

Computer Inventoried

ORIGINAL

WELL NAME: Evel "A" #4
COMPANY: Thomas C. Lutz
LOCATION: 13-16S-26W
Ness County Kansas
DATE: 06/15/96

15-135-23938

K C C

APR 9 1998

TRILOBITE TESTING L.L.C.

OPERATOR : Thomas C. Lutz

DATE 6-15-96

WELL NAME: Evel "A" #4

KB 2555.00 ft

TICKET NO: 9258

DST #1

LOCATION : 13-16S-26W, Ness Cty KS

GR 2550.00 ft

FORMATION: Mississippian

INTERVAL : 4446.00 To 4504.00 ft

TD 4520.00 ft

TEST TYPE: CONV STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	AK-1	AK-1	Alpine	AK-1		PF Fr. 1615 to 1700 hr
SI 30 Range(Psi)	4000.0	4000.0	4995.0	4025.0	0.0	IS Fr. 1700 to 1730 hr
SF 30 Clock(hrs)	12	12	Elect	12		SF Fr. 1730 to 1800 hr
FS 30 Depth(ft)	4489.0	4489.0	4450.0	4515.0	0.0	FS Fr. 1800 to 1830 hr

	Field	1	2	3	4	
A. Init Hydro	2190.0	2220.0	2225.0	2273.0	0.0	T STARTED 1445 hr
B. First Flow	29.0	38.0	45.0	0.0	0.0	T ON BOTM 1610 hr
Bl. Final Flow	39.0	44.0	68.0	0.0	0.0	T OPEN 1615 hr
C. In Shut-in	150.0	164.0	199.0	0.0	0.0	T PULLED 1830 hr
D. Init Flow	50.0	56.0	70.0	0.0	0.0	T OUT 2030 hr
E. Final Flow	50.0	59.0	79.0	0.0	0.0	
F. Fl Shut-in	140.0	160.0	192.0	0.0	0.0	
G. Final Hydro	2141.0	2202.0	2221.0	2225.0	0.0	TOOL DATA-----
Inside/Outside	O	O	I	T		Tool Wt. 1800.00 lbs

RECOVERY

Tot Fluid 90.00 ft of 30.00 ft in DC and 60.00 ft in DP
 90.00 ft of Oil cut mud - 5% gas, 30% oil, 65% mud

Wt Set On Packer 30000.00 lbs
 Wt Pulled Loose 62000.00 lbs
 Initial Str Wt 42000.00 lbs
 Unseated Str Wt 42000.00 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 30.00 ft
 D.P. Length 4414.00 ft

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

BLOW DESCRIPTION

Initial Flow -
 Weak surface blow built to 4"

Final Flow -
 Weak return in 3 min, built to 1.5"

MUD DATA-----
 Mud Type Chemical
 Weight 9.40 lb/cf
 Vis. 42.00 S/L
 W.L. 12.00 in3
 F.C. 0.00 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 123.00 F
 Hole Condition GOOD
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 3
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester ROD STEINBRINK
 Co. Rep. RON NELSON
 Contr. DISCOVERY
 Rig # 1
 Unit #
 Pump T.

SAMPLES:
 SENT TO:

Test Successful: Y

CALCULATED RECOVERY ANALYSIS

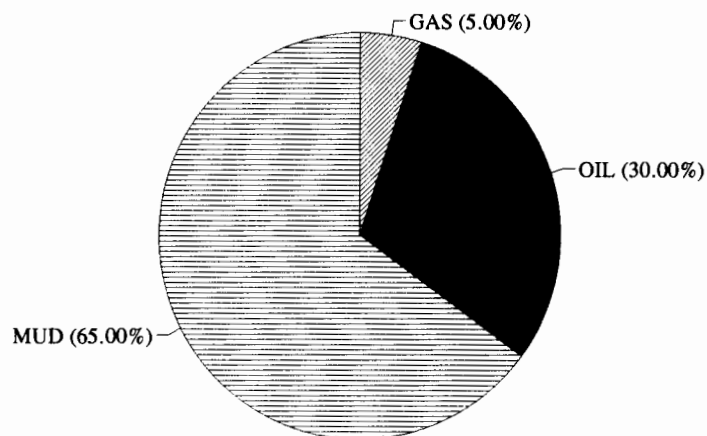
DST 1

TICKET # 9258

SAMPLE #		TOTAL		GAS		OIL		WATER		MUD	
		FEET	%	FEET	%	FEET	%	FEET	%	FEET	%
DRILL PIPE	1	60	5	3	30	18		0	65	39	
	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
	5			0		0		0		0	
	6			0		0		0		0	
WEIGHT PIP	1			0		0		0		0	
	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
DRL COLLAR	1	30	5	1.5	30	9		0	65	19.5	
	2			0		0		0		0	
	3			0		0		0		0	
	4			0		0		0		0	
	5			0		0		0		0	
TOTAL		90		4.5		27		0		58.5	

