APPENDIX 5

Baker Hughes/Inteq End of Well Report, Rock Island #4-H

UPRC

END of WELL REPORT

Rock Island 4H

Sec. 4- T19N - R97W

Sweetwater County, Wyoming

Job Number: 410- 101672

Dec. 13, 1998 - Febuary 8, 1999

Prepared by
Jerry Cerkovnik

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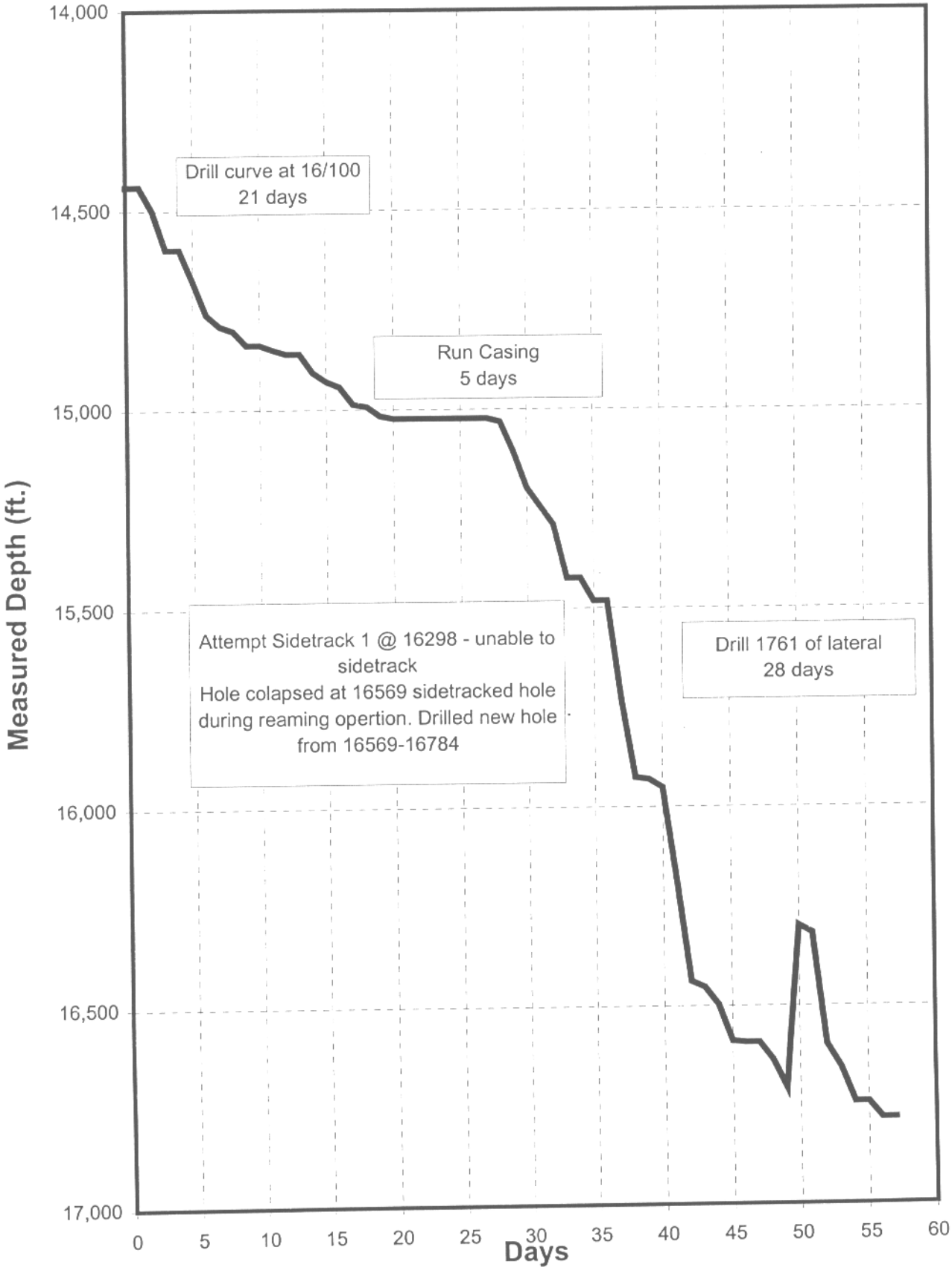
Well Summary

UPRC
Well: Rock Island 4H



UPRC
Well :Rock Island #4H
Sweetwater County, Wyoming

Days	Depth	Footage	Comments	Date
1	14,440	0	Pickup tools	12/14/98
2	14,500	60	Trip in / work on top drive / drill 11 hrs building angle	12/15/98
3	14,597	97	Drill curve	12/16/98
4	14,597	0	Trip to change motor for higher build rates	12/17/98
5	14,676	79	drill curve	12/18/98
6	14,761	85	Drill curve	12/19/98
7	14,790	29	drill 12 hrs / trip for MWD	12/20/98
8	14,802	12	Trip back in and continue curve -	12/21/98
9	14,838	36	drill curve - problem sliding - trip to check motor & BHA	12/22/98
10	14,838	0	Trip change motor	12/23/98
11	14,850	12	Trip in / Trip out MWD failure/ Trip in	12/24/98
12	14,860	10	MPR logging too,l faiure Trip	12/25/98
13	14,860	0	trip wait on tools	12/26/98
14	14,907	47	Drill curve	12/27/98
15	14,929	22	Drill curve tight hole / trip for bit	12/28/98
16	14,943	14	trip in / drill	12/29/98
17	14,987	44	drill curve	12/30/98
18	14,993	6	trip for bit & motor	12/31/98
19	15,016	23	Drill curve	1/1/99
20	15,023	7	BHA Stuck	1/2/99
21	15,023	0	back off start fishing	1/3/99
22	15,023	0	fish	1/4/99
23	15,023	0	Retrive BHA - lay down tools - TD curve run casing	1/5/99
24	15,023	0	Run casing	1/6/99
25	15,023	0	Run casing	1/7/99
26	15,023	0	Run casing	1/8/99
27	15,023	0	Run casing	1/9/99
28	15,031	8	drill out shoe	1/10/99
29	15,106	75	Pickup tools drill lateral 9 hrs	1/11/99
30	15,197	91	Drill lateral	1/12/99
31	15,243	46	Drill lateral trip for bit / motor	1/13/99
32	15,289	46	finish tripping in / drill lateral	1/14/99
33	15,424	135	Drill lateral	1/15/99
34	15,424	0	Trip out / pickup core barrel	1/16/99
35	15,482	58	coring	1/17/99
36	15,482	0	laydown core	1/18/99
37	15,730	248	Drill lateral	1/19/99
38	15,926	196	drill lateral	1/20/99
39	15,931	5	pickup Core Barrel	1/21/99
40	15,952	21	Core	1/22/99
41	16,187	235	Drill lateral	1/23/99
42	16,438	251	drill lateral	1/24/99
43	16,453	15	Trip for bit / motor	1/25/99
44	16,497	44	Drill / TOOH to check tools	1/26/99
45	16,587	90	Drill - tight hole	1/27/99
46	16,591	4	Tight hole - lost three cones on bottom	1/28/99
47	16,591	0	Magnet run - unsuccessful - Trip in dir BHA - stuck	1/29/99
48	16,636	45	drill	1/30/99
49	16,707	71	Drill / TOOH for sidetrack BHA	1/31/99
50	16,300	2	Time drill sidetrack	2/1/99
51	16,318	18	Time drill sidetrack	2/2/99
52	16,596	27	2nd sidetrack off old hole at 16579	2/3/99
53	16,655	59	drill sidetrack 2	2/4/99
54	16,743	88	drill	2/5/99
55	16,743	0	Trip	2/6/99
56	16,784	41	Drill	2/7/99
57	16,784	0	TD lay down tools	2/8/99

Daily Drilling Reports

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 1 Date 12/13/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	
Depth	Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15	Viscocity	44	PV	28	YP	17	WL	8 2
Gels	5/18/35	% Oil		% Solid	28	% Sand	75	PH	8 9	CL	750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3000
2	5.5 X 12	3.55	3000

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	24	ONC	Other Non-circulating
			R/U & CHECK OUT EQUIPMENT

24 Hr Summary R/U MPR SURFACE EQPT & CHECK TOOL

Proj svy at 0 00 NONE ENTERED

Proj svy at 24 00 14440 14440

Bottom Hole Temp (F), Circulating

Formation Name/Depth

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum/Rasmussen, Doc & Steve

COMPANY REP Bob Williams

DAILY COST $3,400 00

CUMMULATIVE COST $3,400 00

BHI JOB # 410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 1 Date 12/13/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	
Depth	Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15	Viscocity	44	PV	28	YP	17	WL	8 2
Gels	5/18/35	% Oil		% Solid	28	% Sand	75	PH	8 9	CL	750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3000
2	5.5 X 12	3.55	3000

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	24	ONC	Other Non-circulating
			R/U & CHECK OUT EQUIPMENT

24 Hr Summary R/U MPR SURFACE EQPT & CHECK TOOL

Proj svy at 0 00 NONE ENTERED

Proj svy at 24 00 14440 14440

Bottom Hole Temp (F), Circulating

Formation Name/Depth

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum/Rasmussen, Doc & Steve

COMPANY REP Bob Williams

DAILY COST $3,400 00

CUMMULATIVE COST $3,400 00

BHI JOB # 410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 2 Date 12/14/98

Company U.P.R.C.
Field Sweetwater
County/Block/Parish Sweetwater
Depth _____ Feet last 24 Hrs _____

Well Name & No Rock Island 4H
Rig Contractor & No Parker Drilling 235
BHA No(s) Today 1,2
Last CSG Depth 9517 Size 11.75

MUD DATA

Mud Type LB POL Weight 15 Viscocity 44 PV 28 YP 17 WL 8 2
Gels 5/18/35 % Oil _____ % Solid 28 % Sand 75 PH 8 9 CL 750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
1	10 5/8	STC	FDSS+SP	LT2566	3-24					1	1	NO	A	0	I	NO	BHA
1	10 5/8	STC	FDSS+SP	LT2566	3-24												

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
2	8	M1P/HF	AKO	2.5	8027							

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3000
2	5.5 X 12	3.55	3000

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	7	ONC	Other Non-circulating
			LOGGING
7 00	4 5	ONC	Other Non-circulating
			P/U MWD BIT #1 & Install WearBushing
11 30	3 5	TI	Tripping In (From Surface)
			Trip In Hole
15 00	1	CIRC	Circulate
			Pump Pill Chg Orders POOH to pu Motor
16 00	4 25	TO	Tripping Out (To Surface)
			Trip Out to Pick Up Motor
20 15	0 5	ONC	Other Non-circulating
			RETRIEVE WEAR BUSHING
20.45	1.5	ONC	Other Non-circulating
			PICK UP MUDMOTOR & SCRIBE
22.15	1.75	TI	Tripping In (From Surface)
			P/U HEAVY WT DRILL PIPE

24 Hr Summary P/U MWD & TIH TO BTM OF CSG, TOH TO
Proj svy at 0 00 14440 14440
Proj svy at 24 00 _____
Bottom Hole Temp (F), Circulating _____
Formation Name/Depth _____
Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough
BHI MWD REP Gillum/Rasmussen, Doc & Steve
COMPANY REP Bob Williams
DAILY COST $27,901 50
CUMMULATIVE COST $31,301 50
BHI JOB # 410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 3 Date 12/15/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	2
Depth	14500 Feet last 24 Hrs 60	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15	Viscocity	44	PV	28	YP	17	WL	8 2
Gels	5/18/35	% Oil		% Solid	28	% Sand	75	PH	8 9	CL	750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
1	10 5/8	STC	FDSS+SP	LT2566	3-24		60	11 000									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
2	8	M1P/HF	AKO	2.5	8027	200.0	11.0	11.0	5.0	5.0	14440	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	1	TI	Tripping In (From Surface)
			Finish picking up 27 HWDP
1.00	0.5	RIGR	Rig Repair
			WORK ON TOP DRIVE
1.30	4	TI	Tripping In (From Surface)
			TIH TO BOTTOM OF CASING
5 30	1.5	RIGS	Rig Service
			CUT DRILL LINE
7.00	1.5	OC	Other Circulating
			TEST MWD
8.30	1	TI	Tripping In (From Surface)
			TRIP IN HOLE
9.30	2	RMG	Reaming
			WASH & REAM TO BTM & LOG
11 30	1	CIRC	Circulate
			CIR GAS KICK
12 30	0.5	RMG	Reaming
			REAM & LOG TO BTM
13 00	7 8333	SLID	Slide Drill fr 14440 to 14485
			DRLG
20 50	2 1667	SLID	Slide Drill fr 14485 to 14495
23 00	1	SLID	Slide Drill fr 14495 to 14500

24 Hr Summary TRIP IN HOLE LOG TO BTM DRLG

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 180

Formation Name/Depth

Remarks

KICKING OFF AT A ANGLE OF 45 DEG AZ. TO BRING HOLE BACK UNDER RIG TO GET AWAY FROM LEASE LINES

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Bob Williams
DAILY COST	$8,401 50
CUMMULATIVE COST	$39,703 00
BHI JOB #	410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 4 Date 12/16/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	2
Depth	14597 Feet last 24 Hrs 97	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15	Viscocity	44	PV	28	YP	17	WL	8 2
Gels	5/18/35	% Oil		% Solid	28	% Sand	75	PH	8 9	CL	750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
1	10 5/8	STC	FDSS+SP	LT2566	3-24		157	31 167									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
2	8	M1P/HF	AKO	2.5	8027	200.0	20.2	31.2	3.8	8.8	14440	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	1 75	SLID	Slide Drill fr 14500 to 14506
			DRLG W/ 1 PUMP
1 45	2.0833	SLID	Slide Drill fr 14506 to 14517
			DRLG W/2 PUMPS
3 50	6.4167	SLID	Slide Drill fr 14517 to 14549
			DRLG
10.15	6 75	SLID	Slide Drill fr 14549 to 14579
			DRLG
17 00	3 1667	SLID	Slide Drill fr 14579 to 14597
20 10	3 8333	CIRC	Circulate
			CIRCULATE BOTTOMS UP WHILE WORKING ON PUMPS

24 Hr Summary SLIDE DRLG

Proj svy at 0 00

Proj svy at 24 00 14597 14587 14 5 42 4

Bottom Hole Temp (F), Circulating 182

Formation Name/Depth

Remarks

BUILD RATES LOW STARTED OFF AT 9 AND ENDED UP AT 11 NEED 14.67 FROM SURVEY POINT 15.73 FROM BIT

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$48,104 50
BHI JOB #	410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 5 Date 12/17/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	2,3
Depth	14597 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15	Viscocity	44	PV	28	YP	17	WL	8 2
Gels	5/18/35	% Oil		% Solid	28	% Sand	75	PH	8 9	CL	750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
1	10 5/8	STC	FDSS+SP	LT2566	3-24		157	31 167	14597	3	3	NO	A	1	I	NO	BHA
2	105/8	HTC	GT1	T09YU	OPEN					2	2	WT	A	0	2/16"	NO	DTF

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
2	8	M1P/HF	AKO	2.5	8027	200.0		31.2	0.5	9.3	14440	14597
3	8	LOBE 4 S	AKO	0	8032							

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	0.5	CIRC	Circulate
			Circulate & pump slug
0 30	10 5	TO	Tripping Out (To Surface)
			POOH to P/U new Motor for higher build rates
11 00	4	ONC	Other Non-circulating
			DOWN LOAD MWD CHG MOT, BIT & ORIENT
15.00	9	TI	Tripping In (From Surface)
			TRIP IN

24 Hr Summary TRIP CHG BHA

Proj svy at 0 00 14597 14587 14 5 42 4

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth

Remarks

PICKED UP BLACK MAX MUD MOTOR SET AT 3 DEG

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$56,506 00
BHI JOB #	410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 6 Date 12/18/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	3
Depth	14676 Feet last 24 Hrs 79	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15	Viscocity	44	PV	28	YP	17	WL	8 2
Gels	5/18/35	% Oil		% Solid	28	% Sand	75	PH	8 9	CL	750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
2	105/8	HTC	GT1	T09YU	OPEN		79	19		2	2	WT	A	0	2/16"	NO	DTF

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
3	8	LOBE 4 S	AKO	0	8032	250.0	19.0	19.0	5.0	5.0	14597	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	0.5	CIRC	Circulate
			BRK CIRC, & LOG 5' TO BOTTOM
0.30	0.75	OC	Other Circulating
			TRYING TO DRILL, KEEP STICKING ON BOTTOM
1.15	10.25	SLID	Slide Drill fr 14597 to 14639
			DRLG
11 30	2 5	OC	Other Circulating
			WORK TIGHT HOLE
14 00	1 5	SLID	Slide Drill fr 14639 to 14642
			DRLG
15 30	1	OC	Other Circulating
			WORK TIGHT HOLE
16.30	5.75	SLID	Slide Drill fr 14642 to 14671
			DRLG
22 15	0 25	SVC	Survey Circulating
			CONNECTION & SURVEY
22.30	1.5	SLID	Slide Drill fr. 14671 to 14676

24 Hr Summary SLIDE DRLG

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 182

Formation Name/Depth

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$64,907 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 7 Date 12/19/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	3
Depth	14761 Feet last 24 Hrs 85	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	44	PV	28	YP	17	WL	8 2
Gels	5/18/35	% Oil		% Solid	28	% Sand	75	PH	8 9	CL	750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
2	105/8	HTC	GT1	T09YU	OPEN		164	42 250		2	2	WT	A	0	2/16"	NO	DTF

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
3	8	LOBE 4 S	AKO	0	8032	250.0	23.3	42.3	0.8	5.8	14597	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	4.25	SLID	Slide Drill fr 14676 to 14993
4.15	0 25	SVC	Survey Circulating
			CHECK SHOT AT 14633
4 30	2 3333	SLID	Slide Drill fr 14993 to 14703
6 50	0 25	SVC	Survey Circulating
			SURVEY @ 14644
7 05	8.4167	SLID	Slide Drill fr 14703 to 14736
15.30	0 25	SVC	Survey Circulating
			WORK HOLE SURVEY
15 45	8 25	SLID	Slide Drill fr 14736 to 14761
			DRLG

24 Hr Summary SLIDE AWAY ALL DAY

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 182

Formation Name/Depth

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401.50
CUMMULATIVE COST	$73,309 00
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 8 Date 12/20/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	3
Depth	14790 Feet last 24 Hrs 29	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	44	PV	28	YP	17	WL	8 2
Gels	5/18/35	% Oil		% Solid	28	% Sand	75	PH	8 9	CL	750

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
2	105/8	HTC	GT1	T09YU	OPEN		193	51 167	14790	2	2	WT	A	0	2/16"	NO	DTF

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
3	8	LOBE 4 S	AKO	0	8032	230.0	8.9	51.2	3.6	9.3	14597	14790

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	1.25	SLID	Slide Drill fr 14761 to 14766
1.15	0.5833	SVC	Survey Circulating
			CONECTION
1 50	7 6667	SLID	Slide Drill fr. 14766 to 14790
			SLIDE DRLG
9.30	0 5	SVC	Survey Circulating
			TRY TO GET MWD TO PULSE
10 00	2.5	CIRC	Circulate
			CIR BMTS UP
12.30	11 5	TO	Tripping Out (To Surface)
			TRIP OUT OF HOLE MWD NO PULSE

24 Hr Summary DRLG, CIR, TRIP OUT

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 182

Formation Name/Depth

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$81,710 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 9 Date 12/21/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	3,4
Depth	14802 Feet last 24 Hrs 12	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
2	105/8	HTC	GT1	T09YU	OPEN		193	51 167									
	10 5/8	REED	EHT11	UW4709	OPEN		12	6									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
3	8	LOBE 4 S	AKO	0	8032	230.0		51.2		9.3	14597	
4	8	LOBE 4 S		0	8032	200.0	6.0	6.0	0.5	0.5	14790	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	6	ONC	Other Non-circulating
			CHANGE BIT, MPR, & MWD SCRIBE & TEST TOOLS
6 00	11 5	TI	Tripping In (From Surface)
17 30	0.5	CIRC	Circulate
			BREAK CIRCULATION
18.00	6	SLID	Slide Drill fr 14790 to 14802
			WHILE SLIDING WE HAVE TO P/U EVERY 4-5'

24 Hr Summary CHANGE OUT TOOLS, TIH & DRLG 14790-1

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 182

Formation Name/Depth BAXTER SHALE

Remarks

-30 DEGREE TEMPERATURES MAKING IT VERY SLOW TO P/U TOOLS & TIH

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$90,112 00
BHI JOB #	410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 10 Date 12/22/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	4
Depth	14838 Feet last 24 Hrs 36	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
	10 5/8	REED	EHT11	UW4709	OPEN		48	19 917	14838	3	3	NO	A	1	2/16"	NO	BHA

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
4	8	LOBE 4 S		0	8032	200.0	13.9	19.9	5.1	5.6	14790	14838

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	0 3333	SVC	Survey Circulating
			SURVEY AT 14740
0.20	13.167	SLID	Slide Drill fr 14802 to 14836
			SLIDE DRLG
13 30	0 25	SVC	Survey Circulating
			SURVEY @14767
13.45	0 75	SLID	Slide Drill fr. 14836 to 14838
			SLID DRLG
14 30	2	CIRC	Circulate
			CIR SPOT LUBER BEAD PILL WORK PIPE GOT 500 PSI INCREASE ON PUMP PSI
16.30	2 5	CIRC	Circulate
			CIR BTMS UP
19 00	5	TO	Tripping Out (To Surface)
			POOHTO CHECK MOTOR

24 Hr Summary DRLG CIR TRIP OUT

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 182

Formation Name/Depth BAXTER SHALE

Remarks

WORKED TIGHT HOLE, SPOTED LUBER BEAD SWEEP GAINED 500 PSI ON PUMP MOTOR GIVE INDICATIONS OF BEING LOCKED UP TRIPED TO CHECK

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$98,513 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 11 Date 12/23/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	4,5
Depth	14838 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
	10 5/8	REED	EHT11	UW4709	OPEN		48	19 917	14838	3	3	NO	A	1	2/16"	NO	BHA
4	10 5/8	STC	FDSS+	LN6369	OPEN					0	1	WT	H	0	I		DTF

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
4	8	LOBE 4 S		0	8032	200.0		19.9	0.5	6.1	14790	14838
5	8	LOBE 4 S	AKO	0	8038							

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	1	RIGR	Rig Repair
			WORKING ON ELEVATORS
1.00	13	TO	Tripping Out (To Surface)
			FINISH POOH
14 00	0 5	SVNC	Survey Non-Circulating
			DDOWN LOAD MWD
14 30	2	ONC	Other Non-circulating
			CHANGE OUT MOTORS 7 ORIENT
16 30	0.5	RIGS	Rig Service
			RIGM SERVICE
17 00	0 5	RIGR	Rig Repair
			WORK ON PUMPS
17.30	0 5	SVC	Survey Circulating
			TEST MWD
18.00	4	TI	Tripping In (From Surface)
			TRIP IN HOLE
22.00	1 5	RIGR	Rig Repair
			FILL PIPE & REPAIR MUD PUMP
23.30	0 5	TI	Tripping In (From Surface)

24 Hr Summary TRIP OUT CHG MOT & ORIENT TIH

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

WET TRIP & -20 DEG TEMPS MAKE FOR SLOW TRIPS

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$106,915 00
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 12 Date 12/24/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	5
Depth	14850 Feet last 24 Hrs 12	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
4	10 5/8	STC	FDSS+	LN6369	OPEN		72	4	14850	0	1	WT	H	0	I		DTF

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
5	8	LOBE 4 S	AKO	0	8038	150.0	4.0	4.0	4.5	4.5	14838	14850

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	4.5	TI	Tripping In (From Surface)
4.30	0.5	RIGR	Rig Repair
			WORK ON TOP DRIVE
5 00	0.5	RMG	Reaming
			BRK CIRC & REAM 60' TO BOTTOM
5 30	4	SLID	Slide Drill fr 14838 to 14850
9 30	4	CIRC	Circulate
			CIR BTMS UP
13.30	9 5	TO	Tripping Out (To Surface)
			POOH
23.00	1	SVNC	Survey Non-Circulating
			DOWN LOAD MWD

