

15-145-21437

2-20s-20w

WELL NAME: Seltman #1
COMPANY: Hellar Drilling Company
LOCATION: 2-20S-20W
Pawnee County Kansas
DATE: 08/08/96

TRILOBITE TESTING L.L.C.

OPERATOR : Hellar Drilling Company
WELL NAME: Seltman #1
LOCATION : 2-20S-20W, Pawnee Cty KS
INTERVAL : 4194.00 To 4257.00 ft

DATE 8/7/96
KB 2270.00 ft TICKET NO: 9504 DST #3
GR 2261.00 ft FORMATION: Cherokee Sand
TD 4257.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13754	13754	13249			PF Fr. 1545 to 1615 hr
SI 30	Range(Psi)	4000.0	4000.0	4500.0	0.0	0.0	IS Fr. 1615 to 1645 hr
SF 30	Clock(hrs)	12	12	12			SF Fr. 1645 to 1715 hr
FS 30	Depth(ft)	4200.0	4200.0	4254.0	0.0	0.0	FS Fr. 1715 to 1745 hr

	Field	1	2	3	4	
A. Init Hydro	2188.0	2167.0	0.0	0.0	0.0	T STARTED 1445 hr
B. First Flow	137.0	132.0	0.0	0.0	0.0	T ON BOTM 1540 hr
C. Final Flow	226.0	217.0	0.0	0.0	0.0	T OPEN 1545 hr
D. In Shut-in	788.0	803.0	0.0	0.0	0.0	T PULLED 1745 hr
E. Init Flow	265.0	259.0	0.0	0.0	0.0	T OUT 2015 hr
F. Final Flow	344.0	345.0	0.0	0.0	0.0	
G. Fl Shut-in	768.0	771.0	0.0	0.0	0.0	
Q. Final Hydro	2117.0	2112.0	0.0	0.0	0.0	
Inside/Outside	0	0	I			

RECOVERY

Tot Fluid 876.00 ft of 0.00 ft in DC and 876.00 ft in DP
712.00 ft of Clean gassy oil - 20% gas, 80% oil
134.00 ft of Mud cut gassy oil - 20% gas, 70% oil, 10% mud
30.00 ft of Water - 100% water

TOOL DATA-----
Tool Wt. 1500.00 lbs
Wt Set On Packer 20000.00 lbs
Wt Pulled Loose 70000.00 lbs
Initial Str Wt 58000.00 lbs
Unseated Str Wt 62000.00 lbs
Bot Choke 0.75 in
Hole Size 7.88 in
D Col. ID 2.25 in
D. Pipe ID 3.80 in
D.C. Length 0.00 ft
D.P. Length 4186.00 ft

RW .30 @ 60 F

SALINITY 23000.00 P.P.M. A.P.I. Gravity 34.00

BLOW DESCRIPTION

Initial Flow -
Strong blow - Bottom of bucket in
4 minutes
Initial Shutin -
Bled off blow - blow came back
built to 4"

Final Flow -
Strong blow - Bottom of bucket in
3 minutes
Final Shutin -
Bled off blow - blow came back
built to 4"

SAMPLES:

