

15-025-21144

ORIGINAL

TRILOBITE TESTING L.L.C.

Computer Inventoried

OPERATOR : Ensign Operating Company
WELL NAME: Shaffer Trust #1-18
LOCATION : 18-33S-24W, Clark Cty KS
INTERVAL : 5284.00 To 5397.00 ft

DATE 06/06/96

KB 2054.00 ft TICKET NO: 9012 DST #1
GR 2041.00 ft FORMATION: Chester
5397.00 ft TEST TYPE: CONVENTIONAL

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RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10 Rec.	AK-1	AK-1	Alpine			PF Fr. 1546 to 1556 hr
SI 30 Range(Psi)	3500.0	3500.0	4995.0	0.0	0.0	IS Fr. 1556 to 1626 hr
SF 60 Clock(hrs)	12	12	Elect			SF Fr. 1626 to 1726 hr
FS 120 Depth(ft)	5394.0	5394.0	5286.0	0.0	0.0	FS Fr. 1726 to 1926 hr

	Field	1	2	3	4	
A. Init Hydro	2747.0	2619.0	2589.0	0.0	0.0	T STARTED 1330 hr
B. First Flow	97.0	59.0	32.0	0.0	0.0	T ON BOTM 1544 hr
B1. Final Flow	97.0	59.0	38.0	0.0	0.0	T OPEN 1546 hr
C. In Shut-in	97.0	67.0	40.0	0.0	0.0	T PULLED 1926 hr
D. Init Flow	97.0	63.0	40.0	0.0	0.0	T OUT 2200 hr
E. Final Flow	97.0	70.0	47.0	0.0	0.0	
F. Fl Shut-in	694.0	660.0	649.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2696.0	2590.0	2487.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 75000.00 lbs
						Initial Str Wt 70000.00 lbs
						Unseated Str Wt 50000.00 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 122.00 ft
						D.P. Length 5132.00 ft

RECOVERY

Tot Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
1515.00 ft of Gas in pipe
70.00 ft of Drilling mud

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

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BLOW DESCRIPTION

Initial Flow -
Strong blow, bottom of bucket in 1 min

Initial Shutin -
Bled off 2", bottom of bucket blow
back

Final Flow -
Fair blow, bottom of bucket in 15 min

Final Shutin -
No blow back

MUD DATA-----

Mud Type	CHEMICAL
Weight	9.20 lb/gal
Vis.	50.00 S/L
W.L.	10.40 in ³
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	122.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike Colantonio
Co. Rep.	John Fruit
Contr.	Duke
Rig #	7
Unit #	
Pump T.	

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Test Successful: Y

SAMPLES: NO
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WICHITA, KS

TEST HISTORY

9812 Ensign Operating Company Shaffer Trust 1-18 DST #1

Flag Points

	t (Min.)	P (PSig)
A:	0.00	2589.33
B:	0.00	31.63
C:	13.00	37.67
D:	38.00	48.11
E:	0.00	39.61
F:	52.00	46.66
G:	118.00	649.09
Q:	0.00	2486.68