24 Hr Summary TIH, DRLG, CIR,TOH

Proj svy at 0 00

Proj svy at 24 00 14850

Bottom Hole Temp (F), Circulating 182

Formation Name/Depth BAXTER SHALE

Remarks

TRIPED IN HOLE, DRILLED, MWD QUIT PULSEING CIR
TRIPED OUT

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$115,316 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 13 Date 12/25/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	6
Depth	14860 Feet last 24 Hrs 10	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
	10 5/8	STC	FDSS+	LN6369	OPEN		10	2 5	14860	0	1	WT	H	0	1/16"		DTF

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
6	8	LOBE 4 S		0	8038	150.0	2.5	2.5	4.5	4.5	14850	14860

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	3	ONC	Other Non-circulating
			CHG OUT MWD REORIENT & TEST
3.00	3	TI	Tripping In (From Surface)
			TRIP IN HOLE
6 00	1	RIGS	Rig Service
			CUT DRLG LINE
7.00	5 5	TI	Tripping In (From Surface)
			TRIP IN HOLE
12 30	0 5	CIRC	Circulate
			FILL UP PIPE & BREAK CIRCULATION
13 00	0 5	SLID	Slide Drill fr 14850 to 14852
			DRILL 2', MPR NOT WORKING
13 30	0 75	CIRC	Circulate
			TRYING TO GET MPR TO START LOGGING
14 15	2	SLID	Slide Drill fr. 14852 to 14860
			DRILLING WITHOUT LOGGING
16.15	3.25	CIRC	Circulate
19.30	4.5	TO	Tripping Out (To Surface)

24 Hr Summary TIH,DRILL 10' W/ DAS WORKING BUT NO

Proj svy at 0 00 14850

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 188

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$6,241 50
CUMMULATIVE COST	$121,558 00
BHI JOB #	410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 14 Date 12/26/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	6,7
Depth	14860 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
	10 5/8	STC	FDSS+	LN6369	OPEN		10	2 5	14860	0	1	WT	H	0	1/16"		DTF
4	10 5/8	STC	FDSS+	LN6369	OPEN		464			2	4	RG	H	1	2/16"	NO	BHA

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
6	8	LOBE 4 S		0	8038	150.0		2.5		4.5	14850	14860
7	8	LOBE 4 S		0	8038				2.0	2.0		

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	3 5	TO	Tripping Out (To Surface)
3.30	1 5	ONC	Other Non-circulating
			L/D MWD & BIT THREADS BETWEEN MPR & DAS GALDED
5.00	7	ONC	Other Non-circulating
			WAIT ON MWD TOOLS
12.00	4	ONC	Other Non-circulating
			PU TOOLS TEST ORIENT RETEST
16 00	6	TI	Tripping In (From Surface)
			TRIP IN HOLE
22 00	2	RMG	Reaming
			WASH TO BOTTOM THROUGH THE CURVE

24 Hr Summary TRIP WAIT ON TOOLS TRIP IN

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

THREADS BETWEEN MPR AND MWD GALLEDED

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$6,241 50
CUMMULATIVE COST	$127,799 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 15 Date 12/27/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	7
Depth	14907 Feet last 24 Hrs 47	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
4	10 5/8	STC	FDSS+	LN6369	OPEN		511	19 5									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
7	8	LOBE 4 S		0	8038	150.0	19.5	19.5	4.5	6.5	14860	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	0 5	OC	Other Circulating
			LOG FROM 14831-14860
0.30	11.5	SLID	Slide Drill fr 14860 to 14890
			SLIDE DRLG
12 00	4	OC	Other Circulating
			TEMPERLY DETAINED WORK TIGHT HOLE
16 00	3 5	SLID	Slide Drill fr. 14890 to 14897
			SLIDE DRLG
19 30	4 5	SLID	Slide Drill fr. 14897 to 14907

24 Hr Summary DRLG AWAY

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 188

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum/Rasmussen, Doc & Steve

COMPANY REP Don Presenkowski

DAILY COST $8,401 50

CUMMULATIVE COST $136,201 00

BHI JOB # 410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 16 Date 12/28/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	7
Depth	14929 Feet last 24 Hrs 22	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
4	10 5/8	STC	FDSS+	LN6369	OPEN		533	34	14929								

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
7	8	LOBE 4 S		0	8038	150.0	14.5	34.0	6.5	13.0	14860	14929

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	11.5	SLID	Slide Drill fr. 14907 to 14926
			SLIDE DRLG
11.30	1.5	OC	Other Circulating
			TEMP DETAINED WORK TIGHT HOLE
13.00	3	SLID	Slide Drill fr. 14926 to 14929
			SLIDE DRLG
16.00	3	OC	Other Circulating
			TEMP. DETAINED WORK TIGHT HOLE
19.00	2	OC	Other Circulating
			MIX AND PUMP PILL
21.00	3	TO	Tripping Out (To Surface)

24 Hr Summary DRLG, WORK TIGHT HOLE, POOH

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 188

Formation Name/Depth BAXTER SHALE

Remarks

PROJECTED TO BIT NEED 11.6 BUILD TO HIT TARGET @ 14863

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$144,602 50
BHI JOB #	410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 17 Date 12/29/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	7,8
Depth	14943 Feet last 24 Hrs 14	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
4	10 5/8	STC	FDSS+	LN6369	OPEN		533	34	14929	2	4	RG	H	1	2/16"	NO	BHA
5	10 5/8	HCC	GT-S1	X34YJ	OPEN		14	8									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
7	8	LOBE 4 S		0	8038	150.0		34.0		13.0	14860	14929
8	8	LOBE 4 S	AKO	0	8013	150.0	8.0	8.0	1.0	1.0	14929	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	4.5	TO	Tripping Out (To Surface)
			TRIP OUT
4 30	3.5	ONC	Other Non-circulating
			CHANGE BIT & MOTOR, SCRIBE & TEST
8 00	3	TI	Tripping In (From Surface)
			TRIP IN
11.00	0 5	RIGS	Rig Service
			RIG SERVICE
11.30	3.5	TI	Tripping In (From Surface)
			TRIP IN
15 00	1	RMG	Reaming
			W & R TO BTM
16 00	8	SLID	Slide Drill fr 14929 to 14943
			DRLG

24 Hr Summary P/U BHA #8 & TIH, DRLG 14931-14943

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 188

Formation Name/Depth BAXTER SHALE

Remarks

TARGET TVD 14863 @ 88 DEGREES

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	Don Presenkowski
DAILY COST	$8,401 50
CUMMULATIVE COST	$153,004 00
BHI JOB #	410101672

BAKER HUGHES
TEQ

DAILY DRILLING REPORT

No 18 Date 12/30/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	8
Depth	14987 Feet last 24 Hrs 44	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	GT-S1	X34YJ	OPEN		58	30 75									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
8	8	LOBE 4 S	AKO	0	8013	150.0	22.8	30.8	1.3	2.3	14929	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	4 75	SLID	Slide Drill fr. 14943 to 14957
4.45	0.75	OC	Other Circulating
			CONNECTION & SURVEY
5 30	18	SLID	Slide Drill fr 14957 to 14987
23.30	0 5	OC	Other Circulating
			CONNECTION & SURVEY

24 Hr Summary DRILLING 14943-14987

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 188

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum/Rasmussen, Doc & Steve

COMPANY REP BOB WILLIAMS

DAILY COST $8,401 50

CUMMULATIVE COST $161,405 50

BHI JOB # 410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 19 Date 12/31/98

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	8,9
Depth	14993 Feet last 24 Hrs 6	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 3	Viscocity	48	PV	2928	YP	15	WL	7 8
Gels	5/16	% Oil		% Solid	29	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	GT-S1	X34YJ	OPEN		64	36 75	14993								
5	10 5/8	HCC	ATJ 22	U85XF	OPEN												

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
8	8	LOBE 4 S	AKO	0	8013	150.0	6.0	36.8	5.0	7.3	14929	14993
9	8	LOBE 4 S		0	8013							

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	6	SLID	Slide Drill fr 14987 to 14993
6.00	2.5	OC	Other Circulating
			TRYING TO DRILL, KEPT STALLING OUT
8.30	2 5	CIRC	Circulate
			CIRC BOTTOMS UP
11 00	9 5	TO	Tripping Out (To Surface)
20 30	1 25	ONC	Other Non-circulating
			CHANGE BIT & TEST TOOLS
21 45	0 75	ONC	Other Non-circulating
			CHANGE OUT GRABBER DIES
22 30	1.5	TI	Tripping In (From Surface)

24 Hr Summary DRLG/MOTOR STALLING/POOH/CHANGE

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 188

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	BOB WILLIAMS
DAILY COST	$8,401 50
CUMMULATIVE COST	$169,807 00
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 20 Date 1/1/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15016 Feet last 24 Hrs 23	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		62	13									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0	13.0	13.0	2.5	2.5	14993	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	1 75	TI	Tripping In (From Surface)
1.45	1.25	ONC	Other Non-circulating
			CUT DRILL LINE
3 00	5	TI	Tripping In (From Surface)
8 00	2.5	RMG	Reaming
10 30	13	SLID	Slide Drill fr 14993 to 15016
23 30	0.5	ONC	Other Non-circulating
			CONNECTION & RIG SERVICE

24 Hr Summary TIH & DRILL 14993-15016

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 188

Formation Name/Depth BAXTER SHALE

Remarks

TARGET TVD IS 14876 @ 88 DEGREES

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	BOB WILLIAMS
DAILY COST	$8,401 50
CUMMULATIVE COST	$178,208 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 21 Date 1/2/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs 7	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0	3.8	16.8	20.3	22.8	14993	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	2 5	SLID	Slide Drill fr. 15016 to 15022
2.30	0.25	SVC	Survey Circulating
			SURVEY AT 14960 & KILL RATE
2 45	1 25	SLID	Slide Drill fr 15022 to 15023
4 00	20	OC	Other Circulating
			TRYING TO WORK PIPE FREE, JARS STOPPEDWORKING AT6AM

24 Hr Summary DRLG, WORK STUCK PIPE

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 188

Formation Name/Depth BAXTER SHALE

Remarks

SPOTED MILL LUBE PILL, WORKED PIPE , SPOTED PIPE LAX AND DIESEL PILL AND WORKED PIPE

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	BOB WILLIAMS
DAILY COST	$8,401 50
CUMMULATIVE COST	$186,610 00
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 22 Date 1/3/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75	15023								

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8		22.8	14993	15023

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	9 5	ONC	Other Non-circulating
			FREE POINT & BACK OFF @14325
9 30	11 5	TO	Tripping Out (To Surface)
			LAY DOWN DCS
21.00	3	TI	Tripping In (From Surface)
			PU WEATHERFORD TOOLS TRIP IN

24 Hr Summary FREEPOINT & BACK OFF

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	BOB WILLIAMS
DAILY COST	$8,401 50
CUMMULATIVE COST	$195,011 50
BHI JOB #	410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 23 Date 1/4/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75	15023								

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8	8.0	30.8	14993	15023

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	12	TI	Tripping In (From Surface)
			TRIP IN W/ WEATHFORD FISHING TOOLS
12 00	3	CIRC	Circulate
			CIR BTMS UP 4' ABOVE FISH
15 00	1	OC	Other Circulating
			SCREW INTO FISH CIR PULL 60 FT
16 00	1	CIRC	Circulate
17.00	1	TO	Tripping Out (To Surface)
			SHORT TRIP OUT TO KOP POINT
18 00	1	TI	Tripping In (From Surface)
19 00	3	CIRC	Circulate
			CIR BTMS UP
22 00	2	TO	Tripping Out (To Surface)

24 Hr Summary TIH W/FISH TOOLS, CIR ,SHORT TRIP,CIR,

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	BOB WILLIAMS
DAILY COST	$8,401 50
CUMMULATIVE COST	$203,413 00
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 24 Date 1/5/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75	15023								

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8		30.8	14993	15023

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	8	TO	Tripping Out (To Surface)
8.00	2	TO	Tripping Out (To Surface)
			LAY DOWN TOOLS
10 00	14	C	Casing
			STAND BY

24 Hr Summary TOH, L/D TOOLS, STAND BY

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum/Rasmussen, Doc & Steve

COMPANY REP BOB WILLIAMS

DAILY COST $8,401 50

CUMMULATIVE COST $211,814 50

BHI JOB # 410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 25 Date 1/6/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8		30.8	14993	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	24	C	Casing
			STAND BY

24 Hr Summary STAND BY

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum/Rasmussen, Doc & Steve
COMPANY REP	BOB WILLIAMS
DAILY COST	$3,400 00
CUMMULATIVE COST	$215,214 50
BHI JOB #	410101672

BAKER HUGHES

DAILY DRILLING REPORT

No 26 Date 1/7/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8		30.8	14993	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	24	C	Casing
			STAND BY

24 Hr Summary STAND BY

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum/Rasmussen, Doc & Steve

COMPANY REP BOB WILLIAMS

DAILY COST $3,400 00

CUMMULATIVE COST $218,614 50

BHI JOB # 410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 27 Date 1/8/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8		30.8	14993	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	24	ONC	Other Non-circulating
			standby

24 Hr Summary Standby

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$3,400 00
CUMMULATIVE COST	$222,014 50
BHI JOB #	410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 28 Date 1/9/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8		30.8	14993	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	24	ONC	Other Non-circulating
			STANDBY

24 Hr Summary STANDBY

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $3,400 00

CUMMULATIVE COST $225,414 50

BHI JOB # 410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 29 Date 1/10/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9
Depth	15023 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8		30.8	14993	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	24	ONC	Other Non-circulating
			Drill out cement & shoe POOH

24 Hr Summary DRILL OUT CEMENT & SHOE, POOH

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $3,400 00

CUMMULATIVE COST $228,814 50

BHI JOB # 410101672

BAKER HUGHES
TEQ

DAILY DRILLING REPORT

No 30 Date 1/11/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9,10
Depth	15106 Feet last 24 Hrs 75	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 5	Viscocity	44	PV	30	YP	14	WL	9 6
Gels	5/14	% Oil		% Solid	29 25	% Sand	5	PH	9 35	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
5	10 5/8	HCC	ATJ 22	U85XF	OPEN		69	16 75	15023								
6	6 5	HCC	STR30D	A22ZH			75	9 25									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
9	8	LOBE 4 S		0	8013	150.0		16.8		30.8	14993	15023
10	4.75	M1ADM	AKO	1.5	55383	150.0	9.3	9.3	3.8	3.8	15031	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	1.5	TO	Tripping Out (To Surface)
			FINISH POOH
1 30	2.5	ONC	Other Non-circulating
			P/U BHA # 10
4 00	4.5	TI	Tripping In (From Surface)
8 30	0 5	RIGS	Rig Service
			CUT DRLG LINE
9 00	2	TI	Tripping In (From Surface)
11 00	0 5	CIRC	Circulate
			BRK CIR CALIBRATE MWD
11.30	2.5	OC	Other Circulating
			LOG F/14951 TO 15031
14.00	1	SLID	Slide Drill fr. 15031 to 15039
15 00	0.25	SVC	Survey Circulating
15 15	3.75	ROT	Rotary Drill fr. 15039 to 15071
19 00	0.25	SVC	Survey Circulating
			SUR @15037 81 7, 40 4, MAGNETIC INTERFERENCE
19 15	4 25	ROT	Rotary Drill fr. 15071 to 15105

24 Hr Summary	TIH, LOG, DRLG
Proj svy at 0 00	
Proj svy at 24 00	15106 14863 2 82 38 3
Bottom Hole Temp (F), Circulating	188
Formation Name/Depth	BAXTER SHALE
Remarks	
BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$235,416 00
BHI JOB #	410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 30 Date 1/11/99

Company	U.P.R.C	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	9,10
Depth	15106 Feet last 24 Hrs 75	Last CSG Depth	9517 Size 11.75

23 30	0 25	SVC	Survey Circulating
			SURVEY @ 15067, 82, 38 3/ MAG ?
23 45	0 25	ROT	Rotary Drill fr 15105 to 15106

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 31 Date 1/12/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	10
Depth	15197 Feet last 24 Hrs 91	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	49	PV	45	YP	15	WL	9 6
Gels	6/13/21	% Oil		% Solid	28	% Sand	5	PH	9 8	CL	1400

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
7	6 5	HCC	STR 30-D	A22ZH	3-16		166	31 5		7	8	BT	A	F	1/16"	ER	TQ

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
10	4.75	M1ADM	AKO	1.5	55383	135.0	22.3	31.5	1.3	5.0	15031	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	3 1667	ROT	Rotary Drill fr 15106 to 15121
3 10	1.25	CIRC	Circulate
			PIPE WAS SLUGGED,COULDN'T SYNC UP MWD TO SLIDE
4 25	3.5833	SLID	Slide Drill fr 15121 to 15137
8 00	0.5	RIGS	Rig Service
8 30	4.25	SLID	Slide Drill fr 15137 to 15154
12.45	5.25	ROT	Rotary Drill fr 15154 to 15178
18 00	2 5	SLID	Slide Drill fr 15178 to 15188
20 30	3 5	ROT	Rotary Drill fr 15188 to 15197

24 Hr Summary DRLG, SLIDE & ROTATE

Proj svy at 0 00 15106 14863 2 82 38 3

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 226

Formation Name/Depth BAXTER SHALE

Remarks

TARGET IS NOW 14870 AT 0 VS WITH A 3.4 DIP

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$242,017 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 32 Date 1/13/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	10
Depth	15243 Feet last 24 Hrs 46	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	49	PV	45	YP	15	WL	9 6
Gels	6/13/21	% Oil		% Solid	28	% Sand	5	PH	9 8	CL	1400

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
7	6 5	HCC	STR 30-D	A22ZH	3-16		212	45 25	15243	7	8	BT	A	F	1/16"	ER	TQ

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
10	4.75	M1ADM	AKO	1.5	55383	133.3	13.8	45.3	2.8	7.8	15031	15243

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	2	ROT	Rotary Drill fr. 15197 to 15203
2 00	0.5	SVC	Survey Circulating
			SPR & SURVEY AT 15167/ 86/ 37.5
2 30	5 75	ROT	Rotary Drill fr. 15203 to 15223
8 15	0 25	SVC	Survey Circulating
8.30	1 75	SLID	Slide Drill fr 15223 to 15230
10 15	0 25	ONC	Other Non-circulating
			CONNECTION
10 30	3	SLID	Slide Drill fr 15230 to 15240
13.30	0 25	SVC	Survey Circulating
13.45	1 25	ROT	Rotary Drill fr. 15240 to 15243
15 00	0.25	TO	Tripping Out (To Surface)
			PULL 2 STANDS
15 15	1 75	CIRC	Circulate
			MIX & PUMP SLUG
17 00	7	TO	Tripping Out (To Surface)

24 Hr Summary	DRLG , TOH
Proj svy at 0 00	
Proj svy at 24 00	
Bottom Hole Temp (F), Circulating	226
Formation Name/Depth	BAXTER SHALE
Remarks	
BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP .	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$248,619 00
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 33 Date 1/14/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	10,11
Depth	15289 Feet last 24 Hrs 46	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	49	PV	45	YP	15	WL	9 6
Gels	6/13/21	% Oil		% Solid	28	% Sand	5	PH	9 8	CL	1400

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
7	6 5	HCC	STR 30-D	A22ZH	3-16		212	45 25	15243	7	8	BT	A	F	1/16"	ER	TQ
8	6 5	HCC	STR 30-D	A21ZH	3-15		90	10 75									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
10	4.75	M1ADM	AKO	1.5	55383	133.3		45.3		7.8	15031	15243
11	4.75	M1ADM	AKO	1.5	042147	137.5	10.8	10.8	2.3	2.3	15243	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	0.5	TO	Tripping Out (To Surface)
0.30	2.5	ONC	Other Non-circulating
			CHANGE BIT, MOTOR, STAB, & FLOAT SUB,& RESCRIBE & TEST.
3 00	8	TI	Tripping In (From Surface)
11 00	0 5	SVC	Survey Circulating
			BREAK CIR CALIBRATE MWD
11 30	3 5	ROT	Rotary Drill fr 15243 to 15264
15 00	0 25	SVC	Survey Circulating
15 15	2 5	ROT	Rotary Drill fr 15264 to 15276
17 45	1 25	RMG	Reaming
			KEPT STALLING POWER SWIVEL&MOTOR
19 00	0.25	SVC	Survey Circulating
19.15	3.75	SLID	Slide Drill fr. 15276 to 15286
23 00	1	ROT	Rotary Drill fr. 15286 to 15289

24 Hr Summary TIH, DRLG

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 226

Formation Name/Depth BAXTER SHALE

Remarks

CHANGE BIT, MOTOR, STAB, FLOATSUB & L/D GUAGE SUB. MOTOR BEARINGS GUAGED AT .180

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$255,220 50
BHI JOB #	410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 34 Date 1/15/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	11
Depth	15424 Feet last 24 Hrs 135	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	49	PV	45	YP	15	WL	9 6
Gels	6/13/21	% Oil		% Solid	28	% Sand	5	PH	9 8	CL	1400

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
8	6 5	HCC	STR 30-D	A21ZH	3-15		361	24 083	15424								

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
11	4.75	M1ADM	AKO	1.5	042147	142.3	13.3	24.1	6.7	8.9	15243	15424

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	0.8333	ROT	Rotary Drill fr 15289 to 15296
0.50	0.6667	RMG	Reaming
			P/U TO SUR, PACKED OFF, BROKE LOOSE & REAM TIGHT HOLE
1.30	0 5	SVC	Survey Circulating
			SURVEY @ 15260' & CHECK FLOW
2 00	1 9167	ROT	Rotary Drill fr 15296 to 15311
3 55	0.1667	SVC	Survey Circulating
			CHECK SHOT AT 15275
4.05	1	ROT	Rotary Drill fr. 15311 to 15326
5.05	0.3333	RMG	Reaming
5 25	0 25	SVC	Survey Circulating
			CONNECTION & SURVEY
5 40	3 5833	ROT	Rotary Drill fr 15326 to 15363
9.15	0.5	SVC	Survey Circulating
9 45	2.5	ROT	Rotary Drill fr. 15363 to 15393
12 15	0 25	SVC	Survey Circulating

24 Hr Summary DRLG, SVY, TRIP OUT

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 226

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $261,822 00

BHI JOB # 410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 34 Date 1/15/99

Company U.P.R.C.
Field Sweetwater
County/Block/Parish Sweetwater
Depth 15424 Feet last 24 Hrs 135

Well Name & No Rock Island 4H
Rig Contractor & No Parker Drilling 235
BHA No(s) Today 11
Last CSG Depth 9517 Size 11.75

12 30	1 25	ROT	Rotary Drill fr. 15393 to 15404
13 45	1.5	SLID	Slide Drill fr 15404 to 15415
15.15	0.25	ROT	Rotary Drill fr. 15415 to 15419
15.30	0 25	SVC	Survey Circulating
			CONN & SURVEY
15.45	0.5	ROT	Rotary Drill fr. 15419 to 15424
16 15	1	CIRC	Circulate
			MOTOR PRESSURED UP COULD NOT GET PRES.TO DROP
17 15	2 75	CIRC	Circulate
			W.O O CIR BTMS UP PUMP PILL
20 00	4	TO	Tripping Out (To Surface)

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 35 Date 1/16/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	11
Depth	15424 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	49	PV	45	YP	15	WL	9 6
Gels	6/13/21	% Oil		% Solid	28	% Sand	5	PH	9 8	CL	1400

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
8	6 5	HCC	STR 30-D	A21ZH	3-15		361	24 083	15424	3	8	BT	G	E	1/16"		CP

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
11	4.75	M1ADM	AKO	1.5	042147	142.3		24.1		8.9	15243	15424

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	4	TO	Tripping Out (To Surface)
4.00	1	ONC	Other Non-circulating
			L/D TOOLS
5 00	2	ONC	Other Non-circulating
			P/U CORE BARRELS
7 00	17	ONC	Other Non-circulating
			TIH & CORE

24 Hr Summary

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$268,423 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 36 Date 1/17/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	11
Depth	15424 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	49	PV	45	YP	15	WL	9 6
Gels	6/13/21	% Oil		% Solid	28	% Sand	5	PH	9 8	CL	1400

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
8	6 5	HCC	STR 30-D	A21ZH	3-15		361	24 083		3	8	BT	G	E	1/16"		CP

