTAL DEPTH		PRODUCING		TD ISSUED		3		N 21		W 94		SW NE SW	
49037208530000		262		78995		65005		1 2		101		604MVRD		604ALMD		12580		9		77			
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS															
Outpost or extension well				Gas well				Producer: 1 GAS Zone															
STATE COUNTY		LONGITUDE		LATITUDE		SECTION		TOWNSHIP		RANGE		-----LOCATION-----				--SPOT--							
WYO SWEETWTR		108.02088		41.81785		3		N 21		W 94		1572 FSL 1709 FWL				SW NE SW							
OPERATOR				LEASE NAME				WELL NUMBER															
CURR AMOCO PROD				UNIT				5															
----REFERENCE----				FIELD		---LEASE---				-----DATES-----				HOLE		FINAL							
OPERATOR GROUND				NAME		TYPE		NUMBER		SPUD		COMPLETION		TOOLS		CHANGE		CH4		STATUS			
6778 KB				6766 GR		SIBERIA		RIDGE		09/10/1976		06/28/1977		ROTARY						GAS			
---PROJECTED---										-----TOTAL DEPTH-----													
DEPTH		FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE CODE									
12500		604MVRD		LEWIS		12580				10770				604MVRD									
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA															
SIZE		DEPTH		CEMENT		OPSEQ		SIZE		TYPE		INTERVAL		CEMENT		OPSEQ		SIZE		DEPTH			
9 5/8		1500		1000		01		5		BLANK		10184-12577		300		042		2 7/8		10150			
7		10500		300		41																	
-----TOPS AND BASES-----																							
TYPE		FORMATION		DEPTH																			
LOG TOPS		604ALMD		10584																			
LOG TOPS		604ERCS		10918																			
-----CORE DATA-----																							
CORE ID		INTERVAL		RECOVERY		ZONE		TYPE		SHOW		OPSEQ											
CORE 01		10580-10610		29.00FT		604ALMD						002											
CORE 02		10610-10670		60.00FT		604ALMD						003											
CORE 03		10670-10701		29.00FT		604ALMD						004											
CORE 04		10701-10761		60.00FT		604ALMD						005											
CORE 05		10761-10775		14.00FT		604ALMD						006											
CORE 06		10775-10822		44.50FT		604ALMD						007											
CORE 07		10822-10868		41.00FT		604ALMD						008											
CORE 08		10868-10870		2.50FT		604ALMD						009											
CORE 09		10870-10930		60.00FT		604ALMD						010											
CORE 10		10930-10960		30.00FT		604ERCS						011											
CORE 11		10960-10979		19.00FT		604ERCS						012											
CORE 12		10979-11014		35.00FT		604ERCS						013											
CORE 13		11014-11035		20.50FT		604ERCS						014											
CORE 14		11035-11046		10.00FT		604ERCS						015											
CORE 15		11051-11080		29.00FT		604ERCS						016											
CORE 16		11080-11140		60.00FT		604ERCS						017											
CORE 17		11140-11184		44.00FT		604ERCS						018											
CORE 18		11184-11244		60.00FT		604ERCS						019											
CORE 19		11244-11289		40.50FT		604ERCS						020											
CORE 20		11289-11349		60.00FT		604ERCS						021											
CORE 21		11349-11405		52.50FT		604ERCS						022											
CORE 22		11405-11464		59.00FT		604MVRD						023											
CORE 23		11464-11524		60.00FT		604MVRD						024											
CORE 24		11524-11578		54.00FT		604MVRD						025											
CORE 25		11578-11638		53.50FT		604MVRD						026											
CORE 26		11638-11698		60.00FT		604MVRD						027											
-----INITIAL POTENTIAL TESTS-----																							
OIL		GAS		WATER		BS&W		CHOKE		TIME		ZONE		PROD THRU		PERFS		PERFS/FT		INTERVAL		OPSEQ	
1		990				%		/64		24		604ALMD		PERF		JET		2		10586-10606		049	
-----INITIAL POTENTIAL TREATMENT-----																							
TYPE		INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT		BREAKDOWN		INJECTION		ADDITIVE		STAGES		REMARKS			
SEFR		10586-10606

FILE: SRALMD

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : SIBERIA RDG UT 5 / 022920		WELL ID/COUNT : 350 / 1	
FIELD NAME : 789555SIBERIA RIDGE		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037208530000		COUNTY/STATE : SWEETWATER WYOMING	
COORDINATES : 0418175710802100		SECT/TWNSH/RNGE/SP : 003/021N/094W/NESW	
ZONE NAME :		RES CODE/COM CODE : 04 / 500	
HORL WELL ON LEASE : NO		FIRST WELL NUMBER : 10558 - 10505 FT	
TOTAL DEPTH : 12580 FT		AV UP-LWR PERFS :	
DATE DISCOVERED : 78		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MBSL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MBSL		CUM DATE :	
CURRENT CUM OIL : 10.0 MBSL		CUM DATE : FEB 93	
CURRENT CUM GAS : 1019.8 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 1.0 MBSL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JUN 77 : 990 MCFD 0 BWPD/ 200 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 161		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.052 / 0.050		HYPERBOLIC EXPONENT : 0.50	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 22 YRS 10 MNTHS	
REMAINING OIL/COND : 7.1 MBSL		E.U.R. OIL : 17.1 MBSL	
REMAINING GAS : 789.7 MMCF		E.U.R. GAS : 1809.8 MMCF

15 Caliper 25
-100 --- Spont Potential --- 0
0 ——— Gamma Ray ——— 150
0 75 150

0.1 Deep Induction 1000
0.1 --- Medium Induction --- 1000
0.1 --- SFL Resistivity --- 1000
0.1 1 10 100 1000

0.30 --- Raw Neutron Por --- 0.00
1.95 --- Bulk Density gm/cc --- 2.95
1.95 2.20 2.45 2.70 2.95

11950

12000

12050

FILE: CHAMP450

Scotia Group Proprietary Systems

FRI FEB 11 1994

15 Caliper 25
 -100 ---- Spont Potential ---- 0
 0 ----- Gamma Ray ----- 150
 0 75 150

DEPTH

0.1 Deep Induction 1000
 0.1 ---- Medium Induction ---- 1000
 0.1 ---- SFL Resistivity ---- 1000
 0.1 1 10 100 1000

0.30 ---- Raw Neutron Por ---- 0.00
 1.95 ---- Bulk Density gm/cc ---- 2.95
 1.95 2.20 2.45 2.70 2.95

12100

12150

12200

FILE: CHAMP450

Scotia Group Proprietary Systems

FRI FEB 11 1994

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49037209750000

MON JAN 17 1994 18:53:45

-----CODES-----										WELL NUMERIC		-----FORMATION-----			COMP		SECTION TOWNSHIP RANGE --SPOT--			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED												
49037209750000	262	77580	65005	1 2	101	604ALMD	604ALMD	12580	10	78							21	N 23	W 94 C SW	
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS												
Outpost or extension well				Gas well				Producer: 1 GAS Zone												
STATE COUNTY		LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----			--SPOT--										
WYO SWEETWTR		108.04167	41.94751	21	N 23	W 94	1320	FSL	1320	FWL	C SW									
OPERATOR			LEASE NAME			WELL NUMBER														
CURR AMOCO PROD			CHAMPLIN450AMOCO-A			1														
---REFERENCE---		FIELD		---LEASE---		-----DATES-----			HOLE		FINAL									
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION		TOOLS		CHANGE CH4		STATUS						
6610 KB		6597 GR		SENTINEL RIDGE		06/28/1978		08/09/1978		ROTARY				GAS						
---PROJECTED---										-----TOTAL DEPTH-----										
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE CODE								
12580 604MVRD		EXETER		12580		12529		12160				604ALMD								
-----CASING DATA-----					-----LINER DATA-----					TUBING DATA										
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH										
8 5/8	1484	1076	01						2 7/8	12130										
5 1/2	12579	460	14																	
-----TOPS AND BASES-----																				
TYPE		FORMATION		DEPTH																
LOG TOPS		604LWIS		11268																
LOG TOPS		604ALMD		11911																
-----CORE DATA-----																				
CORE ID	INTERVAL	RECOVERY	ZONE	TYPE	SHOW	OPSEQ														
CORE 1	11807-11838	21.00FT	604LWIS	CONV		002														
CORE 2	11838-11851	10.50FT	604LWIS	CONV		003														
CORE 3	11851-11896	5.80FT	604LWIS	CONV		004														
CORE 4	11910-11970	60.00FT	604ALMD	CONV		005														
CORE 5	11970-12030	60.00FT	604ALMD	CONV		006														
CORE 6	12032-12075	37.00FT	604ALMD	CONV		007														
CORE 7	12125-12181	54.00FT	604ALMD	CONV		008														
CORE 8	12184-12214	27.00FT		CONV		009														
CORE 9	12224-12252	23.00FT	604ALMD	CONV		010														
CORE 10	12284-12335	41.00FT	604ALMD	CONV		011														
CORE 11	12335-12395	50.00FT	604ALMD	CONV		012														
CORE 12	12395-12436	40.00FT	604ALMD	CONV		013														
-----INITIAL POTENTIAL TESTS-----																				
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ									
1	188	38	%	20/64	24	604ALMD	PERF		2	11912-12144	017									
-----INITIAL POTENTIAL TREATMENT-----																				
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS										
ACID	11912-12144	5376GALS						5												
-----PRODUCTION TESTS-----																				
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ									
1	47		%	1/64		604ALMD	PERF	JET	2	12175-12257	015									
2	34		%	48/64	24	604ALMD	PERF	JET	2	12175-12257	016									
-----PRODUCTION TESTS TREATMENT-----																				
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS										
MA	12175-12257	67GALS						CO2		3BBLS-KCL FLSHW/40B										

<continued on following page>

LEASE NAME / CODE : CHMP 450 AMOCO A / 028975		WELL ID/COUNT : 358 / 1	
FIELD NAME : 77585 SENTINEL RIDGE		OIL/GAS/WATER : GAS	
OPERATOR NAME : INDUSTRIAL GAS SERVICES		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037209750000		COUNTY/STATE : SWEETWATER WYOMING	
COORDINATES : 0419474010804165		SECT/TWNSH/RNGE/SP : 021/023N/094W/SW	
ZONE NAME : NO		RES CODE/COM CODE : 60 / 700	
HORIZ. WELL ON LEASE : 12580 FT		FIRST WELL NUMBER : 5	
TOTAL DEPTH : 12580 FT		AV. UPP-LWR PERFS : 11912 - 12144 FT	
DATE DISCOVERED : 0 78		DATE COMPLETED : 1990	
HISTORIC CUM OIL : 0 00 MMBL		CUM DATE : JAN 90	
HISTORIC CUM GAS : 0 00 MMBL		CUM DATE : JAN 90	
HISTORIC CUM WATER : 0 00 MMBL		CUM DATE : JAN 90	
CURRENT CUM OIL : 37 9 MMBL		CUM DATE : JAN 90	
CURRENT CUM GAS : 1 0 MMBL		CUM DATE : JAN 90	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP AUG 78 : 188 MCFD 38 BWPD/ 1000 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 0 00 MCFD		INITIAL GOR/YIELD : 0 00 BBL/MMCF	
INIT/FINAL DECLINE : 0 500		HYPERBOLIC EXPONENT : 0 000	
START DATE : MAR 93		LIFE (UNESCAL CASE) : UNECONOMIC

0 Bad Hole Flag 20
15 ----- Caliper ----- 25
0 ----- Gamma Ray ----- 150
0 75 150

DEPTH

1.00 ----- Sw ----- -1.0
0.30 ----- Phi Sw ----- 0.00
0.30 ----- Phi.Sxo ----- 0.00
0.00 ----- Vclay minimum ----- 2.00
0.30 ----- Effective Porosity ----- 0.00
0.30 0.15 0.00

10⁻⁵ ----- Permeability (Alt) ----- 0.1
10⁻⁵ ----- Permeability (Kukal) ----- 0.1
10⁻⁵ 10⁻⁴ 001 0.01 0.1

11950

12000

12050

FILE: CHAMP450

Scotia Group Proprietary Systems

FRI FEB 11 1994

FILE: CHAMP450

Scotia Group Proprietary Systems

FRI FEB 11 1994

6 Caliper 16
 -100 ---- Spont Potential ---- 0
 0 ----- Gamma Ray ----- 150
 0 75 150

DEPTH

9700

9750

9800

9850

0.1 Deep Induction 1000 0.30 Raw Neutron Por 0.00
 0.1 ---- Medium Induction ---- 1000 0.30 ---- Raw Density Por ---- 0.00
 0.1 ---- SFL Resistivity ---- 1000 100 ---- BHC Sonic msec/ft ---- 40
 0.1 1 10 100 1000 100 70 40

FILE: 51894MS

Scotia Group Proprietary Systems

FRI FEB 11 1994

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP		SECTION TOWNSHIP RANGE --SPOT-- 5 N 18 W 94 SW NE SW			
API NUMBER		PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH		PRODUCING	TD ISSUED											
49037208670000		262	72600	65005	6	2	101	604MVRD		604ALMD	10437 10 77										
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS													
Development well				Gas well				Producer: 1 GAS Zone													
STATE COUNTY		LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----				--SPOT--										
WYO SWEETWTR		108.02095	41.56173	5	N 18	W 94	1326 FSL 1321 FWL				SW NE SW										
OPERATOR			LEASE NAME			WELL NUMBER															
CURR AMOCO PROD			CHAMPLIN 337 AMOCO			1															
---REFERENCE---				FIELD		---LEASE---				DATES-----		HOLE		FINAL							
OPERATOR		GROUND	NAME	TYPE		NUMBER	SPUD	COMPLETION		TOOLS	CHANGE	CH4	STATUS								
6765 KB		6750 GR	RED LAKES				12/10/1976	10/15/1977		ROTARY			GAS								
---PROJECTED---				-----TOTAL DEPTH-----																	
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE CODE									
10350 604MVRD		MANNING		10437				10240				604MVRD									
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA													
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH											
9 5/8	1496	700	01																		
5 1/2	10435	700	07																		
-----TOPS AND BASES-----																					
TYPE		FORMATION		DEPTH																	
LOG TOPS		604ALMD		9700																	
-----CORE DATA-----																					
CORE ID	INTERVAL	RECOVERY		ZONE		TYPE	SHOW	OPSEQ													
CORE 01	9716- 9740	15.00FT		604ALMD				002													
CORE 02	9740- 9775	30.00FT		604ALMD				003													
CORE 03	9776- 9813	32.00FT		604ALMD				004													
CORE 04	9813- 9830	14.00FT		604ALMD		COAL		005													
CORE 05	9830- 9867	20.00FT		604ALMD				006													
-----INITIAL POTENTIAL TESTS-----																					
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ										
1	230	2130	27	%	42/64	604ALMD	PERF	JET	2	9734- 9786	009										
-----INITIAL POTENTIAL TREATMENT-----																					
TYPE	INTERVAL	VOLUME OR WEIGHT		FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS										
MA	9734- 9786	1500GALS							CO2		21 TONS										
-----PRODUCTION TESTS TREATMENT-----																					
TYPE	INTERVAL	VOLUME OR WEIGHT		FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS										
MA	10288-10347	538BLS						7	CO2		20 TONS										
-----LOGS-----																					
INTERVAL	TYPE	COMPANY																			
	AVC																				
	GR																				
	DN																				
	NEC																				
	DNC