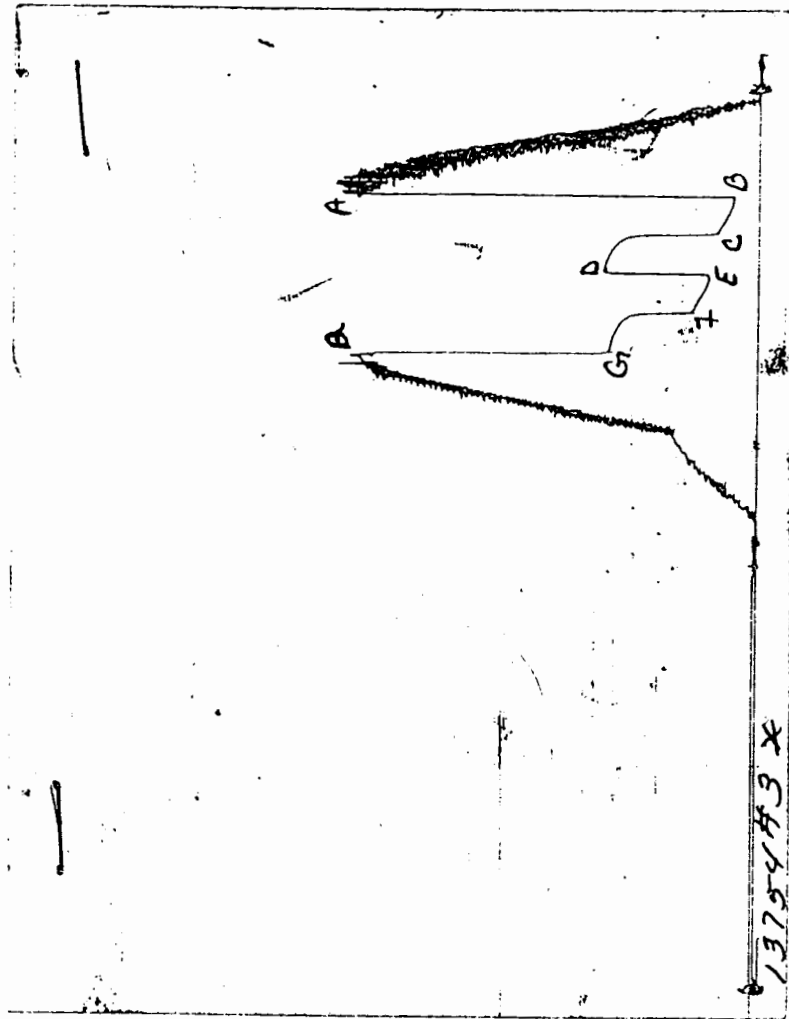
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.40 lb/c
Vis. 52.00 S/L
W.L. 9.60 in3
F.C. 0.00 in
Mud Drop

Amt. of fill 0.00 ft
Btm. H. Temp. 118.00 F
Hole Condition Good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out
Tool Chased
Tester Dan Bangle
Co. Rep. Jim Thompson
Contr. Duke
Rig # 4
Unit #
Pump T.