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
11	4.75	M1ADM	AKO	1.5	042147	142.3		24.1		8.9	15243	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	24	ONC	Other Non-circulating
			STANDBY WHILE THEY CORE

24 Hr Summary CORING

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $3,400 00

CUMMULATIVE COST $271,823 50

BHI JOB # 410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 37 Date 1/18/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	11,12
Depth	15424 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	49	PV	45	YP	15	WL	9 6
Gels	6/13/21	% Oil		% Solid	28	% Sand	5	PH	9 8	CL	1400

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
8	6 5	HCC	STR 30-D	A21ZH	3-15		361	24 083		3	8	BT	G	E	1/16"		CP
9	6 5	STC	F3DP	LE5312	3-16												

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
11	4.75	M1ADM	AKO	1.5	042147	142.3		24.1		8.9	15243	
12	4.75	M1ADM	AKO	1.5	32978							

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	20	ONC	Other Non-circulating
			TOH, REPAIR RIG
20.00	2	ONC	Other Non-circulating
			P/U BHA #12
22.00	2	TI	Tripping In (From Surface)

24 Hr Summary TOH, L/D CORE,REPAIR RIG, P/U BHA#12

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$278,425 00
BHI JOB #	410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 38 Date 1/19/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	12
Depth	15730 Feet last 24 Hrs 248	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	15 2	Viscocity	49	PV	45	YP	15	WL	9 6
Gels	6/13/21	% Oil		% Solid	28	% Sand	5	PH	9 8	CL	1400

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
9	6 5	STC	F3DP	LE5312	3-16		248	15 750									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
12	4.75	M1ADM	AKO	1.5	32978	145.5	15.8	15.8	4.0	4.0	15482	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	4	TI	Tripping In (From Surface)
4 00	0.5	OC	Other Circulating
			BREAK CIRCULATION
4 30	1 5	SVC	Survey Circulating
			LOG 65' TO BOTTOM & SURVEY
6 00	1.4167	ROT	Rotary Drill fr 15482 to 15513
7 25	0 25	SVC	Survey Circulating
			CONNECTION
7 40	0 1667	ROT	Rotary Drill fr 15513 to 15518
7.50	0.1667	SVC	Survey Circulating
			SURVEY @ 15483
8.00	2	ROT	Rotary Drill fr. 15518 to 15550
10 00	0 25	SVC	Survey Circulating
10.15	2	ROT	Rotary Drill fr 15550 to 15582
12.15	0 25	SVC	Survey Circulating
12.30	1.25	SLID	Slide Drill fr 15582 to 15592

24 Hr Summary TRIP IN, LOG, DRLG

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 242

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $285,026 50

BHI JOB # 410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 38 Date 1/19/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	12
Depth	15730 Feet last 24 Hrs 248	Last CSG Depth	9517 Size 11.75

13.45	1	ROT	Rotary Drill fr. 15592 to 15607
14 45	0 25	ONC	Other Non-circulating
			CONNECTION
15 00	0.25	ROT	Rotary Drill fr 15607 to 15612
15 15	0 25	SVC	Survey Circulating
15 30	2	ROT	Rotary Drill fr 15612 to 15647
17 30	0.25	SVC	Survey Circulating
17.45	1.9167	ROT	Rotary Drill fr. 15647 to 15678
19 40	0 25	SVC	Survey Circulating
			SURVEY @ 15640
19.55	1.5833	ROT	Rotary Drill fr 15678 to 15703
21 30	0 3333	SVC	Survey Circulating
			CONNECTION & SURVEY @ 15667
21 50	2 1667	ROT	Rotary Drill fr 15703 to 15730

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 39 Date 1/20/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	12
Depth	15926 Feet last 24 Hrs 196	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	42	PV	29	YP	11	WL	9 7
Gels	4/8/14	% Oil	2	% Solid	28	% Sand	5	PH	9 36	CL	1300

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
9	6 5	STC	F3DP	LE5312	3-16		444	36 167		6	7	BT	G	6	3/16"	BT	BHA

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
12	4.75	M1ADM	AKO	1.5	32978	147.2	20.4	36.2	3.6	7.6	15482	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	0.5	ROT	Rotary Drill fr. 15730 to 15737
0.30	0.5	SVC	Survey Circulating
			SURVEY @ 15699
1 00	2.8333	ROT	Rotary Drill fr. 15737 to 15769
3 50	0.1667	SVC	Survey Circulating
			SURVEY @ 15732
4 00	3.25	ROT	Rotary Drill fr. 15769 to 15798
7 15	0.25	SVC	Survey Circulating
7 30	6	ROT	Rotary Drill fr. 15798 to 15830
13.30	1.75	RMG	Reaming
			REAM TIGHT HOLE
15.15	2 5	ROT	Rotary Drill fr 15830 to 15861
17.45	0.25	SVC	Survey Circulating
18 00	2 3333	ROT	Rotary Drill fr 15861 to 15892
20.20	0.6667	SVC	Survey Circulating
			REAM 90'/CONNECTION/SURVEY

24 Hr Summary DRLG

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 242

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$7,776 50
CUMMULATIVE COST	$292,803 00
BHI JOB #	410101672

BAKER HUGHES

NTEQ

DAILY DRILLING REPORT

No 39 Date 1/20/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	12
Depth	15926 Feet last 24 Hrs 196	Last CSG Depth	9517 Size 11.75

21.00	3	ROT	Rotary Drill fr. 15892 to 15926

AKER HUGHES

D. LY DRILLING REPORT

No 40 Date 1/21/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	12
Depth	15931 Feet last 24 Hrs 5	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	42	PV	29	YP	11	WL	9 7
Gels	4/8/14	% Oil	2	% Solid	28	% Sand	5	PH	9 36	CL	1300

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
3	6 5	STC	F3DP	LE5312	3-16		449	37	15931	6	7	BT	G	6	3/16"	BT	BHA

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
12	4.75	M1ADM	AKO	1.5	32978	144.7	0.8	37.0	3.7	11.3	15482	15931

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	0.5	SVC	Survey Circulating
			SURVEY @15889
0.30	0.8333	SLID	Slide Drill fr. 15926 to 15931
			ATTEMPT TO SLIDE 10' MOTOR LOCKED UP AFTER 5'.
1 20	3.1667	CIRC	Circulate
4 30	8	TO	Tripping Out (To Surface)
12.30	1	ONC	Other Non-circulating
			LAY DOWN DIR TOOLS
13 30	2	ONC	Other Non-circulating
			PICK UP CORE TOOLS
15 30	2	TI	Tripping In (From Surface)
17 30	0 5	RIGS	Rig Service
18 00	6	TI	Tripping In (From Surface)

24 Hr Summary DRLG , CIR, TOH, PU CORE BBL, TIH

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 226

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $299,404 50

BHI JOB # 410101672

BAKER HUGHES
NTEQ

L. .ILY DRILLING REPORT

No 41 Date 1/22/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	12
Depth	15931 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	42	PV	29	YP	11	WL	9 7
Gels	4/8/14	% Oil	2	% Solid	28	% Sand	5	PH	9 36	CL	1300

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
9	6 5	STC	F3DP	LE5312	3-16		449	37	15931	6	7	BT	G	6	3/16"	BT	BHA

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff. Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
12	4.75	M1ADM	AKO	1.5	32978	144.7		37.0	4.5	15.8	15482	15931

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	2	ONC	Other Non-circulating
			CORE
2.00	4.5	CIRC	Circulate
6 30	6.5	TO	Tripping Out (To Surface)
13 00	2	ONC	Other Non-circulating
			LD CORE & TOOLS
15 00	1 5	ONC	Other Non-circulating
			PU DIR TOOLS, ORIENT & TEST
16 30	5 5	TI	Tripping In (From Surface)

24 Hr Summary CORE, CIR,TOH,PU TOOLS TIH

Proj svy at 0 00

Proj svy at 24 00 NONE ENTERED

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $306,006 00

BHI JOB # 410101672

BAKER HUGHES
NTEQ

D..ILY DRILLING REPORT

No 42 Date 1/23/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	12,13
Depth	16187 Feet last 24 Hrs 235	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	42	PV	29	YP	11	WL	9 7
Gels	4/8/14	% Oil	2	% Solid	28	% Sand	5	PH	9 36	CL	1300

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
9	6 5	STC	F3DP	LE5312	3-16		449	37		6	7	BT	G	6	3/16"	BT	BHA
10	6 5	HCC	STR30D	A232H	15/15/B		235	20 833									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
12	4.75	M1ADM	AKO	1.5	32978	144.7		37.0	1.3	17.0	15482	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	0 75	RMG	Reaming
			15800-15930
0.45	0 5	OC	Other Circulating
			LOG 15930-15952
1 15	0.5	ROT	Rotary Drill fr 15952 to 15957
1.45	0.0833	SVC	Survey Circulating
			SURVEY @ 15920
1 50	1.75	ROT	Rotary Drill fr 15957 to 15972
3 35	0.1667	SVC	Survey Circulating
			CHECK SHOT AT15936
3 45	3.25	SLID	Slide Drill fr. 15972 to 15982
7.00	0.75	ROT	Rotary Drill fr. 15982 to 15986
7.45	0.25	SVC	Survey Circulating
			SURVEY@ 15950
8 00	2 75	ROT	Rotary Drill fr. 15986 to 16021
10 45	0 25	SVC	Survey Circulating
			SURVEY @ 15983
11 00	2	SLID	Slide Drill fr. 16021 to 16031

24 Hr Summary DRLG AWAY

Proj svy at 0 00 NONE ENTERED

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 259

Formation Name/Depth BAXTER SHALE

Remarks

TARGET IS NOW DON'T SLIDE UNLESS THE ANGLE GETS ABOVE 90 OR BELOW 84.

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$312,607 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

D. .ILY DRILLING REPORT

No 42 Date 1/23/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	12,13
Depth	16187 Feet last 24 Hrs 235	Last CSG Depth	9517 Size 11.75

13 00	1.75	ROT	Rotary Drill fr. 16031 to 16051
14 45	0 25	SVC	Survey Circulating
			SURVEY @ 16015
15.00	2.5	ROT	Rotary Drill fr 16051 to 16082
17.30	0.25	SVC	Survey Circulating
			SURVEY @ 16045
17.45	1 9167	ROT	Rotary Drill fr 16082 to 16113
19.40	0.1667	SVC	Survey Circulating
			SURVEY @ 16077
19 50	1.75	ROT	Rotary Drill fr 16113 to 16144
21.35	0.1667	SVC	Survey Circulating
			SURVEY @ 16108
21.45	1.4167	ROT	Rotary Drill fr. 16144 to 16175
23.10	0 3333	SVC	Survey Circulating
			SURVEY @ 16138
23 30	0 5	ROT	Rotary Drill fr 16175 to 16187

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 43 Date 1/24/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	13
Depth	16438 Feet last 24 Hrs 251	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	42	PV	29	YP	11	WL	9 7
Gels	4/8/14	% Oil	2	% Solid	28	% Sand	5	PH	9 36	CL	1300

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
10	6 5	HCC	STR30D	A232H	15/15/B		486	36 833	16438								

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	0.75	ROT	Rotary Drill fr. 16187 to 16207
0.45	0.0833	SVC	Survey Circulating
			SURVEY AT 16172
0.50	2 5	ROT	Rotary Drill fr 16207 to 16238
3 20	0 1667	SVC	Survey Circulating
			SURVEY AT 16202
3 30	1.8333	ROT	Rotary Drill fr: 16238 to 16268
5 20	0.25	SVC	Survey Circulating
			SURVEY AT 16231
5 35	1.9167	ROT	Rotary Drill fr. 16268 to 16301
7.30	0.25	SVC	Survey Circulating
			SURVEY @ 16265
7.45	1.5	ROT	Rotary Drill fr. 16301 to 16333
9.15	0 25	SVC	Survey Circulating
			SURVEY @ 16296
9 30	0 5	SLID	Slide Drill fr 16333 to 16338
10 00	1.25	ROT	Rotary Drill fr. 16338 to 16362

24 Hr Summary DRLG / CIRC/TOH

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 251

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $319,209 00

BHI JOB # 410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 43 Date 1/24/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	13
Depth	16438 Feet last 24 Hrs 251	Last CSG Depth	9517 Size 11.75

11 15	0.25	SVC	Survey Circulating
			SURVEY @ 16329
11.30	2	ROT	Rotary Drill fr. 16362 to 16396
13.30	0.25	SVC	Survey Circulating
			SURVEY @ 16360
13.45	3	ROT	Rotary Drill fr. 16396 to 16428
16.45	0.25	SVC	Survey Circulating
			SURVEY @ 16392
17.00	0.75	ROT	Rotary Drill fr. 16428 to 16438
17 45	3.5	CIRC	Circulate
			REAM TIGHT HOLE
21.15	0.75	ONC	Other Non-circulating
			BLOW OUT KELLEY
22.00	2	TO	Tripping Out (To Surface)

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 44 Date 1/25/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	13,14
Depth	16453 Feet last 24 Hrs 15	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	42	PV	29	YP	11	WL	9 7
Gels	4/8/14	% Oil	2	% Solid	28	% Sand	5	PH	9 36	CL	1300

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
10	6 5	HCC	STR30D	A232H	15/15/B		486	36 833	16438								
11	6 5	DPI	NM521	1962822	45	3 5	15	2		1	2	CR	M	0	I		

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
14	4.75	M1ADM	AKO	1.2	3045	200.0	2.0	2.0	0.8	0.8	16438	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	0.5	ONC	Other Non-circulating
			CHECK FLOW/ WELL IS FLOWING
0.30	1	TI	Tripping In (From Surface)
1.30	5 5	CIRC	Circulate
7.00	5.5	TO	Tripping Out (To Surface)
12.30	1.5	ONC	Other Non-circulating
			CHG MOT & B IT, ORIENT & TEST
14.00	0.5	RIGS	Rig Service
14.30	6 25	TI	Tripping In (From Surface)
20.45	0.25	CIRC	Circulate
			REAM 15863-15925
21.00	0.5	TI	Tripping In (From Surface)
21 30	0 5	CIRC	Circulate
			REAM 16368-16438
22 00	2	ROT	Rotary Drill fr. 16438 to 16453

24 Hr Summary CIR, TRIP OUT, TRIP IN/ DRLG

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $325,810 50

BHI JOB # 410101672

BAKER HUGHES
NTEQ

D..ILY DRILLING REPORT

No 45 Date 1/26/99

Company	U.P.R C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	14,15
Depth	16497 Feet last 24 Hrs 44	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	42	PV	29	YP	11	WL	9 7
Gels	4/8/14	% Oil	2	% Solid	28	% Sand	5	PH	9 36	CL	1300

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
11	6 5	DPI	NM521	1962822	45	3 5	59	9 0833	16497	1	2	CR	M	0	I		
12	6 1/2	RTC	HP53ALK	KT2702	3/16					8	8	CR	A	F	8/16"	LC	TQ

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
14	4.75	M1ADM	AKO	1.2	3045	200.0	7.1	9.1	3.4	4.2	16438	16497
15	4.75	M1ADM		0	3045							

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	0 4167	ROT	Rotary Drill fr 16453 to 16456
0 25	0.25	OC	Other Circulating
			CONNECTION & SURVEY @ 16422
0 40	5.4167	ROT	Rotary Drill fr 16456 to 16490
6 05	0.1667	SVC	Survey Circulating
			SURVEY @ 16455
6 15	1 25	ROT	Rotary Drill fr 16490 to 16497
7.30	3	CIRC	Circulate
10 30	7	TO	Tripping Out (To Surface)
17.30	1	ONC	Other Non-circulating
			CHG BIT CK DIR TOOLS & TEST
18.30	3.5	TI	Tripping In (From Surface)
22.00	1.25	RIGS	Rig Service
			CUT DRILL LINE
23.15	0 75	TI	Tripping In (From Surface)

24 Hr Summary DRLG, CIR, TOH,CK TOOLS, TIH

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $332,412 00

BHI JOB # 410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 46 Date 1/27/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	15
Depth	16587 Feet last 24 Hrs 90	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 5	Viscocity	45	PV	24	YP	20	WL	9
Gels	6/16/28	% Oil	1	% Solid	26	% Sand	5	PH	9 25	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
12	6 1/2	RTC	HP53ALK	KT2702	3/16		90	17 75		8	8	CR	A	F	8/16"	LC	TQ

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff. Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
15	4.75	M1ADM		0	3045	141.7	17.7	17.7	3.8	3.8	16497	

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	2.5	TI	Tripping In (From Surface)
2 30	1	CIRC	Circulate
			REAM 40' TO BOTTOM & WORK TIGHT HOLE.
3.30	3.0833	ROT	Rotary Drill fr. 16497 to 16523
6 35	0.25	SVC	Survey Circulating
			KILL RATE & SURVEY AT 16488
6.50	4.9167	ROT	Rotary Drill fr. 16523 to 16558
11.45	0.5	SVC	Survey Circulating
			SURVEY @16518
12.15	2.75	SLID	Slide Drill fr. 16558 to 16560
15 00	0 75	ROT	Rotary Drill fr 16560 to 16563
15 45	1 75	RMG	Reaming
			WORK TIGHT HOLE
17:30	5.75	ROT	Rotary Drill fr. 16563 to 16586
23 15	0.25	SVC	Survey Circulating
			Survey @ 16550
23.30	0 5	ROT	Rotary Drill fr. 16586 to 16587

24 Hr Summary TIH, DRLG

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$339,013 50
BHI JOB #	410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 47 Date 1/28/99

Company	U.P.R.C	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	15
Depth	16591 Feet last 24 Hrs 4	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 5	Viscocity	45	PV	24	YP	20	WL	9
Gels	6/16/28	% Oil	1	% Solid	26	% Sand	5	PH	9 25	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
12	6 1/2	RTC	EHP53ALK	KT2702	3/16		94	20 25	16591	8	8	CR	A	F	8/16"	LC	TQ

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs. Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
15	4.75	M1ADM		0	3045	137.5	2.5	20.2	4.3	8.0	16497	16591

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	1.25	SLID	Slide Drill fr. 16587 to 16591
1.15	2 25	RMG	Reaming
			REAM & WORK TIGHT HOLE!!
3.30	1 25	ROT	Rotary Drill fr 16591 to 16591
			ATTEMPTING TO DRILL,TORQUING UP W/ 18 WOB, 15 WOB NO DRILL OFF
4 45	2	CIRC	Circulate
			CIRC WHILE THEY MIX THEIR SLUG
6.45	8 25	TO	Tripping Out (To Surface)
15.00	1	ONC	Other Non-circulating
			L/D BHA
16 00	4.5	ONC	Other Non-circulating
			P/U MAGNET & TIH
20.30	1	ONC	Other Non-circulating
			CUT DRILL LINE
21.30	2.5	ONC	Other Non-circulating
			TIH W/ MAGNET

24 Hr Summary DRLG/TOH/ TIH WITH MAGNET.

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

AFTER SLIDING 5 FEET, THE MOTOR STALLED OUT. AFTER PICKING UP, IT TOOK US AN HOUR AND 15 MINUTES TO WORK THROUGH THE TIGHT HOLE AND GET BACK TO BOTTOM. WE SPENT ANOTHER HOUR AND 15 MINUTES TRYING TO MAKE IT DRILL. TOH ALL 3 CONES GONE MOST OF THE SHANKS.

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$345,615 00
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 48 Date 1/29/99

Company	U.P.R.C	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	15,16
Depth	16591 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 5	Viscocity	45	PV	24	YP	20	WL	9
Gels	6/16/28	% Oil	1	% Solid	26	% Sand	5	PH	9 25	CL	1200

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
12	6 1/2	RTC	HP53ALK	KT2702	3/16		94	20 25		8	8	CR	A	F	8/16"	LC	TQ
13	6 5	STC	F370DPS	LS8253	3X15					3	8	ER	A	3	1/16"	BT	BHA

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
15	4.75	M1ADM		0	3045	137.5		20.2		8.0	16497	
16	4.75	M1ADM	AKO	1.5	53443				1.0	1.0		

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	1	ONC	Other Non-circulating
			WASH 150' TO BOTTOM
1.00	3.5	ONC	Other Non-circulating
			CIRCULATE BOTTOMS UP
4.30	7	ONC	Other Non-circulating
			POOH W/ MAGNET
11 30	1	ONC	Other Non-circulating
			WAIT ON ORDERS
12.30	1.25	ONC	Other Non-circulating
			CUT DRILL LINE
13 45	1.5	ONC	Other Non-circulating
			P/U BHA # 16
15.15	7.75	TI	Tripping In (From Surface)
			TIH/ KELLEY UP AT 16450
23 00	1	OC	Other Circulating
			AFTER CIRCULATING FOR 5 MINUTES WE PACKED OFF AND WERE STUCK

24 Hr Summary WORK MAGNET & CIRC. TOH/ NO JUNK/P/

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating

Formation Name/Depth BAXTER SHALE

Remarks

MAGNET HAD NO JUNK, AFTER GETTING IN THE HOLE WITH BHA # 16 WE CIRCULATED FOR 5 MINUTES AND PACKED OFF & STUCK.