HRS OPEN BBL/DAY

BBL OIL= 0.29997 * 1.25 5.759424
 BBL WATER= 0 * 0
 BBL MUD= 0.649935
 BBL GAS = 0.049995



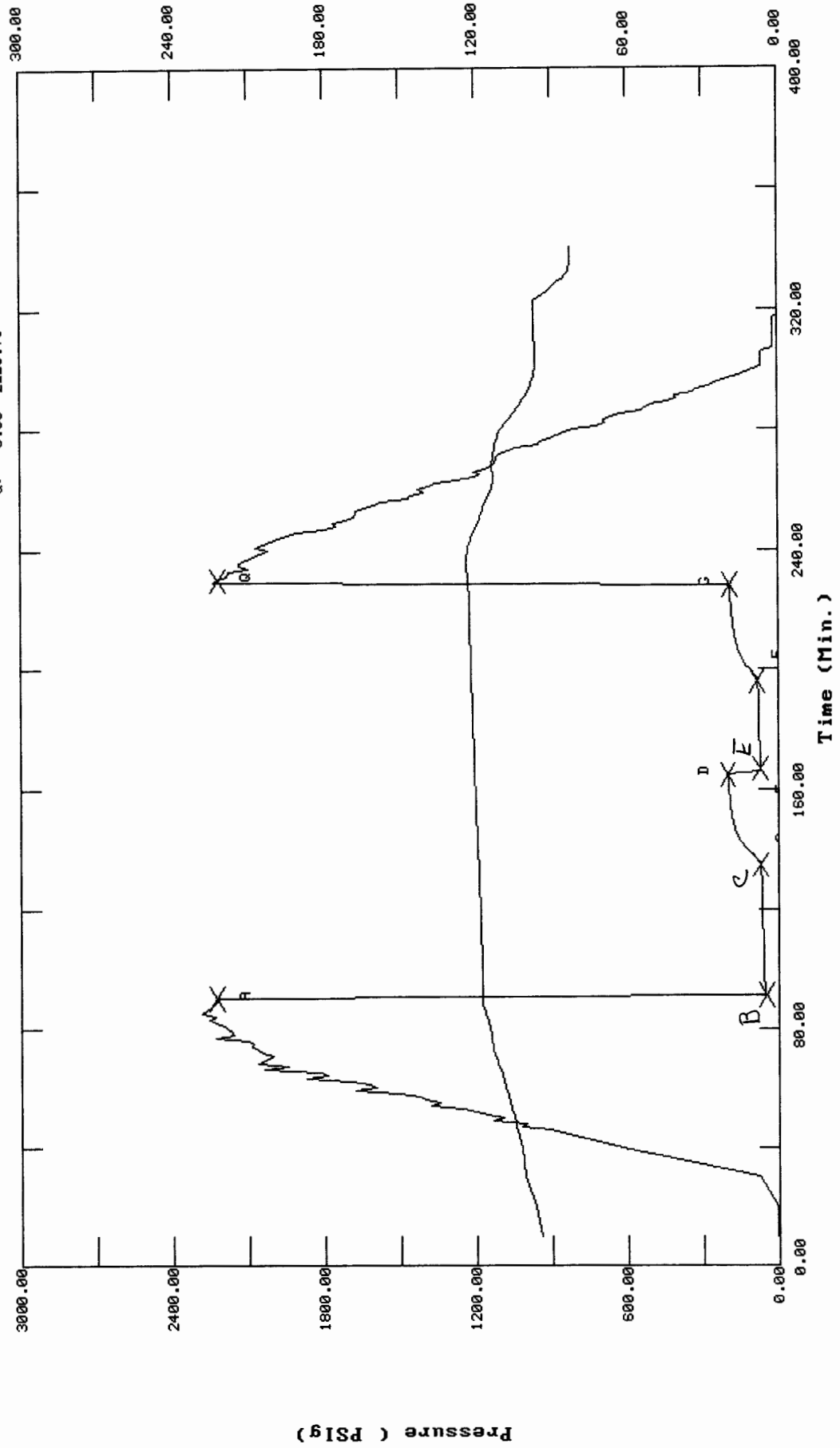
TEST HISTORY

9258 DST #1 EVEL "A" THOMAS LUTZ

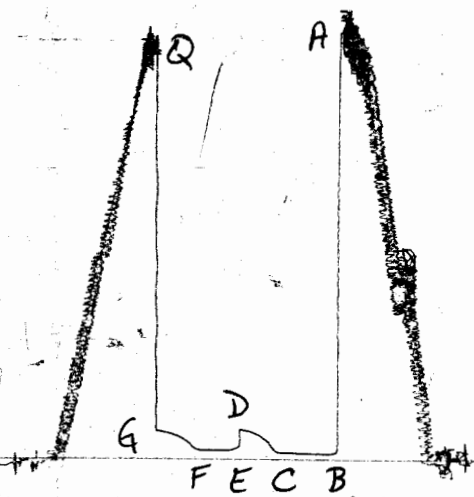
Flag Points

t (Min.) P (PSig)

A: 0.00 2225.09
 B: 0.00 45.44
 C: 44.00 67.58
 D: 30.00 198.90
 E: 0.00 69.50
 F: 29.00 78.88
 G: 32.00 191.80
 Q: 0.00 2220.73

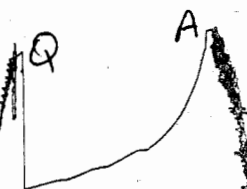


DST # 13276 X



DST 17
13339

Straddle Chart



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9258 DST #1 EVEL "A" THOMAS LUTZ

DATE: 06/15/96

TIME: 14:45:53

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	90.00	2225.1	0.0	117.71		
***** Start Flow 1	0.00	45.4	0.0	117.74		
	1.00	49.0	3.6	117.77		
	2.00	51.5	6.1	117.77		
	3.00	54.3	8.9	117.75		
	4.00	53.9	8.5	117.72		
	5.00	55.0	9.6	117.70		
	6.00	55.0	9.5	117.65		
	7.00	54.9	9.5	117.64		
	8.00	54.8	9.4	117.65		
	9.00	55.0	9.6	117.65		
	10.00	55.5	10.0	117.66		
	11.00	55.8	10.3	117.70		
	12.00	56.4	11.0	117.71		
	13.00	56.8	11.4	117.73		
	14.00	57.2	11.8	117.74		