Test Successful: Y

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

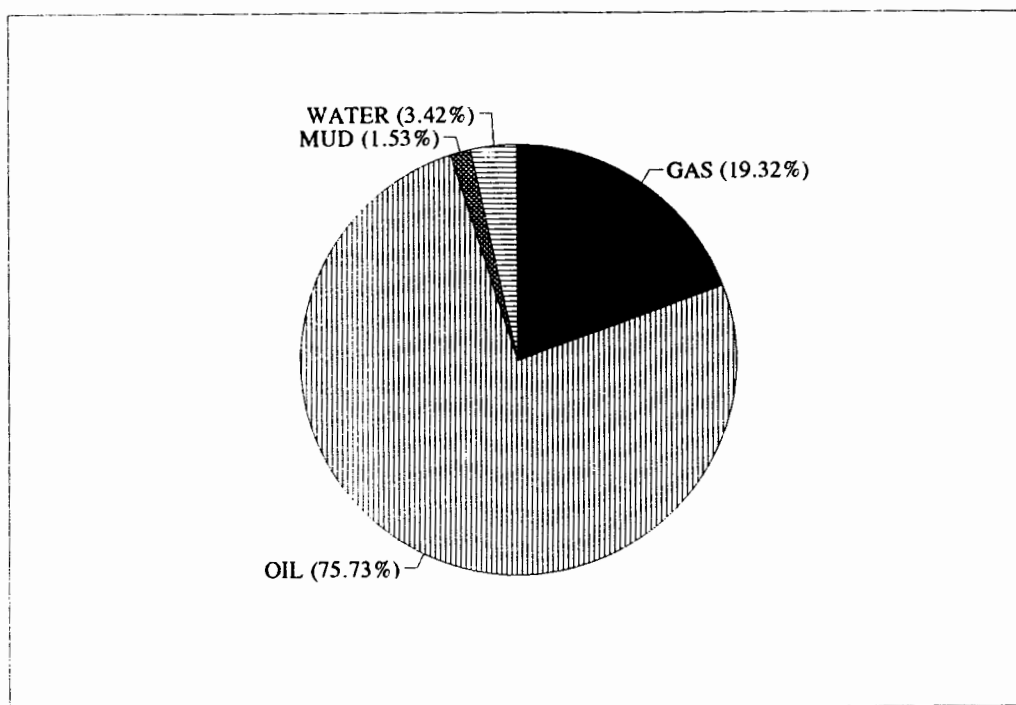
CALCULATED RECOVERY ANALYSIS - DRILL PIPE

DST 3

TICKET 9504

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	712	20	142.4	80	569.6		0		0
2	134	20	26.8	70	93.8		0	10	13.4
3	30		0		0	100	30		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	876		169.2		663.4		30		13.4

			HRS OPEN		BBL/DAY
BBL OIL=	9.43355	*	1	=	226.405
BBL WATER=	0.4266	*		=	10.2384
BBL MUD=	0.19055				
BBL GAS =	2.40602				



Well name Seitman
 DST # 3
 Recorder # 13754

A	2.080	2067	1
B	.134	132	2
C	.220	217	3
D	.815	803	4
E	.263	259	5
F	.351	345	6
G	.782	771	7
H	2.065	2062	8
			9
			1
			1
			1



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9504

Well Name & No.	<u>Seitman #1</u>	Test No.	<u>3</u>	Date	<u>8-7-96</u>
Company	<u>Hellar Drilling Co. Inc</u>	Zone Tested	<u>Cherokee S.</u>		
Address	<u>125 N. Market, Wichita, Ks. 67202</u>	#1422	Elevation	<u>2270</u>	KB <u>2261</u> GL
Co. Rep / Geo.	<u>Jim Thompson</u>	Cont.	<u>Duke #4</u>	Est. Ft. of Pay	<u>5</u> Por. <u> </u> %
Location: Sec.	<u>2</u>	Twp.	<u>20</u>	Rge.	<u>20</u> Co. <u>Pownee</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4194 - 4257</u>	Initial Str Wt./Lbs.	<u>58,000</u>	Unseated Str Wt./Lbs.	<u>62,000</u>
Anchor Length	<u>63</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>70,000</u>
Top Packer Depth	<u>4189</u>	Tool Weight	<u>1500</u>		
Bottom Packer Depth	<u>4194</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>4257</u>	Wt. Pipe Run		Drill Collar Run	
Mud Wt. <u>9.4</u> LCM <u> </u> Vis. <u>52</u> WL <u>9.6</u>		Drill Pipe Size	<u>4.5XH</u>	Ft. Run	<u>4186</u>
Blow Description	<u>I.F. Strong B.O.B. in 4 min.</u> <u>Bled off blow - blow came back - built to 4"</u> <u>E.F. Strong B.O.B. in 3 min.</u> <u>Bled off blow - blow came back - built to 4"</u>				
Recovery — Total Feet	<u>876</u>	GIP	<u>1228</u>	Ft. in DC	
				Ft. in DP	<u>876</u>
Rec. <u>712</u>	Feet Of <u>CGSYO</u>	<u>20</u> %gas	<u>80</u> %oil	%water	%mud
Rec. <u>134</u>	Feet Of <u>MC GSYO</u>	<u>20</u> %gas	<u>70</u> %oil	%water <u>10</u>	%mud
Rec. <u>30</u>	Feet Of <u>WTR</u>	%gas	%oil	<u>100</u> %water	%mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>	%gas	%oil	%water	%mud
BHT <u>118</u>	°F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u>34</u>	°API	
RW <u>.30</u>	@ <u>60</u>	°F Chlorides <u>23,000</u>	ppm Recovery	Chlorides <u>5,000</u>	ppm System
(A) Initial Hydrostatic Mud	<u>2188</u>	PSI	Recorder No. <u>13754</u>	T-Started	<u>15:45</u>
(B) First Initial Flow Pressure	<u>137</u>	PSI	(depth) <u>4200</u>	T-Open	<u>15:45</u>
(C) First Final Flow Pressure	<u>226</u>	PSI	Recorder No. <u>13249</u>	T-Pulled	<u>17:45</u>
(D) Initial Shut-in Pressure	<u>788</u>	PSI	(depth) <u>4254</u>	T-Out	<u>20:15</u>
(E) Second Initial Flow Pressure	<u>265</u>	PSI	Recorder No. <u> </u>		
(F) Second Final Flow Pressure	<u>344</u>	PSI	(depth) <u> </u>		
(G) Final Shut-in Pressure	<u>768</u>	PSI	Initial Opening <u>30</u>	Test	<u>600</u>
(H) Final Hydrostatic Mud	<u>2117</u>	PSI	Initial Shut-in <u>30</u>	Jars <u>X</u>	<u>N/C</u>
			Final Flow <u>30</u>	Safety Joint	
			Final Shut-in <u>30</u>	Straddle	
			<u>68 STD + 1</u>	Circ. Sub	
				Sampler	
				Extra Packer	
				Elect. Rec.	
				Other	
				TOTAL PRICE \$	<u>600</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By