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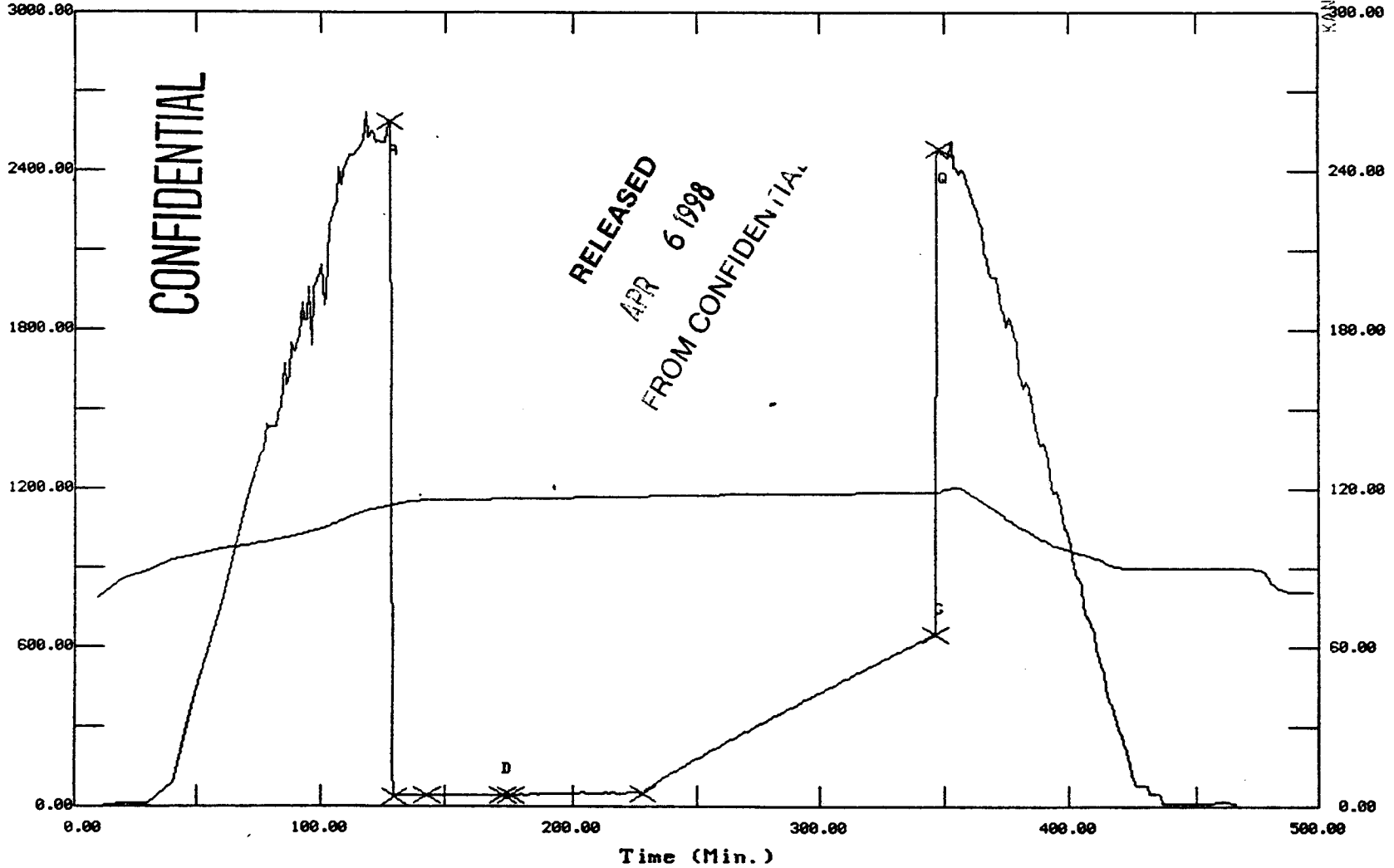
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Pressure (PSig)



Pressure (PSIg)