	15.00	57.6	12.2	117.76		
	16.00	58.0	12.6	117.77		
	17.00	58.4	12.9	117.80		
	18.00	58.9	13.4	117.82		
	19.00	59.3	13.8	117.87		
	20.00	59.7	14.2	117.89		
	21.00	60.0	14.6	117.92		
	22.00	60.4	15.0	117.96		
	23.00	60.9	15.5	118.00		
	24.00	61.4	15.9	118.02		
	25.00	61.6	16.1	118.07		
	26.00	61.7	16.3	118.10		
	27.00	62.1	16.6	118.15		
	28.00	62.5	17.1	118.19		
	29.00	62.8	17.4	118.23		
	30.00	63.4	18.0	118.28		
	31.00	64.0	18.5	118.32		
	32.00	64.1	18.6	118.36		
	33.00	64.4	18.9	118.41		
	34.00	65.0	19.6	118.45		
	35.00	65.0	19.6	118.50		
	36.00	65.2	19.7	118.55		
	37.00	65.8	20.3	118.59		
	38.00	66.2	20.8	118.64		
	39.00	66.3	20.9	118.68		
	40.00	66.5	21.1	118.74		
	41.00	66.7	21.3	118.78		
	42.00	67.1	21.7	118.83		
	43.00	67.7	22.3	118.88		
***** End Flow 1	44.00	67.6	22.1	118.93		
***** Start Shutin 1	0.00	67.6	0.0	118.93	0.0000	0.005
	1.00	70.6	3.1	118.98	45.0000	0.005
	2.00	81.6	14.0	119.02	23.0000	0.007
	3.00	92.9	25.3	119.07	15.6667	0.009
	4.00	104.6	37.0	119.13	12.0000	0.011

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9258 DST #1 EVEL "A" THOMAS LUTZ