Our Representative Don Baner

TOTAL PRICE \$ 600

TRILOBITE TESTING L.L.C.

OPERATOR : Hellar Drilling Company
WELL NAME: Seltman #1
LOCATION : 2-20S-20W, Pawnee Cty KS
INTERVAL : 4280.00 To 4294.00 ft

DATE 8/8/96
KB 2270.00 ft TICKET NO: 9505 DST #4
GR 2261.00 ft FORMATION: Cherokee
TD 4294.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13249	13249	13754			PF Fr. 0500 to 0530 hr
SI 30 Range(Psi)	4500.0	4500.0	4000.0	0.0	0.0	IS Fr. 0530 to 0600 hr
SF 15 Clock(hrs)	12	12	12			SF Fr. 0600 to 0615 hr
FS 30 Depth(ft)	4291.0	4291.0	4282.0	0.0	0.0	FS Fr. 0615 to 0645 hr

	Field	1	2	3	4	
A. Init Hydro	2220.0	2195.0	0.0	0.0	0.0	T STARTED 0345 hr
B. First Flow	45.0	32.0	0.0	0.0	0.0	T ON BOTM 0455 hr
C. Final Flow	45.0	32.0	0.0	0.0	0.0	T OPEN 0500 hr
D. In Shut-in	940.0	937.0	0.0	0.0	0.0	T PULLED 0645 hr
E. Init Flow	56.0	41.0	0.0	0.0	0.0	T OUT 0815 hr
F. Final Flow	56.0	41.0	0.0	0.0	0.0	
G. Fl Shut-in	940.0	923.0	0.0	0.0	0.0	
Q. Final Hydro	2140.0	2120.0	0.0	0.0	0.0	
Inside/Outside	O	O	I			

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP
10.00 ft of Drilling mud

TOOL DATA-----
Tool Wt. 1500.00 lbs
Wt Set On Packer 30000.00 lbs
Wt Pulled Loose 65000.00 lbs
Initial Str Wt 58000.00 lbs
Unseated Str Wt 58000.00 lbs
Bot Choke 0.75 in
Hole Size 7.88 in
D Col. ID 2.25 in
D. Pipe ID 3.80 in
D.C. Length 0.00 ft
D.P. Length 4267.00 ft

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow -
Weak - steady surface blow