0 Bad Hole Flag 20
6 - - - - - Caliper - - - - - 16
0 - - - - - Gamma Ray - - - - - 150
0 75 150

DEPTH

9700

9750

9800

9850

1.00 — Sw — -1.0
0.30 - - - - - Phi.Sw - - - - - 0.00
0.30 - - - - - Phi.Sxo - - - - - 0.00
0.00 - - - - - Vclay minimum - - - - - 2.00
0.30 - - - - - Effective Porosity - - - - - 0.00
0.30 0.15 0.00

10⁻⁵ - - - - - Permeability (Alt) - - - - - 0.1
10⁻⁵ - - - - - Permeability (Kukal) - - - - - 0.1
10⁻⁵ 10⁻⁴ 0.01 0.01 0.1

FILE: 51894MS

Scotia Group Proprietary Systems

FRI FEB 11 1994

LEASE NAME / CODE : CHMP 337 AMOCO A / 023045		WELL ID/COUNT : 85 / 1	
FIELD NAME : 72600RED LAKES		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037208570000		COUNTY/STATE : SWEETWTR WYOMING	
COORDINATES : 0415816510802098		SECT/TWNSH/RNG/SP : 005/018N/094W/NESW	
ZONE NAME : NO		RES CODE/COM CODE : 804 / 500	
HOBIL WELL ON LEASE : NO		FIRST WELL NUMBER : 5	
TOTAL DEPTH : 10437 FT		AV UPP-LWR PERFS : 9734 - 9785 FT	
DATE DISCOVERED : 75		DATE COMPLETED : 19	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 14.3 MMBL			
CURRENT CUM GAS : 850.5 MMCF			
CURRENT CUM WATER : 2.4 MMBL			
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP OCT 77 : 2130 MCFD 27 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 0.0 MCFD		INITIAL GOR/YIELD : 19.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.050		HYPERBOLIC EXPONENT : UNECONOMIC	
START DATE : MAR 93		LIFE (UNESCAL CASE) : UNECONOMIC

SECTION 2

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007204270000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP						
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION TOWNSHIP RANGE --SPOT--			
49007204270000	262	11980	65005	1	2	101	604ERCS	604ALMD	9300	10	79	27 N 18 W 93 C SW
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS								
Outpost or extension well		Gas well		Producer: 1 GAS Zone								
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--			
WYO	CARBON	107.86632	41.50337	27	N 18	W 93	1326 FSL	1318 FWL	C SW			
-----NARRATIVE-----												
IRREG SEC-SW/4 IS 2652' N-S, 2635' E-W												
OPERATOR		LEASE NAME		WELL NUMBER								
CURR AMOCO PROD		CHAMPLIN226 AMOCO F		1								
---REFERENCE---		FIELD		---LEASE---		-----DATES-----		HOLE		FINAL		
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS		CHANGE CH4 STATUS		
6750 KB		6738 GR COAL GULCH				02/16/1979		06/04/1979 ROTARY		GAS		
---PROJECTED---		-----TOTAL DEPTH-----										
DEPTH FORMATION CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE CODE		
9320 604MVRD MANNING		9300								604ERCS		
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA								
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH		
9 5/8	2490	1300	01	4 1/2	BLANK	8370- 9300	120	004				
7	8674	450	03									
-----DRILL STEM TESTS-----												
TYPE INTERVAL		FORMATION		CUSHION TYPE		SHOW OPSEQ		MATL		TIME TO SURF RATE TIMEOPEN		
8292- 8460		604LWIS				S 002		GAS		2H12M 16 MCFD 0H10M		
-----FORMATION TESTS-----												
										IFP FFP ISIP FSIP IHP FHP		
										278 4036 403		
-----TOPS AND BASES-----												
TYPE		FORMATION		DEPTH								
LOG TOPS		604LWIS		7238								
LOG TOPS		604ALMD		8502								
LOG TOPS		604ERCS		9194								
SAMPLE TOPS		604ALMD		8740								
-----INITIAL POTENTIAL TESTS-----												
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ	
1	7961	12	%	16/64	24	604ALMD	PERF			8754- 8784	007	
-----INITIAL POTENTIAL TREATMENT-----												
TYPE INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT		BROKDOWN INJECTION ADDITIVE STAGES REMARKS		
SGFR 8754- 8784												
-----PRODUCTION TESTS-----												
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ	
1	700		%	20/64	10	604ALMD	PERF			8754- 8784	005	
2	7	4016	%	12/64	2	604ALMD	PERF			8754- 8784	006	
-----PRODUCTION TESTS TREATMENT-----												
TYPE INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT		BROKDOWN INJECTION ADDITIVE STAGES REMARKS		
SGFR 8754- 8784		3647BBLs		347431LBS		SAND				21		
-----LOGS-----												
INTERVAL	TYPE	COMPANY										
	GR											
	ILD											
	EL											
	NEC											
	DN

LEASE NAME / CODE : CHMP 226 AMOCO F / 025663		WELL ID/COUNT : 120 / 1	
FIELD NAME : 804875STANDARD DRAW		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204270000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0415033710786641		SECT/TWNSH/RNGE/SP : 027/018N/093W/8W	
ZONE NAME :		RES CODE/COM CODE : 04 /	
HORIZ. WELL ON LEASE :		FIRST WELL NUMBER : 800	
TOTAL DEPTH : 9300 FT		AV. UPP-LWR PERFS : 8754 - 8784 FT	
DATE DISCOVERED : 78		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MBSL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MBSL		CUM DATE :	
CURRENT CUM OIL : 608.1 MBSL		CUM DATE : FEB 93	
CURRENT CUM GAS : 22404.6 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 8.3 MBSL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JUN 79 : 7951 MCFD 12 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 4055		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.072 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNSCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 524.7		RE.U.R. OIL : 1130.7 MBSL	
REMAINING GAS : 23848.4		RE.U.R. GAS : 45253.3 MMCF	

PREPARED BY THE SCOTIA GROUP, INC.

S.S.L. THU DEC 09 1993 16:21:26

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007204920000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204920000	262	18900	64808	6 2	101	604MVRD	604MVRD	9600 2 80	
SECTION		TOWNSHIP		RANGE		--SPOT--			
14		N 19		W 93		NW SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.84788	41.61952	14	N 19	W 93	1516 FSL 1323 FWL		NW SW
-----NARRATIVE-----									
IRREG SEC									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR PACIFIC TRANS SUPPLY		FEDERAL		3-14					
----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6880 KB		6868 GR ECHO SPRINGS		10/14/1979		01/15/1980		ROTARY	
								HOLE	
								CHANGE	
								CH4 STATUS	
								GAS	
---PROJECTED---									
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD	
9600 604MVRD		OLSEN		9600				ZONE CODE	
								604MVRD	
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA	
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
18	40		01	4 1/2	BLANK	8566- 9600	168	004	
9 5/8	1105	900	02						
7	9003	450	03						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LWIS		7325					
LOG TOPS		604LWIS		8240					
LOG TOPS		604ALMD		9097					
LOG TOPS		604ERCS		9374					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	24	1000	24	%	/64	604MVRD	PERF		
								INTERVAL	OPSEQ
								9374- 9392	005

LEASE NAME / CODE		FEDERAL 3-14 / 027450		WELL ID/COUNT		293 / 1	
FIELD NAME		18900ECHO SPRINGS		OIL/GAS/WATER		GAS	
OPERATOR NAME		PG&E RESOURCES COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49007204920000		COUNTY/STATE		CARBON WYOMING	
COORDINATES		0418195710784770		SECT/TWNSH/RNGE/SP		014/019N/093W/NESW	
ZONE NAME				RES CODE/COM CODE		804 /	
HORN WELL ON LEASE		NO		FIRST WELL NUMBER		500	
TOTAL DEPTH		9500 FT		AV UPP-LWR PERFS		9374 - 9392 FT	
DATE DISCOVERED		78		DATE COMPLETED			
HISTORIC CUM OIL		0.0 MMBL		CUM DATE			
HISTORIC CUM GAS		0.0 MMCF		CUM DATE			
HISTORIC CUM WATER		0.0 MMBL		CUM DATE			
CURRENT CUM OIL		422.6 MMBL		CUM DATE		FEB 93	
CURRENT CUM GAS		17580.7 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		1.2 MMBL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
				RATE/FTP JAN 80 : 1000 MCFD 24 BWPD/ N/R			
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		3152 MCFD		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		0.085 / 0.050		HYPERBOLIC EXPONENT		0.500	
START DATE		MAR 93		LIFE (UNESCAL CASE)		39 YRS 10 MNTHS	
REMAINING OIL/COND		251.0 MMBL		E.U.R. OIL		583.6 MMBL	
REMAINING GAS		15315.5 MMCF		E.U.R. GAS		33695.2 MMCF	

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S.S.L. THU DEC 09 1993 15:21:30

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007204530000

MON JAN 17 1994 18:53:45

-----CODES-----										WELL NUMERIC										-----FORMATION-----										COMP																																							
API NUMBER PROVINCE										FIELD OPERATOR CLASS STATUS										TOTAL DEPTH PRODUCING										TD ISSUED																																							
49007204530000 262										93300 15005 6 2 101										604MVRD 604ALMD										9550 11 79																																							
SECTION TOWNSHIP										RANGE										--SPOT--																																																	
16 N 17 W 93										NW SE SW																																																											
INITIAL WELL CLASS										FINAL WELL CLASS										NUMERIC WELL CLASS																																																	
Development well										Gas well										Producer: 1 GAS Zone																																																	
STATE COUNTY										LONGITUDE										LATITUDE										SECTION TOWNSHIP										RANGE										-----LOCATION-----										--SPOT--									
WYO CARBON										107.88571										41.44519										16 N 17 W 93										1312 FSL 1421 FWL										NW SE SW																			
OPERATOR										LEASE NAME										WELL NUMBER																																																	
CURR CITIES SERVICE										STATE E										1																																																	
---REFERENCE---										FIELD										---LEASE---										-----DATES-----										HOLE										FINAL																			
OPERATOR GROUND NAME										TYPE NUMBER SPUD										COMPLETION TOOLS										HOLE CHANGE										CH4 STATUS																													
6631 KB 6616 GR WILDROSE										03/20/1979										10/03/1979 ROTARY																				GAS																													
---PROJECTED---										-----TOTAL DEPTH-----																																																											
DEPTH FORMATION CONTRACTOR										DRILLER										LOG PLUG BACK										OLD										ZONE CODE																													
9700 604MVRD BRINKERHOFF										9550										9482																				604MVRD																													
-----CASING DATA-----										-----LINER DATA-----										TUBING DATA																																																	
SIZE DEPTH CEMENT OPSEQ										SIZE TYPE INTERVAL CEMENT OPSEQ										SIZE DEPTH																																																	
10 3/4 1546 1450 01 5										8440- 9548 250 002										2 3/8 8770																																																	
7 5/8 8800 300 02																																																																					
-----TOPS AND BASES-----																																																																					
TYPE FORMATION DEPTH																																																																					
LOG TOPS 604LWIS 6753																																																																					
LOG TOPS 603BMAK 8676																																																																					
LOG TOPS 604ALMD 8983																																																																					
-----INITIAL POTENTIAL TESTS-----																																																																					
OIL GAS WATER BS&W CHOKE TIME ZONE PROD THRU PERFS PERFS/FT INTERVAL OPSEQ																																																																					
1 280 % 12/64 604ALMD PERF 8940- 8966																																																																					
-----INITIAL POTENTIAL TREATMENT-----																																																																					
TYPE INTERVAL VOLUME OR WEIGHT FLUID AMOUNT AGENT BREAKDOWN INJECTION ADDITIVE STAGES REMARKS																																																																					
ACID 8940- 8966 4400GALS																																																																					
-----PRODUCTION TESTS TREATMENT-----																																																																					
TYPE INTERVAL VOLUME OR WEIGHT FLUID AMOUNT AGENT BREAKDOWN INJECTION ADDITIVE STAGES REMARKS																																																																					
ACID 8940- 8966 2600GALS																																																																					
-----LOGS-----																																																																					
INTERVAL TYPE COMPANY																																																																					
1542- 8784 ILDL																																																																					
1542- 8784 MFSF																																																																					
1542- 8784 AVC																																																																					
1542- 8784 GR																																																																					
8786- 9228 DN																																																																					
8786- 9228 NEC																																																																					
8786- 9228 GR																																																																					
8786- 9228 CP

LEASE NAME / CODE : STATE E 1 / 025942		WELL ID/COUNT : 162 / 1	
FIELD NAME : 93300WILROSE		OIL/GAS/WATER : GAS 1	
OPERATOR NAME : OXY USA INCORPORATED		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204530000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0414451010788570		SECT/TWNSH/RNGE/SP : 015/017N/093W/SES	
ZONE NAME : NO		RES CODE/COM CODE : 60 / 500 5	
HORL WELL ON LEASE : 75		AV UPP-LWR PERFS : 8940 - 8965 FT	
TOTAL DEPTH : 9550 FT		DATE COMPLETED : JAN 93	
DATE DISCOVERED : 75		CUM DATE : JAN 93	
HISTORIC CUM OIL : 0.0 MBSL		CUM DATE : JAN 93	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : JAN 93	
HISTORIC CUM WATER : 0.0 MBSL		CUM DATE : JAN 93	
CURRENT CUM OIL : 275.4 MBSL		CUM DATE : JAN 93	
CURRENT CUM GAS : 10474.7 MMCF		CUM DATE : JAN 93	
CURRENT CUM WATER : 1.9 MBSL		CUM DATE : JAN 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP OCT 79 : 280 MCFD O BHPD/ 750 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 3398 MCFD		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.050		HYPERBOLIC EXPONENT : 39 YRS 10 MNTHS	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 305.9 MBSL		E.U.R. OIL : 583.3 MBSL	
REMAINING GAS : 19179.5 MMCF		E.U.R. GAS : 29654.3 MMCF	

PREPARED BY THE SCOTIA GROUP, INC.