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$352,216 50
BHI JOB #	410101672

BAKER HUGHES

NTEQ

DAILY DRILLING REPORT

No 49 Date 1/30/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	16
Depth	16636 Feet last 24 Hrs 45	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	48	PV	21	YP	20	WL	9 4
Gels	7-19-27	% Oil	1	% Solid	27	% Sand	5	PH	9 25	CL	1000

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
13	6 5	STC	F370DPS	LS8253	3X15		45	10 833		3	8	ER	A	3	1/16"	BT	BHA

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
16	4.75	M1ADM	AKO	1.5	53443	125.0	10.8	10.8	13.2	14.2	16591	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	3	OC	Other Circulating
			REAM 16260-16480/ PACKIN OFF & STICKING CONSTANTLY
3 00	6	CIRC	Circulate
			WEIGHTING UP FROM 14.5 TO 14.7
9 00	4	RMG	Reaming
			F/16420 T/16591
13 00	1.5	ROT	Rotary Drill fr 16591 to 16596
14 30	2.5	SLID	Slide Drill fr. 16596 to 16601
17 00	2 6667	ROT	Rotary Drill fr 16601 to 16615
19.40	0 1667	SVC	Survey Circulating
			SURVEY @ 16582
19.50	4.1667	ROT	Rotary Drill fr 16615 to 16636

24 Hr Summary WORK TIGHT HOLE, CIR, REAM, DRLG

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$358,818 00
BHI JOB #	410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 50 Date 1/31/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	16
Depth	16707 Feet last 24 Hrs 71	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	48	PV	21	YP	20	WL	9 4
Gels	7-19-27	% Oil	1	% Solid	27	% Sand	5	PH	9 25	CL	1000

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
13	6 5	STC	F370DPS	LS8253	3X15		116	29 083	16707	3	8	ER	A	3	1/16"	BT	BHA

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
16	4.75	M1ADM	AKO	1.5	53443	110.0	18.2	29.1	1.8	15.9	16591	16707

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	0.25	SVC	Survey Circulating
			CHECK SHOT, 16603/89/28 6
0.15	1 75	SLID	Slide Drill fr. 16636 to 16642
2.00	0 6667	ROT	Rotary Drill fr. 16642 to 16645
2 40	0.25	SVC	Survey Circulating
			SURVEY & CONNECTION
2.55	3 1667	ROT	Rotary Drill fr 16645 to 16661
6.05	6.4167	SLID	Slide Drill fr 16661 to 16671
12.30	2	ROT	Rotary Drill fr. 16671 to 16680
14.30	0.25	SVC	Survey Circulating
14.45	4.25	ROT	Rotary Drill fr. 16680 to 16707
19.00	0.25	SVC	Survey Circulating
			SURVEY @ 16675
19 15	0 75	CIRC	Circulate
			MIX & PUMP A SLUG
20.00	4	TO	Tripping Out (To Surface)
			POOH TO SIDETRACK

24 Hr Summary DRILLING, TOH TO P/U SIDETRACK BHA

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$365,419 50
BHI JOB #	410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 51 Date 2/1/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	16,17
Depth	16300 Feet last 24 Hrs 2	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	48	PV	21	YP	20	WL	9 4
Gels	7-19-27	% Oil	1	% Solid	27	% Sand	5	PH	9 25	CL	1000

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
13	6 5	STC	F370DPS	LS8253	3X15		116	29 083	16707	3	8	ER	A	3	1/16"	BT	BHA
14	6 5	STC	F3PS	LT7017	3-16		2	2									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
16	4.75	M1ADM	AKO	1.5	53443	110.0		29.1		15.9	16591	16707
17	4.75	M1ADM	AKO	1.8	35761	0.0	2.0	2.0	7.0	7.0	16298	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	3	TO	Tripping Out (To Surface)
3.00	2.5	ONC	Other Non-circulating
			P/U BHA #17
5 30	6	TI	Tripping In (From Surface)
11.30	0.5	RIGS	Rig Service
12 00	1.5	RIGR	Rig Repair
			WORK ON GENERATORS
13.30	1 5	TI	Tripping In (From Surface)
15.00	1.5	OC	Other Circulating
			WORK ON TROUGH FOR SIDE TRACK 16266 16298
16 30	2.5	SVC	Survey Circulating
			WORK WITH MWD TO SINK UP
19.00	3	CIRC	Circulate
			TROUGH FROM 16166-16298
22.00	2	SLID	Slide Drill fr. 16298 to 16300
			TIME DRILLING 16298-16300

24 Hr Summary TOH/PU SIDETRACK BHA/TIH/TROUGH/TI

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP. Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $372,021 00

BHI JOB # 410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 52 Date 2/2/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	17
Depth	16318 Feet last 24 Hrs 18	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	48	PV	21	YP	20	WL	9.4
Gels	7-19-27	% Oil	1	% Solid	27	% Sand	5	PH	9 25	CL	1000

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
14	6 5	STC	F3PS	LT7017	3-16		20	23 5									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
17	4.75	M1ADM	AKO	1.8	35761	0.0	21.5	23.5	2.5	9.5	16298	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	17.5	SLID	Slide Drill fr. 16300 to 16314
			TIME DRILLING
17.30	2.5	RMG	Reaming
			TROUGHING 16290-16314
20.00	4	SLID	Slide Drill fr 16314 to 16318
			TIMEDRILLING 16314-16318

24 Hr Summary TIME DRLG.

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

AFTER TIME DRILLING TO 16314,WE ATTEMPTED TO PUT WEIGHT ON BIT. NO LEDGE COULD BE FOUND.WE RECOMMENDED TOH TO ADJUST MOTOR, BUT CO. REP. WANTED TO TRY AGAIN

BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$378,622 50
BHI JOB #	410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 53 Date 2/3/99

Company	U.P.R.C.	Well Name & No :	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	17
Depth	16596 Feet last 24 Hrs 33	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	48	PV	21	YP	20	WL	9 4
Gels	7-19-27	% Oil	1	% Solid	27	% Sand	5	PH	9 25	CL	1000

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
14	6 5	STC	F3PS	LT7017	3-16		53	34									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
17	4.75	M1ADM	AKO	1.8	35761	30.0	10.5	34.0	10.5	20.0	16298	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	6.5	SLID	Slide Drill fr. 16318 to 16324
			TIME DRLG.
6.30	0.5	ST	Short Tripping
			TOH 4 STANDS
7.00	2.5	TI	Tripping In (From Surface)
			TIH TO 16551 PACKED OFF PULLED BACK TO16360
9 30	10	RMG	Reaming
			F/16360 TO 16579
19.30	0.5	OC	Other Circulating
			MADE CONNECTION AND COULDN'T GET PAST 16569
20 00	4	ROT	Rotary Drill fr. 16569 to 16596
			TRYING TO REAM TO BTM, BUT SIDETRACKED THE HOLE

24 Hr Summary TIME DRLG.TRYING TO REAM TO BOTTO

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $385,224 00

BHI JOB # 410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 54 Date 2/4/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	17
Depth	16655 Feet last 24 Hrs 59	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 7	Viscocity	48	PV	21	YP	20	WL	9 4
Gels	7-19-27	% Oil	1	% Solid	27	% Sand	5	PH	9 25	CL	1000

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
14	6 5	STC	F3PS	LT7017	3-16		112	44	16655	2	7	CD		F	4/16"	HC	TQ

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
17	4.75	M1ADM	AKO	1.8	35761	85.0	10.0	44.0	6.0	26.0	16298	16655

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	1.5	ROT	Rotary Drill fr 16596 to 16612
1.30	0.25	SVC	Survey Circulating
			CONNECTION & SURVEY @ 16581
1 45	2.75	ROT	Rotary Drill fr. 16612 to 16630
4 30	0.25	SVC	Survey Circulating
			CHECK SHOT
4 45	2	SLID	Slide Drill fr 16630 to 16634
6.45	1.75	ROT	Rotary Drill fr. 16634 to 16644
8.30	0.5	OC	Other Circulating
			RELOG 16575-16605
9 00	0 5	RIGS	Rig Service
9 30	2	ROT	Rotary Drill fr 16644 to 16655
			BIT TORQUING
11.30	5	CIRC	Circulate
16 30	6 5	TO	Tripping Out (To Surface)
23 00	1	ONC	Other Non-circulating
			L/D MOTOR, BIT & MWD

24 Hr Summary DRLG/CIRC/TOH

Proj svy at 0 00

Proj svy at 24 00

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Vaughn Staples, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $391,825 50

BHI JOB # 410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 55 Date 2/5/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	18
Depth	16743 Feet last 24 Hrs 88	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 85	Viscocity	43	PV	24	YP	21	WL	8 6
Gels	7-18-25	% Oil	1	% Solid	27	% Sand	5	PH	9	CL	950

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
15	6 5	HCC	STR-30	LO8YJ	3-16		88	8 25									

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
18	4.75	M1ADM	AKO	1.8	395	150.0	8.3	8.3	7.3	7.3	16655	

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	1	ONC	Other Non-circulating
			P/U BHA # 18
1.00	0.5	ONC	Other Non-circulating
			WORK ON TOP DRIVE
1 30	3 5	TI	Tripping In (From Surface)
5.00	1	ONC	Other Non-circulating
			CUT DRILL LINE
6.00	2.5	TI	Tripping In (From Surface)
8.30	3	RMG	Reaming
			F/16510 T/16655
11.30	2	ROT	Rotary Drill fr 16655 to 16677
13 30	0 25	SVC	Survey Circulating
13.45	2	ROT	Rotary Drill fr. 16677 to 16706
15 45	0.25	SVC	Survey Circulating
16 00	3 25	ROT	Rotary Drill fr 16706 to 16737
19.15	0 25	SVC	Survey Circulating
			CONNECTION & SURVEY @ 16706

24 Hr Summary	P/U BHA 18/ TIH,RMR,DRLG,CIRC
Proj svy at 0 00	
Proj svy at 24 00	16743 14949 65 88 1 28 3
Bottom Hole Temp (F), Circulating	255
Formation Name/Depth	BAXTER SHALE
Remarks	
BHI DIRECTIONAL REP	Vaughn Staples, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$398,427 00
BHI JOB #	410101672

BAKER HUGHES
INTEQ

DAILY DRILLING REPORT

No 55 Date 2/5/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	18
Depth	16743 Feet last 24 Hrs 88	Last CSG Depth	9517 Size 11.75

19.30	1	ROT	Rotary Drill fr 16737 to 16743
			BIT TORQUED AT 16743
20 30	3.5	CIRC	Circulate

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 56 Date 2/6/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	18,19
Depth	16743 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 85	Viscocity	43	PV	24	YP	21	WL	8 6
Gels	7-18-25	% Oil	1	% Solid	27	% Sand	5	PH	9	CL	950

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
15	6 5	HCC	STR-30	LO8YJ	3-16		88	8 25	16743								
16	6 5	STC	F37DODL	LN9386	3-16												

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
18	4.75	M1ADM	AKO	1.8	395	150.0		8.3	0.5	7.8	16655	16743
19	4.75	M1ADM	AKO	1.5	395				8.0	8.0		

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0 00	0 5	ST	Short Tripping
			PULL 6 STANDS
0.30	0.5	CIRC	Circulate
			PUMP SLUG
1.00	6	TO	Tripping Out (To Surface)
7 00	1	ONC	Other Non-circulating
			P/U BIT #16 & ADJUST MOTOR FROM 1.8 TO 1.5
8.00	1	TI	Tripping In (From Surface)
9.00	0 5	ONC	Other Non-circulating
			Work on top drive
9.30	3.5	TI	Tripping In (From Surface)
			TIH & fill pipe @ 4500'
13.00	1	ONC	Other Non-circulating
			Work on top drive
14.00	2	TI	Tripping In (From Surface)
			TIH & fill pipe @ shoe
16.00	8	OC	Other Circulating
			Work on top drive

24 Hr Summary	TOH/ P/U BHA/ TIHTO SHOE/ WORK ON T
Proj svy at 0 00	16743 14949 65 88 1 28 3
Proj svy at 24 00	
Bottom Hole Temp (F), Circulating	
Formation Name/Depth	BAXTER SHALE
Remarks	
BHI DIRECTIONAL REP	Joel Scarborough, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$405,028 50
BHI JOB #	410101672

BAKER HUGHES INTEQ

DAILY DRILLING REPORT

No 57 Date 2/7/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	19
Depth	16784 Feet last 24 Hrs 41	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 85	Viscocity	43	PV	24	YP	21	WL	8 6
Gels	7-18-25	% Oil	1	% Solid	27	% Sand	5	PH	9	CL	950

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
16	6 5	STC	F37DODL	LN9386	3-16		233	5	16784								

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
19	4.75	M1ADM	AKO	1.5	395	150.0	5.0	5.0	7.0	7.0	16743	16784

PUMP DATA

Pump #	Liner X Stroke	Gal / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	8	RIGR	Rig Repair
			WORK ON TOP DRIVE
8.00	1	TI	Tripping In (From Surface)
			Tight @ 16570'
9.00	3	RMG	Reaming
12 00	2.5	ROT	Rotary Drill fr. 16743 to 16771
14.30	0 5	SVC	Survey Circulating
			MWD Survey @ 16739 & check survey
15 00	2.5	ROT	Rotary Drill fr. 16771 to 16784
			Motor Stalled @ 116782 & 16784, tagged bttm w/8k wob 250 diff.
17 30	3.25	CIRC	Circulate
20.45	0.75	TO	Tripping Out (To Surface)
			PULL 8 STANDS
21.30	0.25	CIRC	Circulate
			PUMP SLUG
21.45	2.25	TO	Tripping Out (To Surface)

24 Hr Summary WORK ON TOP/TIH/DRLGTO16784/CIRC/T

Proj svy at 0.00

Proj svy at 24 00 16784 14952 86 4 27 4

Bottom Hole Temp (F), Circulating 255

Formation Name/Depth BAXTER SHALE

Remarks

BHI DIRECTIONAL REP Joel Scarborough, Lari Scarborough

BHI MWD REP Gillum, Rasmussen

COMPANY REP BOB WILLIAMS

DAILY COST $6,601 50

CUMMULATIVE COST $411,630 00

BHI JOB # 410101672

BAKER HUGHES
NTEQ

DAILY DRILLING REPORT

No 58 Date 2/8/99

Company	U.P.R.C.	Well Name & No	Rock Island 4H
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235
County/Block/Parish	Sweetwater	BHA No(s) Today	19
Depth	16784 Feet last 24 Hrs	Last CSG Depth	9517 Size 11.75

MUD DATA

Mud Type	LB POL	Weight	14 85	Viscocity	43	PV	24	YP	21	WL	8 6
Gels	7-18-25	% Oil	1	% Solid	27	% Sand	5	PH	9	CL	950

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION							
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD
16	6 5	STC	F37DODL	LN9386	3-16		233	5	16784	3	8	RG	G	F	16/16"	WT	TQ

MOTOR DATA / RUN DATA

BHA No	Size	Type	Deflection		Serial Number	Avg Diff Press	Drill Hrs Today	Drill Hrs Accum	Circ Hrs Today	Circ Hrs Accum	Depth In	Depth Out
			Tool	Angle								
19	4.75	M1ADM	AKO	1.5	395	150.0		5.0		7.0	16743	16784

PUMP DATA

Pump #	Liner X Stroke	Gal. / Stroke	Max Allowable SPP
1	5.5X12	3.55	3600
2	5.5 X 12	3.55	3600

TARGET DESCRIPTION / DETAILS

FRONTIER

TIME BREAKDOWN

From	HRS	Code	Description
0.00	4.5	TO	Tripping Out (To Surface)
4.30	1	ONC	Other Non-circulating
			L/D BHA
5.30	1.5	ONC	Other Non-circulating
			WAIT ON TESTER
7.00	2.5	ONC	Other Non-circulating
			TESTING BOP'S
9.30	0 5	ONC	Other Non-circulating
			UPRC DECIDED TO QUIT HERE

24 Hr Summary	TOH/TEST BOP'S/ UPRC CALLED IT QUITS
Proj svy at 0 00	16784 14952 86 4 27 4
Proj svy at 24 00	NONE ENTERED
Bottom Hole Temp (F), Circulating	
Formation Name/Depth	BAXTER SHALE
Remarks	

BHI DIRECTIONAL REP	Joel Scarborough, Lari Scarborough
BHI MWD REP	Gillum, Rasmussen
COMPANY REP	BOB WILLIAMS
DAILY COST	$6,601 50
CUMMULATIVE COST	$418,231 50
BHI JOB #	410101672

Bottom Hole Assemblies

BAKER HUGHES

[ )TTOM HOLE ASSEMBL

NTEQ

Company	U.P.R.C.	Well Name & No	Rock Island 4H	BHA #	1
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Date Run	12/14/98
County/Block/Par	Sweetwater			Depth In	
				Depth Out	

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
1	10 5/8	STC	FDSS+SP	LT2566	3-24					1	1	NO	A	0	I	NO	BHA	1 00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	CROSSOVER	RIG			7 75	2 5/16		4 5 IF PIN	6 5/8REG BOX	3 01	4 01
3	MPR COLLAR	BHI	6258		6 75					16 15	20 16
4	DIRECTIONAL COLLAR	BHI			6 75					36 10	56 26
5	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	84 00
6	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	338 90
7	CROSSOVER	RIG								5 02	343 92
8	12 - 6" DRILL COLLARS	RIG			6					348 79	692 71
9	CROSSOVER	RIG								2 82	695 53
10	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	697 28

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper				0 0		*****
Lower				0 0		0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding			******							
Rotating			******							
Total			1 00							

Survey Sensor to Bit 0 Gamma Sensor to Bit _____ Motor Bit to Bend _____ Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15 Hrs in Hole 13.25

Objective For Running BHA

DRILL 100' TO KOP

BHA Results

Never Made it to Btm Change Of Orders

Reason for POOH

Change of Plans Pick up Motor

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

[ )TTOM HOLE ASSEMBL

NTEQ

Company	U.P.R.C.	Well Name & No	Rock Island 4H	BHA #	2
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Date Run	12/14/98
County/Block/Par	Sweetwater			Depth In	14440
				Depth Out	14597

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
1	10 5/8	STC	FDSS+SP	LT2566	3-24		157	31.1667	14597	3	3	NO	A	1	I	NO	BHA	1.00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1P/HF (motor), 2 5	BHI	8027		8		1 16	6 5/8 REG	6 5/8 REG	29 12	30 12
3	CROSSOVER	RIG			7 75	2 5/16		4 5 IF PIN	6 5/8REG BOX	3 01	33 13
4	MPR COLLAR	BHI	6258		6 75					16 15	49 28
5	DIRECTIONAL COLLAR	BHI			6 75					36 10	85 38
6	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	113 12
7	27 HWDP	RIG			5	2 75		4 5 IF	4 5 IF	803 34	916 46
8	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	918 21
9	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	1173 11
10	CROSSOVER	RIG								5 02	1178 13
11	12 - 6" DRILL COLLARS	RIG			6					348 79	1526 92
12	CROSSOVER	RIG								2 82	1529 74

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4.5IF	*****
Lower	E	5		19 5	4 5IF	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	85	80
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	157	31 17	******	5 0	44			439	200	3463
Rotating			******							
Total	157	31 17	9 33	5 0	44			439	200	3463

Survey Sensor to Bit 58 Gamma Sensor to Bit _____ Motor Bit to Bend 8.87 Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15 Hrs in Hole 62.25

Objective For Running BHA

Build Angle @ 14 Deg/100

BHA Results

DLS OF BHA ONLY 10 WE NEEDED 14 TO START ENDED UP NEEDING 16

Reason for POOH

NEEDED 16 DEG PER 100 ANGLE BUILD

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

E TTOM HOLE ASSEMBL'

NTEQ

				BHA #	3
Company	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	12/17/98
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	14597
County/Block/Par	Sweetwater			Depth Out	14790

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
2	105/8	HTC	GT1	T09YU	OPEN		193	51.1667	14790	2	2	WT	A	0	2/16"	NO	DTF	1.00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	8"SH 8-9 LOBE 4 STAGE ML	LACK MA	8032		8		1	6 5/8 REG B	6 5/8 REG B	23 91	24 91
3	DOUBLE PIN CROSSOVER	BHI	EW21345		7 75	2 13/16		4 5 IF	6 5/8 REG	1 77	26 68
4	FLOAT SUB	RIG			6 5	2 75		4 5IFP	4 5IFB	2 79	29 47
5	MPR COLLAR	BHI	6258		6 75					16 15	45 62
6	DIRECTIONAL COLLAR	BHI			6 75					36 10	81 72
7	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	109 46
8	27 HWDP	RIG			5	2 75		4 5 IF	4 5 IF	803 34	912 80
9	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	914 55
10	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	1169 45
11	CROSSOVER	RIG								5 02	1174 47
12	12 - 6" DRILL COLLARS	RIG			6					348 79	1523 26
13	CROSSOVER	RIG								2 82	1526 08

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	5		19 5	4 5IF	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	85	80
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	193	51 17	******	3 8	54			387	230	3360
Rotating			******							
Total	193	51 17	9 33	3 8	54			387	230	3360

Survey Sensor to Bit 55 Gamma Sensor to Bit _____ Motor Bit to Bend 7.61 Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15 Hrs in Hole 91

Objective For Running BHA

Build Angle @ 16Deg/100

BHA Results

16 DEGREES PER 100

Reason for POOH

MWD FAILURE

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

E TTOM HOLE ASSEMBL

NTEQ

				BHA #	4
Company	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	12/21/98
ield	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	14790
County/Block/Par	Sweetwater			Depth Out	14838

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
3	10 5/8	REED	EHT11	UW4709	OPEN		48	19.9167	14838	3	3	NO	A	1	2/16"	NO	BHA	1.00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	8"SH 8-9 LOBE 4 STAGE ML	ACK MA	8032		8		1	6 5/8 REG B	6 5/8 REG B	23 91	24 91
3	DOUBLE PIN CROSSOVER	BHI	EW21345		7 75	2 13/16		4 5 IF	6 5/8 REG	1 77	26 68
4	FLOAT SUB	RIG			6 5	2 75		4 5IFP	4 5IFB	2 79	29 47
5	MPR	BHI	6335		6 75					16 49	45 96
6	DIRECTIONAL COLLAR	BHI	6190-33		6 75					37 02	82 98
7	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	110 72
8	27 HWDP	RIG			5	2 75		4 5 IF	4 5 IF	803 34	914 06
9	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	915 81
10	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	1170 71
11	CROSSOVER	RIG								5 02	1175 73
12	12 - 6" DRILL COLLARS	RIG			6					348 79	1524 52
13	CROSSOVER	RIG								2 82	1527 34

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	5		19 5	4 5IF	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	85	80
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	48	19 92	******	2 4	110			425	200	3300
Rotating			******							
Total	48	19 92	6 08	2 4	110			425	200	3300

Survey Sensor to Bit 55 Gamma Sensor to Bit _____ Motor Bit to Bend 7.61 Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15.3 Hrs in Hole 65.5

Objective For Running BHA

Build Angle @ 16Deg/100

BHA Results

BUILT @ 16 DEG 100 2.5 FT PER HOUR

Reason for POOH

MOTOR LOCKED UP

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

E TTOM HOLE ASSEMBL

NTEQ

Company	U.P.R.C.	Well Name & No	Rock Island 4H	BHA #	5
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Date Run	12/23/98
County/Block/Par	Sweetwater			Depth In	14838
				Depth Out	14850

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
4	10 5/8	STC	FDSS+	LN6369	OPEN		12	4	14850	0	1	WT	H	0	I		DTF	1.00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	8" SH 8-9 LOBE 4 STAGE ML	ACK MA	8038		8			6 5/8 REG B	6 5/8 REG B	22 96	23 96
3	DOUBLE PIN CROSSOVER	BHI	EW21345		7 75	2 13/16		4 5 IF	6 5/8 REG	1 77	25 73
4	FLOAT SUB	RIG			6 5	2 75		4 5IFP	4 5IFB	2 79	28 52
5	MPR	BHI	6335		6 75					16 49	45 01
6	DIRECTIONAL COLLAR	BHI	6190-33		6 75					37 02	82 03
7	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	109 77
8	27 HWDP	RIG			5	2 75		4 5 IF	4 5 IF	803 34	913 11
9	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	914 86
10	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	1169 76
11	CROSSOVER	RIG								5 02	1174 78
12	12 - 6" DRILL COLLARS	RIG			6					348 79	1523 57
13	CROSSOVER	RIG								2 82	1526 39

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	5		19 5	4 5IF	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	12	4 00	******	3 0	115			465	150	3600
Rotating			******							
Total	12	4 00	4.50	3 0	115			465	150	3600

Survey Sensor to Bit 550 Gamma Sensor to Bit _____ Motor Bit to Bend 7.61 Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15.3 Hrs in Hole 24.5

Objective For Running BHA

BUILD ANGLE TO 88 DEG @ 15+ DEG/100

BHA Results

DRILLED 4.5 FT PER HR

Reason for POOH

MWD QUIT PULSING

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

E TTOM HOLE ASSEMBL

NTEQ

				BHA #	6
Company	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	12/25/98
ield	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	14850
County/Block/Par	Sweetwater			Depth Out	14860

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
4	10 5/8	STC	FDSS+	LN6369	OPEN		10	2.5	14860	0	1	WT	H	0	1/16"		DTF	1.00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	8" SH 8-9 LOBE 4 STAGE ML	ACK MA	8038		8			6 5/8 REG B	6 5/8 REG B	22 96	23 96
3	DOUBLE PIN CROSSOVER	BHI	EW21345		7 75	2 13/16		4 5 IF	6 5/8 REG	1 77	25 73
4	FLOAT SUB	RIG			6 5	2 75		4 5IFP	4 5IFB	2 79	28 52
5	MPR COLLAR	BHI	6244		6 75				4 5IF BOX	16 47	44 99
6	MWD COLLAR	BHI	2685-71		6 75			4 5IF BOX	BHI	36 10	81 09
7	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	108 83
8	27 HWDP	RIG			5	2 75		4 5 IF	4 5 IF	803 34	912 17
9	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	913 92
10	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	1168 82
11	CROSSOVER	RIG								5 02	1173 84
12	12 - 6" DRILL COLLARS	RIG			6					348 79	1522 63
13	CROSSOVER	RIG								2 82	1525 45

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	5		19 5	4 5IF	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	10	2 50	******	4 0	98			425	150	3500
Rotating			******							
Total	10	2 50	4 50	4 0	98			425	150	3500

Survey Sensor to Bit 550 Gamma Sensor to Bit _____ Motor Bit to Bend 7.61 Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15.3 Hrs in Hole 36

Objective For Running BHA

BUILD ANGLE TO 88 DEG @ 15+ DEG/100

BHA Results

16.5 PER 100

Reason for POOH

MWD FAILURE

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

BOTTOM HOLE ASSEMBLY

NTEQ

Company	U.P.R.C.	Well Name & No	Rock Island 4H	BHA #	7
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Date Run	12/26/98
County/Block/Par	Sweetwater			Depth In	14860
				Depth Out	14929