ORIGINAL

9012 Ensign Operating Company Shaffer Trust 1-18 DST #1

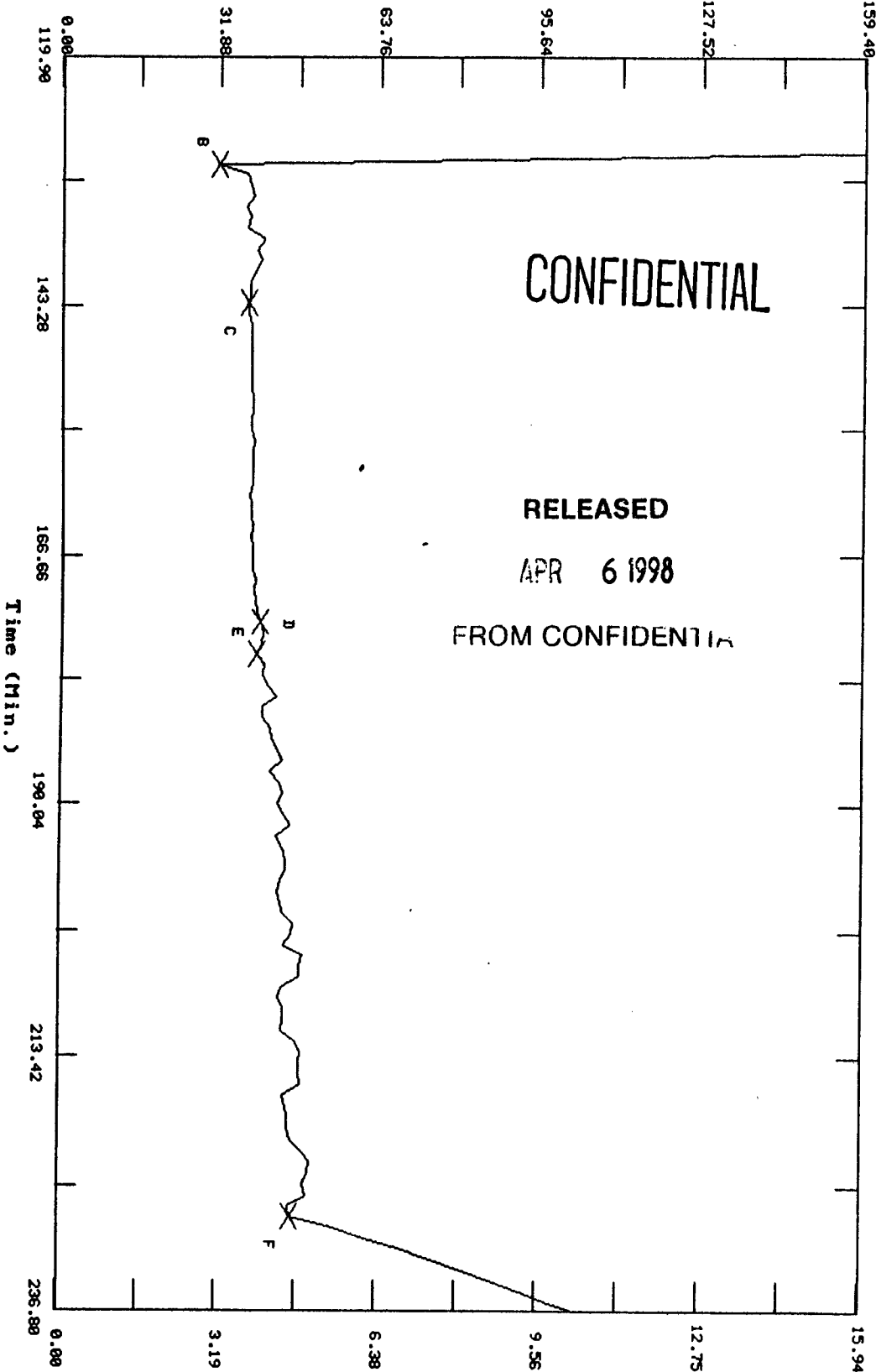
TEST HISTORY

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Flag Points	Time (Min.)	Pressure (PSIg)
A	0.00	2589.33
B	0.00	31.63
C	13.00	37.67
D	30.00	40.11
E	0.00	39.61
F	52.00	46.66
G	118.00	649.09
H	0.00	2486.60

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Temperature (DEG F)