S.S.L. THU DEC 09 1993 15:21:34

-----CODES-----										WELL NUMERIC										-----FORMATION-----										COMP																																							
API NUMBER PROVINCE										FIELD OPERATOR CLASS STATUS										TOTAL DEPTH PRODUCING										TD ISSUED																																							
49007204520000 262										11980 23491 6 2 101										604ALMD 604ALMD										9882 7 79																																							
SECTION TOWNSHIP										RANGE										--SPOT--																																																	
4 N 17 W 93										NE SW SW																																																											
INITIAL WELL CLASS										FINAL WELL CLASS										NUMERIC WELL CLASS																																																	
Development well										Gas well										Producer: 1 GAS Zone																																																	
STATE COUNTY										LONGITUDE										LATITUDE										SECTION TOWNSHIP										RANGE										-----LOCATION-----										--SPOT--									
WYO CARBON										107.88667										41.47417										4 N 17 W 93										1220 FSL 1220 FWL										NE SW SW																			
OPERATOR										LEASE NAME										WELL NUMBER																																																	
CURR DIAMOND SHAMROCK										D S FEDERAL										14-4																																																	
-----REFERENCE-----										FIELD										---LEASE---										-----DATES-----										HOLE										FINAL																			
OPERATOR GROUND										NAME										TYPE NUMBER SPUD										COMPLETION TOOLS										CHANGE										CH4 STATUS																			
6751 KB 6736 GR										COAL GULCH										03/26/1979										06/20/1979										ROTARY										GAS																			
---PROJECTED---										-----TOTAL DEPTH-----																																																											
DEPTH FORMATION CONTRACTOR										DRILLER										LOG PLUG BACK										OLD										ZONE CODE																													
9600 604MVRD BOMAC										9882																														604ALMD																													
-----CASING DATA-----										-----LINER DATA-----										TUBING DATA																																																	
SIZE DEPTH CEMENT OPSEQ										SIZE TYPE INTERVAL CEMENT OPSEQ										SIZE DEPTH																																																	
9 5/8 998 740 01										4 1/2 BLANK 9821- 9875 150 003																																																											
7 8816 200 02																																																																					
-----TOPS AND BASES-----																																																																					
TYPE FORMATION DEPTH																																																																					
LOG TOPS 604LWIS 6415																																																																					
LOG TOPS 604ALMD 8898																																																																					
LOG TOPS 604ERCS 9800																																																																					
-----INITIAL POTENTIAL TESTS-----																																																																					
OIL GAS WATER BS&W CHOKE TIME ZONE PROD THRU PERFS PERFS/FT INTERVAL OPSEQ																																																																					
1 198 26000 % /64 604ALMD PERF 1 8954- 9050 005																																																																					
-----INITIAL POTENTIAL TREATMENT-----																																																																					
TYPE INTERVAL VOLUME OR WEIGHT FLUID AMOUNT AGENT BREAKDOWN INJECTION ADDITIVE STAGES REMARKS																																																																					
SAFR 8954- 9050 60000GALS 76000LBS SAND																																																																					
-----PRODUCTION TESTS-----																																																																					
OIL GAS WATER BS&W CHOKE TIME ZONE PROD THRU PERFS PERFS/FT INTERVAL OPSEQ																																																																					
1 33 570 % /64 4 604ALMD PERF 1 8984- 9050 004																																																																					
-----PRODUCTION TESTS TREATMENT-----																																																																					
TYPE INTERVAL VOLUME OR WEIGHT FLUID AMOUNT AGENT BREAKDOWN INJECTION ADDITIVE STAGES REMARKS																																																																					
SGFR 8984- 9050 60000GALS 76000LBS SAND																																																																					
-----LOGS-----																																																																					
INTERVAL TYPE COMPANY																																																																					
AV																																																																					
ILDL

LEASE NAME / CODE : U S FEDERAL 14-4 / 026161		WELL ID/COUNT : 266 / 1	
FIELD NAME : 11980COAL GULCH		OIL/GAS/WATER : GAS	
OPERATOR NAME : BALCRON OIL COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204520000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0414740910798889		SECT/TWNSH/RNGE/SP : 004/017N/093W/SWSH	
ZONE NAME : NO		RES CODE/COM CODE : 80 / 600	
MORL WELL ON LEASE : NO		FIRST WELL NUMBER : 5	
TOTAL DEPTH : 9882 FT		AV UPB-LWR PERFS : 8954 - 9050 FT	
DATE DISCOVERED : 78		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE :	
CURRENT CUM OIL : 333.0 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 15428.8 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 0.1 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JUN 79 : 26000 MCFD 0 BWPD/ 920 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 2014		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.067 / 0.000		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 179.1 MMBL		E.U.R. OIL : 512.1 MMBL	
REMAINING GAS : 11940.4 MMCF		E.U.R. GAS : 27967.1 MMCF

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION	TOWNSHIP
49007203660000	262	80463	52565 5 2	101	604ERCS	604ALMD	9644 12 82	2	N 18 W 93
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
New field wildcat		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.84685	41.56212	2	N 18	W 93	1510 FSL 1510 FWL		SW NE SW
OPERATOR		LEASE NAME		WELL NUMBER					
CURR MARATHON OIL		STANDARD DRAW-FED		1-2					
-----REFERENCE-----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6836 KB 6818 GR		STANDARD DRAW		11/16/1977		06/30/1978		ROTARY	
---		PROJECTED---		-----TOTAL DEPTH-----					
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK	
9640 604MVRD		BOMAC EXPL		9644				OLD ZONE CODE	
								604ERCS	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	1526	1600	01						2 3/8 8404
5 1/2	9644	700	04						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LWIS		6460					
LOG TOPS		604ALMD		8666					
LOG TOPS		604ERCS		9436					
-----CORE DATA-----									
CORE ID	INTERVAL	RECOVERY		ZONE		TYPE		SHOW OPSEQ	
CORE 1	8633- 8675			604LWIS		CONV		002	
CORE 2	8675- 8735			604ALMD		CONV		003	
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	5800		%	20/64		604ALMD	PERF		1 8671- 9108
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT	
SEFR	8671- 9108	188000GALS		256000LBS		SAND		KCL	
-----PRODUCTION TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	263		%	24/64		604ALMD	PERF		1 8671- 9108
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT	
SEFR	8671- 9108	188000GALS		256000LBS		SAND		KCL	
-----LOGS-----									
INTERVAL	TYPE		COMPANY						
6300- 9644	NPTD								
7900- 9644	CB								
6100- 9644	DN								
6100- 9644	NEC								
6100- 9644	GR								
8000- 9644	TM

LEASE NAME / CODE : STANDARD DR FED / 025245		WELL ID/COUNT : 378 / 1	
FIELD NAME : 80487STANDARD DRAW		OIL/GAS/WATER : GAS	
OPERATOR NAME : MARATHON OIL COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007203560000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0415620410784674		SECT/TWNSH/RNGE/SP : 002/018N/093W/NESW	
ZONE NAME :		RES. CODE/COM CODE : 80 / 800	
HORL WELL ON LEASE : NO		FIRST WELL NUMBER : 8671 - 9108 FT	
TOTAL DEPTH : 9644 FT		AV UPB-LWR PERFS :	
DATE DISCOVERED : 78		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE : 19	
CURRENT CUM OIL : 452.2 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 19392.3 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 79.5 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JUN 78 : 5800 MCFD 0 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 2422		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.150		HYPERBOLIC EXPONENT : 0.00	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 32 YRS 10 MNTHS	
REMAINING OIL/COND : 133.7		E.U.R. OIL : 585.9 MMBL	
REMAINING GAS : 7428.9		E.U.R. GAS : 26821.2 MMCF

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204390000	262	18900	65005	6 2	101	604ERCS	604ALMD	9600 12 79	
SECTION		TOWNSHIP		RANGE		--SPOT--			
23		N 19		W 93		C SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.84801	41.60457	23	N 19	W 93	1316 FSL 1319 FWL		C SW
-----NARRATIVE-----									
IRREG SEC-SW/4 IS 2630' N-S, 2638' E-W									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR AMOCO PROD		CHAMPLIN242AMOCO J		1					
----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER SPUD		COMPLETION TOOLS		CHANGE	
6892 GR		ECHO SPRINGS		02/03/1979		07/10/1979		ROTARY	
								GAS	
---PROJECTED---				-----TOTAL DEPTH-----					
DEPTH FORMATION CONTRACTOR		DRILLER		LOG PLUG BACK		OLD		ZONE CODE	
9670 604MVRD WESTBURN		9600		9290				604ERCS	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	2505	1300	01	4 1/2	BLANK	8568- 9598		003	2 7/8 8425
7	8881	450	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LWIS		6896					
LOG TOPS		604ALMD		8992					
LOG TOPS		604ERCS		9396					
SAMPLE TOPS		604ALMD		8996					
-----INITIAL POTENTIAL TESTS-----									
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS PERFS/FT
1	30	4448	30	%	16/64	24	604ALMD	PERF	1 9004- 9082 008
-----PRODUCTION TESTS-----									
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS PERFS/FT
1		19		%	48/64	15	604ALMD	PERF	1 9346- 9376
2		65		%	48/64	22	604ALMD	PERF	1 9346- 9376
3		700		%	12/64	24	604ALMD	PERF	1 9004- 9082 006
4	115	4441		%	20/64	23	604ALMD	PERF	1 9004- 9082 007
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SGFR	9346- 9472	140280GALS		261975LBS	SAND		22		REMARKS
									ATP-6750
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
2505- 8893	ILD	LDL							
2505- 8893	GR								
5600- 8893	NEC								
5600- 8893	DN								
5600- 8893	GR								
5600- 8893	CA

LEASE NAME / CODE		CHMP 242 AMOCO J / 026686		WELL ID/COUNT		47 / 1	
FIELD NAME		18900ECHO SPRINGS		OIL/GAS/WATER		GAS	
OPERATOR NAME		AMOCO PRODUCTION COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		48007204390000		COUNTY/STATE		CARBON WYOMING	
COORDINATES		0416045710784782		SECT/TWNSH/RNGE/SP		023/019N/093W/SW	
ZONE NAME				RES CODE/COM CODE		4 6 /	
HORIZ WELL ON LEASE		NO		FIRST WELL NUMBER		500 5	
TOTAL DEPTH		9800 FT		AV UPFLWR PERFS		9004 - 9082 FT	
DATE DISCOVERED		78		DATE COMPLETED			
HISTORIC CUM OIL		0.0 MMBL		CUM DATE			
HISTORIC CUM GAS		0.0 MMCF		CUM DATE			
HISTORIC CUM WATER		0.0 MMBL		CUM DATE			
CURRENT CUM OIL		377.3 MMBL		CUM DATE		FEB 93	
CURRENT CUM GAS		13725.5 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		3.1 MMBL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
				RATE/FTP JUL 79 : 4448 MCFD		30 BWPD/ 2050 PSIG	
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		2343		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		0.075		HYPERBOLIC EXPONENT		0.000	
START DATE		MAR 93		LIFE (UNSCAL CASE)		39 YRS 10 MNTHS	
REMAINING OIL/COND		259.6		E.U.R. OIL		636.9 MMBL	
REMAINING GAS		10816.7		E.U.R. GAS		24544.3 MMCF

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP		SECTION TOWNSHIP RANGE --SPOT--											
API NUMBER		PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH		PRODUCING	TD	ISSUED		3		N	17	W	93	C	NW									
49007204460000		262	11980	65005	6	2	101		604MVRD	604ALMD	9247 12 79																		
INITIAL WELL CLASS			FINAL WELL CLASS			NUMERIC WELL CLASS																							
Development well			Gas well			Producer: 1 GAS Zone																							
STATE COUNTY		LONGITUDE	LATITUDE	SECTION TOWNSHIP		RANGE	-----LOCATION-----				--SPOT--																		
WYO CARBON		107.86674	41.48183	3 N 17 W		93	1335 FNL 1316 FWL				C NW																		
-----NARRATIVE-----																													
IRREG SEC NW/4 IS 2690' N-S, 2633' E-W																													
OPERATOR				LEASE NAME				WELL NUMBER																					
CURR AMOCO PROD				COAL GULCH WI UNIT				1																					
-----REFERENCE-----				FIELD		---LEASE---				-----DATES-----				HOLE		FINAL													
OPERATOR GROUND				NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS				CHANGE		CH4		STATUS											
6730 KB				6716 GR		COAL GULCH		04/17/1979		12/03/1979				ROTARY				GAS											
---PROJECTED---										-----TOTAL DEPTH-----																			
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE CODE																	
9235 604MVRD		WESTBURN		9234		9247		8870				604MVRD																	
-----CASING DATA-----										-----LINER DATA-----										TUBING DATA									
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH																			
9 5/8	2515	1000	01	4 1/2	BLANK	8290- 9232	125	003																					
7	8649	450	02																										
-----TOPS AND BASES-----																													
TYPE		FORMATION		DEPTH																									
LOG TOPS		604ALMD		8756																									
-----INITIAL POTENTIAL TESTS-----																													
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ																	
1	119	5037	22	%	32/64		604ALMD	PERF			8760- 8833	008																	
-----INITIAL POTENTIAL TREATMENT-----																													
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS																			
SGFR	8760- 8833																												
-----PRODUCTION TESTS-----																													
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ																	
1		83		%	48/64	24	604MVRD	PERF			8760- 9062	004																	
2		271		%	1/64		604MVRD	PERF			8760- 9062	005																	
3	15	761		%	14/64	15	604ALMD	PERF			8760- 9062	006																	
4	17	808		%	32/64	20	604ALMD	PERF			8760- 9062	007																	
-----PRODUCTION TESTS TREATMENT-----																													
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS																			
ACID	8760- 9062	2400GALS								7		7 1/2%																	
SGFR	8760- 9062	112308GALS		220000LBS	SAND					21		20/40																	
-----LOGS-----																													
INTERVAL	TYPE	COMPANY																											
0- 9247	ILD	LDL																											
0- 9247	AV																												
0- 9247	DN																												
0- 9247	NEC

LEASE NAME / CODE		COAL GULCH UT C / 027873		WELL ID/COUNT		19 / 1	
FIELD NAME		11980COAL GULCH		OIL/GAS/WATER		GAS	
OPERATOR NAME		AMOCO PRODUCTION COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49007204480000		COUNTY/STATE		CARBON WYOMING	
COORDINATES		0414818810788884		SECT/TWNSH/RNGE/SP		003/017N/093W/NW	
ZONE NAME				RES CODE/COM CODE		4 6 /	
HORL WELL ON LEASE		NO		FIRST WELL NUMBER		600 5	
TOTAL DEPTH		9247 FT		AV UPB-LWR PERFS		8760 - 8833 FT	
DATE DISCOVERED		75		DATE COMPLETED			
HISTORIC CUM OIL		0.0 MMBL		CUM DATE			
HISTORIC CUM GAS		0.0 MMCF		CUM DATE			
HISTORIC CUM WATER		0.0 MMBL		CUM DATE			
CURRENT CUM OIL		214.1 MMBL		CUM DATE		FEB 93	
CURRENT CUM GAS		10788.8 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		4.8 MMBL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
				RATE/FTP DEC 79 : 5037 MCFD 22 BWPD/ 1175 PSIG			
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		2019 0.073 / 0.050 MCFD		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		MAR 93		HYPERBOLIC EXPONENT		0.500	
START DATE		308.8		LIFE (UNESCAL CASE)		39 YRS 10 MNTHS	
REMAINING OIL/COND		12288.7 MMBL		E.U.R. OIL		820.7 MMBL	
REMAINING GAS				E.U.R. GAS		23059.3 MMCF

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007204240000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204240000	262	80463	65005	1 2	101	604ERCS	604ALMD	9288 10 79	
		SECTION		TOWNSHIP	RANGE	--SPOT--			
		11		N 18	W 93	C SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Outpost or extension well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.84742	41.54710	11	N 18	W 93	1325 FSL 1313 FWL		C SW
-----NARRATIVE-----									
IRREG SEC SW/4 IS 1350' N-S, 2626' E-W									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR AMOCO PROD		CHAMPLIN278AMOCO-B		1					
---REFERENCE---		FIELD		---LEASE---		---DATES---		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER SPUD		COMPLETION TOOLS		CHANGE CH4 STATUS	
6800 GR STANDARD DRAW				12/05/1978		05/30/1979		ROTARY GAS	
---PROJECTED---				-----TOTAL DEPTH-----					
DEPTH FORMATION CONTRACTOR		DRILLER		LOG PLUG BACK		OLD		ZONE CODE	
9270 604MVRD TRUE		9288		9156				604ERCS	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	2466	800	01	4 1/2	BLANK	8228- 9288		003	
7	8549	450	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604ALMD		8639					
LOG TOPS		604ERCS		9040					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	23	1906	8	%	32/64	24	604ALMD	PERF	JET
								2 8640- 8958	
								008	
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SGFR	8640- 8658								
-----PRODUCTION TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	75		%	16/64	2	604ALMD	PERF	JET	2 8934- 8941
2	309		%	32/64		604ALMD	PERF	JET	2 8934- 8941
3	190		%	32/64	24	604ALMD	PERF	JET	2 8934- 8941
4	20	1	%	32/64	18	604ALMD	PERF	JET	2 8640- 8658
								004	
								005	
								006	
								007	
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SGFR	8640- 8658	103320GALS	260000LBS	SAND	20				
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
	ILD								
	GR								
	NEC								
	DNC								
	DN								
	GR