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION IR	OR	DC	LOC	B/S	G/16	OC	RPLD	Comp Lngth
4	10 5/8	STC	FDSS+	LN6369	OPEN		69	34	14929	2	4	RG	H	1	2/16"	NO	BHA	1.00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	8" SH 8-9 LOBE 4 STAGE ML	LACK MA	8038		8			6 5/8 REG B	6 5/8 REG B	22 96	23 96
3	DOUBLE PIN CROSSOVER	BHI	EW21345		7 75	2 13/16		4 5 IF	6 5/8 REG	1 77	25 73
4	FLOAT SUB	RIG			6 5	2 75		4 5IFP	4 5IFB	2 79	28 52
5	MPR COLLAR	BHI	6318		6 75				4 5IF BOX	16 45	44 97
6	MWD COLLAR	BHI	2095-11		6 75			4 5IF		36 18	81 15
7	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	108 89
8	27 HWDP	RIG			5	2 75		4 5 IF	4 5 IF	803 34	912 23
9	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	913 98
10	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	1168 88
11	CROSSOVER	RIG								5 02	1173 90
12	12 - 6" DRILL COLLARS	RIG			6					348 79	1522 69
13	CROSSOVER	RIG								2 82	1525 51

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	5		19 5	4 5IF	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	69	34 00	******	2 0	118			416	150	3300
Rotating			******							
Total	69	34 00	13 00	2 0	118			416	150	3300

Survey Sensor to Bit 550 Gamma Sensor to Bit _____ Motor Bit to Bend 7.61 Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15.3 Hrs in Hole 64.5

Objective For Running BHA

BUILD ANGLE TO 88 DEG @ 15+ DEG/100

BHA Results

16.5 PER 100

Reason for POOH

BRN DOWN TO 11 AT THE BIT

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

NTEQ

E TTOM HOLE ASSEMBL

				BHA #	8
ompany	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	12/29/98
eld	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	14929
County/Block/Par	Sweetwater			Depth Out	14993

BIT DATA

lo	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
5	10 5/8	HCC	GT-S1	X34YJ	OPEN		64	36 75	14993	8	8	CR	N	1	4/16"	WT	PP	1 00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	8" SH 8-9 LOBE 4 STAGE ML	ACKMA	8013		8		1 15			23 86	24 86
3	DOUBLE PIN CROSSOVER	BHI	EW21345		7 75	2 13/16		4 5 IF	6 5/8 REG	1 77	26 63
4	FLOAT SUB	RIG			6 5	2 75		4 5IFP	4 5IFB	2 79	29 42
5	MPR COLLAR	BHI	6318		6 75				4 5IF BOX	16 45	45 87
6	MWD COLLAR	BHI	2095-11		6 75			4 5IF		36 18	82 05
7	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	109 79
8	27 HWDP	RIG			5	2 75		4 5 IF	4 5 IF	803 34	913 13
9	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	914 88
10	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	1169 78
11	CROSSOVER	RIG								5 02	1174 80
12	6-6" DRILL COLLARS	RIG			6					174 40	1349 20
13	JAR	DAILEY			6 1/2					30 24	1379 44
14	CROSS OVER	DAILEY			6 1/8	2 1/16		4 1/2 IF PIN	4 1/2 XH BOX	1 60	1381 04
15	6-6" DRILL COLLARS	RIG			6					174 39	1555 43
16	CROSSOVER	RIG								2 82	1558 25

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	5		19 5	4 5IF	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	64	36 75	******	1 7	120			425	150	3300
Rotating			******							
Total	64	36 75	7 25	1 7	120			425	150	3300

Survey Sensor to Bit 55 Gamma Sensor to Bit _____ Motor Bit to Bend 7.61 Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15.3 Hrs in Hole 64

Objective For Running BHA

BUILD ANGLE TO 88 DEG @ 11+ DEG/100

BHA Results

13.3 DEGREES PER 100

Reason for POOH

MOTOR STALLING, CANNOT DRILL

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

NTEQ

E TTOM HOLE ASSEMBL\

				BHA #	9
ompany	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	12/31/98
ield	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	14993
County/Block/Par	Sweetwater			Depth Out	15023

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
6	10 5/8	HCC	ATJ 22	U85XF	OPEN		30	16 75	15023	8	8	BT	A	4	4/16"		BHA	1 00

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	8" SH 8-9 LOBE 4 STAGE ML	LACKMA	8013		8		1 15			23 86	24 86
3	DOUBLE PIN CROSSOVER	BHI	EW21345		7 75	2 13/16		4 5 IF	6 5/8 REG	1 77	26 63
4	FLOAT SUB	RIG			6 5	2 75		4 5IFP	4 5IFB	2 79	29 42
5	MPR COLLAR	BHI	6318		6 75				4 5IF BOX	16 45	45 87
6	MWD COLLAR	BHI	2095-11		6 75			4 5IF		36 18	82 05
7	MONEL	BHI	ECT7327		6 5	2 7/8		4 5 IF	4 5 IF	27 74	109 79
8	27 HWDP	RIG			5	2 75		4 5 IF	4 5 IF	803 34	913 13
9	CROSSOVER	BHI	W10143		7 5/8	2 7/8		6 5/8	4 5	1 75	914 88
10	9-8" DRILL COLLARS	RIG			8			6 5/8 REG	6 5/8 REG	254 90	1169 78
11	CROSSOVER	RIG								5 02	1174 80
12	6-6" DRILL COLLARS	RIG			6					174 40	1349 20
13	JAR	DAILEY			6 1/2					30 24	1379 44
14	CROSS OVER	DAILEY			6 1/8	2 1/16		4 1/2 IF PIN	4 1/2 XH BOX	1 60	1381 04
15	6-6" DRILL COLLARS	RIG			6					174 39	1555 43
16	CROSSOVER	RIG								2 82	1558 25

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	5		19 5	4.5IF	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	30	16 75	******	1 8	82			425	150	3300
Rotating			******							
Total	30	16 75	30 75	1 8	82			425	150	3300

Survey Sensor to Bit 55 Gamma Sensor to Bit _____ Motor Bit to Bend 7.61 Motor Bit to Stabilizer _____

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15.3 Hrs in Hole 245

Objective For Running BHA

TD CURVE

BHA Results

15 degrees per 100

Reason for POOH

AFTER FREEING PIPE, L/D BHA TO RUN CASING

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

NTEQ

BOTTOM HOLE ASSEMBLY

				BHA #	10
Company	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	1/11/99
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	15031
County/Block/Par	Sweetwater			Depth Out	15243

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
	6 5	HCC	STR 30-D	A22ZH	3-16		212	45 25	15243	7	8	BT	A	F	1/16"	ER	TQ	0 75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	DRILLON GUAGE SUB	?	A1		6 5	1 75		3 5 REG	3 5 REG	0 56	1 31
3	M1ADM (motor), 1 5	BHI	55383	6 25	4 75			3 5 IF	3 5 REG	19 52	20 83
4	STRING STABILIZER	BHI	?	5 7/8	4 76	2 1/16	2 77	3 5IF	3 5IF	4 80	25 63
5	FLOATSUB	BHI	M3X024		4 79	2 5/16		3 5IF	3 5IF	1 51	27 14
6	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	57 60
7	UNIVERSAL PULSER SUB	BHI	MVA4103		4 74			3 5IF	3 5IF	2 35	59 95
8	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	90 17
9	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	92 37

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out
3	UBHS	STR	68	2	4	6 25	
4	STRING STABILIZER	RWM	44	2 75	4	5 7/8	

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4			4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	68	16 08	******	4 2	28			226	108	2483
Rotating	144	29 17	******	4 9	20	40	6500	233	150	2650
Total	212	45 25	7 75	4 7	23	40	6500	230	133	2583

Survey Sensor to Bit 36 Gamma Sensor to Bit 42 Motor Bit to Bend 6.44 Motor Bit to Stabilizer 3.65

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15.2 Hrs in Hole 70.5

Objective For Running BHA

FINISH CURVE & START DRILLING LATERAL

BHA Results

BUILDING ANGLE ROTATING

Reason for POOH

PRESURE SPIKING WHILE DRILLING

BHI Directional Drillers Vaughn Staples Lari Scarborough

BHI Job # 410101672

BAKER HUGHES

NTEQ

E TTOM HOLE ASSEMBL

				BHA #	11
(mpany	U.P.R C.	Well Name & No	Rock Island 4H	Date Run	1/14/99
F ld	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	15243
County/Block/Par	Sweetwater			Depth Out	15424

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
3	6.5	HCC	STR 30-D	A21ZH	3-15		181	24 0833	15424	3	8	BT	G	E	1/16"		CP	0 75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1ADM (motor), 1 5	BHI	042147	6 25	4 75			3 5 IF	3 5 REG	19 53	20 28
3	STRING STABILIZER	BHI		6 3/16	4 64	2 1/16		3 5IF	3 5IF	3 52	23 80
4	FLOAT	BHI	?		4 71	2		3 5IF	3 5IF	1 35	25 15
5	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	55 61
6	UNIVERSAL PULSER SUB	BHI	MVA4103		4 74			3 5IF	3 5IF	2 35	57 96
7	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	88 18
8	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	90 38

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out
2	UBHS	STR	68	2	4	6 25	
3	STRING STABILIZER	RWM	3 5	2 5	3 5	6 3/16	

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4			4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	21	5 25	******	4 0	30			233	100	2600
Rotating	160	18 83	******	8 5	20	43	6500	233	150	2500
Total	181	24 08	8 92	7 5	22	43	6500	233	142	2515

Survey Sensor to Bit 34 Gamma Sensor to Bit 39.21 Motor Bit to Bend 6.07 Motor Bit to Stabilizer 3.25

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 15.2 Hrs in Hole 51.5

Objective For Running BHA.

FINISH CURVE & START DRILLING LATERAL

BHA Results

10 DEGREES PER 100 SLIDING

Reason for POOH

MOTOR STALLED OUT

BHI Directional Drillers Vaughn Staples Lari Scarborough

BHI Job # 410101672

BAKER HUGHES

E TTOM HOLE ASSEMBL

NTEQ

ompany	U.P.R.C.	Well Name & No	Rock Island 4H	BHA #	12
eld	Sweetwater	Rig Contractor & No	Parker Drilling 235	Date Run	1/18/99
County/Block/Par	Sweetwater			Depth In	15482
				Depth Out	15931

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
9	6.5	STC	F3DP	LE5312	3-16		449	37	15931	6	7	BT	G	6	3/16"	BT	BHA	0.75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1ADM (motor), 1 5	BHI	32978	6 25	4 75					19 48	20 23
3	STRING STABILIZER	BHI		6 3/16	4 64	2 1/16		3 5IF	3 5IF	3 52	23 75
4	FLOAT SUB	BHI	NONE		4 72	2 1/16		3 5IF	3 5IF	1 27	25 02
5	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	55 48
6	UNIVERSAL PULSER SUB	BHI	MVA4103		4 74			3 5IF	3 5IF	2 35	57 83
7	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	88 05
8	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	90 25

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out
2	UBHS	STR	9	1 5	4	6 25	
3	STRING STABILIZER	RWM	3 5	2 5	3 5	6 3/16	

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4			4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	15	2 08	******	7 2	33			233	100	2550
Rotating	434	34 92	******	12 4	18	50	8469	233	150	2494
Total	449	37 00	17 00	12 1	19	50	8469	233	145	2500

Survey Sensor to Bit 34 Gamma Sensor to Bit 39 Motor Bit to Bend 5.86 Motor Bit to Stabilizer 3.12

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 14.7 Hrs in Hole 105.25

Objective For Running BHA

DRILLING LATERAL

BHA Results

SLIGHTLY BUILT OR DROPED WHILE ROTATING, RESPONDED WELL WHILE SILDING

Reason for POOH

MOTOR FAILED

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

BOTTOM HOLE ASSEMBLY

INTEQ				BHA #	13
Company	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	1/23/99
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	15952
County/Block/Par	Sweetwater			Depth Out	16438

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
10	6.5	HCC	STR30D	A232H	15/15/B		486	36.8333	16438									0.75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	ADM MOTOR	BHI	55383	6 25	4 3/4			3 5IF		19 38	20 13
3	STRING STABILIZER	BHI			4 64	2 1/16		3 5IF	3 5IF	3 52	23 65
4	FLOAT SUB	BHI	NONE	6 3/16	4 72	2 1/16		3 5IF	3 5IF	1 27	24 92
5	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	55 38
6	UNIVERSAL PULSER SUB	BHI	MVA4103		4 74			3 5IF	3 5IF	2 35	57 73
7	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	87 95
8	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	90 15

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out
2	UBHS	STR	9	1 5	4	6 25	
4	FLOAT SUB	RWM	3 5	2 5	3 5	6 3/16	

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4			4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	25	5 75	******	4 3	28			233	100	2950
Rotating	461	31 08	******	14 8	18	42	7658	233	150	2874
Total	486	36 83	12 67	13 2	20	42	7658	233	143	2884

Survey Sensor to Bit 34 Gamma Sensor to Bit 39 Motor Bit to Bend 5.86 Motor Bit to Stabilizer 3.12

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 14.7 Hrs in Hole 59.25

Objective For Running BHA

DRILLING LATERAL

BHA Results

SLIGHTLY BUILT OR DROPED WHILE ROTATING, RESPONDED WELL WHILE SILDING

Reason for POOH

MOTOR FAILED

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

L)TTOM HOLE ASSEMBL.

NTEQ

				BHA #	14
Company	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	1/25/99
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	16438
County/Block/Par	Sweetwater			Depth Out	16497

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
11	6.5	DPI	NM521	1962822	.45	3.5	59	9 08333	16497	1	2	CR	M	0	I			0.80

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1ADM (motor), 1 2	BHI	3045	6 25	4.75		1 32	3 5IF	3 5REG	19 28	20 08
3	STRING STABILIZER	BHI		6 3/16	4 64	2 1/16		3 5IF	3 5IF	3 52	23 60
4	FLOAT SUB	BHI	NONE		4 72	2 1/16		3 5IF	3 5IF	1 27	24 87
5	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	55 33
6	UNIVERSAL PULSER SUB	BHI	MVA4103		4 74			3 5IF	3 5IF	2 35	57 68
7	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	87 90
8	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	90 10

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out
2	UBHS	STR	7	1 5	4	6 25	
3	STRING STABILIZER	RWM	3 5	2 5	3 5	6 3/16	

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4		0 0	4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage:	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding			******							
Rotating	59	9 08	******	6 5	17	53	8000	233	200	2850
Total	59	9 08	4 17	6 5	17	53	8000	233	200	2850

Survey Sensor to Bit 33 Gamma Sensor to Bit _____ Motor Bit to Bend 5.91 Motor Bit to Stabilizer 3.11

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 14.7 Hrs in Hole 29

Objective For Running BHA

DRILL LATERAL WITH A STEERABLE BHA

BHA Results

BIT CORED & RINGED OUT RESULTING IN 600 PSI INCREASE

Reason for POOH

600 PSI INCREASE BIT STOPED DRILLING

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

E TTOM HOLE ASSEMBL\

NTEQ

Company	U.P.R.C.	Well Name & No	Rock Island 4H	BHA #	15
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Date Run	1/26/99
County/Block/Par	Sweetwater			Depth In	16497
				Depth Out	16591

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
12	6 1/2	RTC	EHP53ALKP	KT2702	3/16		94	20.25	16591	8	8	CR	A	F	8/16"	LC	TQ	0.75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1ADM (motor), 0	BHI	3045	6 25	4 75		1 32	3 5IF	3 5REG	19 28	20 03
3	STRING STABILIZER	BHI		6 3/16	4 64	2 1/16		3 5IF	3 5IF	3 52	23 55
4	FLOAT SUB	BHI	NONE		4 72	2 1/16		3 5IF	3 5IF	1 27	24 82
5	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	55 28
6	UNIVERSAL PULSER SUB	BHI	MVA4103		4 74			3 5IF	3 5IF	2 35	57 63
7	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	87 85
8	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	90 05

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out
2	UBHS	STR	7	1 5	4	6 25	
3	STRING STABILIZER	RWM	3 5	2 5	3 5	6 3/16	

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt /ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4		0 0	4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	6	4 00	******	1 5	29			233	100	2725
Rotating	88	16 25	******	5 4	17	58	9000	233	150	2800
Total	94	20 25	8 00	4.6	20	58	9000	233	138	2781

Survey Sensor to Bit 33 Gamma Sensor to Bit _____ Motor Bit to Bend 5.91 Motor Bit to Stabilizer 3.11

Center of Clamp-on to Center of UBHS _____ Mud Type LB POLYMER Mud Weight 14.5 Hrs in Hole 68.25

Objective For Running BHA

DRILL LATERAL WITH A STEERABLE BHA

BHA Results

Reason for POOH

POOH FOR BIT

BHI Directional Drillers Vaughn Staples Lari Scarborough

BHI Job # 410101672

BAKER HUGHES

NTEQ

E TTOM HOLE ASSEMBL

				BHA #	16
ompany	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	1/29/99
eld	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	16591
County/Block/Par	Sweetwater			Depth Out	16707

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
13	6 5	STC	F370DPS	LS8253	3X15		116	29.0833	16707	3	8	ER	A	3	1/16"	BT	BHA	0.75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1ADM (motor), 1 5	BHI	53443		4 75		1 51	3 5IF	3 5REG	19 51	20 26
3	FLOAT SUB	BHI	NONE		4 72	2 1/16		3 5IF	3 5IF	1 27	21 53
4	MONEL	BHI	DRL7831		4 63	2 5/8		3.5IF	3 5IF	30 46	51 99
5	UNIVERSAL PULSER SUB	BHI	MVA4103		4 74			3 5IF	3 5IF	2 35	54 34
6	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	84 56
7	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	86 76

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4		0 0	4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	21	10 67	******	2 0	43			233	100	2567
Rotating	95	18 42	******	5 2	18	60	9000	233	114	2564
Total	116	29 08	15 92	4 0	26	60	9000	233	110	2565

Survey Sensor to Bit 30 Gamma Sensor to Bit 35 Motor Bit to Bend 5.92 Motor Bit to Stabilizer

Center of Clamp-on to Center of UBHS Mud Type LB POLYMER Mud Weight 14.5 Hrs in Hole 58.25

Objective For Running BHA

GET PAST JUNK & DRILL LATERAL

BHA Results

HAD HELL TRYING TO SLIDE.

Reason for POOH

P/U NEW BIT & MOTOR TO SIDETRACK

BHI Directional Drillers Vaughn Staples Lari Scarborough BHI Job # 410101672

BAKER HUGHES

INTEQ

BOTTOM HOLE ASSEMBLY

				BHA #	17
Company	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	2/1/99
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	16298
County/Block/Par	Sweetwater			Depth Out	16655

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
14	6.5	STC	F3PS	LT7017	3-16		112	44	16655	2	7	CD		F	4/16"	HC	TQ	0.75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1ADM (motor), 1 8	BHI	35761		4 75		1 48	3 5IF	3 5REG	19 46	20 21
3	FLOATSUB	BHI	M3X024		4 79	2 5/16		3 5IF	3 5IF	1 51	21 72
4	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	52 18
5	UNIVERSAL PULSER SUB	BHI	MVA4103		4 74			3 5IF	3 5IF	2 35	54 53
6	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	84 75
7	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	86 95

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4		0 0	4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	30	32 00	******	0 9	6			233	20	2440
Rotating	82	12 00	******	6 8	18	60	8000	233	150	2600
Total	112	44 00	26 00	2 5	12	60	8000	233	85	2520

Survey Sensor to Bit 30 Gamma Sensor to Bit 35.4 Motor Bit to Bend 5.88 Motor Bit to Stabilizer

Center of Clamp-on to Center of UBHS Mud Type LB POLYMER Mud Weight 14.7 Hrs in Hole 93

Objective For Running BHA

OPEN HOLE SIDETRACK IN HORIZONTAL

BHA Results

COULDN'T SIDETRACK IN SAND SLIDING

Reason for POOH

BIT TORQUEING

BHI Directional Drillers Vaughn Staples Lari Scarborough

BHI Job # 410101672

BAKER HUGHES

BOTTOM HOLE ASSEMBLY

NTEQ

				BHA #	18
Company	U.P.R.C.	Well Name & No	Rock Island 4H	Date Run	2/5/99
Field	Sweetwater	Rig Contractor & No	Parker Drilling 235	Depth In	16655
County/Block/Par	Sweetwater			Depth Out	16743

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
15	6 5	HCC	STR-30	LO8YJ	3-16		88	8.25	16743	8	8	WT	A	8	6/16"		TQ	0.75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1ADM (motor), 1 8	BHI	395		4.75		1 50	3 5IF	3 5REG	19 48	20 23
3	FLOATSUB	BHI	M3X024		4 79	2 5/16		3 5IF	3 5IF	1 51	21 74
4	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	51 96
5	UNIVERSAL PULSER SUB	BHI	MVA 23		4 78			3 5IF	3 5IF	2 33	54 29
6	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	84 75
7	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	86 95

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4		0 0	4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding			******							
Rotating	88	8 25	******	10 7	18	60	8000	233	150	2600
Total	88	8 25	7 75	10 7	18	60	8000	233	150	2600

Survey Sensor to Bit 30 Gamma Sensor to Bit 35.45 Motor Bit to Bend 5.89 Motor Bit to Stabilizer

Center of Clamp-on to Center of UBHS Mud Type LB POLYMER Mud Weight 14.85 Hrs in Hole 31

Objective For Running BHA

DRILL LATERAL WITH STEERABLE

BHA Results

ROTATING WE DROPPED ANGLE

Reason for POOH

BIT TORQUING

BHI Directional Drillers Joel Scarborough Lari Scarborough BHI Job # 410101672

BAKER HUGHES

E)TTOM HOLE ASSEMBL'

NTEQ

Company	U.P.R.C.	Well Name & No	Rock Island 4H	BHA #	19
ield	Sweetwater	Rig Contractor & No	Parker Drilling 235	Date Run	2/6/99
County/Block/Par	Sweetwater			Depth In	16743
				Depth Out	16784

BIT DATA

No	Bit Size	Mfr	Type	Serial No	Noz or TFA	Gauge Length	Cum Footage	Cum Hours	Depth Out	DULL CONDITION								Comp Lngth
										IR	OR	DC	LOC	B/S	G/16	OC	RPLD	
16	6.5	STC	F37DODL	LN9386	3-16		41	5	16784	3	8	RG	G	F	16/16"	WT	TQ	0.75

BHA DESCRIPTION

Item No	Component Description	Vendor	Serial No	Gauge OD	OD	ID	Fishing Neck	Top Connection	Bottom Connection	Component Length	Total Length
2	M1ADM (motor), 1 5	BHI	395		4.75		1 50	3 5IF	3 5REG	19 48	20 23
3	FLOATSUB	BHI	M3X024		4 79	2 5/16		3 5IF	3 5IF	1 51	21 74
4	MONEL	BHI	GAM7190		4 58	2 5/8		3 5 IF	3 5IF	30 22	51 96
5	UNIVERSAL PULSER SUB	BHI	MVA 23		4 78			3 5IF	3 5IF	2 33	54 29
6	MONEL	BHI	DRL7831		4 63	2 5/8		3 5IF	3 5IF	30 46	84 75
7	CROSSOVER	BHI	OTR5672		5 28	2 75		4FH	3 5IF	2 20	86 95

STABILIZER DATA

Item #	Stabilizer Description	Spiral	Bld Lgth	Bld Wth	Gge Lgth	Gge In	Gge Out

DRILL PIPE DATA

Drillpipe	Grade	OD	ID	Wt./ft	Conn	Lgth
Upper	G	5		19 5	4 5IF	*****
Lower	E	4		0 0	4FH	0 00

BHA WEIGHT DATA

BHA Weight	In Air	In Mud
Total	0	0
Lower	0	0

RUN SUMMARY

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding			******							
Rotating	41	5 00	******	8 2	18	60	8000	233	150	2600
Total	41	5 00	7 00	8 2	18	60	8000	233	150	2600

Survey Sensor to Bit 30 Gamma Sensor to Bit 35.45 Motor Bit to Bend 5.89 Motor Bit to Stabilizer

Center of Clamp-on to Center of UBHS Mud Type LB POLYMER Mud Weight 14.85 Hrs in Hole 53

Objective For Running BHA

DRILL LATERAL WITH STEERABLE

BHA Results

Reason for POOH

BIT TORQUING

BHI Directional Drillers Joel Scarborough Lari Scarborough BHI Job # 410101672

Drilling Parameters

BAKER HUGHES
INTEQ

DRILLING PARAMETERS RECORD

Company	U P R C	Well Name No	Rock Island 4H
Field	Sweetwater	Rig Contractor No	Parker Drilling 235
County/Block/Parish	Sweetwater		