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

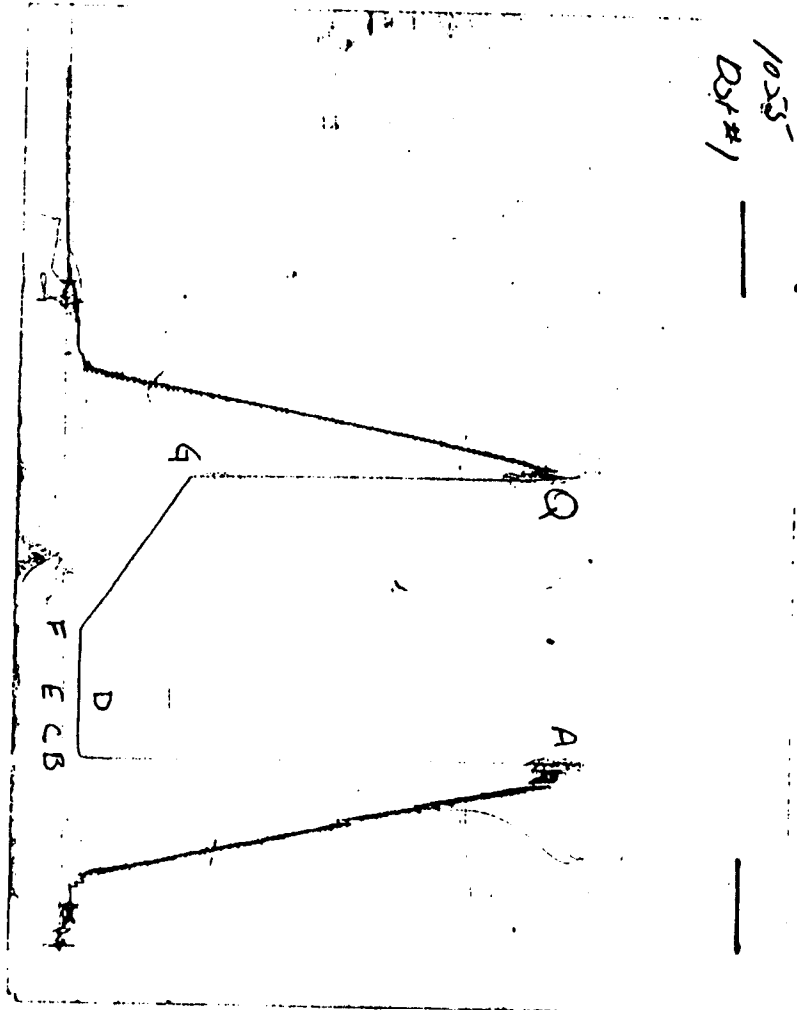


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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9012 Ensign Operating Company Shaffer Trust 1-18 DST #1
 DATE: 06/06/96 TIME: 13:38:51

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	128.00	2589.3	0.0	113.59		
***** Start Flow 1	0.00	31.6	0.0	113.86		
	1.00	37.1	5.5	114.10		
	2.00	38.0	6.4	114.35		
	3.00	38.6	7.0	114.59		
	4.00	37.0	5.4	114.80		
	5.00	37.8	6.1	114.98		
	6.00	37.3	5.7	115.01		
	7.00	40.9	9.2	115.13		
	8.00	39.1	7.5	115.24		
	9.00	40.1	8.5	115.32		
	10.00	38.8	7.1	115.39		
	11.00	37.9	6.3	115.44		
	12.00	37.8	6.1	115.49		
***** End Flow 1	13.00	37.7	6.0	115.53		
***** Start Shutin 1	0.00	37.7	0.0	115.53	0.0000	0.001
	1.00	37.7	0.0	115.56	14.0000	0.001
	2.00	38.2	0.5	115.58	7.5000	0.001
	3.00	38.2	0.5	115.61	5.3333	0.001
	4.00	38.1	0.4	115.65	4.2500	0.001
	5.00	38.3	0.6	115.66	3.6000	0.001
	6.00	38.3	0.6	115.67	3.1667	0.001
	7.00	38.3	0.6	115.69	2.8571	0.001
	8.00	38.2	0.5	115.72	2.6250	0.001
	9.00	38.5	0.8	115.74	2.4444	0.001
	10.00	38.5	0.8	115.76	2.3000	0.001
	11.00	38.3	0.6	115.77	2.1818	0.001
	12.00	38.2	0.5	115.79	2.0833	0.001
	13.00	38.7	1.0	115.82	2.0000	0.001
	14.00	38.5	0.8	115.83	1.9286	0.001
	15.00	38.3	0.7	115.84	1.8667	0.001
	16.00	38.6	0.9	115.85	1.8125	0.001
	17.00	38.6	0.9	115.88	1.7647	0.001
	18.00	38.0	0.3	115.90	1.7222	0.001
	19.00	38.1	0.4	115.90	1.6842	0.001
	20.00	38.1	0.4	115.92	1.6500	0.001
	21.00	38.5	0.8	115.94	1.6190	0.001
	22.00	38.3	0.6	115.96	1.5909	0.001
	23.00	38.5	0.8	115.97	1.5652	0.001
	24.00	38.4	0.8	115.99	1.5417	0.001
	25.00	38.4	0.8	116.01	1.5200	0.001
	26.00	39.2	1.5	116.03	1.5000	0.002
	27.00	38.7	1.0	116.04	1.4815	0.001
	28.00	39.0	1.3	116.05	1.4643	0.002
	29.00	39.6	1.9	116.07	1.4483	0.002
***** End Shut-in 1	30.00	40.1	2.4	116.09	1.4333	0.002
***** Start Flow 2	0.00	39.6	0.0	116.14		
	1.00	41.0	1.4	116.17		
	2.00	40.8	1.2	116.18		
	3.00	41.5	1.9	116.20		
	4.00	43.7	4.1	116.22		