LEASE NAME / CODE : CHMP 278 AMOCO B / 025492		WELL ID/COUNT : 119 / 1	
FIELD NAME : 804675 STANDARD DRAW		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204240000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0415459410784740		SECT/TWNSH/RNGE/SP : 011/018N/093W/SW	
ZONE NAME : NO		RES CODE/COM CODE : 4 8 /	
HOEL WELL ON LEASE : NO		FIRST WELL NUMBER : 800 5	
TOTAL DEPTH : 9288 FT		AV UPP-LWR PERFS : 8540 - 8958 FT	
DATE DISCOVERED : 78		DATE COMPLETED : FEB 93	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 345.7 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 10815.7 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 5.1 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
RATE/FTP : MAY 79 : 1906 MCFD		8 BWPD / 820 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 2237		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.060		HYPERBOLIC EXPONENT : 0.000	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS	
REMAINING OIL/COND : 259.9		10 MNTHS : 635.5 MMBL	
REMAINING GAS : 12077.6		E.U.R. GAS : 22893.4 MMCF

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007204510000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP						
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION	TOWNSHIP	RANGE	--SPOT--
49007204510000	262	80463	65005	1 2	101	604ERCS	604ALMD	9307 2 80	33	N 18	W 93	C SW
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS								
Outpost or extension well		Gas well		Producer: 1 GAS Zone								
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--			
WYO	CARBON	107.88577	41.48924	33	N 18	W 93	1319 FSL 1316 FWL		C SW			
-----NARRATIVE-----												
IRREG SEC-SW/4 IS 2638' N-S, 2633' E-W												
OPERATOR		LEASE NAME		WELL NUMBER								
CURR AMOCO PROD		CHAMPLIN 226AMOCO G		1								
---REFERENCE---		FIELD		---LEASE---		---DATES---		HOLE		FINAL		
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS		CHANGE		CH4 STATUS
6722 KB		6707 GR STANDARD DRAW				03/13/1979		12/05/1979 ROTARY				GAS
---PROJECTED---				-----TOTAL DEPTH-----								
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD		ZONE CODE		
9265 604MVRD		WESTBURNE		9300		9307				604ERCS		
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA								
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH		
9 5/8	2477	1300	01	4 1/2	BLANK	8542- 9300	80	003				
7	8850	450	02									
-----TOPS AND BASES-----												
TYPE		FORMATION		DEPTH								
LOG TOPS		604LWIS		7450								
LOG TOPS		604ALMD		8914								
LOG TOPS		604ERCS		9188								
SAMPLE TOPS		604ALMD		8886								
-----INITIAL POTENTIAL TESTS-----												
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ
1	110	4900	60	%	16/64		604ALMD	PERF			8918- 9094	
-----INITIAL POTENTIAL TREATMENT-----												
TYPE	INTERVAL	VOLUME OR WEIGHT		FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS	
SGFR	8918- 9204											
-----PRODUCTION TESTS-----												
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ
1		2163		%	24/64	2	604ALMD	PERF			8918- 9094	
2	2	1940		%	20/64	23	604ALMD	PERF			8918- 9094	
3	45	3429		%	11/64	24	604ALMD	PERF			8918- 9094	
-----PRODUCTION TESTS TREATMENT-----												
TYPE	INTERVAL	VOLUME OR WEIGHT		FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS	
SGFR	8918- 9204	202230GALS			366300LBS	SAND		18			#20/40	
-----LOGS-----												
INTERVAL		TYPE		COMPANY								
8371- 9307		ILD										
8371- 9307		DN										
8371- 9307		NEC										
8371- 9307		GR

LEASE NAME / CODE		CHMP 228 AMOCO G / 026690		WELL ID/COUNT		383 / 1	
FIELD NAME		804675 STANDARD DRAW		OIL/GAS/WATER		GAS	
OPERATOR NAME		AMOCO PRODUCTION COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49007204510000		COUNTY/STATE		CARBON WYOMING	
COORDINATES		0414892010788578		SECT/TWNSH/RNGE/SP		033/018N/093W/SWSW	
ZONE NAME		NO		RES CODE/COM CODE		4 6 / 800 5	
HOBEL WELL ON LEASE		9307 FT		FIRST WELL NUMBER		9194 - 9204 FT	
TOTAL DEPTH		78		AV UPP-LWR PERFS		DATE COMPLETED	
DATE DISCOVERED		0.0 MBL		CUM DATE		FEB 93	
HISTORIC CUM OIL		0.0 MBL		CUM DATE		FEB 93	
HISTORIC CUM GAS		0.0 MBL		CUM DATE		FEB 93	
HISTORIC CUM WATER		0.0 MBL		CUM DATE		FEB 93	
CURRENT CUM OIL		330.2 MBL		CUM DATE		FEB 93	
CURRENT CUM GAS		11745.4 MBL		CUM DATE		FEB 93	
CURRENT CUM WATER		8.9 MBL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
		RATE/FTP DEC 79 : 4900 MCFD		60 BWPD/ 1400 PSIG			
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		1770 MCFD		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		0.069 / 0.050		HYPERBOLIC EXPONENT		0.500	
START DATE		MAR 93		LIFE (UNESCAL CASE)		39 YRS 10 MNTHS	
REMAINING OIL/COND		262.9 MBL		E.U.R. OIL		893.1 MBL	
REMAINING GAS		10112.1 MBL		E.U.R. GAS		21857.5 MBL

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007207330000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION	TOWNSHIP
49007207330000	262	80463	12658	6 2	101	604ALMD	9397 4 82	14	N 18 W 93
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--	
WYO CARBON	107.84797	41.53288	14	N 18	W 93	1420 FSL 1120 FWL		SE NW SW	
OPERATOR		LEASE NAME		WELL NUMBER					
CURR CHAMBERS JERRY EXPL		STANDARD DRAW		14-1					
-----REFERENCE-----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER SPUD		COMPLETION TOOLS		CHANGE CH4 STATUS	
6803 GR		STANDARD DRAW		08/31/1981		02/23/1982 ROTARY		GAS	
---PROJECTED---		-----TOTAL DEPTH-----							
DEPTH FORMATION	CONTRACTOR	DRILLER	LOG	PLUG BACK	OLD	ZONE CODE			
10000 604MVRD	NOT RPTD	9397		9353					
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	1500	1170	01	4 1/2	BLANK	7779- 9397	195	003	2 7/8 7731
7	8577	110	02						
-----TOPS AND BASES-----									
TYPE	FORMATION		DEPTH						
LOG TOPS	604LNCE		4922						
LOG TOPS	604FXHL		6400						
LOG TOPS	604LWIS		7110						
LOG TOPS	603BMAK		8385						
LOG TOPS	604ALMD		8636						
LOG TOPS	604ERCS		9070						
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	4	453	3	%	16/64	604ALMD	PERF		INTERVAL OPSEQ
								8638- 9082	004
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
	ILDF								
	GR								
	DN								
	NEC								
	DNC

LEASE NAME / CODE		STANDARD DRAW 14 / 036650		WELL ID/COUNT		131 / 1	
FIELD NAME		80467STANDARD DRAW		OIL/GAS/WATER		GAS	
OPERATOR NAME		AXEM RESOURCES INCORPORATED		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49007207330000		COUNTY/STATE		CARBON WYOMING	
COORDINATES		0415327110784795		SECT/TWNSH/RNGE/SP		014/018N/093W/NWSW	
ZONE NAME				RES CODE/COM CODE		4 6 /	
HORI WELL ON LEASE		NO		FIRST WELL NUMBER		800 5	
TOTAL DEPTH		9397 FT		AV UPP-LWR PERFS		8538 - 9082 FT	
DATE DISCOVERED		78		DATE COMPLETED			
HISTORIC CUM OIL		0.0 MBSL		CUM DATE			
HISTORIC CUM GAS		0.0 MMCF		CUM DATE			
HISTORIC CUM WATER		0.0 MBSL		CUM DATE			
CURRENT CUM OIL		144.4 MBSL		CUM DATE		FEB 93	
CURRENT CUM GAS		8887.0 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		0.1 MBSL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
				RATE/FTP FEB 92 :		453 MCFD 3 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		2309		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		0.079 / 0.050		HYPERBOLIC EXPONENT		0.500	
START DATE		MAR 93		LIFE (UNESCAL CASE)		39 YRS 10 MNTHS	
REMAINING OIL/COND		180.8		E.U.R. OIL		304.9 MBSL	
REMAINING GAS		12344.9		E.U.R. GAS		21231.9 MMCF	

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-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204620000	262	80463	64808	6 2	101	604MVRD	604MVRD	9500 10 79	
SECTION		TOWNSHIP		RANGE		--SPOT--			
24		N 19		W 93		NW SE SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.82875	41.60446	24	N 19	W 93	1315 FSL 1321 FWL		NW SE SW
OPERATOR		LEASE NAME		WELL NUMBER					
CURR PACIFIC TRANS SUPPLY		FEDERAL		3-24					
-----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6996 KB		6982 GR		STANDARD		DRAW		04/10/1979 08/31/1979 ROTARY	
HOLE		FINAL							
CHANGE		CH4 STATUS		GAS					
---PROJECTED---		-----TOTAL DEPTH-----							
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
9500 604MVRD		OLSEN		9500		9410		604MVRD	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
20	40		01	4 1/2	BLANK	8697- 9499	150	004	2 3/8 8902
9 5/8	1014	300	02						
7	8905	450	03						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LNCE		5124					
LOG TOPS		604LWIS		7144					
LOG TOPS		604MVRD		8988					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS PERFS/FT	INTERVAL OPSEQ
1	2861		%	/64		604MVRD	PERF		8988- 9018 005
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES REMARKS
ACID	8988- 9018		2000GALS						
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
	ILDL								
	EL								
	DN								
	NEC								
	GR								
	AVC								
	CA

LEASE NAME / CODE		FEDERAL 3-24 / 027459		WELL ID/COUNT		123 / 1	
FIELD NAME		80487STANDARD DRAW		OIL/GAS/WATER		GAS	
OPERATOR NAME		PG&E RESOURCES COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49007204820000		COUNTY/STATE		CARSON WYOMING	
COORDINATES		0416044510782861		SECT/TWNSH/RNG/SP		024/019N/093W/SESW	
ZONE NAME				RES CODE/COM CODE		4 6 / 800	
HORL WELL ON LEASE		NO		FIRST WELL NUMBER		5	
TOTAL DEPTH		9500 FT		AV UP-LWR PERFS		8988 - 9018 FT	
DATE DISCOVERED		0.0		DATE COMPLETED			
HISTORIC CUM OIL		0.0 MBSL		CUM DATE			
HISTORIC CUM GAS		0.0 MMCF		CUM DATE			
HISTORIC CUM WATER		0.0 MBSL		CUM DATE			
CURRENT CUM OIL		175.2 MBSL		CUM DATE		FEB 93	
CURRENT CUM GAS		11590.3 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		0.8 MBSL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
		RATE/FTP		AUG 79 : 2881 MCFD		0 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		1881		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		0.070		HYPERBOLIC EXPONENT		0.000	
START DATE		MAR 93		LIFE (UNSCAL CASE)		39 YRS 10 MNTHS	
REMAINING OIL/COND		97.3		E.U.R. OIL		272.5 MBSL	
REMAINING GAS		8844.0		E.U.R. GAS		20434.4 MMCF

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007203380000	262	18900	85105	1 2	101	604MVRD	604MVRD	10011 2 80	
SECTION		TOWNSHIP		RANGE		--SPOT--			
12		N 19		W 93		C SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Outpost or extension well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.82865	41.63351	12	N 19	W 93	1320 FSL 1320 FWL		C SW
OPERATOR		LEASE NAME		WELL NUMBER					
CURR SUN OIL		ECHO SPRINGS-FED		1					
---REFERENCE---		FIELD		---LEASE---		---DATES---		HOLE	
OPERATOR		GROUND NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
7008 GR		ECHO SPRINGS		07/06/1977		11/22/1977		ROTARY	
---		PROJECTED---		---		TOTAL DEPTH---		---	
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
10000 604MVRD		SIGNAL		10011		9815		604MVRD	
-----CASING DATA-----		-----LINER DATA-----		-----TUBING DATA-----					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	1516		01						
5 1/2	10011		02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LWIS		7627					
LOG TOPS		604LWIS		8668					
LOG TOPS		604ALMD		9301					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS PERFS/FT	INTERVAL OPSEQ
1		110	%	/64		604MVRD	PERF		9303- 9330 005
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES REMARKS
SEFR	9303- 9330								
-----PRODUCTION TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS PERFS/FT	INTERVAL OPSEQ
1	1	59	%	/64	9	604MVRD	PERF		9832- 9840 003
2	1539		%	24/64	14	604MVRD	PERF		9303- 9330 004
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES REMARKS
ACID	9832- 9840	1000GALS						HCL	
SEFR	9303- 9330	62000GALS		76500LBS	SAND			HCL

LEASE NAME / CODE : ECHO SPGS FED 1- / 024206		WELL ID/COUNT : 282 / 1	
FIELD NAME : 18900ECHO SPRINGS		OIL/GAS/WATER : GAS	
OPERATOR NAME : UNION PACIFIC RESOURCES COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007203380000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0416333810782851		SECT/TWNSH/RNGE/SP : 012/019N/093W/SW	
ZONE NAME : NO		RES CODE/COM CODE : 80 / 5	
HORIZ WELL ON LEASE : 10011 FT		FIRST WELL NUMBER : 9303 - 9330 FT	
DATE DISCOVERED : 078		AV UPP-LWR PERFS : 9303 - 9330 FT	
HISTORIC CUM OIL : 0.0 MMBL		DATE COMPLETED : FEB 19	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 287.8 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 1117.9 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 2.1 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP NOV 77 : 110 MCFD 0 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 1692		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.078 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 138.5 MMBL		E.U.R. OIL : 428.1 MMBL	
REMAINING GAS : 9232.7 MMCF		E.U.R. GAS : 20350.7 MMCF	

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S.S.L. THU DEC 09 1993 16:22:13

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007204200000

MON JAN 17 1994 18:53:45

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP		SECTION TOWNSHIP RANGE --SPOT--			
API NUMBER		PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED												
49007204200000		262	80463	65005	1 2	101	604ERCS	604ALMD	9400 12 79									35 N 19 W 93 C SW			
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS													
Outpost or extension well				Gas well				Producer: 1 GAS Zone													
STATE COUNTY		LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----				--SPOT--										
WYO CARBON		107.84773	41.58296	35	N 19	W 93	1320 FNL 1322 FWL				C SW										
-----NARRATIVE-----																					
IRREG SEC-SW/4 IS 2644' E-W																					
OPERATOR				LEASE NAME				WELL NUMBER													
CURR AMOCO PROD				CHAMPLIN26 1AMOCO-B				1													
-----REFERENCE-----				FIELD		-----LEASE-----		-----DATES-----				HOLE		FINAL							
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS				CHANGE		CH4 STATUS							
6877 KB		6863 GR		STANDARD DRAW		01/05/1979		07/10/1979				ROTARY		GAS							
---PROJECTED---				-----TOTAL DEPTH-----																	
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK				OLD		ZONE CODE									
9460 604MVRD		SIGNAL		9400								604ERCS									
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA													
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH											
9 5/8	2488	1100	01	4 1/2	BLANK	8387- 9398	125	003													
7	8673	400	02																		
-----TOPS AND BASES-----																					
TYPE		FORMATION		DEPTH																	
LOG TOPS		604LWIS		6480																	
LOG TOPS		604ALMD		8780																	
LOG TOPS		604ERCS		9166																	
SAMPLE TOPS		604ALMD		8789																	
-----INITIAL POTENTIAL TESTS-----																					
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ									
1	10	955	4	%	32/64	24	604ALMD	PERF			8780- 8838	008									
-----PRODUCTION TESTS-----																					
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ									
1		87		%	48/64	24	604ALMD	PERF			8780- 8838	004									
2		700		%	/64	24	604ALMD	PERF			8780- 8838	005									
3	6	1169	106	%	14/64	24	604ALMD	PERF			8780- 8838	006									
4	45	974	17	%	32/64	21	604ALMD	PERF			8780- 8838	007									
-----PRDUCTION TESTS TREATMENT-----																					
TYPE INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT		BREAKDOWN		INJECTION		ADDITIVE		STAGES REMARKS					
SGFR		180000GALS		372000LBS		SAND						19									
-----LOGS-----																					
INTERVAL		TYPE		COMPANY																	
8300- 9400		ILD		LDL																	
8300- 9400		NEC		NEC																	
8300- 9400		DN		DN