Date	Depth From	Depth To	Ftg Drilled	Mode S/R	Drlg Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	TFO	Flow Rate	Diff Pres	Temp	SPP	BHA No
12/15/98	14440	14485	45	O	7 833	5 745	44			45	460	200	180	3600	2
12/15/98	14485	14495	10	O	2 167	4 615	44			50	460	200	180	3700	2
12/15/98	14495	14500	5	O	1	5	44			50	380	200	180	3100	2
12/16/98	14500	14506	6	O	1 75	3 429	44			50	380	200	182	3100	2
12/16/98	14506	14517	11	O	2 083	5 280	44			50	460	200	182	3600	2
12/16/98	14517	14549	32	O	6 417	4 987	44			50	460	200	182	3600	2
12/16/98	14549	14579	30	O	6 75	4 444	44			50	460	200	182	3600	2
12/16/98	14579	14597	18	O	3 167	5 684	44			0	450	200	182	3400	2

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	157	31 2	******	5 0	44 0			438 8	200 0	3462 5
Rotating			******							
Total	157	31 2	9 3	5 0	44 0			438 8	200 0	3462 5

12/18/98	14597	14639	42	O	10 25	4 098	54			0	390	250	182	3500	3
12/18/98	14639	14642	3	O	1 5	2	54			15R	390	250	182	3500	3
12/18/98	14642	14671	29	O	5 75	5 043	54			15R	390	250	182	3500	3
12/18/98	14671	14676	5	O	1 5	3 333	54			15R	390	250	182	3300	3
12/19/98	14676	14993	317	O	4 25	74 59	54			15R	390	250	182	3300	3
12/19/98	14703	14736	33	O	8 417	3 921	54			15R	390	250	182	3300	3
12/19/98	14736	14761	25	O	8 25	3 030	54			20R	390	250	182	3300	3
12/19/98	14993	14703	-290	O	2 333	-124	54			15R	390	250	182	3300	3
12/20/98	14761	14766	5	O	1 25	4	54			20R	375	150	182	3300	3
12/20/98	14766	14790	24	O	7 667	3 130	54			20R	375	150	182	3300	3

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	193	51 2	******	3 8	54 0			387 0	230 0	3360 0
Rotating			******							
Total	193	51 2	9 3	3 8	54 0			387 0	230 0	3360 0

12/21/98	14790	14802	12	O	6	2	110			15R	425	200	182	3300	4
12/22/98	14802	14836	34	O	13 17	2 582	110			15R	425	200	182	3300	4
12/22/98	14836	14838	2	O	0 75	2 667	110			15R	425	200	182	3300	4

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	48	19 9	******	2 4	110 0			425 0	200 0	3300 0
Rotating			******							
Total	48	19 9	6 1	2 4	110 0			425 0	200 0	3300 0

12/24/98	14838	14850	12	O	4	3	115			15R	465	150	182	3600	5

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	12	4 0	******	3 0	115 0			465 0	150 0	3600 0
Rotating			******							
Total	12	4 0	4 5	3 0	115 0			465 0	150 0	3600 0

12/25/98	14850	14852	2	O	0 5	4	80			10R	425	150	182	3500	6
12/25/98	14852	14860	8	O	2	4	115			10R	425	150	188	3500	6

BAKER HUGHES INTEQ

DRILLING PARAMETERS RECORD

Company	U P R C	Well Name No	Rock Island 4H
Field	Sweetwater	Rig Contractor No	Parker Drilling 235
County/Block/Parish	Sweetwater		

Date	Depth From	Depth To	Ftg Drilled	Mode S/R	Drlg Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	TFO	Flow Rate	Diff Pres	Temp	SPP	BHA No
12/27/98	14860	14890	30	O	11 5	2 609	115			10R	425	150	188	3500	7
12/27/98	14890	14897	7	O	3 5	2	115			10R	425	150	188	3500	7
12/27/98	14897	14907	10	O	4 5	2 222	120			10R	380	150	188	2900	7
12/28/98	14907	14926	19	O	11 5	1 652	120			10R	425	150	188	3300	7
12/28/98	14926	14929	3	O	3	1	120			15R	425	150	188	3300	7

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	10	2 5	******	4 0	97 5			425 0	150 0	3500 0
Rotating			******							
Total	10	2 5	4 5	4 0	97 5			425 0	150 0	3500 0

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	69	34 0	******	2 0	118 0			416 0	150 0	3300 0
Rotating			******							
Total	69	34 0	13 0	2 0	118 0			416 0	150 0	3300 0

12/29/98	14929	14943	14	O	8	1 75	120			5R	425	150	188	3300	8
12/30/98	14943	14957	14	O	4 75	2 947	120			5R	425	150	188	3300	8
12/30/98	14957	14987	30	O	18	1 667	120			5R	425	150	188	3300	8
12/31/98	14987	14993	6	O	6	1	120			5R	425	150	188	3300	8

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	64	36 8	******	1 7	120 0			425 0	150 0	3300 0
Rotating			******							
Total	64	36 8	7 3	1 7	120 0			425 0	150 0	3300 0

1/1/99	14993	15016	23	O	13	1 769	82			5R	425	150	188	3300	9
1/2/99	15016	15022	6	O	2 5	2 400	82			5R	425	150	188	3300	9
1/2/99	15022	15023	1	O	1 25	0 800	82			5R	425	150	188	3300	9

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	30	16 8	******	1 8	82 0			425 0	150 0	3300 0
Rotating			******							
Total	30	16 8	30 8	1 8	82 0			425 0	150 0	3300 0

1/11/99	15031	15039	8	O	1	8	20			40R	190	150	188	1900	10
1/11/99	15039	15071	32	R	3 75	8 533	20	40	6500		233	150		2650	10
1/11/99	15071	15105	34	R	4 25	8	20	40	6500		233	150		2650	10
1/11/99	15105	15106	1	R	0 25	4	20	40	6500		233	150		2650	10
1/12/99	15106	15121	15	R	3 167	4 737	20	40	6500		233	150		2650	10
1/12/99	15121	15137	16	O	3 583	4 465	30			15L	233	100	188	2600	10
1/12/99	15137	15154	17	O	4 25	4	30			15L	233	100	188	2600	10
1/12/99	15154	15178	24	R	5 25	4 571	20	40	6500		233	150		2650	10
1/12/99	15178	15188	10	O	2 5	4	30			155L	233	100	226	2600	10
1/12/99	15188	15197	9	R	3 5	2 571	20	40	6500		233	150	226	2650	10
1/13/99	15197	15203	6	R	2	3	20	40	6500		233	150	226	2650	10
1/13/99	15203	15223	20	R	5 75	3 478	20	40	6500		233	150	226	2650	10
1/13/99	15223	15230	7	O	1 75	4	30			165L	233	100	226	2600	10

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DRILLING PARAMETERS RECORD

Company	U P.R C	Well Name No	Rock Island 4H
Field	Sweetwater	Rig Contractor No	Parker Drilling 235
County/Block/Parish	Sweetwater		

Date	Depth From	Depth To	Ftg Drilled	Mode S/R	Drlg Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	TFO	Flow Rate	Diff Pres	Temp	SPP	BHA No
1/13/99	15230	15240	10	O	3	3 333	30			165L	233	100	226	2600	10
1/13/99	15240	15243	3	R	1 25	2 400	20	40	6500		233	150	226	2650	10

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	68	16 1	******	4 2	28 3			225 8	108 3	2483 3
Rotating	144	29 2	******	4 9	20 0	40 0	6500 0	233 0	150 0	2650 0
Total	212	45 3	7 8	4 7	23 3	40 0	6500 0	230 1	133 3	2583 3

1/14/99	15243	15264	21	R	3 5	6	20	40	6500		233	150	226	2500	11
1/14/99	15264	15276	12	R	2 5	4 800	20	40	6500		233	150	226	2500	11
1/14/99	15276	15286	10	O	3 75	2 667	30			165L	233	100	226	2600	11
1/14/99	15286	15289	3	R	1	3	20	40	6500		233	150	226	2500	11
1/15/99	15289	15296	7	R	0 833	8 400	20	40	6500		233	150	226	2500	11
1/15/99	15296	15311	15	R	1 917	7 826	20	45	6500		233	150	226	2500	11
1/15/99	15311	15326	15	R	1	15	20	45	6500		233	150	226	2500	11
1/15/99	15326	15363	37	R	3 583	10 33	20	45	6500		233	150	226	2500	11
1/15/99	15363	15393	30	R	2 5	12	20	45	6500		233	150	226	2500	11
1/15/99	15393	15404	11	R	1 25	8 800	20	45	6500		233	150	226	2500	11
1/15/99	15404	15415	11	O	1 5	7 333	30			145L	233	100	226	2600	11
1/15/99	15415	15419	4	R	0 25	16	20	45	6500		233	150	226	2500	11
1/15/99	15419	15424	5	R	0 5	10	20	45	6500		233	150	226	2500	11

Mode	Footage,	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	21	5 3	******	4 0	30 0			233 0	100 0	2600 0
Rotating	160	18 8	******	8 5	20 0	43 2	6500 0	233 0	150 0	2500 0
Total	181	24 1	8 9	7 5	21 5	43 2	6500 0	233 0	142 3	2515 4

1/19/99	15482	15513	31	R	1 417	21 88	16	45	6500		233	150	226	2500	12
1/19/99	15513	15518	5	R	0 167	30	16	45	6500		233	150	226	2500	12
1/19/99	15518	15550	32	R	2	16	16	45	6500		233	150	226	2500	12
1/19/99	15550	15582	32	R	2	16	16	45	6500		233	150	226	2500	12
1/19/99	15582	15592	10	O	1 25	8	30			45L	233	100	226	2600	12
1/19/99	15592	15607	15	R	1	15	16	45	6500		233	150	226	2500	12
1/19/99	15607	15612	5	R	0 25	20	20	40			233	150	225	2400	12
1/19/99	15612	15647	35	R	2	17 5	18	45	6500		233	150	226	2500	12
1/19/99	15647	15678	31	R	1 917	16 17	18	45	6500		233	150	226	2500	12
1/19/99	15678	15703	25	R	1 583	15 79	16	55	10000		233	150	242	2500	12
1/19/99	15703	15730	27	R	2 167	12 46	16	55	10000		233	150	242	2500	12
1/20/99	15730	15737	7	R	0 5	14	16	55	10000		233	150	242	2500	12
1/20/99	15737	15769	32	R	2 833	11 29	20	55	10000		233	150	242	2500	12
1/20/99	15769	15798	29	R	3 25	8 923	20	55	10000		233	150	242	2500	12
1/20/99	15798	15830	32	R	6	5 333	20	55	10000		233	150	242	2500	12
1/20/99	15830	15861	31	R	2 5	12 4	20	55	10000		233	150	242	2500	12
1/20/99	15861	15892	31	R	2 333	13 29	20	55	10000		233	150	242	2500	12
1/20/99	15892	15926	34	R	3	11 33	20	55	10000		233	150	242	2500	12
1/21/99	15926	15931	5	O	0 833	6	35			25 I	233	100	226	2500	12

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DRILLING PARAMETERS RECORD

Company	U P R C	Well Name No	Rock Island 4H
Field	Sweetwater	Rig Contractor No	Parker Drilling 235
County/Block/Parish	Sweetwater		

Date	Depth From	Depth To	Ftg Drilled	Mode S/R	Drlg Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	TFO	Flow Rate	Diff Pres	Temp	SPP	BHA No

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	15	2 1	******	7 2	32 5			233 0	100 0	2550 0
Rotating	434	34 9	******	12 4	17 9	50 0	8468 8	233 0	150 0	2494 1
Total	449	37 0	17 0	12 1	19 4	50 0	8468 8	233 0	144 7	2500 0

1/23/99	15952	15957	5	R	0 5	10	15	40	7000		233	150	259	3200	13
1/23/99	15957	15972	15	R	1 75	8 571	16	40	7000		233	150	259	3100	13
1/23/99	15972	15982	10	O	3 25	3 077	28			15 L	233	100	226	2950	13
1/23/99	15982	15986	4	R	0 75	5 333	16	40	7000		233	150	259	3100	13
1/23/99	15986	16021	35	R	2 75	12 73	16	40	7000		233	150	259	3100	13
1/23/99	16021	16031	10	O	2	5	28			15 L	233	100	226	2950	13
1/23/99	16031	16051	20	R	1 75	11 43	16	40	7000		233	150	259	3100	13
1/23/99	16051	16082	31	R	2 5	12 4	16	40	7000		233	150	259	3100	13
1/23/99	16082	16113	31	R	1 917	16 17	16	40	7000		233	150	259	3100	13
1/23/99	16113	16144	31	R	1 75	17 71	20	40	7000		233	150	240	3100	13
1/23/99	16144	16175	31	R	1 417	21 88	20	40	7500		233	150	240	2700	13
1/23/99	16175	16187	12	R	0 5	24	20	40	7500		233	150	240	2700	13
1/24/99	16187	16207	20	R	0 75	26 67	20	40	7500		233	150	251	2700	13
1/24/99	16207	16238	31	R	2 5	12 4	20	40	7500		233	150	251	2700	13
1/24/99	16238	16268	30	R	1 833	16 36	20	45	8500		233	150	251	2700	13
1/24/99	16268	16301	33	R	1 917	17 22	20	45	8500		233	150	251	2700	13
1/24/99	16301	16333	32	R	1 5	21 33	20	45	8500		233	150	251	2700	13
1/24/99	16333	16338	5	O	0 5	10	28			180	233	100	226	2950	13
1/24/99	16338	16362	24	R	1 25	19 20	20	45	8500		233	150	251	2700	13
1/24/99	16362	16396	34	R	2	17	20	45	8500		233	150	251	2700	13
1/24/99	16396	16428	32	R	3	10 67	20	45	8500		233	150	251	2700	13
1/24/99	16428	16438	10	R	0 75	13 33	20	45	8500		233	150	251	2700	13

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	25	5 8	******	4 3	28 0			233 0	100 0	2950 0
Rotating	461	31 1	******	14 8	18 5	41 8	7657 9	233 0	150 0	2873 7
Total	486	36 8	12 7	13 2	19 8	41 8	7657 9	233 0	143 2	2884 1

1/25/99	16438	16453	15	R	2	7 5	15	45	8000		233	200	255	2850	14
1/26/99	16453	16456	3	R	0 417	7 200	15	45	8000		233	200	255	2850	14
1/26/99	16456	16490	34	R	5 417	6 277	18	60	8000		233	200	255	2850	14
1/26/99	16490	16497	7	R	1 25	5 6	18	60	8000		233	200	255	2850	14

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding			******							
Rotating	59	9 1	******	6 5	16 5	52 5	8000 0	233 0	200 0	2850 0
Total	59	9 1	4 2	6 5	16 5	52 5	8000 0	233 0	200 0	2850 0

1/27/99	16497	16523	26	R	3 083	8 432	16	55	9000		233	150	255	2800	15
1/27/99	16523	16558	35	R	4 917	7 119	16	55	9000		233	150	255	2800	15
1/27/99	16558	16560	2	O	2 75	0 727	28			180	233	100	226	2950	15

BAKER HUGHES INTEQ

DRILLING PARAMETERS RECORD

Company	U P.R C	Well Name No	Rock Island 4H
Field	Sweetwater	Rig Contractor No	Parker Drilling 235
County/Block/Parish	Sweetwater		

Date	Depth From	Depth To	Ftg Drilled	Mode S/R	Drlg Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	TFO	Flow Rate	Diff Pres	Temp	SPP	BHA No
1/27/99	16560	16563	3	R	0 75	4	16	55	9000		233	150	255	2800	15
1/27/99	16563	16586	23	R	5 75	4	18	60	9000		233	150	255	2800	15
1/27/99	16586	16587	1	R	0 5	2	18	60	9000		233	150	255	2800	15
1/28/99	16587	16591	4	O	1 25	3 200	30			180	233	100	226	2500	15
1/28/99	16591	16591	0	R	1 25	0	18	60	9000		233	150	255	2800	15

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	6	4 0	******	1 5	29 0			233 0	100 0	2725 0
Rotating	88	16 2	******	5 4	17 0	57 5	9000 0	233 0	150 0	2800 0
Total	94	20 2	8 0	4 6	20 0	57 5	9000 0	233 0	137 5	2781 3

1/30/99	16591	16596	5	R	1 5	3 333	18	60	9000		233	150	255	2800	16
1/30/99	16596	16601	5	O	2 5	2	30			180	233	100	226	2500	16
1/30/99	16601	16615	14	R	2 667	5 25	18	60	9000		233	150	255	2600	16
1/30/99	16615	16636	21	R	4 167	5 04	18	60	9000		233	100	255	2600	16
1/31/99	16636	16642	6	O	1 75	3 429	50			170L	233	100	255	2600	16
1/31/99	16642	16645	3	R	0 667	4 5	18	60	9000		233	100	255	2600	16
1/31/99	16645	16661	16	R	3 167	5 053	18	60	9000		233	100	255	2450	16
1/31/99	16661	16671	10	O	6 417	1 558	50			170L	233	100	255	2600	16
1/31/99	16671	16680	9	R	2	4 5	18	60	9000		233	100	255	2450	16
1/31/99	16680	16707	27	R	4 25	6 353	18	60	9000		233	100	255	2450	16

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	21	10 7	******	2 0	43 3			233 0	100 0	2566 7
Rotating	95	18 4	******	5 2	18 0	60 0	9000 0	233 0	114 3	2564 3
Total	116	29 1	15 9	4 0	25 6	60 0	9000 0	233 0	110 0	2565 0

2/1/99	16298	16300	2	O	2	1	0			150R	233	0	255	2600	17
2/2/99	16300	16314	14	O	17 5	0 800	0			150R	233	0	255	2400	17
2/2/99	16314	16318	4	O	4	1	0			165R	233	0	255	2400	17
2/3/99	16318	16324	6	O	6 5	0 923	0			165R	233	0	255	2400	17
2/3/99	16569	16596	27	R	4	6 75	18	60	8000		233	150	255	2600	17
2/4/99	16596	16612	16	R	1 5	10 67	18	60	8000		233	150	255	2600	17
2/4/99	16612	16630	18	R	2 75	6 545	18	60	8000		233	150	255	2600	17
2/4/99	16630	16634	4	O	2	2	30			160L	233	100	255	2400	17
2/4/99	16634	16644	10	R	1 75	5 714	18	60	8000		233	150	255	2600	17
2/4/99	16644	16655	11	R	2	5 5	18	60	8000		233	150	255	2600	17

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding	30	32 0	******	0 9	6 0			233 0	20 0	2440 0
Rotating	82	12 0	******	6 8	18 0	60 0	8000 0	233 0	150 0	2600 0
Total	112	44 0	26 0	2 5	12 0	60 0	8000 0	233 0	85 0	2520 0

2/5/99	16655	16677	22	R	2	11	18	60	8000		233	150	255	2600	18
2/5/99	16677	16706	29	R	2	14 5	18	60	8000		233	150	255	2600	18
2/5/99	16706	16737	31	R	3 25	9 538	18	60	8000		233	150	255	2600	18
2/5/99	16737	16743	6	R	1	6	18	60	8000		233	150	255	2600	18

BAKER HUGHES INTEQ

DR..LING PARAMETERS RECOR.

Company: U P R C
Well Name No: Rock Island 4H
Field: Sweetwater
Rig Contractor No: Parker Drilling 235
County/Block/Parish: Sweetwater

Date	Depth From	Depth To	Ftg Drilled	Mode S/R	Drlg Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	TFO	Flow Rate	Diff Pres	Temp	SPP	BHA No

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding			******							
Rotating	88	8 3	******	10 7	18 0	60 0	8000 0	233 0	150 0	2600 0
Total	88	8 3	7 8	10 7	18 0	60 0	8000 0	233 0	150 0	2600 0

2/7/99	16743	16771	28	R	2 5	11 2	18	60	8000		233	150	255	2600	19
2/7/99	16771	16784	13	R	2 5	5 2	18	60	8000		233	150	255	2600	19

Mode	Footage	Drlg Hrs	Circ Hrs	ROP	WOB (Klbs)	Rot RPM	Rot Tq	Flow Rate	Avg Diff	SPP
Sliding			******							
Rotating	41	5 0	******	8 2	18 0	60 0	8000 0	233 0	150 0	2600 0
Total	41	5 0	7 0	8 2	18 0	60 0	8000 0	233 0	150 0	2600 0

BHI Job # 410101672

Surveys and Page Plot

UNION PACIFIC RESOURCES

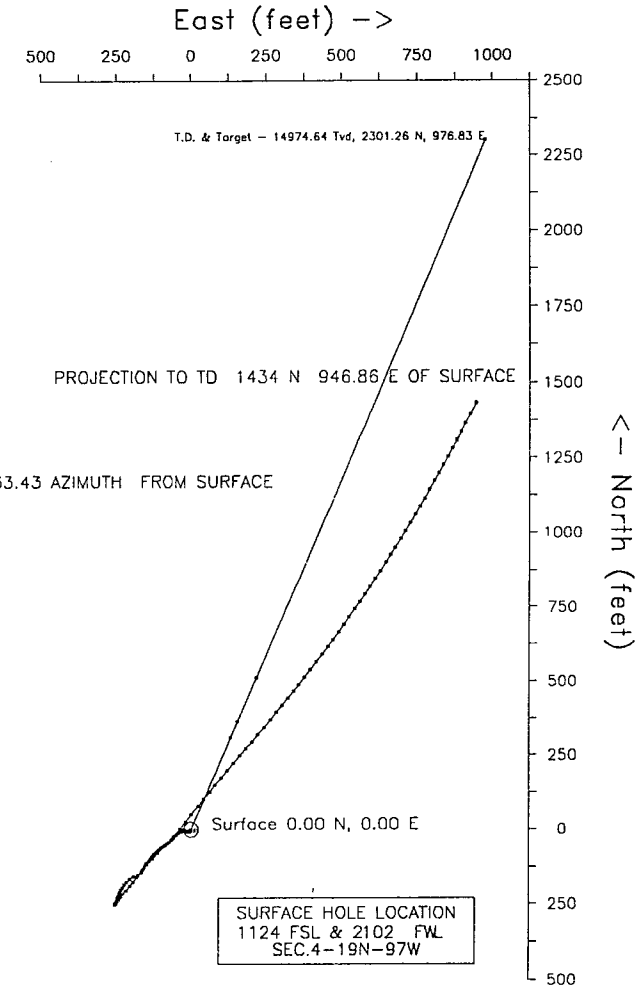
Structure : SEC.4-T19N-R97W Well : RIU#4
Field : SWEETWATER COUNTY Location : WYOMING

Created by jerryc
Date plotted : 16-Apr-99
Plot Reference is BHI MWD ST01 (16581'-16739').
Coordinates are in feet reference slot #1.
True Vertical Depths are reference RKB-GL=24'.