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9012 Ensign Operating Company Shaffer Trust 1-18 DST #1
 DATE: 06/06/96 TIME: 13:38:51

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
5.00	40.7	1.1	116.25		
6.00	40.6	1.0	116.26		
7.00	42.3	2.7	116.28		
8.00	42.7	3.1	116.30		
9.00	43.6	4.0	116.33		
10.00	45.0	5.4	116.33		
11.00	42.4	2.8	116.34		
12.00	44.4	4.8	116.37		
13.00	44.9	5.3	116.40		
14.00	43.8	4.2	116.41		
15.00	45.3	5.7	116.42		
16.00	46.6	7.0	116.43		
17.00	43.5	3.9	116.44		
18.00	44.8	5.2	116.47		
19.00	45.6	6.0	116.49		
20.00	45.5	5.9	116.51		
21.00	44.6	5.0	116.53		
22.00	43.8	4.2	116.56		
23.00	44.6	5.0	116.58		
24.00	44.8	5.2	116.60		
25.00	47.0	7.4	116.62		
26.00	46.9	7.3	116.64		
27.00	45.2	5.6	116.66		
28.00	49.2	9.6	116.68		
29.00	48.3	8.7	116.69		
30.00	48.3	8.7	116.71		
31.00	44.7	5.1	116.73		
32.00	44.1	4.5	116.75		
33.00	45.1	5.5	116.78		
34.00	45.1	5.5	116.80		
35.00	44.8	5.2	116.81		
36.00	47.4	7.8	116.83		
37.00	48.8	9.2	116.85		
38.00	48.4	8.8	116.87		
39.00	48.2	8.6	116.90		
40.00	48.8	9.1	116.92		
41.00	45.1	5.5	116.93		
42.00	45.9	6.3	116.95		
43.00	46.2	6.5	116.99		
44.00	46.1	6.5	117.00		
45.00	46.7	7.0	117.00		
46.00	49.0	9.4	117.02		
47.00	50.6	11.0	117.05		
48.00	50.3	10.7	117.08		
49.00	49.5	9.9	117.09		
50.00	50.0	10.4	117.11		
51.00	46.6	7.0	117.14		
52.00	46.7	7.0	117.16		
***** End Flow 2					
***** Start Shutin 2	0.00	46.7	0.0	117.16	0.0000 0.002
	1.00	55.3	8.6	117.18	66.0000 0.003
	2.00	61.8	15.2	117.20	33.5000 0.004