Final Flow -
No blow

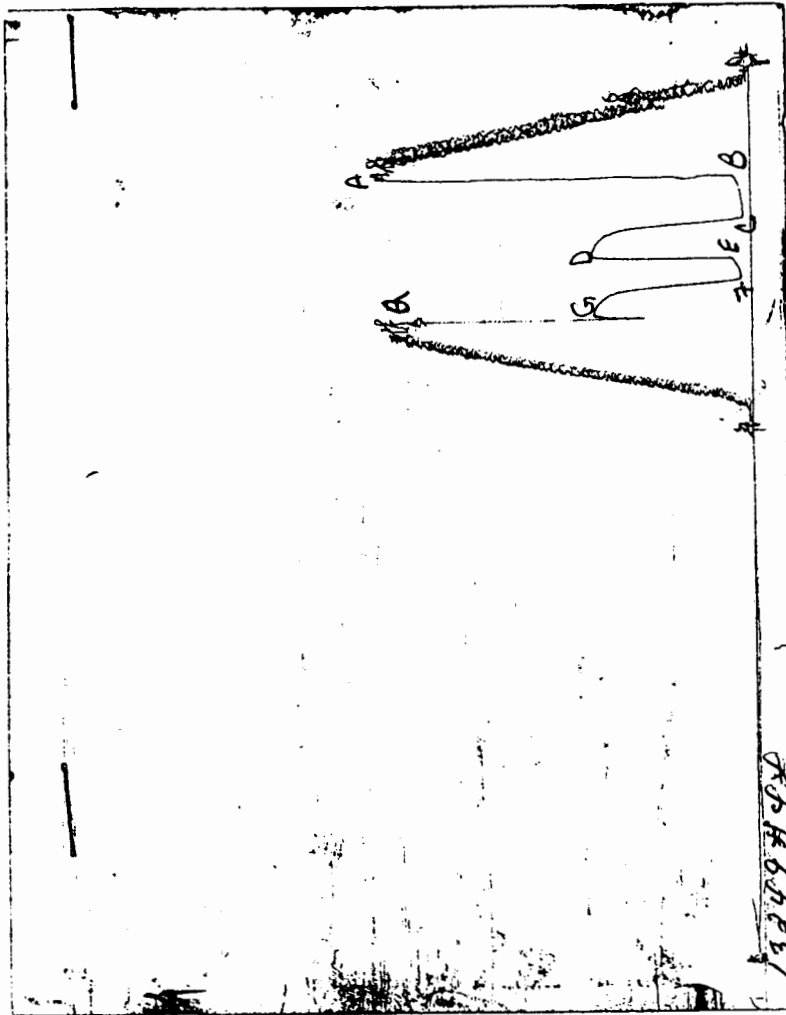
MUD DATA-----
Mud Type Chemical
Weight 9.40 lb/c
Vis. 52.00 S/L
W.L. 9.60 in3
F.C. 0.00 in
Mud Drop

Amt. of fill 0.00 ft
Btm. H. Temp. 120.00 F
Hole Condition Good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out
Tool Chased
Tester Dan Bangle
Co. Rep. Jim Thompson
Contr. Duke
Rig # 4
Unit #
Pump T.

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



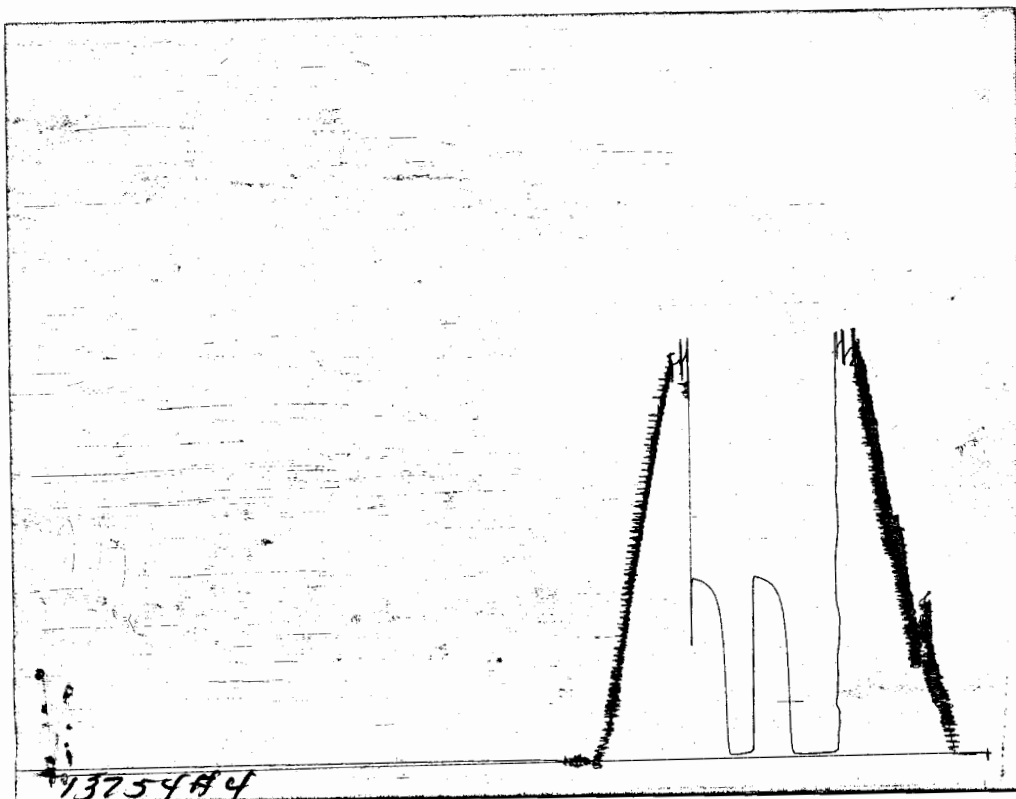
This is a photocopy of the actual AK-1 recorder chart