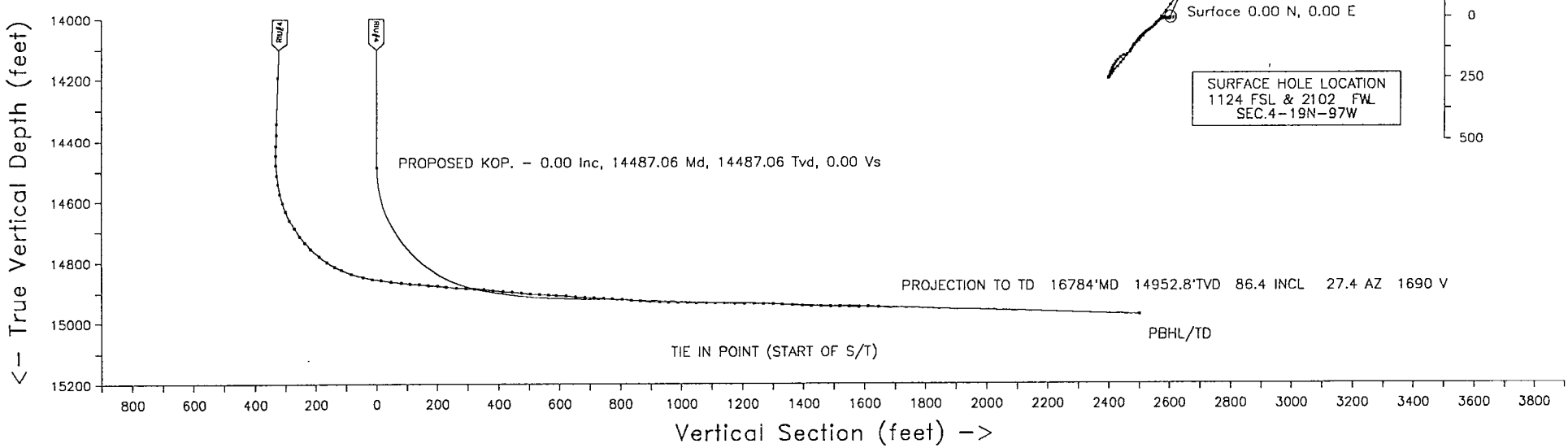
--- Baker Hughes INTEQ ---

BAKER HUGHES
INTEQ

FINAL SURVEY



BOTTOM HOLE IS LOCATED 1718.88 FT AT 33.43 AZIMUTH FROM SURFACE



Azimuth 23.00 with reference 0.00 N, 0.00 E from slot #1

BAKER HUGHES INTEQ
1675 Broadway Suite 1500
Denver, Colorado 80202
(303) 534-3223 Fax (303) 534-1822

Report of Sub-Surface Directional Survey

Union Pacific Resources
Company

Rock Island Unit #4
Well Name

Sweetwater Co, WY
Location

Job Number	Type of Survey	Date
410-101672	MWD	December 15, 1998

Surveyed By	Office
Lari Scarborough	Denver

BAKER HUGHES INTEQ
1675 Broadway Suite 1500
Denver, Colorado 80202
(303) 534-3223 Fax (303) 534-1822

Survey Certification Sheet

Union Pacific Resources	410-101672	December 15, 1998
Company	Job Number	Date
Sec.4-T19N-R97W	Rock Island Unit #4	Sweetwater Co. WY
Lease	Well Name	County and State

Surveyed from a depth of 14,385 feet to 16,675 feet MD

Type of Survey MWD

Directional Supervisor/Surveyor Lari Scarborough

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site Wellbore Coordinates are calculated using minimum curvature

Mike Grupa

Mike Grupa
Well Planner

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 11th day of February, 1999

Joyce A. Oakes My commission expires August 4, 2000

Certification Number 1251

Certification Date February 11, 1999

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W

RIU#4
slot #1
SWEETWATER COUNTY
WYOMING

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : BHI MWD (14385'-16675')
Our ref : svy4777
License :

Date printed : 11-Feb-99
Date created : 4-Jan-99
Last revised : 11-Feb-99

Field is centred on n41 35 0.000,w109 0 0
Structure is centred on n41 35 0.000,w109 0 0

Slot location is n41 35 11.104,w108 59 32.340
Slot Grid coordinates are N 335186.233, E 433710.876
Slot local coordinates are 1124.00 N 2102.00 E

Projection type: mercator - Wyoming West Central (4903), Spheroid: Clarke - 1866

Reference North is True North

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

SURVEY LISTING Page 1
Your ref : BHI MWD (14385'-16675
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	658.79
200.00	0.25	163.42	200.00	0.42 S	0.12 E	0.12	658.45
400.00	0.25	170.25	400.00	1.27 S	0.32 E	0.01	657.75
600.00	0.50	202.15	599.99	2.50 S	0.07 E	0.16	656.51
800.00	0.25	245.08	799.99	3.50 S	0.66 W	0.18	655.31
1000.00	0.25	216.99	999.99	4.03 S	1.32 W	0.06	654.57
1200.00	0.25	218.90	1199.99	4.72 S	1.85 W	0.00	653.72
1400.00	0.50	222.62	1399.98	5.70 S	2.72 W	0.13	652.48
1600.00	0.25	215.73	1599.98	6.70 S	3.56 W	0.13	651.23
1800.00	0.25	222.66	1799.97	7.37 S	4.11 W	0.02	650.40
2000.00	0.25	226.30	1999.97	7.99 S	4.72 W	0.01	649.59
2200.00	0.25	256.22	2199.97	8.40 S	5.46 W	0.06	648.92
2400.00	0.25	254.13	2399.97	8.62 S	6.31 W	0.00	648.39
2600.00	0.25	307.04	2599.97	8.48 S	7.07 W	0.11	648.22
2800.00	0.50	292.96	2799.96	7.87 S	8.23 W	0.13	648.33
3000.00	0.75	289.87	2999.95	7.09 S	10.26 W	0.13	648.25
3200.00	0.75	297.78	3199.93	6.03 S	12.65 W	0.05	648.29
3400.00	0.75	288.70	3399.92	5.00 S	15.05 W	0.06	648.30
3600.00	0.50	306.61	3599.90	4.06 S	16.99 W	0.16	648.41
3800.00	0.25	321.53	3799.90	3.20 S	17.96 W	0.13	648.82
4000.00	0.50	313.44	3999.90	2.26 S	18.87 W	0.13	649.34
4200.00	0.50	282.36	4199.89	1.47 S	20.35 W	0.13	649.48
4400.00	0.75	281.27	4399.88	1.03 S	22.49 W	0.13	649.05
4600.00	0.50	260.19	4599.86	0.92 S	24.63 W	0.17	648.31
4800.00	0.50	237.10	4799.86	1.55 S	26.22 W	0.10	647.12

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1610.70 on azimuth 33.86 degrees from wellhead.
Vertical section is from S 498.74 W 511.09 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

Your ref : BHI MWD (14385'-16675
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
5000.00	1.00	227.02	4999.84	3.21 S	28.23 W	0.26	644.80
5200.00	0.75	219.93	5199.82	5.40 S	30.35 W	0.14	641.96
5400.00	0.75	207.84	5399.80	7.57 S	31.80 W	0.08	639.40
5600.00	0.50	250.76	5599.79	9.01 S	33.24 W	0.26	637.51
5800.00	0.50	287.67	5799.78	9.03 S	34.89 W	0.16	636.84
6000.00	0.50	278.32	5999.77	8.64 S	36.59 W	0.04	636.54
6200.00	0.75	243.24	6199.76	9.11 S	38.62 W	0.22	635.32
6400.00	1.00	240.18	6399.74	10.56 S	41.30 W	0.13	632.93
6600.00	1.00	227.07	6599.71	12.62 S	44.09 W	0.11	629.94
6800.00	1.25	222.99	6799.67	15.40 S	46.86 W	0.13	626.30
7000.00	1.25	220.90	6999.62	18.65 S	49.78 W	0.02	622.18
7200.00	1.50	219.82	7199.56	22.31 S	52.88 W	0.13	617.59
7400.00	2.00	225.74	7399.47	26.75 S	57.06 W	0.27	611.87
7600.00	2.00	226.65	7599.35	31.58 S	62.09 W	0.02	605.45
7800.00	2.25	224.57	7799.21	36.78 S	67.39 W	0.13	598.61
8000.00	2.25	230.57	7999.06	42.07 S	73.17 W	0.12	591.47
8200.00	2.25	233.57	8198.90	46.89 S	79.37 W	0.06	584.61
8400.00	2.25	238.58	8398.75	51.27 S	85.87 W	0.10	578.04
8600.00	2.50	235.58	8598.58	55.78 S	92.82 W	0.14	571.17
8800.00	2.25	239.56	8798.41	60.24 S	99.81 W	0.15	564.34
9000.00	2.25	226.56	8998.25	64.93 S	106.04 W	0.25	557.59
9200.00	1.75	225.55	9198.13	69.76 S	111.07 W	0.25	551.17
9400.00	1.75	227.54	9398.04	73.96 S	115.51 W	0.03	545.57
9600.00	1.75	230.54	9597.94	77.97 S	120.12 W	0.05	540.09
9800.00	2.25	229.55	9797.82	82.46 S	125.46 W	0.25	533.87

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1610.70 on azimuth 33.86 degrees from wellhead.
Vertical section is from S 498.74 W 511.09 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

SURVEY LISTING Page 3
Your ref : BHI MWD (14385'-16675
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
10000.00	2.25	211.54	9997.67	88.35 S	130.50 W	0.35	526.47
10200.00	2.75	214.54	10197.48	95.65 S	135.28 W	0.26	517.89
10400.00	2.75	218.54	10397.25	103.35 S	140.99 W	0.10	508.57
10600.00	2.25	228.53	10597.06	109.70 S	146.92 W	0.33	500.40
10800.00	2.25	219.53	10796.91	115.33 S	152.36 W	0.18	493.09
11000.00	2.75	198.52	10996.72	122.91 S	156.38 W	0.52	484.55
11200.00	3.25	202.54	11196.44	132.70 S	160.08 W	0.27	474.10
11400.00	3.75	219.56	11396.08	142.97 S	166.42 W	0.57	462.16
11600.00	4.25	252.53	11595.61	150.24 S	177.65 W	1.16	451.08
11800.00	4.25	240.55	11795.07	156.11 S	191.18 W	0.44	440.39
12000.00	4.50	233.48	11994.49	164.42 S	203.93 W	0.30	427.75
12200.00	4.00	227.39	12193.94	173.82 S	215.37 W	0.34	414.64
12400.00	3.50	213.28	12393.51	183.64 S	223.86 W	0.52	402.28
12600.00	3.00	215.19	12593.19	193.02 S	230.22 W	0.26	391.16
12800.00	2.25	204.08	12792.98	200.88 S	234.84 W	0.45	382.11
13000.00	2.25	200.99	12992.83	208.13 S	237.85 W	0.06	374.27
13200.00	2.00	202.90	13192.69	215.01 S	240.61 W	0.13	366.85
13400.00	1.75	199.81	13392.58	221.10 S	243.01 W	0.13	360.31
13600.00	1.50	202.73	13592.50	226.39 S	245.05 W	0.13	354.65
13800.00	1.75	203.64	13792.42	231.60 S	247.29 W	0.13	348.98
14000.00	2.25	208.22	13992.30	237.86 S	250.37 W	0.26	342.01
14200.00	2.00	200.04	14192.16	244.60 S	253.42 W	0.20	334.62
14350.00	2.00	207.87	14342.07	249.37 S	255.54 W	0.18	329.39
14385.00	1.80	215.00	14377.05	250.36 S	256.14 W	0.88	328.25
14423.00	1.70	210.40	14415.03	251.33 S	256.77 W	0.45	327.11

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1610.70 on azimuth 33.86 degrees from wellhead.
Vertical section is from S 498.74 W 511.09 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

SURVEY LISTING Page 4
Your ref : BHI MWD (14385'-16675
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
14455.00	0.40	101.80	14447.03	251.77 S	256.90 W	5.83	326.66
14487.00	3.30	46.20	14479.01	251.15 S	256.13 W	9.66	327.53
14520.00	6.90	43.40	14511.87	249.05 S	254.08 W	10.93	330.26
14550.00	9.90	42.70	14541.55	245.85 S	251.09 W	10.01	334.37
14583.00	13.60	39.20	14573.85	240.76 S	246.71 W	11.41	340.77
14613.00	17.70	37.50	14602.73	234.40 S	241.71 W	13.75	348.58
14644.00	22.60	37.10	14631.83	225.91 S	235.24 W	15.81	358.93
14675.00	27.70	37.10	14659.88	215.40 S	227.30 W	16.45	371.70
14708.00	32.80	37.50	14688.37	202.18 S	217.22 W	15.47	387.80
14740.00	38.00	38.20	14714.45	187.56 S	205.85 W	16.30	405.71
14767.00	42.40	38.50	14735.07	173.89 S	195.03 W	16.31	422.51
14796.00	46.60	38.90	14755.75	158.04 S	182.33 W	14.51	442.08
14834.00	53.30	39.60	14780.18	135.53 S	163.93 W	17.69	469.98
14866.00	58.30	41.00	14798.17	115.36 S	146.81 W	16.04	495.24
14897.00	63.70	43.40	14813.19	95.29 S	128.59 W	18.69	520.83
14924.00	67.40	44.10	14824.37	77.54 S	111.60 W	13.91	543.81
14960.00	72.20	44.50	14836.79	53.37 S	88.01 W	13.37	575.28
15004.00	78.40	42.40	14847.95	22.48 S	58.76 W	14.83	615.14
15037.00	81.70	40.40	14853.66	1.90 N	37.27 W	11.65	645.97
15067.00	82.00	38.30	14857.91	24.86 N	18.44 W	7.00	674.47
15101.00	82.10	38.30	14862.61	51.29 N	2.43 E	0.29	706.95
15136.00	84.20	38.40	14866.79	78.54 N	23.99 E	6.01	740.45
15167.00	86.00	37.50	14869.43	102.89 N	42.98 E	6.49	770.29
15199.00	85.50	37.60	14871.80	128.19 N	62.43 E	1.59	801.18
15228.00	85.20	40.20	14874.16	150.68 N	80.58 E	9.00	828.98

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1610.70 on azimuth 33.86 degrees from wellhead.
Vertical section is from S 498.74 W 511.09 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

SURVEY LISTING Page 5
Your ref : BHI MWD (14385'-16675
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
15260.00	85.10	40.70	14876.86	174.95 N	101.26 E	1.59	859.40
15290.00	84.00	40.20	14879.71	197.67 N	120.64 E	4.02	887.89
15325.00	86.20	39.50	14882.70	224.44 N	142.98 E	6.59	921.26
15357.00	86.70	40.00	14884.68	249.00 N	163.41 E	2.21	951.84
15387.00	86.50	38.90	14886.46	272.12 N	182.43 E	3.72	980.56
15419.00	84.90	40.10	14888.86	296.75 N	202.73 E	6.24	1011.16
15450.00	84.90	39.80	14891.62	320.42 N	222.56 E	0.96	1040.69
15483.00	84.90	39.80	14894.55	345.67 N	243.60 E	0.00	1072.16
15516.00	84.70	39.30	14897.54	371.01 N	264.52 E	1.63	1103.66
15548.00	84.50	39.40	14900.55	395.64 N	284.72 E	0.70	1134.23
15578.00	84.60	39.10	14903.40	418.77 N	303.62 E	1.05	1162.90
15610.00	86.20	37.90	14905.97	443.73 N	323.47 E	6.24	1193.64
15640.00	86.50	37.40	14907.88	467.44 N	341.76 E	1.94	1222.60
15667.00	86.70	37.10	14909.48	488.89 N	358.08 E	1.33	1248.73
15699.00	86.60	37.60	14911.35	514.29 N	377.46 E	1.59	1279.68
15732.00	86.80	37.40	14913.25	540.42 N	397.51 E	0.86	1311.57
15763.00	86.90	37.00	14914.95	565.08 N	416.23 E	1.33	1341.58
15795.00	86.50	37.20	14916.79	590.56 N	435.50 E	1.40	1372.56
15827.00	86.30	35.90	14918.80	616.21 N	454.52 E	4.10	1403.61
15856.00	86.20	35.00	14920.70	639.79 N	471.30 E	3.12	1431.87
15889.00	85.60	35.10	14923.06	666.73 N	490.20 E	1.84	1464.06
15920.00	85.30	34.60	14925.52	692.09 N	507.86 E	1.88	1494.30
15950.00	85.00	34.80	14928.05	716.67 N	524.88 E	1.20	1523.57
15983.00	85.40	34.50	14930.82	743.72 N	543.57 E	1.51	1555.78
16015.00	87.40	34.50	14932.83	770.04 N	561.66 E	6.25	1587.07

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1610.70 on azimuth 33.86 degrees from wellhead.
Vertical section is from S 498.74 W 511.09 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
16045.00	88.80	33.90	14933.82	794.84 N	578.52 E	5.08	1616.49
16077.00	88.80	33.10	14934.49	821.52 N	596.17 E	2.50	1647.94
16108.00	88.90	32.90	14935.11	847.51 N	613.05 E	0.72	1678.47
16138.00	89.20	32.90	14935.61	872.70 N	629.35 E	1.00	1708.02
16172.00	89.40	32.20	14936.03	901.35 N	647.64 E	2.14	1741.54
16202.00	89.10	32.70	14936.42	926.67 N	663.73 E	1.94	1771.13
16231.00	89.10	31.80	14936.87	951.19 N	679.21 E	3.10	1799.75
16265.00	89.20	31.60	14937.38	980.11 N	697.07 E	0.66	1833.36
16296.00	89.10	31.30	14937.84	1006.56 N	713.24 E	1.02	1864.02
16329.00	89.00	30.30	14938.38	1034.90 N	730.14 E	3.05	1896.71
16360.00	88.20	30.00	14939.14	1061.70 N	745.70 E	2.76	1927.45
16392.00	87.50	29.40	14940.34	1089.47 N	761.55 E	2.88	1959.21
16422.00	87.40	28.50	14941.68	1115.70 N	776.05 E	3.02	1989.02
16455.00	87.00	28.90	14943.29	1144.61 N	791.88 E	1.71	2021.82
16488.00	87.40	28.50	14944.90	1173.52 N	807.71 E	1.71	2054.62
16518.00	88.30	28.50	14946.03	1199.86 N	822.01 E	3.00	2084.46
16550.00	88.90	28.70	14946.81	1227.95 N	837.33 E	1.98	2116.30
16582.00	88.50	28.70	14947.53	1256.01 N	852.69 E	1.25	2148.13
16612.00	89.00	29.40	14948.19	1282.23 N	867.26 E	2.87	2177.95
16643.00	89.10	28.70	14948.70	1309.33 N	882.31 E	2.28	2208.78
16675.00	88.40	27.90	14949.40	1337.50 N	897.47 E	3.32	2240.63

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1610.70 on azimuth 33.86 degrees from wellhead.
Vertical section is from S 498.74 W 511.09 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
PBHL/TD		14974.64	2301.26N	976.83E	7-Dec-98

BAKER HUGHES INTEQ

1675 Broadway Suite 1500
Denver, Colorado 80202
(303) 534-3223 Fax (303) 534-1822

Report of Sub-Surface Directional Survey

Union Pacific Resources

Company

Rock Island Unit#4 S/T#1

Well Name

Sweetwater Co, WY

Location

Job Number	Type of Survey	Date
410-101672	MWD	February 01, 1999

Surveyed By	Office
Lari Scarborough	Denver

BAKER HUGHES INTEQ
1675 Broadway Suite 1500
Denver, Colorado 80202
(303) 534-3223 Fax (303) 534-1822

Survey Certification Sheet

Union Pacific Resources	410-101672	February 01, 1999
Company	Job Number	Date
Sec.4-T9N-R97W	Rock Island Unit#4 S/T#1	Sweetwater Co, WY
Lease	Well Name	County and State

Surveyed from a depth of 16,581 feet to 16,739 feet MD

Type of Survey MWD

Directional Supervisor/Surveyor Lari Scarborough

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Baker Hughes INTEQ This report represents a true and correct Directional Survey of this well based on the original data obtained at the well site Wellbore Coordinates are calculated using minimum curvature

Mike Grupa

Mike Grupa
Well Planner

This document has been subscribed and affirmed, or sworn to before me in the county of Denver, state of Colorado, this 11th day of February, 1999

Joyce A. Oakes My commission expires August 4, 2000

Certification Number 1252

Certification Date February 11, 1999

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W

RIU#4
slot #1
SWEETWATER COUNTY
WYOMING

S U R V E Y L I S T I N G

by
Baker Hughes INTEQ

Your ref : BHI MWD ST01 (16581'-16739')
Our ref : svy4807
License :

Date printed : 11-Feb-99
Date created : 4-Feb-99
Last revised : 11-Feb-99

Field is centred on n41 35 0.000,w109 0 0
Structure is centred on n41 35 0.000,w109 0 0

Slot location is n41 35 11.104,w108 59 32.340
Slot Grid coordinates are N 335186.233, E 433710.876
Slot local coordinates are 1124.00 N 2102.00 E

Projection type: mercator - Wyoming West Central (4903), Spheroid: Clarke - 1866

Reference North is True North

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

SURVEY LISTING Page 1
Your ref : BHI MWD ST01 (16581'-
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
200.00	0.25	163.42	200.00	0.42 S	0.12 E	0.12	-0.34
400.00	0.25	170.25	400.00	1.27 S	0.32 E	0.01	-1.04
600.00	0.50	202.15	599.99	2.50 S	0.07 E	0.16	-2.28
800.00	0.25	245.08	799.99	3.50 S	0.66 W	0.18	-3.48
1000.00	0.25	216.99	999.99	4.03 S	1.32 W	0.06	-4.22
1200.00	0.25	218.90	1199.99	4.72 S	1.85 W	0.00	-5.07
1400.00	0.50	222.62	1399.98	5.70 S	2.72 W	0.13	-6.31
1600.00	0.25	215.73	1599.98	6.70 S	3.56 W	0.13	-7.55
1800.00	0.25	222.66	1799.97	7.37 S	4.11 W	0.02	-8.39
2000.00	0.25	226.30	1999.97	7.99 S	4.72 W	0.01	-9.20
2200.00	0.25	256.22	2199.97	8.40 S	5.46 W	0.06	-9.87
2400.00	0.25	254.13	2399.97	8.62 S	6.31 W	0.00	-10.40
2600.00	0.25	307.04	2599.97	8.48 S	7.07 W	0.11	-10.57
2800.00	0.50	292.96	2799.96	7.87 S	8.23 W	0.13	-10.46
3000.00	0.75	289.87	2999.95	7.09 S	10.26 W	0.13	-10.54
3200.00	0.75	297.78	3199.93	6.03 S	12.65 W	0.05	-10.50
3400.00	0.75	288.70	3399.92	5.00 S	15.05 W	0.06	-10.49
3600.00	0.50	306.61	3599.90	4.06 S	16.99 W	0.16	-10.38
3800.00	0.25	321.53	3799.90	3.20 S	17.96 W	0.13	-9.97
4000.00	0.50	313.44	3999.90	2.26 S	18.87 W	0.13	-9.45
4200.00	0.50	282.36	4199.89	1.47 S	20.35 W	0.13	-9.31
4400.00	0.75	281.27	4399.88	1.03 S	22.49 W	0.13	-9.74
4600.00	0.50	260.19	4599.86	0.92 S	24.63 W	0.17	-10.47
4800.00	0.50	237.10	4799.86	1.55 S	26.22 W	0.10	-11.67

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1718.88 on azimuth 33.43 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

SURVEY LISTING Page 2
Your ref : BHI MWD ST01 (16581'-
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
5000.00	1.00	227.02	4999.84	3.21 S	28.23 W	0.26	-13.99
5200.00	0.75	219.93	5199.82	5.40 S	30.35 W	0.14	-16.83
5400.00	0.75	207.84	5399.80	7.57 S	31.80 W	0.08	-19.39
5600.00	0.50	250.76	5599.79	9.01 S	33.24 W	0.26	-21.28
5800.00	0.50	287.67	5799.78	9.03 S	34.89 W	0.16	-21.95
6000.00	0.50	278.32	5999.77	8.64 S	36.59 W	0.04	-22.25
6200.00	0.75	243.24	6199.76	9.11 S	38.62 W	0.22	-23.47
6400.00	1.00	240.18	6399.74	10.56 S	41.30 W	0.13	-25.86
6600.00	1.00	227.07	6599.71	12.62 S	44.09 W	0.11	-28.84
6800.00	1.25	222.99	6799.67	15.40 S	46.86 W	0.13	-32.49
7000.00	1.25	220.90	6999.62	18.65 S	49.78 W	0.02	-36.61
7200.00	1.50	219.82	7199.56	22.31 S	52.88 W	0.13	-41.20
7400.00	2.00	225.74	7399.47	26.75 S	57.06 W	0.27	-46.92
7600.00	2.00	226.65	7599.35	31.58 S	62.09 W	0.02	-53.34
7800.00	2.25	224.57	7799.21	36.78 S	67.39 W	0.13	-60.18
8000.00	2.25	230.57	7999.06	42.07 S	73.17 W	0.12	-67.32
8200.00	2.25	233.57	8198.90	46.89 S	79.37 W	0.06	-74.18
8400.00	2.25	238.58	8398.75	51.27 S	85.87 W	0.10	-80.75
8600.00	2.50	235.58	8598.58	55.78 S	92.82 W	0.14	-87.62
8800.00	2.25	239.56	8798.41	60.24 S	99.81 W	0.15	-94.45
9000.00	2.25	226.56	8998.25	64.93 S	106.04 W	0.25	-101.20
9200.00	1.75	225.55	9198.13	69.76 S	111.07 W	0.25	-107.62
9400.00	1.75	227.54	9398.04	73.96 S	115.51 W	0.03	-113.22
9600.00	1.75	230.54	9597.94	77.97 S	120.12 W	0.05	-118.70
9800.00	2.25	229.55	9797.82	82.46 S	125.46 W	0.25	-124.92