LEASE NAME / CODE : CHMP 281 AMOCO B / 028178		WELL ID/COUNT : 116 / 1	
FIELD NAME : 804675 STANDARD DRAW		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204200000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0415829810784788		SECT/TWNSH/RNGE/SP : 035/019N/093W/SW	
ZONE NAME : NO		RES CODE/COM CODE : 04	FIRST WELL NUMBER : 800
HORIZL WELL ON LEASE : 9400 FT		AV UPF-LWR PERFS : 8780 - 8838 FT	
TOTAL DEPTH : 78		DATE COMPLETED : FEB 93	
DATE DISCOVERED : 0.0 MBL		CUM DATE : FEB 93	
HISTORIC CUM OIL : 0.0 MBL		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MBL		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 282.9 MBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 8823.8 MBL		CUM DATE : FEB 93	
CURRENT CUM WATER : 4.5 MBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JUL 79 : 955 MCFD	4 BWPD/ 840 PSIG
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 2112		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : MAR 93		HYPERBOLIC EXPONENT : 0.000	
START DATE : 319.3		LIFE (UNESCAL CASE) : 39 YRS	10 MNTHS
REMAINING OIL/COND : 11402.8		E.U.R. OIL : 802.2	MMBL
		E.U.R. GAS : 20225.6	MMCF

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204610000	262	18900	64808	6 2	101	604MVRD	604MVRD	9743 10 79	
SECTION		TOWNSHIP		RANGE		--SPOT--			
18		N 19		W 92		NE SW SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.80988	41.61880	18	N 19	W 92	1316 FSL 1199 FWL		NE SW SW
OPERATOR		LEASE NAME		WELL NUMBER					
CURR PACIFIC TRANS SUPPLY		FEDERAL		3-18A					
---REFERENCE---		FIELD		---LEASE---		-----DATES-----		HOLE	FINAL
OPERATOR		GROUND NAME		TYPE NUMBER		SPUD COMPLETION		TOOLS	CH4 STATUS
7157 KB		7144 GR ECHO SPRINGS		06/03/1979		09/10/1979		ROTARY	GAS
---PROJECTED---		-----TOTAL DEPTH-----							
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD	ZONE CODE
9700 604MVRD OLSON				9743		9685			604MVRD
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
21	40		01	5		8790- 9742	150	004	2 3/8 9089
10 3/4	1018	500	02						
7 5/8	9119	600	03						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LNCE		5302					
LOG TOPS		604LWIS		7270					
LOG TOPS		604MVRD		9225					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	3200		%	/64		604MVRD	PERF		9227- 9336 005
-----LOGS-----									
INTERVAL	TYPE		COMPANY						
	ILD								
	EL								
	AVC								
	CA								
	GR								
	DN								
	NEC								
	CB

LEASE NAME / CODE : W-037181 3-18A / 028755		WELL ID/COUNT : 291 / 1	
FIELD NAME : 18900ECHO SPRINGS		OIL/GAS/WATER : GAS	
OPERATOR NAME : PG&E RESOURCES COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204810000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0418188810780971		SECT/TWNSH/RNGE/SP : 018/019N/092W/SWSW	
ZONE NAME :		RES CODE/COM CODE : 4 8 /	
HORL WELL ON LEASE : NO		FIRST WELL NUMBER : 500 5	
TOTAL DEPTH : 9743 FT		AV UPP-LWR PERFS : 9227 - 9335 FT	
DATE DISCOVERED : 78		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE :	
CURRENT CUM OIL : 135.9 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 10859.3 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 1.0 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP SEP 79 : 3200 MC/D 0 BWP/D N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 1481		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.118 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 58.1		E.U.R. OIL : 205.1 MMBL	
REMAINING GAS : 8515.2		E.U.R. GAS : 19385.5 MMCF	

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-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007203790000	262	18900	65005	6	2	101	604ERCS	604ALMD	10040 11 81
SECTION		TOWNSHIP		RANGE		--SPOT--			
11		N 19		W 93		C SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.84778	41.63365	11	N 19	W 93	1320 FSL 1316 FWL		C SW
-----NARRATIVE-----									
IRREG SEC									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR AMOCO PROD		CHAMPLIN242AMOCO-D		1					
-----REFERENCE-----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR		GROUND NAME		TYPE NUMBER		SPUD COMPLETION		TOOLS	
6897 GR		ECHO SPRINGS		02/17/1978		09/21/1980		ROTARY	
								GAS	
---PROJECTED---									
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
9925 604MVRD		KENAI LTD		10040		9600		604ERCS	
-----CASING DATA-----									
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	TUBING DATA
9 5/8	2451	500	01						SIZE DEPTH
5 1/2	10025	1000	11						
-----DRILL STEM TESTS-----									
TYPE	INTERVAL	FORMATION	CUSHION	TYPE	SHOW	OPSEQ	MATL	TIME TO SURF	RATE TIMEOPEN
	9240- 9308	603BMAK	2327	WTR	S	002	GAS	596 MCFD	320 545 284 568 5465 526
-----FORMATION TESTS-----									
-----TOPS AND BASES-----									
TYPE	FORMATION	DEPTH							
LOG TOPS	603BMAK	8996							
LOG TOPS	604ALMD	9244							
LOG TOPS	604ERCS	9649							
-----CORE DATA-----									
CORE ID	INTERVAL	RECOVERY	ZONE	TYPE	SHOW	OPSEQ			
CORE 1	9250- 9308	58.00FT	604ALMD	CONV		003			
CORE 2	9319- 9379	53.00FT	604ALMD	CONV		004			
CORE 3	9376- 9436	54.00FT	604ALMD	CONV		005			
CORE 4	9436- 9498	58.00FT	604ALMD	CONV		006			
CORE 5	9498- 9502			CONV		007			
CORE 6	9502- 9562	57.00FT	604ALMD	CONV		008			
CORE 7	9562- 9622	62.00FT	604ALMD	CONV		009			
CORE 8	9622- 9682	59.00FT	604ERCS	CONV		010			
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	3	3214	30	%	19/64	604ALMD	PERF	2	9248- 9284
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SEFR	9248- 9284	588501GALS		109900LBS	SAND		35		6950 PSI

<continued on following page>

LEASE NAME / CODE		CHMP 242 UT D 1 / 030729		WELL ID/COUNT		44 / 1	
FIELD NAME		18900ECHO SPRINGS		OIL/GAS/WATER		GAS	
OPERATOR NAME		AMOCO PRODUCTION COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49007203790000		COUNTY/STATE		CARBON WYOMING	
COORDINATES		0416334710784764		SECT/TWNSH/RNGE/SP		011/019N/093W/SW	
ZONE NAME				RES CODE/COM CODE		04 /	
HORIZ WELL ON LEASE		NO		FIRST WELL NUMBER		5	
TOTAL DEPTH		10040 FT		AV UPPLWR PERFS		9248 - 9284 FT	
DATE DISCOVERED		78		DATE COMPLETED			
HISTORIC CUM OIL		0.0 MMBL		CUM DATE			
HISTORIC CUM GAS		0.0 MMCF		CUM DATE			
HISTORIC CUM WATER		0.0 MMBL		CUM DATE			
CURRENT CUM OIL		354.9 MMBL		CUM DATE		FEB 93	
CURRENT CUM GAS		8875.5 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		4.1 MMBL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
		RATE/FTP SEP 80 : 3214 MCFD		30 BWPD/ 1800 PSIG			
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		2058		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		0.138 / 0.050		HYPERBOLIC EXPONENT		0.500	
START DATE		MAR 93		LIFE (UNSCAL CASE)		39 YRS 10 MNTHS	
REMAINING OIL/COND		310.3 MMBL		E.U.R. OIL		675.1 MMBL	
REMAINING GAS		10341.7 MMCF		E.U.R. GAS		19218.2 MMCF

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007203690000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007203690000	262	93300	65005	5 2	101	604MVRD	604MVRD	9707 9 78	
								SECTION TOWNSHIP	RANGE --SPOT--
								9 N 17 W 93	SW
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
New field wildcat		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.88636	41.45988	9	N 17	W 93	1324 FSL 1323 FWL		SW
-----NARRATIVE-----									
IRREG SEC									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR AMOCO PROD		CHAMPLIN 226AMOCO-B		1					
-----REFERENCE-----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD COMPLETION		TOOLS	
6720 GR WILD ROSE				04/24/1978		08/28/1978		ROTARY	
								HOLE	
								CHANGE CH4 STATUS	
								GAS	
---PROJECTED---									
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
9525 604MVRD		KENAI		9707		9684		604MVRD	
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA	
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	2487	1200	01	4 1/2	BLANK	8473- 9704	225	004	3 1/2 8400
7	8806	640	03						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604MVRD		8994					
-----CORE DATA-----									
CORE ID		INTERVAL		RECOVERY		ZONE TYPE		SHOW OPSEQ	
CORE 1		8959- 8983		23.00FT		604LWIS CONV		002	
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	6188		%	13/34	24	604MVRD	PERF		8994- 9025
								005	
-----LOGS-----									
INTERVAL		TYPE		COMPANY					
		ILD							
		NEC							
		CA							
		DN							
		GR							
		CB							
		AD							
		CCL

LEASE NAME / CODE : CHMP 228 AMOCO B / 024595		WELL ID/COUNT : 426 / 1	
FIELD NAME : 93300WILDROSE		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007203590000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0414597810788635		SECT/TWNSH/RNGE/SP : 008/017N/093W/SW	
ZONE NAME : NO		RES CODE/COM CODE : 80 / 500	
HORIZ. WELL ON LEASE : NO		FIRST WELL NUMBER : 5	
TOTAL DEPTH : 9707 FT		AV. UPP-LWR PERFS : 8994 - 9025 FT	
DATE DISCOVERED : 75		DATE COMPLETED : FEB 19	
HISTORIC CUM OIL : 0.0 MBSL		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MBSL		CUM DATE : FEB 93	
CURRENT CUM OIL : 401.3 MBSL		CUM DATE : FEB 93	
CURRENT CUM GAS : 12187.0 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 2.1 MBSL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP AUG 78 : 6188 MCFD	
		0 BWPD/ 2800 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 1178		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.081 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 205.0		E.U.R. OIL : 808.3 MBSL	
REMAINING GAS : 5211.5		E.U.R. GAS : 18398.5 MMCF

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49037222540000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49037222540000	262	17190	126144	5 2	101	604ERCS	604ALMD	13410 7 90	
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
New field wildcat		Gas well		Producer: 1 GAS Zone					
STATE COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--	
WYO SWEETWTR	108.01007	41.18615	17	N 14	W 94	2178 FNL 539 FWL		SW SW NW	
-----NARRATIVE-----									
6 MI NE TRITON FLD(LEWIS)									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR CELSIUS ENERGY		DRIPPING ROCK		1					
----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6580 KB		6553 GR		DRIPPING ROCK		1		09/22/1983 01/16/1984	
								ROTARY	
								CHANGE CH4 STATUS	
								GAS	
---PROJECTED---		-----TOTAL DEPTH-----							
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK	
13350 604MVRD		RODEN DRLG		13410		13400		12886	
								OLD ZONE CODE	
								604ERCS	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
10 3/4	1514	780		5		10454-13407	100	003	
7 5/8	10749	450							
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		652GRRV		0					
LOG TOPS		652WSTC		2985					
LOG TOPS		619FRUN		5735					
LOG TOPS		604LNCE		9185					
LOG TOPS		604FXHL		10100					
LOG TOPS		604LWIS		10376					
LOG TOPS		604ALMD		12557					
LOG TOPS		604ERCS		12948					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	10000		%	14/64		604ALMD	PERF		2 12557-12597
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SGFR	12557-12597	145620GALS		410000LBS	SAND				20/40
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
	ILD								
	AVC								
	NEC								
	DN								
	GRS								
	DM3

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LEASE NAME / CODE : DRIPPING RK UT 1 / 042529		WELL ID/COUNT : 32 / 1	
FIELD NAME : 17190DRIPPING ROCK		OIL/GAS/WATER : GAS	
OPERATOR NAME : CELSIUS ENERGY COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037222540000		COUNTY/STATE : SWEETWTR WYOMING	
COORDINATES : 0411854510801064		SECT/TWNSH/RNGE/SP : 017/014N/094W/SWNW	
ZONE NAME : NO		RES CODE/COM CODE : 04 / 400	
HOLE WELL ON LEASE : NO		FIRST WELL NUMBER : 5	
TOTAL DEPTH : 13410 FT		AV UPP-LWR PERFS : 12557 -12597 FT	
DATE DISCOVERED : 84		DATE COMPLETED : FEB 93	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 9064.5 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 17.3 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 17.3 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JAN 84 : 10000 MCFT 0 BWPD/ 6480 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 7238 MCFT		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.250		HYPERBOLIC EXPONENT : 0.000	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 16 YRS 10 MNTHS	
REMAINING GAS : 9169.5 MMCF		E.U.R. GAS : 18234.0 MMCF

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204470000	262	93300	65005	5 2	101	604MVRD	604ALMD	9969 9 85	
SECTION TOWNSHIP		RANGE		--SPOT--					
29 N 17 W		93		C SW					
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
New field wildcat		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.90491	41.41623	29	N 17 W	93	1338 FSL 1320 FWL		C SW
-----NARRATIVE-----									
IRREG SEC									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR AMOCO PROD		CHAMPLIN 444AMOCO C		1					
----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6596 KB		6581 GR WILD ROSE		05/17/1979		08/12/1980		ROTARY	
								GAS	
---PROJECTED---		TOTAL DEPTH---							
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
10150 604MVRD		RATCLIFF DRLG		9969		9548		604MVRD	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	2471	1800	01	4 1/2	BLANK	8775- 9969	185	003	
7	9071	450	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604ALMD		9174					
LOG TOPS		604ERCS		9556					
LOG BASES		604ALMD		9448					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	98	4749	55	%	32/64	604ALMD	PERF	1	9180- 9460
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	REMARKS
ACID	9180- 9460								
-----PRODUCTION TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS PER	INTERVAL
1	133		%	48/64	24	604ALMD	PERF	1	9180- 9460
2	30	1026	%	32/64	20	604ALMD	PERF	1	9180- 9460
3	10	150	%	1/64	5	604ALMD	PERF	1	9180- 9460
4	33	2792	10	%	20/64	24	604ALMD	PERF	1
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	STAGES	REMARKS
ACID	9180- 9460	2436GALS					6		400 SCF
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
2471- 9953	ILDL								
2471- 9953	NECL								
2471- 9953	GR