Well name Seitman

DST # 4

Recorder # 13249

A	1.948	2195	1
B	.028	32	2
C	.028	32	3
D	.827	937	4
E	.036	41	5
F	.036	41	6
G	.814	923	7
H	1.882	2120	8
			9
			1
			1
			1



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9505

Well Name & No.	<u>Seltman #1</u>	Test No.	<u>4</u>	Date	<u>8-8-96</u>
Company	<u>Heller Drilling Co. Inc</u>	Zone Tested	<u>Cherokee</u>		
Address		Elevation	<u>2270</u>	KB	<u>2261</u> GL
Co. Rep / Geo.	<u>Jim Thompson</u>	Cont.	<u>Duke #4</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>2</u>	Twp.	<u>20</u>	Rge.	<u>20</u> Co. <u>Pawnee</u> State <u>Ks</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4280 - 4294</u>	Initial Str Wt./Lbs.	<u>58,000</u>	Unseated Str Wt./Lbs.	<u>58,000</u>
Anchor Length	<u>14</u>	Wt. Set Lbs.	<u>30,200</u>	Wt. Pulled Loose/Lbs.	<u>65,000</u>
Top Packer Depth	<u>4275</u>	Tool Weight	<u>1500</u>		
Bottom Packer Depth	<u>4280</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>4294</u>	Wt. Pipe Run		Drill Collar Run	
Mud Wt. <u>9.4</u> LCM		Drill Pipe Size	<u>4.5 XH</u>	Ft. Run	<u>4267</u>
Vis. <u>5.2</u> WL <u>9.6</u>					
Blow Description	<u>F.F. weak - steady surface blow</u>				

F.F. No blow

Recovery — Total Feet	<u>10</u>	GIP		Ft. in DC		Ft. in DP	<u>10</u>
Rec.	<u>10</u>	Feet Of	<u>D.M.</u>	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>120</u>	°F Gravity		°API D@		°F Corrected Gravity	
RW		@		°F Chlorides		ppm Recovery	
(A) Initial Hydrostatic Mud	<u>2220</u>	PSI	Recorder No.	<u>13754</u>	T-Started	<u>03:45</u>	
(B) First Initial Flow Pressure	<u>45</u>	PSI	(depth)	<u>4282</u>	T-Open	<u>05:00</u>	
(C) First Final Flow Pressure	<u>45</u>	PSI	Recorder No.	<u>13249</u>	T-Pulled	<u>06:45</u>	
(D) Initial Shut-in Pressure	<u>940</u>	PSI	(depth)	<u>4291</u>	T-Out	<u>08:15</u>	
(E) Second Initial Flow Pressure	<u>56</u>	PSI	Recorder No.				
(F) Second Final Flow Pressure	<u>56</u>	PSI	(depth)				
(G) Final Shut-in Pressure	<u>940</u>	PSI	Initial Opening	<u>30</u>	Test	<u>600</u>	
(H) Final Hydrostatic Mud	<u>2140</u>	PSI	Initial Shut-in	<u>30</u>	Jars		

Final Flow	<u>15</u>	Safety Joint	
Final Shut-in	<u>30</u>	Straddle	

69 STDs

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Approved By

Our Representative

Sampler	
Extra Packer	
Elect. Rec.	
Other	
TOTAL PRICE \$	<u>600</u>