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1718.88 on azimuth 33.43 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

Your ref : BHI MWD ST01 (16581'-
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
0000.00	2.25	211.54	9997.67	88.35 S	130.50 W	0.35	-132.32
.0200.00	2.75	214.54	10197.48	95.65 S	135.28 W	0.26	-140.90
.0400.00	2.75	218.54	10397.25	103.35 S	140.99 W	0.10	-150.22
.0600.00	2.25	228.53	10597.06	109.70 S	146.92 W	0.33	-158.39
.0800.00	2.25	219.53	10796.91	115.33 S	152.36 W	0.18	-165.69
L1000.00	2.75	198.52	10996.72	122.91 S	156.38 W	0.52	-174.24
L1200.00	3.25	202.54	11196.44	132.70 S	160.08 W	0.27	-184.69
L1400.00	3.75	219.56	11396.08	142.97 S	166.42 W	0.57	-196.63
L1600.00	4.25	252.53	11595.61	150.24 S	177.65 W	1.16	-207.71
L1800.00	4.25	240.55	11795.07	156.11 S	191.18 W	0.44	-218.40
L2000.00	4.50	233.48	11994.49	164.42 S	203.93 W	0.30	-231.04
L2200.00	4.00	227.39	12193.94	173.82 S	215.37 W	0.34	-244.15
L2400.00	3.50	213.28	12393.51	183.64 S	223.86 W	0.52	-256.51
L2600.00	3.00	215.19	12593.19	193.02 S	230.22 W	0.26	-267.63
L2800.00	2.25	204.08	12792.98	200.88 S	234.84 W	0.45	-276.67
13000.00	2.25	200.99	12992.83	208.13 S	237.85 W	0.06	-284.52
13200.00	2.00	202.90	13192.69	215.01 S	240.61 W	0.13	-291.94
13400.00	1.75	199.81	13392.58	221.10 S	243.01 W	0.13	-298.48
13600.00	1.50	202.73	13592.50	226.39 S	245.05 W	0.13	-304.14
13800.00	1.75	203.64	13792.42	231.60 S	247.29 W	0.13	-309.81
14000.00	2.25	208.22	13992.30	237.86 S	250.37 W	0.26	-316.78
14200.00	2.00	200.04	14192.16	244.60 S	253.42 W	0.20	-324.17
14350.00	2.00	207.87	14342.07	249.37 S	255.54 W	0.18	-329.39
14385.00	1.80	215.00	14377.05	250.36 S	256.14 W	0.88	-330.54
14423.00	1.70	210.40	14415.03	251.33 S	256.77 W	0.45	-331.68

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1718.88 on azimuth 33.43 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

SURVEY LISTING Page 4
Your ref : BHI MWD ST01 (16581'-
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
14455.00	0.40	101.80	14447.03	251.77 S	256.90 W	5.83	-332.13
14487.00	3.30	46.20	14479.01	251.15 S	256.13 W	9.66	-331.26
14520.00	6.90	43.40	14511.87	249.05 S	254.08 W	10.93	-328.53
14550.00	9.90	42.70	14541.55	245.85 S	251.09 W	10.01	-324.41
14583.00	13.60	39.20	14573.85	240.76 S	246.71 W	11.41	-318.02
14613.00	17.70	37.50	14602.73	234.40 S	241.71 W	13.75	-310.21
14644.00	22.60	37.10	14631.83	225.91 S	235.24 W	15.81	-299.86
14675.00	27.70	37.10	14659.88	215.40 S	227.30 W	16.45	-287.09
14708.00	32.80	37.50	14688.37	202.18 S	217.22 W	15.47	-270.99
14740.00	38.00	38.20	14714.45	187.56 S	205.85 W	16.30	-253.08
14767.00	42.40	38.50	14735.07	173.89 S	195.03 W	16.31	-236.28
14796.00	46.60	38.90	14755.75	158.04 S	182.33 W	14.51	-216.71
14834.00	53.30	39.60	14780.18	135.53 S	163.93 W	17.69	-188.81
14866.00	58.30	41.00	14798.17	115.36 S	146.81 W	16.04	-163.55
14897.00	63.70	43.40	14813.19	95.29 S	128.59 W	18.69	-137.96
14924.00	67.40	44.10	14824.37	77.54 S	111.60 W	13.91	-114.98
14960.00	72.20	44.50	14836.79	53.37 S	88.01 W	13.37	-83.51
15004.00	78.40	42.40	14847.95	22.48 S	58.76 W	14.83	-43.65
15037.00	81.70	40.40	14853.66	1.90 N	37.27 W	11.65	-12.82
15067.00	82.00	38.30	14857.91	24.86 N	18.44 W	7.00	15.68
15101.00	82.10	38.30	14862.61	51.29 N	2.43 E	0.29	48.16
15136.00	84.20	38.40	14866.79	78.54 N	23.99 E	6.01	81.67
15167.00	86.00	37.50	14869.43	102.89 N	42.98 E	6.49	111.51
15199.00	85.50	37.60	14871.80	128.19 N	62.43 E	1.59	142.39
15228.00	85.20	40.20	14874.16	150.68 N	80.58 E	9.00	170.19

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1718.88 on azimuth 33.43 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

UNION PACIFIC RESOURCES
SEC.4-T19N-R97W,RIU#4
SWEETWATER COUNTY,WYOMING

Your ref : BHI MWD ST01 (16581'-
Last revised : 11-Feb-99

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect
15260.00	85.10	40.70	14876.86	174.95 N	101.26 E	1.59	200.61
15290.00	84.00	40.20	14879.71	197.67 N	120.64 E	4.02	229.10
15325.00	86.20	39.50	14882.70	224.44 N	142.98 E	6.59	262.47
15357.00	86.70	40.00	14884.68	249.00 N	163.41 E	2.21	293.05
15387.00	86.50	38.90	14886.46	272.12 N	182.43 E	3.72	321.77
15419.00	84.90	40.10	14888.86	296.75 N	202.73 E	6.24	352.37
15450.00	84.90	39.80	14891.62	320.42 N	222.56 E	0.96	381.90
15483.00	84.90	39.80	14894.55	345.67 N	243.60 E	0.00	413.37
15516.00	84.70	39.30	14897.54	371.01 N	264.52 E	1.63	444.87
15548.00	84.50	39.40	14900.55	395.64 N	284.72 E	0.70	475.44
15578.00	84.60	39.10	14903.40	418.77 N	303.62 E	1.05	504.11
15610.00	86.20	37.90	14905.97	443.73 N	323.47 E	6.24	534.85
15640.00	86.50	37.40	14907.88	467.44 N	341.76 E	1.94	563.82
15667.00	86.70	37.10	14909.48	488.89 N	358.08 E	1.33	589.94
15699.00	86.60	37.60	14911.35	514.29 N	377.46 E	1.59	620.89
15732.00	86.80	37.40	14913.25	540.42 N	397.51 E	0.86	652.78
15763.00	86.90	37.00	14914.95	565.08 N	416.23 E	1.33	682.79
15795.00	86.50	37.20	14916.79	590.56 N	435.50 E	1.40	713.77
15827.00	86.30	35.90	14918.80	616.21 N	454.52 E	4.10	744.82
15856.00	86.20	35.00	14920.70	639.79 N	471.30 E	3.12	773.08
15889.00	85.60	35.10	14923.06	666.73 N	490.20 E	1.84	805.27
15920.00	85.30	34.60	14925.52	692.09 N	507.86 E	1.88	835.51
15950.00	85.00	34.80	14928.05	716.67 N	524.88 E	1.20	864.78
15983.00	85.40	34.50	14930.82	743.72 N	543.57 E	1.51	896.99
16015.00	87.40	34.50	14932.83	770.04 N	561.66 E	6.25	928.28

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1718.88 on azimuth 33.43 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	
16045.00	88.80	33.90	14933.82	794.84 N	578.52 E	5.08	957.70	
16077.00	88.80	33.10	14934.49	821.52 N	596.17 E	2.50	989.15	
16108.00	88.90	32.90	14935.11	847.51 N	613.05 E	0.72	1019.68	
16138.00	89.20	32.90	14935.61	872.70 N	629.35 E	1.00	1049.23	
16172.00	89.40	32.20	14936.03	901.35 N	647.64 E	2.14	1082.75	
16202.00	89.10	32.70	14936.42	926.67 N	663.73 E	1.94	1112.34	
16231.00	89.10	31.80	14936.87	951.19 N	679.21 E	3.10	1140.96	
16265.00	89.20	31.60	14937.38	980.11 N	697.07 E	0.66	1174.57	
16296.00	89.10	31.30	14937.84	1006.56 N	713.24 E	1.02	1205.23	
16329.00	89.00	30.30	14938.38	1034.90 N	730.14 E	3.05	1237.92	
16360.00	88.20	30.00	14939.14	1061.70 N	745.70 E	2.76	1268.67	
16392.00	87.50	29.40	14940.34	1089.47 N	761.55 E	2.88	1300.42	
16422.00	87.40	28.50	14941.68	1115.70 N	776.05 E	3.02	1330.23	
16455.00	87.00	28.90	14943.29	1144.61 N	791.88 E	1.71	1363.03	
16488.00	87.40	28.50	14944.90	1173.52 N	807.71 E	1.71	1395.83	
16518.00	88.30	28.50	14946.03	1199.86 N	822.01 E	3.00	1425.67	
16550.00	88.90	28.70	14946.81	1227.95 N	837.33 E	1.98	1457.51	TIE IN POINT (START OF S/
16581.00	90.10	27.40	14947.08	1255.31 N	851.90 E	5.71	1488.38	
16613.00	89.60	28.20	14947.16	1283.61 N	866.83 E	2.95	1520.27	
16645.00	89.60	28.50	14947.39	1311.78 N	882.02 E	0.94	1552.13	
16676.00	89.20	27.90	14947.71	1339.09 N	896.67 E	2.33	1583.00	
16706.00	88.10	28.30	14948.42	1365.55 N	910.80 E	3.90	1612.87	
16739.00	86.40	27.40	14950.00	1394.69 N	926.20 E	5.83	1645.72	
16784.00	86.40	27.40	14952.83	1434.57 N	946.86 E	0.00	1690.49	PROJECTION TO TD.

All data is in feet unless otherwise stated.
Coordinates from slot #1 and TVD from RKB-GL=24' (24.00 Ft above GROUND LEVEL).
Bottom hole distance is 1718.88 on azimuth 33.43 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 23.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
16550.00	14946.81	1227.95 N	837.33 E	TIE IN POINT (START OF S/T)
16784.00	14952.83	1434.57 N	946.86 E	PROJECTION TO TD.

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates		Revised
PBHL/TD		14974.64	2301.26N	976.83E	7-Dec-98

Basin-Centered Gas: Lessons Learned

- Fluvial valleys vs. regional marine shorefaces:
  - Fracture intensity, Strat compartments
- Faults - conduits or seals ….. alternate?
- Overpressured, fractured, gas-saturated matrix can produce water from fractures.
- Dewatering a fracture system may be like CBM, but less water and more gas! ???

Accomplishments

- Set 3 world records for deepest horizontal wells.
- 3 World record horizontal tight gas sand cores.
- Reduced drilling time by > 50% vs. industry.
- Documented a highly complex reservoir system:
  A model for other "basin-center" plays?
- Proved that drilling & producing horizontal wells in the deep GGRB is technically and economically viable.

Appendix 20

Schlumberger FMI Borview, ELAN, and CMR logs, Sidewinder #1H, #2H.

(1) ELAN of Sidewinder #1H

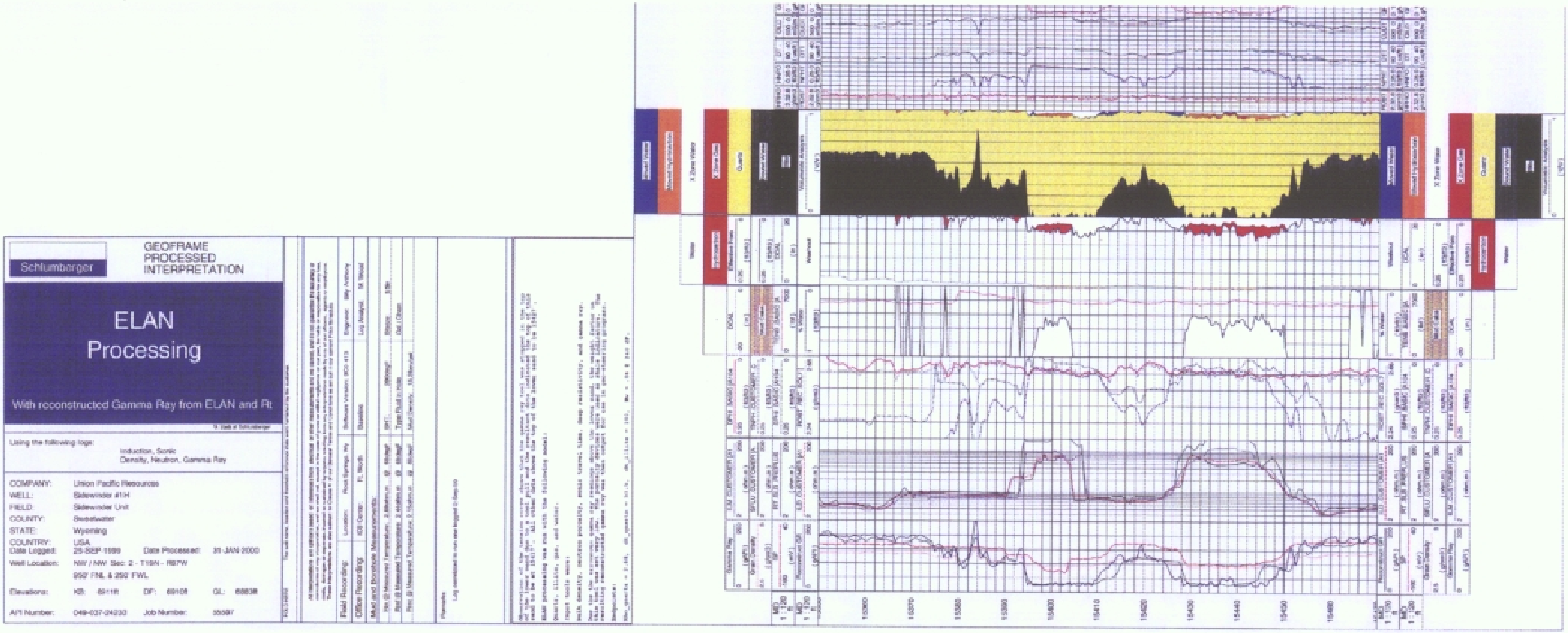
(2) CMR of Sidewinder #1H

(3) FMI of Sidewinder #1H

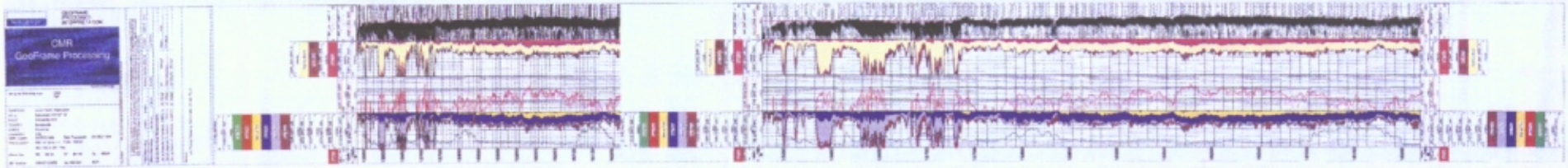
(4) ELAN of Sidewinder #2H

(5) FMI of Sidewinder #2H

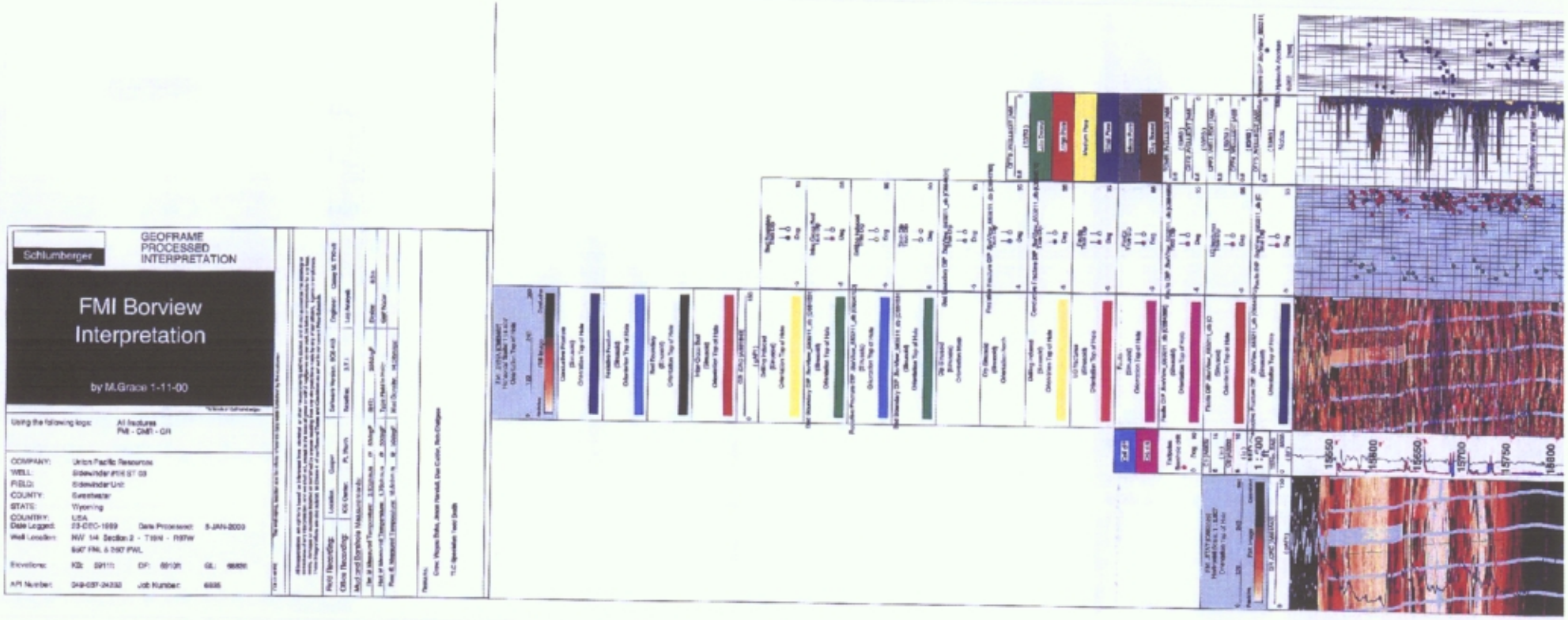
APPENDIX 20. SIDEWINDER #1H - ELAN INTERPRETATION



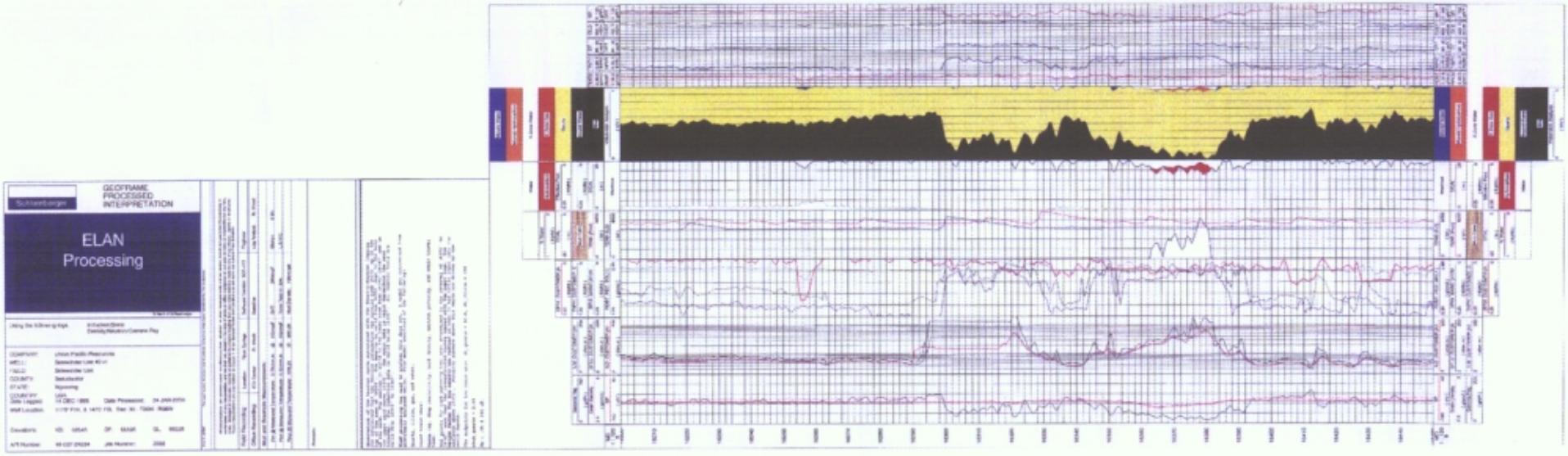
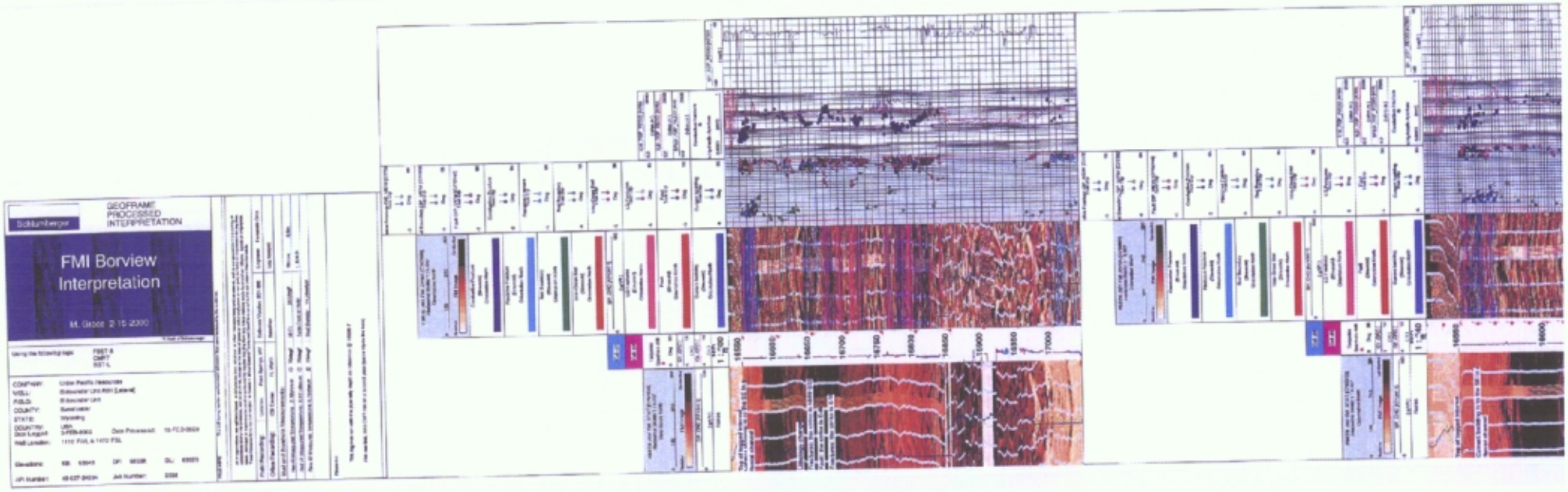
APPENDIX 20. SIDEWINDER #1H, ST 03 - CMR GEOFRAME PROCESSING



APPENDIX 20. SIDEWINDER #1H, ST 03 - FMI INTERPRETATION



APPENDIX 20. SIDEWINDER #2H - ELAN INTERPRETATION



APPENDIX 20. SIDEWINDER #2H - FMI INTERPRETATION