LEASE NAME / CODE : CHMP 444 AMOCO C / 028507		WELL ID/COUNT : 161 / 1	
FIELD NAME : 93300WILDROSE		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204470000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0414162110790511		SECT/TWNSH/RNGE/SP : 029/017N/093W/SW	
ZONE NAME :		RES CODE/COM CODE : 604 /	
HORIZ. WELL ON LEASE :		FIRST WELL NUMBER : 500	
TOTAL DEPTH : 9959 FT		AV. UPP-LWR PERFS : 9180 - 9460 FT	
DATE DISCOVERED : 75		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE :	
CURRENT CUM OIL : 257.9 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 6923.9 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 5.2 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP AUG 80 : 4749 MCFD 55 BWPD/ 846 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 1485		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.052 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 230.0 MMBL		E.U.R. OIL : 487.9 MMBL	
REMAINING GAS : 8846.2 MMCF		E.U.R. GAS : 17770.1 MMCF

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204580000	262	80463	52565	6 2	101	604MVRD	604ALMD	9694 1 81	
SECTION		TOWNSHIP		RANGE		--SPOT--			
16		N 18		W 93		NE SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.88656	41.53303	16	N 18	W 93	1301 FSL 1376 FWL		NE SW
-----NARRATIVE-----									
IRREG SEC									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR MARATHON OIL		STANDARD DRAW		3-16					
---REFERENCE---		FIELD		---LEASE---		---DATES---		HOLE	
OPERATOR		GROUND NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6753 KB		6736 GR		STANDARD DRAW		02/10/1979		05/10/1980 ROTARY	
---		PROJECTED---		---		TOTAL DEPTH---		---	
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
9650 604MVRD		WESTBURNE INTL		9694		9622		604MVRD	
-----CASING DATA-----		-----LINER DATA-----		-----TUBING DATA-----					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
13 3/8	1501	1359	01	5	BLANK	8488- 9690	150	003	2 3/8 8609
7 5/8	8747	832	02						
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	80	3034	%	/64		604ALMD	PERF		2 8858- 9272
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SGFR	8858- 9272	214600GALS		452000LBS	SAND				REMARKS
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
1503- 9681	EL								
1503- 9681	ILDL								
1503- 9681	CA								
6700- 9691	GR								
6700- 9691	DN								
6700- 9691	NEC								
6670- 9680	GR								
6670- 9680	CB								
	AD								
	CCL

LEASE NAME / CODE	STANDARD DR 3-15 / 029532	WELL ID/COUNT	122 / 1
FIELD NAME	80467STANDARD DRAW	OIL/GAS/WATER	GAS
OPERATOR NAME	MARATHON OIL COMPANY	STATUS	ACTIVE
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER	49007204580000	COUNTY/STATE	CARBON WYOMING
COORDINATES	0415327610788612	SECT/TWNSH/RNGE/SP	015/018N/093W/SW
ZONE NAME		RES CODE/COM CODE	60 /
HORL WELL ON LEASE	NO	FIRST WELL NUMBER	800
TOTAL DEPTH	9894 FT	AV UPP-LWR PERFS	5
DATE DISCOVERED	73	DATE COMPLETED	8858 - 9272 FT
HISTORIC CUM OIL	0.0 MBSL	CUM DATE	
HISTORIC CUM GAS	0.0 MMCF	CUM DATE	
HISTORIC CUM WATER	173.8 MBSL	CUM DATE	
CURRENT CUM OIL	7088.7 MBSL	CUM DATE	FEB 93
CURRENT CUM GAS	148.4 MBSL	CUM DATE	FEB 93
CURRENT CUM WATER		CUM DATE	FEB 93
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP	MAY 80 : 3034 MCFD 0 BWPD/ N/R
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY	1792	INITIAL GOR/YIELD	0.0 BBL/MMCF
INIT/FINAL DECLINE	0.084 / 0.050	HYPERBOLIC EXPONENT	0.500
START DATE	MAR 93	LIFE (UNESCAL CASE)	39 YRS 10 MNTHS
REMAINING OIL/COND	200.5 MBSL	E.U.R. OIL	373.8 MBSL
REMAINING GAS	10556.9 MMCF	E.U.R. GAS	17645.5 MMCF

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49037224190000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP								
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION		TOWNSHIP	RANGE	--SPOT--	
49037224190000	140	80790	123450	3	2	101	553MRSN	602DKOT	10954	6	87	31	N 25 W 110	E2 SW NE
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS										
Deeper pool test		Gas well		Producer: 1 GAS Zone										
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--					
WYO	SWEETWTR	109.96296	42.10453	31	N 25	W 110	1980 FNL 1780 FEL		E2 SW NE					
-----NARRATIVE-----														
26 MI W-NW FARSON, WY														
OPERATOR		LEASE NAME		WELL NUMBER										
CURR I T R PET		BLUE FOREST		32-31										
----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE		FINAL				
OPERATOR		GROUND		NAME		TYPE NUMBER SPUD		COMPLETION TOOLS		CHANGE		CH4 STATUS		
6731 KB		6714 GR		SWAN		3		11/11/1986 01/20/1987		ROTARY		GAS		
---PROJECTED---				-----TOTAL DEPTH-----										
DEPTH FORMATION CONTRACTOR				DRILLER		LOG		PLUG BACK		OLD		ZONE CODE		
10965 553MRSN EXETER DRLG				10954		10952		10846				553MRSN		
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA						
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH				
9 5/8	1398		115											
5 1/2	10954		1170											
-----TOPS AND BASES-----														
TYPE		FORMATION		DEPTH										
LOG TOPS		603FRNR1		8669										
LOG TOPS		603FRNR2		9643										
LOG TOPS		602ASPN		10144										
LOG TOPS		602MWRY		10325										
LOG TOPS		602DKOT		10706										
LOG TOPS		553MRSN		10919										
-----INITIAL POTENTIAL TESTS-----														
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ			
1	314	7801	1	%	32/64	602DKOT	PERF	JET	4	10730-10750				
-----PRODUCTION TESTS-----														
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ			
1		1	%	/64		602DKOT	PERF	JET	4	10730-10750				
-----LOGS-----														
INTERVAL		TYPE		COMPANY										
1392-10946		ILDF												
1392-10946		GR												
1392-10946		EL												
9600-10946		NEC												
1392-10946		DNC												
9600-10946		GR												
1392-10946		CA

LEASE NAME / CODE : BFU 32-31 / 049331		WELL ID/COUNT : 908 / 1	
FIELD NAME : 80800SWAN		OIL/GAS/WATER : GAS	
OPERATOR NAME : PRESIDIO OIL COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037224190000		COUNTY/STATE : SWEETWATER WYOMING	
COORDINATES : 0421044610995243		SECT/TWNSH/RNGE/SP : 031/025N/110W/SWNE	
ZONE NAME		RES CODE/COM CODE : 02 /	
HORIZ WELL ON LEASE : NO		FIRST WELL NUMBER : 600	
TOTAL DEPTH : 10954 FT		AV UPB-LWR PERFS : 10730 -10750 FT	
DATE DISCOVERED : 77		DATE COMPLETED	
HISTORIC CUM OIL : 0.0 MBSL		CUM DATE	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE	
HISTORIC CUM WATER : 0.0 MBSL		CUM DATE	
CURRENT CUM OIL : 245.0 MBSL		CUM DATE : FEB 93	
CURRENT CUM GAS : 9923.8 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 0.0 MBSL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JAN 87 : 7801 MCFD	
		1 BWPD/ 2251 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 2707		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.163 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING GAS : 8544.5 MMCF		E.U.R. GAS : 17558.1 MMCF

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP											
API NUMBER		PROVINCE		FIELD OPERATOR		CLASS		STATUS		TOTAL DEPTH		PRODUCING		TD ISSUED		SECTION		TOWNSHIP		RANGE		--SPOT--					
49007204360000		262		80463		65005		5 2		101		604MVRD		604ALMD		9468 12 79		27		N 19		W 93 C SW					
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS																			
New field wildcat				Gas well				Producer: 1 GAS Zone																			
STATE COUNTY		LONGITUDE		LATITUDE		SECTION		TOWNSHIP		RANGE		-----LOCATION-----				--SPOT--											
WYO CARBON		107.86717		41.59023		27		N 19		W 93		1314 FSL 1320 FWL				C SW											
-----NARRATIVE-----																											
IRREG SEC-SW/4 IS 2628' N-S																											
OPERATOR				LEASE NAME				WELL NUMBER																			
CURR AMOCO PROD				CHAMPLIN222 AMOCO D				1																			
---REFERENCE---				FIELD		---LEASE---				-----DATES-----				HOLE		FINAL											
OPERATOR GROUND				NAME		TYPE NUMBER SPUD				COMPLETION TOOLS				CHANGE		CH4 STATUS											
6783 GR				STANDARD DRAW		04/08/1979				11/01/1979				ROTARY		GAS											
---PROJECTED---												-----TOTAL DEPTH-----															
DEPTH FORMATION				CONTRACTOR				DRILLER				LOG PLUG BACK				OLD				ZONE CODE							
9580 604MVRD				EXETER				9468				9060				604MVRD											
-----CASING DATA-----												-----LINER DATA-----												TUBING DATA			
SIZE		DEPTH		CEMENT		OPSEQ		SIZE		TYPE		INTERVAL		CEMENT		OPSEQ		SIZE		DEPTH							
7		8820		450		01		4 1/2		BLANK		8522- 9464		120													
-----TOPS AND BASES-----																											
TYPE		FORMATION		DEPTH																							
LOG TOPS		604ALMD		8914																							
-----INITIAL POTENTIAL TESTS-----																											
OIL		GAS		WATER		BS&W		CHOKE		TIME		ZONE		PROD THRU		PERFS		PERFS/FT		INTERVAL		OPSEQ					
1		36		2805		161		%		32/64		604ALMD		PERF						8924- 9006		007					
-----PRODUCTION TESTS-----																											
OIL		GAS		WATER		BS&W		CHOKE		TIME		ZONE		PROD THRU		PERFS		PERFS/FT		INTERVAL		OPSEQ					
1						%		/64				604ALMD		PERF		JET		4		9078- 9088		002					
2		5				%		48/64		24		604ALMD		PERF		JET		4		9078- 9088		003					
3		104				%		32/64		22		604ALMD		PERF		JET		4		9078- 9088		004					
4		5		78		%		48/64		24		604ALMD		PERF		JET		4		9078- 9088		005					
5		108				%		48/64		23		604ALMD		PERF						8924- 9006		006					
-----PRODUCTION TESTS TREATMENT-----																											
TYPE INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT		BREAKDOWN		INJECTION		ADDITIVE		STAGES		REMARKS									
SGFR 9078- 9088		39396GALS				53114LBS		SAND				14				20/40 SD

LEASE NAME / CODE : CHMP 222 AMOCO D / 026699		WELL ID/COUNT : 121 / 1	
FIELD NAME : 804575 STANDARD DRAW		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204380000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0415902110786703		SECT/TWNSH/RNGE/SP : 027/019N/093W/SW	
ZONE NAME : 9489 NO		RES CODE/COM CODE : 804 /	
HORIZ WELL ON LEASE : 78		FIRST WELL NUMBER : 8924	
TOTAL DEPTH : 9489 FT		AV UPF-LWR PERFS : 800 - 9005 FT	
DATE DISCOVERED : 0.0 MBSL		DATE COMPLETED : FEB 93	
HISTORIC CUM OIL : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM GAS : 27.0 MBSL		CUM DATE : FEB 93	
HISTORIC CUM WATER : 27.0 MBSL		CUM DATE : FEB 93	
CURRENT CUM OIL : 27.0 MBSL		CUM DATE : FEB 93	
CURRENT CUM GAS : 27.0 MBSL		CUM DATE : FEB 93	
CURRENT CUM WATER : 27.0 MBSL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP NOV 79 : 2805 MCFD 181 BWPD/ 757 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 1539		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
UNIT/FINAL DECLINE : 0.078 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 246.8		E.U.R. OIL : 520.0 MBSL	
REMAINING GAS : 8228.1		E.U.R. GAS : 17055.1 MBSL

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49037210690000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION	TOWNSHIP
49037210690000	262	34650	21490 6 2	101	604LWIS	604LWIS	10141 10 78	28	N 24 W 97
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	SWEETWTR	108.39074	42.02652	28	N 24 W 97	1980 FNL	1985 FWL	SE NW	
OPERATOR		LEASE NAME		WELL NUMBER					
CURR DAVIS OIL		UNIT		11					
---REFERENCE---		FIELD		---LEASE---		---DATES---		HOLE	
OPERATOR		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6902 KB		6880 GR HAY RESERVOIR		01/12/1978		06/18/1978		ROTARY	
---		PROJECTED---		---		TOTAL DEPTH---		---	
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
10400 604MVRD		BRINKERHOFF		10141		10081		604LWIS	
-----CASING DATA-----		-----LINER DATA-----		-----TUBING DATA-----					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
10 3/4	800	700	01						2 3/8 9790
5 1/2	10141	280	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LWIS		9660					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	112	7218	%	25/64	24	604LWIS	PERF	JET	2 9930- 9960
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SEFR	9930- 9960								REMARKS
-----PRODUCTION TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	3329		%	13/64	24	604LWIS	PERF	JET	2 9930- 9960
2	1636		%	14/64		604LWIS	PERF	JET	2 9930- 9960
3	10	5000	%	15/64	15	604LWIS	PERF	JET	2 9930- 9960
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SEFR	9930- 9960	180000GALS		143000LBS	SAND				REMARKS
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
	AD								
	NEC								
	DNC								
	ILD

LEASE NAME / CODE		HAY RESERVOIR UT / 023859		WELL ID/COUNT		53 / 1	
FIELD NAME		34850HAY RESERVOIR		OIL/GAS/WATER		GAS	
OPERATOR NAME		PRESIDIO OIL COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49037210590000		COUNTY/STATE		SHEETWTR WYOMING	
COORDINATES		0420265410839072		SECT/TWNSH/RNGE/SP		028/024N/097W/SENW	
ZONE NAME				RES CODE/COM CODE		804 /	
HORL WELL ON LEASE		NO		FIRST WELL NUMBER		500	
TOTAL DEPTH		10141 FT		AV UPP-LWR PERFS		9930 - 9960 FT	
DATE DISCOVERED		78		DATE COMPLETED			
HISTORIC CUM OIL		0.0 MMBL		CUM DATE			
HISTORIC CUM GAS		0.0 MMCF		CUM DATE			
HISTORIC CUM WATER		0.0 MMBL		CUM DATE			
CURRENT CUM OIL		214.9 MMBL		CUM DATE		FEB 93	
CURRENT CUM GAS		13125.7 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		2.3 MMBL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
				RATE/FTP JUN 78 : 7218 MCFO		0 BWPD/ 3850 PSIG	
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		1801		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		0.140		HYPERBOLIC EXPONENT		0.000	
START DATE		MAR 93		LIFE (UNESCAL CASE)		22 YRS 10 MNTHS	
REMAINING GAS		3757.6		E.U.R. GAS		15883.3 MMCF