DATE: 06/15/96

TIME: 14:45:53

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	5.00	116.3	48.7	119.18	9.8000	0.014
	6.00	127.5	59.9	119.22	8.3333	0.016
	7.00	138.1	70.5	119.28	7.2857	0.019
	8.00	147.0	79.4	119.33	6.5000	0.022
	9.00	154.8	87.2	119.38	5.8889	0.024
	10.00	161.1	93.5	119.43	5.4000	0.026
	11.00	165.9	98.3	119.48	5.0000	0.028
	12.00	170.0	102.4	119.53	4.6667	0.029
	13.00	173.4	105.9	119.57	4.3846	0.030
	14.00	176.5	109.0	119.63	4.1429	0.031
	15.00	179.1	111.5	119.68	3.9333	0.032
	16.00	181.4	113.8	119.73	3.7500	0.033
	17.00	183.5	115.9	119.78	3.5882	0.034
	18.00	185.4	117.8	119.82	3.4444	0.034
	19.00	187.1	119.6	119.87	3.3158	0.035
	20.00	188.7	121.1	119.92	3.2000	0.036
	21.00	190.1	122.5	119.96	3.0952	0.036
	22.00	191.3	123.8	120.01	3.0000	0.037
	23.00	192.6	125.1	120.06	2.9130	0.037
	24.00	193.8	126.2	120.10	2.8333	0.038
	25.00	194.8	127.2	120.16	2.7600	0.038
	26.00	195.7	128.1	120.20	2.6923	0.038
	27.00	196.5	129.0	120.24	2.6296	0.039
	28.00	197.2	129.7	120.29	2.5714	0.039
	29.00	198.2	130.6	120.34	2.5172	0.039
***** End Shut-in 1	30.00	198.9	131.3	120.40	2.4667	0.040
***** Start Flow 2	0.00	69.5	0.0	120.41		
	1.00	69.7	0.2	120.43		
	2.00	70.1	0.6	120.47		
	3.00	70.9	1.4	120.52		
	4.00	70.9	1.4	120.55		
	5.00	71.4	1.9	120.60		
	6.00	71.8	2.3	120.64		
	7.00	72.4	2.9	120.68		
	8.00	72.4	2.9	120.73		
	9.00	72.7	3.2	120.76		
	10.00	73.5	4.0	120.81		
	11.00	73.3	3.8	120.86		
	12.00	74.1	4.6	120.89		
	13.00	74.4	4.9	120.93		
	14.00	74.5	5.0	120.98		
	15.00	75.3	5.7	121.02		
	16.00	75.4	5.9	121.06		
	17.00	75.8	6.3	121.09		
	18.00	75.9	6.4	121.14		
	19.00	76.3	6.8	121.17		
	20.00	76.6	7.1	121.21		
	21.00	77.2	7.7	121.25		
	22.00	76.7	7.2	121.29		
	23.00	77.8	8.3	121.33		
	24.00	77.9	8.4	121.37		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 06/15/96

TIME: 14:45:53

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	77.8	8.3	121.41		
	26.00	78.5	9.0	121.45		
	27.00	78.7	9.2	121.48		
	28.00	78.4	8.9	121.52		
***** End Flow 2	29.00	78.9	9.4	121.55		
***** Start Shutin 2	0.00	78.9	0.0	121.55	0.0000	0.006
	1.00	82.2	3.3	121.59	74.0000	0.007
	2.00	92.6	13.8	121.64	37.5000	0.009
	3.00	102.7	23.8	121.66	25.3333	0.011
	4.00	112.5	33.6	121.70	19.2500	0.013
	5.00	121.8	42.9	121.74	15.6000	0.015
	6.00	130.3	51.4	121.78	13.1667	0.017
	7.00	137.8	59.0	121.82	11.4286	0.019
	8.00	144.2	65.3	121.86	10.1250	0.021
	9.00	149.6	70.7	121.90	9.1111	0.022
	10.00	154.3	75.4	121.93	8.3000	0.024
	11.00	158.3	79.4	121.98	7.6364	0.025
	12.00	161.7	82.8	122.02	7.0833	0.026
	13.00	164.6	85.7	122.05	6.6154	0.027
	14.00	167.3	88.4	122.08	6.2143	0.028
	15.00	169.7	90.8	122.12	5.8667	0.029
	16.00	171.9	93.0	122.15	5.5625	0.030
	17.00	173.9	95.0	122.19	5.2941	0.030
	18.00	175.6	96.8	122.22	5.0556	0.031
	19.00	177.3	98.4	122.25	4.8421	0.031
	20.00	178.9	100.1	122.28	4.6500	0.032
	21.00	180.4	101.5	122.32	4.4762	0.033
	22.00	181.8	102.9	122.36	4.3182	0.033
	23.00	183.1	104.2	122.39	4.1739	0.034
	24.00	184.4	105.6	122.41	4.0417	0.034
	25.00	185.3	106.4	122.44	3.9200	0.034
	26.00	186.4	107.5	122.48	3.8077	0.035
	27.00	187.5	108.6	122.51	3.7037	0.035
	28.00	188.4	109.5	122.55	3.6071	0.036
	29.00	189.3	110.4	122.58	3.5172	0.036
	30.00	190.1	111.2	122.60	3.4333	0.036
	31.00	190.9	112.0	122.65	3.3548	0.036
***** End Shut-in 2	32.00	191.8	112.9	122.66	3.2812	0.037
***** Final Hydro.	230.00	2220.7	0.0	122.91		