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
3.00	68.6	21.9	117.22	22.6667	0.005
4.00	74.9	28.2	117.25	17.2500	0.006
5.00	81.1	34.5	117.26	14.0000	0.007
6.00	86.9	40.2	117.29	11.8333	0.008
7.00	92.7	46.1	117.31	10.2857	0.009
8.00	98.6	52.0	117.34	9.1250	0.01
9.00	104.4	57.7	117.36	8.2222	0.011
10.00	109.9	63.3	117.38	7.5000	0.012
11.00	115.6	68.9	117.39	6.9091	0.013
12.00	121.2	74.5	117.42	6.4167	0.015
13.00	126.8	80.2	117.44	6.0000	0.016
14.00	132.2	85.5	117.47	5.6429	0.017
15.00	137.9	91.2	117.48	5.3333	0.019
16.00	143.3	96.6	117.50	5.0625	0.021
17.00	148.6	102.0	117.53	4.8235	0.022
18.00	154.0	107.3	117.54	4.6111	0.024
19.00	159.3	112.6	117.57	4.4211	0.025
20.00	164.5	117.8	117.59	4.2500	0.027
21.00	170.0	123.4	117.60	4.0952	0.029
22.00	175.2	128.6	117.63	3.9545	0.031
23.00	180.4	133.8	117.66	3.8261	0.033
24.00	185.6	139.0	117.67	3.7083	0.034
25.00	190.8	144.2	117.66	3.6000	0.036
26.00	196.0	149.4	117.68	3.5000	0.038
27.00	201.5	154.8	117.71	3.4074	0.041
28.00	206.5	159.9	117.71	3.3214	0.043
29.00	211.7	165.0	117.74	3.2414	0.045
30.00	216.8	170.1	117.75	3.1667	0.047
31.00	221.9	175.2	117.77	3.0968	0.049
32.00	227.1	180.4	117.83	3.0312	0.052
33.00	232.1	185.5	117.81	2.9697	0.054
34.00	237.3	190.6	117.82	2.9118	0.056
35.00	242.4	195.7	117.84	2.8571	0.059
36.00	247.4	200.8	117.85	2.8056	0.061
37.00	252.4	205.8	117.87	2.7568	0.064
38.00	257.6	210.9	117.89	2.7105	0.066
39.00	262.6	215.9	117.90	2.6667	0.069
40.00	267.6	221.0	117.91	2.6250	0.072
41.00	272.7	226.0	117.94	2.5854	0.074
42.00	277.7	231.1	117.94	2.5476	0.077
43.00	282.8	236.2	117.95	2.5116	0.080
44.00	287.9	241.2	117.98	2.4773	0.083
45.00	292.8	246.2	117.99	2.4444	0.086
46.00	297.9	251.3	118.02	2.4130	0.089
47.00	302.8	256.1	118.04	2.3830	0.092
48.00	307.9	261.3	118.04	2.3542	0.095
49.00	312.8	266.1	118.05	2.3265	0.098
50.00	317.8	271.2	118.05	2.3000	0.101
51.00	322.9	276.2	118.05	2.2745	0.104
52.00	327.8	281.2	118.05	2.2500	0.107
53.00	332.8	286.2	118.05	2.2264	0.111

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ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9012 Ensign Operating Company Shaffer Trust 1-18 DST #1

DATE: 06/06/96

TIME: 13:38:51

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
54.00	337.9	291.2	118.05	2.2037	0.114
55.00	342.8	296.1	118.06	2.1818	0.117
56.00	347.8	301.1	118.08	2.1607	0.121
57.00	352.7	306.1	118.09	2.1404	0.124
58.00	357.7	311.0	118.11	2.1207	0.128
59.00	362.6	316.0	118.13	2.1017	0.132
60.00	367.7	321.0	118.14	2.0833	0.135
61.00	372.5	325.9	118.15	2.0656	0.139
62.00	377.3	330.7	118.16	2.0484	0.142
63.00	382.5	335.8	118.17	2.0317	0.146
64.00	387.3	340.7	118.19	2.0156	0.150
65.00	392.3	345.6	118.21	2.0000	0.154
66.00	397.1	350.5	118.21	1.9848	0.158
67.00	402.2	355.5	118.22	1.9701	0.162
68.00	407.0	360.4	118.22	1.9559	0.166
69.00	411.9	365.3	118.24	1.9420	0.170
70.00	416.8	370.1	118.26	1.9286	0.174
71.00	421.7	375.1	118.27	1.9155	0.178
72.00	426.6	379.9	118.29	1.9028	0.182
73.00	431.5	384.8	118.29	1.8904	0.186
74.00	436.5	389.8	118.31	1.8784	0.191
75.00	441.4	394.7	118.32	1.8667	0.195
76.00	446.3	399.7	118.33	1.8553	0.199
77.00	451.2	404.5	118.33	1.8442	0.204
78.00	456.1	409.4	118.33	1.8333	0.208
79.00	461.0	414.4	118.33	1.8228	0.213
80.00	465.9	419.2	118.35	1.8125	0.217
81.00	470.7	424.1	118.36	1.8025	0.222
82.00	475.6	429.0	118.37	1.7927	0.226
83.00	480.5	433.8	118.39	1.7831	0.231
84.00	485.3	438.7	118.39	1.7738	0.236
85.00	490.2	443.6	118.41	1.7647	0.240
86.00	495.1	448.4	118.42	1.7558	0.245
87.00	500.1	453.5	118.43	1.7471	0.250
88.00	504.9	458.2	118.44	1.7386	0.255
89.00	509.9	463.2	118.45	1.7303	0.260
90.00	514.7	468.1	118.45	1.7222	0.265
91.00	519.5	472.8	118.48	1.7143	0.270
92.00	524.3	477.6	118.49	1.7065	0.275
93.00	529.2	482.6	118.51	1.6989	0.280
94.00	534.1	487.5	118.52	1.6915	0.285
95.00	538.8	492.2	118.52	1.6842	0.290
96.00	543.8	497.1	118.53	1.6771	0.296
97.00	548.6	502.0	118.54	1.6701	0.301
98.00	553.4	506.8	118.55	1.6633	0.306
99.00	558.2	511.5	118.55	1.6566	0.312
100.00	563.0	516.3	118.55	1.6500	0.317
101.00	567.8	521.2	118.56	1.6436	0.322
102.00	572.7	526.1	118.57	1.6373	0.328
103.00	577.6	530.9	118.57	1.6311	0.334
104.00	582.4	535.7	118.58	1.6250	0.339