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP							
API NUMBER		PROVINCE		FIELD OPERATOR		CLASS		STATUS		TOTAL DEPTH		PRODUCING		TD ISSUED		SECTION		TOWNSHIP		RANGE		--SPOT--	
49007203370000		262		80465		65005		1 2		101		604ALMD		604ALMD		9038 2 80		15		N 18		W 93 SW NE SW	
INITIAL WELL CLASS				FINAL WELL CLASS				NUMERIC WELL CLASS															
Outpost or extension well				Gas well				Producer: 1 GAS Zone															
STATE COUNTY		LONGITUDE		LATITUDE		SECTION		TOWNSHIP		RANGE		-----LOCATION-----				--SPOT--							
WYO CARBON		107.86578		41.53245		15		N 18		W 93		1330 FSL 1517 FWL				SW NE SW							
OPERATOR				LEASE NAME				WELL NUMBER															
CURR AMOCO PROD				CHAMPLIN 278AMOCO A				2															
---REFERENCE---				FIELD		---LEASE---		-----DATES-----				HOLE		FINAL									
OPERATOR GROUND				NAME		TYPE NUMBER		SPUD		COMPLETION		TOOLS		CHANGE		CH4 STATUS							
6758 KB				6740 GR		STANDARD		DRAW		09/22/1978		02/06/1980		ROTARY		GAS							
---PROJECTED---										-----TOTAL DEPTH-----													
DEPTH FORMATION				CONTRACTOR				DRILLER		LOG		PLUG BACK		OLD		ZONE CODE							
9600 604MVRD				MANNING				9038								604ALMD							
-----CASING DATA-----										-----LINER DATA-----										TUBING DATA			
SIZE		DEPTH		CEMENT		OPSEQ		SIZE		TYPE		INTERVAL		CEMENT		OPSEQ		SIZE		DEPTH			
9 5/8		2473		1125		01																	
7		7879		300		02																	
-----TOPS AND BASES-----																							
TYPE		FORMATION				DEPTH																	
LOG TOPS		604ALMD				8718																	
-----INITIAL POTENTIAL TESTS-----																							
OIL		GAS		WATER		BS&W		CHOKE		TIME		ZONE		PROD THRU		PERFS		PERFS/FT		INTERVAL		OPSEQ	
1		995				%		17/64				604ALMD		PERF		JET		2		8722- 8743		005	
-----PRODUCTION TESTS-----																							
OIL		GAS		WATER		BS&W		CHOKE		TIME		ZONE		PROD THRU		PERFS		PERFS/FT		INTERVAL		OPSEQ	
1		15		1145		%		32/64		20		604ALMD		PERF		JET		2		8722- 8743		003	
2		11		1506		2		%		24		604ALMD		PERF		JET		2		8722- 8743		004	
-----LOGS-----																							
INTERVAL		TYPE		COMPANY																			
7572- 8980		TM																					
		CB																					
		AD																					
		GR																					
		CCL

LEASE NAME / CODE : CHMP 278 AMOCO A / 026896		WELL ID/COUNT : 113 / 1	
FIELD NAME : 804575 STANDARD DRAW		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007203370000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0415322910786575		SECT/TWNSH/RNGE/SP : 015/018N/093W/NESW	
ZONE NAME :		RES CODE/COM CODE : 804 /	
HORI WELL ON LEASE :		FIRST WELL NUMBER : 800	
TOTAL DEPTH : 9038 FT		AV UPP-LWR PERFS : 8722 - 8743 FT	
DATE DISCOVERED : 78		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MBBL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MBBL		CUM DATE :	
CURRENT CUM OIL : 216.4 MBBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 6627.0 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 8.1 MBBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP FEB 80 : 995 MCFD 0 BOPD/ N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 2392 0.080 MCFD		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : MAR 93		HYPERBOLIC EXPONENT : 0.000	
START DATE : 232.3 MBBL		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 10098.6 MMCF		E.U.R. OIL : 448.7 MBBL	
		E.U.R. GAS : 16725.5 MMCF	

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S.S.L. THU DEC 09 1993 16:22:54

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49037201030000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49037201030000	262	91050	23491	6 2	101	604MVRD	604MVRD	9818 7 68	
SECTION		TOWNSHIP		RANGE		--SPOT--			
24		N 20		W 95		NE NW SE			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	SWEETWTR	108.05164	41.69375	24	N 20	W 95	2063 FSL 1885 FEL		NE NW SE
OPERATOR		LEASE NAME		WELL NUMBER					
CURR DIAMOND SHAMROCK		AMCO-FEDERAL		1-24					
----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6735 DF		6723 GR		WAMSUTTER UNIT		04/12/1968		06/20/1968 ROTARY	
								CHANGE CH4 STATUS	
								GAS	
---PROJECTED---		-----TOTAL DEPTH-----							
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD ZONE CODE	
9960 604MVRD		PIONEER		9818				604MVRD	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
8 5/8	1002	450	01						
5 1/2	9816	210	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LNCE		5260					
LOG TOPS		604LWIS		7424					
LOG TOPS		604MVRD		9420					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	20000		%	/64		604MVRD	PERF		1 9428- 9736
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SWFR	9428- 9736								REMARKS
-----PRODUCTION TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	13200		%	32/64		604MVRD	PERF		1 9428- 9736
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SWFR	9428- 9736	40000GALS		20000LBS	SAND				REMARKS
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
	IL								
	NE								
	CA

LEASE NAME / CODE		AMOCO FED 1-24 / 004547		WELL ID/COUNT		410 / 1	
FIELD NAME		91080WAMSUTTER		OIL/GAS/WATER		GAS	
OPERATOR NAME		BALCRON OIL COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49037201030000		COUNTY/STATE		SWEETWTR WYOMING	
COORDINATES		0416935010805170		SECT/TWNSH/RNGE/SP		024/020N/095W/NWSE	
ZONE NAME				RES CODE/COM CODE		60 /	
HORIZ WELL ON LEASE		NO		FIRST WELL NUMBER		800 5	
TOTAL DEPTH		9818 FT		AV UPP-LWR PERFS		9428 - 9735 FT	
DATE DISCOVERED		58		DATE COMPLETED			
HISTORIC CUM OIL		29.0 MBBL		CUM DATE		FEB 93	
HISTORIC CUM GAS		3081.3 MMCF		CUM DATE		FEB 93	
HISTORIC CUM WATER		0.0 MBBL		CUM DATE		FEB 93	
CURRENT CUM OIL		99.7 MBBL		CUM DATE		FEB 93	
CURRENT CUM GAS		10547.1 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		3.3 MBBL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
		RATE/FTP JUN 88 : 20000 MCFD 0 BWPD/ N/R					
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		1009 0.085 MCFD		INITIAL GOR/YIELD		0.0 BBL/MMCF	
INIT/FINAL DECLINE		MAR 93		HYPERBOLIC EXPONENT		0.000	
START DATE		45.9 MBBL		LIFE (UNESCAL CASE)		39 YRS 10 MNTHS	
REMAINING OIL/COND		5104.8 MMCF		E.U.R. OIL		145.8 MBBL	
REMAINING GAS				E.U.R. GAS		15551.9 MMCF

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007205240000

MON JAN 17 1994 18:53:45

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007205240000	262	80463	17500	6 2	101	604MVRD	604MVRD	9520 3 80	
SECTION		TOWNSHIP		RANGE		--SPOT--			
28		N 18		W 93		C SW SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
Development well		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOC TION-----		--SPOT--
WYO	CARBON	107.88574	41.50383	28	N 18	W 93	1320 FSL 1320 FWL		C SW SW
OPERATOR		LEASE NAME		WELL NUMBER					
CURR COTTON PET CORP		TRIGG-FEDERAL		28-1					
----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE	FINAL
OPERATOR		GROUND NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	CH4 STATUS
6762 KB		6752 GR		STANDARD		DRAW		10/25/1979 01/09/1980	ROTARY GAS
---PROJECTED---		-----TOTAL DEPTH-----							
DEPTH	FORMATION	CONTRACTOR		DRILLER	LOG		PLUG BACK	OLD	ZONE CODE
9500	604MVRD	MANNING #22		9520					604MVRD
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	1556	700	01	4 1/2	BLANK	8531- 9520	150	003	
7	8775	230	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604FXHL		6444					
LOG TOPS		604LWIS		6697					
LOG TOPS		604MVRD		8904					
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	63	1758	3	%	/64	604MVRD	PERF		8907- 8929
INTERVAL OPSEQ									
004									
-----INITIAL POTENTIAL TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES
SWFR	8907- 8929	118240GALS		228500LBS	SAND				REMARKS
-----LOGS-----									
INTERVAL	TYPE	COMPANY							
		ILDL							
		NEC							
		DN

LEASE NAME / CODE : TRIGG FED 28-1 / 026701		WELL ID/COUNT : 386 / 1	
FIELD NAME : 80467STANDARD DRAW		OIL/GAS/WATER : GAS	
OPERATOR NAME : APACHE CORPORATION		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007205240000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0415037810788576		SECT/TWNSH/RNGE/SP : 028/018N/093W/SW	
ZONE NAME : NO		RES CODE/COM CODE : 60 / 5	
HORIZ. WELL ON LEASE : 9520 FT		FIRST WELL NUMBER : 8907	
DATE DISCOVERED : 78		AV. UPP-LWR PERFS : 8907 - 8929 FT	
HISTORIC CUM OIL : 0.0 MMBL		DATE COMPLETED : FEB 19	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 211.2 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 9809.1 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 6.1 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JAN 80 : 1758 MCFTD	
		3 BWPD/ 3100 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 1300		INITIAL GOR/YIELD : 0.0 SBL/MMCF	
INIT/FINAL DECLINE : 0.090		HYPERBOLIC EXPONENT : 0.000	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 34 YRS	
REMAINING OIL/COND : 63.0		E.U.R. OIL : 274.2 MMBL	
REMAINING GAS : 4846.4		E.U.R. GAS : 14655.5 MMCF

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP						
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	SECTION	TOWNSHIP	RANGE	--SPOT--
49037223040000	262	17190	126144	1 2	101	604ERCS	604LWIS	13036 7 90	8	N 14	W 94	SE SW NW
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS								
Outpost or extension well		Gas well		Producer: 1 GAS Zone								
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--			
WYO	SWEETWTR	108.00868	41.20135	8	N 14	W 94	1981 FNL	992 FWL	SE SW NW			
-----NARRATIVE-----												
50 MI SW OF CRESTON, WY												
OPERATOR		LEASE NAME		WELL NUMBER								
CURR CELSIUS ENERGY		DRIPPING ROCK		3								
---REFERENCE---		FIELD	---LEASE---		---DATES---		HOLE		FINAL			
OPERATOR		GROUND	NAME	TYPE NUMBER		SPUD	COMPLETION TOOLS		CHANGE	CH4	STATUS	
6618 KB		6599 GR	DRIPPING ROCK	1		06/06/1984	09/21/1984	ROTARY			GAS	
---PROJECTED---		-----TOTAL DEPTH-----										
DEPTH	FORMATION	CONTRACTOR	DRILLER	LOG	PLUG BACK	OLD	ZONE CODE					
13300	604ALMD	NORTON DRLG	13036	13034			604ERCS					
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA								
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH		
10 3/4	1497	1035							2 7/8	12322		
7 5/8	10747	375										
5 1/2	13036	350										
-----TOPS AND BASES-----												
TYPE		FORMATION		DEPTH								
LOG TOPS		652WSTC		2985								
LOG TOPS		619FRUN		5674								
LOG TOPS		604LNCE		9078								
LOG TOPS		604FXHL		9994								
LOG TOPS		604LWIS		10262								
LOG TOPS		604ALMD		12400								
LOG TOPS		604ERCS		12734								
-----CORE DATA-----												
CORE ID	INTERVAL	RECOVERY	ZONE TYPE		SHOW OPSEQ							
CORE 1	12415-12475	60.00FT	604ALMD CONV									
-----INITIAL POTENTIAL TESTS-----												
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ	
1	5359		%	/64		604LWIS	PERF			2	12394-12400	
-----INITIAL POTENTIAL TREATMENT-----												
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS		
SGFR	12394-12434	105000GALS		196240LBS	SAND					CROSS-LINKED		
-----LOGS-----												
INTERVAL	TYPE	COMPANY										
	ILD	F										
	AVC											
	GR

LEASE NAME / CODE		DRIPPING RK UT 3 / 043779		WELL ID/COUNT		33 / 1	
FIELD NAME		17180DRIPPING ROCK		OIL/GAS/WATER		GAS	
OPERATOR NAME		CELSUS ENERGY COMPANY		STATUS		ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY							
FIRST API NUMBER		49037223040000		COUNTY/STATE		SWEETWTR WYOMING	
COORDINATES		0412016410800903		SECT/TWNSH/RNGE/SP		008/014N/094W/SWNW	
ZONE NAME		NO		RES CODE/COM CODE		604 /	
HORIZ. WELL ON LEASE		13050 FT		FIRST WELL NUMBER		12394	
TOTAL DEPTH		84		AV. UPP-LWR PERFS		-12434 FT	
DATE DISCOVERED		NO		DATE COMPLETED			
HISTORIC CUM OIL		0.0 MMBL		CUM DATE		FEB 93	
HISTORIC CUM GAS		0.0 MMCF		CUM DATE		FEB 93	
HISTORIC CUM WATER		0.0 MMBL		CUM DATE		FEB 93	
CURRENT CUM OIL		3.5 MMBL		CUM DATE		FEB 93	
CURRENT CUM GAS		6699.1 MMCF		CUM DATE		FEB 93	
CURRENT CUM WATER		10.1 MMBL		CUM DATE		FEB 93	
RECENT ALLOWABLE & TEST DATA							
		RATE/FTP		SEP 84 : 6359 MC/FD		O BWP/D N/R	
FUTURE PRODUCTION PROJECTION							
PROJECTED RATE/DAY		3429		INITIAL GOR/YIELD		1.0 BBL/MMCF	
INIT/FINAL DECLINE		0.150		HYPERBOLIC EXPONENT		0.000	
START DATE		MAR 93		LIFE (UNESCAL CASE)		25 YRS	
REMAINING OIL/COND		7.6		E.U.R. OIL		11.1 MMBL	
REMAINING GAS		7601.5		E.U.R. GAS		14300.7 MMCF

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CODES-----WELL NUMERIC-----FORMATION-----										COMP								
API NUMBER		PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH		PRODUCING	TD ISSUED	SECTION		TOWNSHIP	RANGE	--SPOT--			
49037227150000		140	17190	13715	6	2	101	604ALMD	604ALMD	12885	2	91	16	N 14 W 94	NE SW NW			
INITIAL WELL CLASS			FINAL WELL CLASS				NUMERIC WELL CLASS											
Development well			Gas well				Producer: 1 GAS Zone											
STATE COUNTY		LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----				--SPOT--							
WYO SWEETWTR		107.98970	41.18753	16	N 14	W 94	1870 FNL 843 FWL				NE SW NW							
-----NARRATIVE-----																		
20 MI NW BAGGS, WY																		
OPERATOR			LEASE NAME			WELL NUMBER												
CURR UNION PACIFIC RESOURCES			CELSIUS STATE 16-1			1												
---REFERENCE---		FIELD	---LEASE---		-----DATES-----				HOLE	FINAL								
OPERATOR GROUND		NAME	TYPE NUMBER		SPUD	COMPLETION TOOLS				CHANGE	CH4 STATUS							
6634 KB		6608 GR	DRIPPING ROCK		2	03/15/1990 07/01/1990 ROTARY					GAS							
---PROJECTED---					-----TOTAL DEPTH-----													
DEPTH FORMATION		CONTRACTOR			DRILLER		LOG PLUG BACK		OLD	ZONE CODE								
13200 604ALMD		GRACE DRLG			12797		12885			604ALMD								
-----CASING DATA-----					-----LINER DATA-----					TUBING DATA								
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH								
10 3/4	1500	1200																
7 5/8	10448	750																
5	12883	375																
-----DRILL STEM TESTS-----																		
TYPE INTERVAL		FORMATION		CUSHION	TYPE	SHOW	OPSEQ	MATL	TIME TO SURF		RATE	TIMEOPEN	IFP	FFP	ISIP	FSIP	IHP	FHP
10807-10857		604LWIS			MISRUN													
10448-10827		604LWIS				S						5M	868	738	1998	2692	5403	527
-----INITIAL POTENTIAL TESTS-----																		
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL		OPSEQ						
1	1		%	/64		604ALMD	PERF			12250-12269								
-----PRODUCTION TESTS-----																		
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL		OPSEQ						
1	1		%	/64		604ALMD	PERF			12250-12269								
-----LOGS-----																		
INTERVAL		TYPE COMPANY																
10435-12875		AV																
10344-12878		ILDF																
10341-12851		NEC																
10341-12851		DNCP																
10435-12875		AV																
10435-12875		AD

LEASE NAME / CODE : CELSIUS ST 1-16 / 056229		WELL ID/COUNT : 34 / 1	
FIELD NAME : 17190DRIPPING ROCK		OIL/GAS/WATER : GAS	
OPERATOR NAME : UNION PACIFIC RESOURCES COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49037227150000		COUNTY/STATE : SWEETWTR WYOMING	
COORDINATES : 0000000000000000		SEC/TWNSH/RNGE/SP : 016/014N/094W/SWNW	
ZONE NAME : NO		RES CODE/COM CODE : 60 / 400	
HORL WELL ON LEASE : 12255 FT		FIRST WELL NUMBER : 12250 - 12259 FT	
TOTAL DEPTH : 64		AV UPP-LWR PERFS : 12250 - 12259 FT	
DATE DISCOVERED : 0.0 MBSL		DATE COMPLETED : FEB 93	
HISTORIC CUM OIL : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MBSL		CUM DATE : FEB 93	
HISTORIC CUM WATER : 0.0 MBSL		CUM DATE : FEB 93	
CURRENT CUM OIL : 3339.8 MMCF		CUM DATE : FEB 93	
CURRENT CUM GAS : 0.0 MBSL		CUM DATE : FEB 93	
CURRENT CUM WATER : 0.0 MBSL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP JUL 90 : 1 MCFD 0 BWPD/ N/R	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 3924 MCFD		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.194 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING GAS : 10762.9 MMCF		E.U.R. GAS : 14101.9 MMCF	

PREPARED BY THE SCOTIA GROUP, INC.