*** TOOL DIAGRAM *** CONV STRADDLE

WELL NAME: Evel "A" #4

LOCATION : 13-16S-26W, Ness Cty KS

TICKET No. 9258 D.S.T. No. 1 DATE 6-15-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL 28

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 64

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 95

D.C. ABOVE TOOLS.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands71 Single Total 4414

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4539

TOTAL DEPTH 4520

TOTAL DRILL PIPE ABOVE K.B. 19

REMARKS:

P.O. SUB 1' ABOVE 120' DP	4306
C.O. SUB 1'	4426
S.I. TOOL 5'	4432
HMV 5'	4437
JARS N/A	
SAFETY JOINT N/A	
PACKER 5'	4441
PACKER 5'	4446
DEPTH	
STUBB 1'	4447
ANCHOR	
ALP RECORDER	4450
9'	4456
1'CO SUB	4447
31' DP	4488
1'CO SUB	4489
AK-1 REC @	4489
10'	4499
1' BLK OFF SUB	4500
T.C. 3'	4503
DEPTH 4504	
PACKER 2'	4505
10'	4515
AK-1 RECORDER	4515
BULLNOSE 5'	
T.D.	4520

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 9258

Well Name & No.	<u>Evel 'A' #4</u>	Test No.	<u>1</u>	Date	<u>6-15-96</u>
Company	<u>Thomas C. Lutz</u>	Zone Tested	<u>Mississippian</u>		
Address	<u>P.O. Drawer 3067 Lawrence, KS 66046</u>	Elevation	<u>2555</u>	KB	<u>2550</u> GL
Co. Rep / Geo.	<u>Ron Nelson</u>	Cont.	<u>Discovery #1</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>13</u>	Twp.	<u>16^S</u>	Rge.	<u>26^W</u> Co. <u>Ness</u> State <u>KS.</u>
No. of Copies	<u>Nml.</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4446 - 4504</u>	Initial Str Wt./Lbs.	<u>42,000</u>	Unseated Str Wt./Lbs.	<u>42,000</u>
Anchor Length	<u>58'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>62,000</u>
Top Packer Depth	<u>4441 - 4446</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Bottom Packer Depth	<u>4504</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u> </u>		
Total Depth	<u>(RTD) 4520</u>	Drill Collar — 2.25 Ft. Run	<u>4" H-90</u>	<u>30'</u>	
Mud Wt.	<u>9.4</u> LCM <u>Trc</u> Vis. <u>42</u> WL <u>120</u>	Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>4445' 14</u>
Blow Description	<u>IF: Weak surface blow built to 4"</u>				

FF: Weak return in 3 mins built to 1 1/2"

Recovery — Total Feet	<u>90</u>	Ft. in DC	<u>~30'</u>	Ft. in WP	<u> </u>	Ft. in DP	<u>60'</u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u>90'</u>	Feet Of	<u>DCM</u>	%gas	<u>30</u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
BHT	<u>123°</u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u>
RW	<u> </u>	@	<u> </u>	°F Chlorides	<u> </u>	ppm Recovery	<u>1,500</u>
(A) Initial Hydrostatic Mud	<u>2225</u>	PSI		Recorder No.	<u>23413309</u>	T-Started	<u>1445</u>
(B) First Initial Flow Pressure	<u>45</u>	PSI		@ (depth)	<u>4450</u>	T-Open	<u>1615</u>
(C) First Final Flow Pressure	<u>67</u>	PSI		Recorder No.	<u>13339</u>	T-Pulled	<u>1830</u>
(D) Initial Shut-in Pressure	<u>198</u>	PSI		@ (depth)	<u>4489</u>	T-Out	<u>2030</u>
(E) Second Initial Flow Pressure	<u>69</u>	PSI		Recorder No.	<u>13276</u>		
(F) Second Final Flow Pressure	<u>78</u>	PSI		@ (depth)	<u>4515</u>		
(G) Final Shut-in Pressure	<u>191</u>	PSI		Initial Opening	<u>45</u>	Test	<u> </u>
(H) Final Hydrostatic Mud	<u>2220</u>	PSI		Initial Shut-in	<u>30</u>	Jars	<u> </u>

Final Flow	<u>30</u>	Safety Joint	<u> </u>
Final Shut-in	<u>30</u>	Straddle	<u>X</u>
		Circ. Sub	<u>X</u> <u>N/C</u>
		Sampler	<u> </u>
		Extra Packer	<u>X</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 Rod Steinbrink

Elect. Rec.

Other

TOTAL PRICE \$