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TEST: 9012 Ensign Operating Company Shaffer Trust 1-18 DST #1

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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	105.00	587.1	540.4	118.59	1.6190	0.345
	106.00	591.9	545.2	118.61	1.6132	0.350
	107.00	596.6	550.0	118.62	1.6075	0.356
	108.00	601.3	554.7	118.63	1.6019	0.362
	109.00	606.1	559.5	118.64	1.5963	0.367
	110.00	611.1	564.4	118.65	1.5909	0.373
	111.00	615.9	569.2	118.66	1.5856	0.379
	112.00	620.5	573.8	118.66	1.5804	0.385
	113.00	625.4	578.8	118.69	1.5752	0.391
	114.00	630.1	583.5	118.69	1.5702	0.397
	115.00	634.9	588.2	118.70	1.5652	0.403
	116.00	639.6	593.0	118.71	1.5603	0.409
	117.00	644.3	597.6	118.73	1.5556	0.415
***** End Shut-in 2	118.00	649.1	602.4	118.74	1.5508	0.421
***** Final Hydro.	346.00	649.1	0.0	118.74		

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*** TOOL DIAGRAM *** CONVENTIONAL

ORIGINAL

WELL NAME: Shaffer Trust #1-18
 LOCATION : 18-33S-24W, Clark Cty KS
 TICKET No. 9012 D.S.T. No. 1 DATE 06/06/96
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 30
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 23
 TOTAL TOOL 53
 DRILL COLLAR ANCHOR IN INTERVAL
 .C. ANCHOR STND.Stands1 Single 1 Total 90
 .P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 143
 .C. ABOVE TOOLS.Stands2 Single Total 122
 .P. ABOVE TOOLS.Stands83 Single 1 Total 5162
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5427
 TOTAL DEPTH 5397
 TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:

FLUID SAMPLER DATA
 SAMPLER RECOVERY -
 Gas 2.3 cu ft, Mud 3200 ml, Press 600 PSI,
 Total 4000 ml
 BIT MUD ANALYSIS -
 Chlorides 4000 ppm, Viscosity 50,
 Mud Wt 9.2, Filtrate 10.4

RELEASED
 APR 6 1998
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P.O. SUB 1ft	5254
C.O. SUB	
S.I. TOOL 5ft	5260
3ft SAMPLER	5263
HMV 5ft	5268
JARS 5ft	5273
SAFETY JOINT 2ft	5275
PACKER 5ft	5279
PACKER 5ft	5284
DEPTH 5284	
STUBB 1ft	5285
ANCHOR	
Alpine Rec.	5286
6ft Pick up sub	5291
10ft perf	5301
90ft collars	5391
T.C.	
DEPTH	
3ft perf	5394
AK-1 recorder	5394
BULLNOSE 3ft bull plug	
T.D.	5397

NO
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 KANSAS CORPORATION COMMISSION

JUL 12 1996

CONSERVATION DIVISION
 WICHITA, KS