S.S.L. THU DEC 09 1993 16:23:11

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007203340000

MON JAN 17 1994 18:53:45

-----CODES-----										WELL NUMERIC		-----FORMATION-----				COMP					
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED		SECTION	TOWNSHIP	RANGE	--SPOT--								
49007203340000	262	93300	14702	5 2	101	609CRCS	604MVRD	10100	10 90	20	N 17	W 93	NW								
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS																	
New field wildcat		Gas well		Producer: 1 GAS Zone																	
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--												
WYO	CARBON	107.90580	41.43781	20	N 17	W 93	1377 FNL	1215 FWL	NW												
-----NARRATIVE-----																					
IRREG SEC																					
OPERATOR		LEASE NAME		WELL NUMBER																	
CURR CIG EXPL		HIGH POINT		1-20-17-93																	
-----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE		FINAL											
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS		CHANGE		CH4 STATUS									
6590 GR		WILD ROSE		1		07/30/1977		09/17/1979		ROTARY		GAS									
---PROJECTED---																					
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG PLUG BACK		OLD		ZONE CODE											
10450 604MVRD		ANDERSON DRLG		10100		10067				609CRCS											
-----CASING DATA-----				-----LINER DATA-----				TUBING DATA													
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH											
16	75	96							2 3/8	8991											
10 3/4	1043	800																			
7	8815	500																			
4 1/2	10100	235																			
-----TOPS AND BASES-----																					
TYPE		FORMATION		DEPTH																	
LOG TOPS		604MVRD		9205																	
LOG TOPS		604ERCS		9481																	
-----INITIAL POTENTIAL TESTS-----																					
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ										
1	93	2654	9	%	17/64	604MVRD	PERF		2	9210- 9214											
-----INITIAL POTENTIAL TREATMENT-----																					
TYPE	INTERVAL	VOLUME OR WEIGHT	FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE	STAGES	REMARKS											
SGFR	9210- 9911	90174GALS		148000LBS	SAND					15% HCL											
-----LOGS-----																					
INTERVAL	TYPE	COMPANY																			
8799-10100	ILDL																				
8799-10100	NEC																				
8799-10100	DN																				
8799-10088	AV																				
1050- 8799	GR

LEASE NAME / CODE : CIG 1-20-17-93 / 024368		WELL ID/COUNT : 424 / 1	
FIELD NAME : 93300WILDROSE		OIL/GAS/WATER : GAS	
OPERATOR NAME : CIG EXPLORATION INCORPORATED		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007203340000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0414380510790562		SECT/TWNSH/RNGE/SP : 020 / 017N/093W/NW	
ZONE NAME : NO		RES CODE/COM CODE : 04 / 500	
HORN WELL ON LEASE : 10100 FT		FIRST WELL NUMBER : 9210 - 9911 FT	
TOTAL DEPTH : 75		AV UPP-LWR PERFS : 5	
DATE DISCOVERED : 0.0 MMBL		DATE COMPLETED : FEB 93	
HISTORIC CUM OIL : 0.0 MMCF		CUM DATE : FEB 93	
HISTORIC CUM GAS : 0.0 MMBL		CUM DATE : FEB 93	
HISTORIC CUM WATER : 181.1 MMBL		CUM DATE : FEB 93	
CURRENT CUM OIL : 6597.1 MMCF		CUM DATE : FEB 93	
CURRENT CUM GAS : 12.1 MMBL		CUM DATE : FEB 93	
CURRENT CUM WATER : 12.1 MMBL			
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP SEP 79 : 2654 MC/D 9 BWPD/ 2200 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 1220		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.080 / 0.050		HYPERBOLIC EXPONENT : 0.500	
START DATE : MAR 93		LIFE (NISCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 132.2		E.U. OIL : 313.2 MMBL	
REMAINING GAS : 7342.4		E.U.H. GAS : 14029.5 MMCF

GREATER GREEN RIVER BASIN WELL DATA

API NUMBER 49007204380000

TUE JAN 18 1994 10:34:00

-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP			
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	
49007204380000	262	18900	65005	5 2	101	604MVRD	604ALMD	9722 6 83	
SECTION		TOWNSHIP		RANGE		--SPOT--			
15		N 19		W 93		C SW			
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS					
New field wildcat		Gas well		Producer: 1 GAS Zone					
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--
WYO	CARBON	107.86694	41.61922	15	N 19	W 93	1314 FSL 1329 FWL		C SW
-----NARRATIVE-----									
IRREG SEC									
OPERATOR		LEASE NAME		WELL NUMBER					
CURR AMOCO PROD		CHAMPLIN222 AMOCO C		1					
---REFERENCE---		FIELD		---LEASE---		-----DATES-----		HOLE	
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS	
6795 KB		6780 GR ECHO SPRINGS		03/23/1979		10/19/1979		ROTARY	
								GAS	
---PROJECTED---		TOTAL DEPTH							
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK	
9750 604MVRD		TRUE DRLG		9717		9722		9687	
								OLD ZONE CODE	
								604MVRD	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA					
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE DEPTH
9 5/8	2501	100	01	4 1/2		8677- 9710	120	004	
7	8982	400	02						
-----TOPS AND BASES-----									
TYPE		FORMATION		DEPTH					
LOG TOPS		604LWIS		7164					
LOG TOPS		604ALMD		9110					
LOG TOPS		604ERCS		9486					
-----CORE DATA-----									
CORE ID	INTERVAL	RECOVERY		ZONE TYPE		SHOW		OPSEQ	
CORE 1	9089- 9150	52.00FT		604MVRD CONV		003			
-----INITIAL POTENTIAL TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	210	4300	10	%	18/64	604ALMD	PERF	JET	2
								INTERVAL	
								9115- 9148	
								008	
-----PRODUCTION TESTS-----									
OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT
1	159	3	%	48/64	24	604ALMD	PERF	JET	2
								INTERVAL	
								9115- 9148	
								005	
2	15	848	%	32/64		604ALMD	PERF	JET	2
								INTERVAL	
								9115- 9148	
								006	
3	1200		%	14/64	12	604ALMD	PERF	JET	2
								INTERVAL	
								9115- 9148	
								007	
-----PRODUCTION TESTS TREATMENT-----									
TYPE	INTERVAL	VOLUME OR WEIGHT		FLUID	AMOUNT	AGENT	BREAKDOWN	INJECTION	ADDITIVE
SGFR	9115- 9148	165984GALS			315250LBS	SAND		25	
								20/40 SD	

<continued on following page>

LEASE NAME / CODE : CHMP 222 AMOCO C / 026679		WELL ID/COUNT : 46 / 1	
FIELD NAME : 18900ECHO SPRINGS		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007204380000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0415191710786699		SECT/TWNSH/RNGE/SP : 01S/019N/093W/SW	
ZONE NAME : NO		RES CODE/COM CODE : 60 / 600	
HOBL WELL ON LEASE : 9722 NO		FIRST WELL NUMBER : 9115 5	
TOTAL DEPTH : 76 FT		AV UPP-LWR PERFS : 9115 - 9148 FT	
DATE DISCOVERED : 0.0 MBL		DATE COMPLETED : FFB 93	
HISTORIC CUM OIL : 0.0 MMCF		CUM DATE : FFB 93	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE : FFB 93	
HISTORIC CUM WATER : 0.0 MMCF		CUM DATE : FFB 93	
CURRENT CUM OIL : 259.9 MBL		CUM DATE : FFB 93	
CURRENT CUM GAS : 8452.7 MMCF		CUM DATE : FFB 93	
CURRENT CUM WATER : 4.0 MBL		CUM DATE : FFB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP OCT 79 : 4300 MCFD 10 BWPD/ 2750 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 973 0.081 / 0.050		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : MAR 93		HYPERBOLIC EXPONENT : 0.500	
START DATE : 200.1		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 5130.6		E.U.R. OIL : 470.0 MBL	
		E.U.R. GAS : 13583.3 MMCF	

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-----CODES-----		WELL NUMERIC		-----FORMATION-----		COMP		SECTION TOWNSHIP		RANGE		--SPOT--	
API NUMBER	PROVINCE	FIELD	OPERATOR	CLASS	STATUS	TOTAL DEPTH	PRODUCING	TD ISSUED	13	N 19	W 93	SW	
49007203940000	262	18900	65005	6 2	101	604MVRD	604MVRD	9715 5 79					
INITIAL WELL CLASS		FINAL WELL CLASS		NUMERIC WELL CLASS									
Development well		Gas well		Producer: 1 GAS Zone									
STATE	COUNTY	LONGITUDE	LATITUDE	SECTION	TOWNSHIP	RANGE	-----LOCATION-----		--SPOT--				
WYO	CARBON	107.82870	41.61830	13	N 19	W 93	1120 FSL 1323 FWL		SW				
-----NARRATIVE-----													
IRREG SEC													
OPERATOR		LEASE NAME		WELL NUMBER									
CURR AMOCO PROD		CHAMPLIN 242AMOCO		1									
----REFERENCE----		FIELD		---LEASE---		-----DATES-----		HOLE		FINAL			
OPERATOR GROUND		NAME		TYPE NUMBER		SPUD		COMPLETION TOOLS		CHANGE		CH4 STATUS	
6979 KB		6963 GR ECHO SPRINGS				08/05/1978		04/18/1979		ROTARY		GAS	
---PROJECTED---		-----TOTAL DEPTH-----											
DEPTH FORMATION		CONTRACTOR		DRILLER		LOG		PLUG BACK		OLD		ZONE CODE	
9800 604MVRD		KENAI		9715				9650				604MVRD	
-----CASING DATA-----		-----LINER DATA-----		TUBING DATA									
SIZE	DEPTH	CEMENT	OPSEQ	SIZE	TYPE	INTERVAL	CEMENT	OPSEQ	SIZE	DEPTH			
9 5/8	1894		01	4 1/2	BLANK	8720- 9714	150	003					
7	9042	350	02										
-----TOPS AND BASES-----													
TYPE		FORMATION		DEPTH									
LOG TOPS		604ALMD		9090									
SAMPLE TOPS		604ALMD		9095									
-----INITIAL POTENTIAL TESTS-----													
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ	
1		3939	26	%	32/64	24	604MVRD	PERF		2	9103- 9205	008	
-----INITIAL POTENTIAL TREATMENT-----													
TYPE INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT		BREAKDOWN		INJECTION ADDITIVE STAGES REMARKS	
BDA 9141- 9149													
-----PRODUCTION TESTS-----													
	OIL	GAS	WATER	BS&W	CHOKE	TIME	ZONE	PROD THRU	PERFS	PERFS/FT	INTERVAL	OPSEQ	
1		1400		%	24/64	4	604MVRD	PERF		2	9190- 9205	004	
2		1160		%	48/64	9	604MVRD	PERF		2	9141- 9149	005	
3		4000		%	34/64	28	604MVRD	PERF		2	9103- 9205	006	
4	4	4770		%	32/64	2	604MVRD	PERF		2	9103- 9205	007	
-----PRODUCTION TESTS TREATMENT-----													
TYPE INTERVAL		VOLUME OR WEIGHT		FLUID		AMOUNT		AGENT		BREAKDOWN		INJECTION ADDITIVE STAGES REMARKS	
BDA 9141- 9149		558BLS										NTGN 40000 SCF	
SGFR 9103- 9205		323484GALS		645000LBS		SAND				14			
-----LOGS-----													
INTERVAL	TYPE	COMPANY											
	NEC												
	DNC												
	DN												
	GR												
	CCL												
	CB												
	AV												
	TM

LEASE NAME / CODE : CHMP 242 AMOCO E / 025332		WELL ID/COUNT : 283 / 1	
FIELD NAME : 18900ECHO SPRINGS		OIL/GAS/WATER : GAS	
OPERATOR NAME : AMOCO PRODUCTION COMPANY		STATUS : ACTIVE	
LEASE LOCATION AND PRODUCTION HISTORY			
FIRST API NUMBER : 49007203940000		COUNTY/STATE : CARBON WYOMING	
COORDINATES : 0416193610782955		SECT/TWNSH/RNGE/SP : 013/019N/093W/SW	
ZONE NAME :		RES CODE/COM CODE : 4 6 /	
HORL WELL ON LEASE : NO		FIRST WELL NUMBER : 5	
TOTAL DEPTH : 9715 FT		AV UPP-LWR PERFS : 9103 - 9205 FT	
DATE DISCOVERED : 78		DATE COMPLETED :	
HISTORIC CUM OIL : 0.0 MMBL		CUM DATE :	
HISTORIC CUM GAS : 0.0 MMCF		CUM DATE :	
HISTORIC CUM WATER : 0.0 MMBL		CUM DATE :	
CURRENT CUM OIL : 2200.4 MMBL		CUM DATE : FEB 93	
CURRENT CUM GAS : 8650.3 MMCF		CUM DATE : FEB 93	
CURRENT CUM WATER : 9.7 MMBL		CUM DATE : FEB 93	
RECENT ALLOWABLE & TEST DATA			
		RATE/FTP APR 79 : 3939 MCFO 25 BWPD/ 860 PSIG	
FUTURE PRODUCTION PROJECTION			
PROJECTED RATE/DAY : 773 MCFO		INITIAL GOR/YIELD : 0.0 BBL/MMCF	
INIT/FINAL DECLINE : 0.050		HYPERBOLIC EXPONENT :	
START DATE : MAR 93		LIFE (UNESCAL CASE) : 39 YRS 10 MNTHS	
REMAINING OIL/COND : 71.3 MMBL		E.U.R. OIL : 292.3 MMBL	
REMAINING GAS : 4795.3 MMCF		E.U.R. GAS : 13455.2 MMCF	

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