15-055-21498

27-25s-34w

WELL NAME: O.J. Brown #1-27
COMPANY: Helmerich & Payne
LOCATION: 27-25S-34W Finney Cty Kansas

DATE: 6/25/96

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne — DATE 6/19/96
WELL NAME: O.J. Brown #1-27 — KB 2963.00 ft — TICKET NO: 8791 — DST #1
LOCATION : 27-25S-34W Finney Cty KS — GR 0.00 ft — FORMATION: Morron
INTERVAL : 4848.00 To 4950.00 ft — TD 4950.00 ft — TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	11058	11058	2342		
SI 60	Range(Psi)	4475.0	4475.0	4975.0	0.0	0.0
SF 60	Clock(hrs)	12	12	Alpin		
FS 120	Depth(ft)	4945.0	4945.0	4850.0	0.0	0.0

TIME DATA----------
PF Fr. 2134 to 2149 hr
IS Fr. 2149 to 2249 hr
SF Fr. 2249 to 2349 hr
FS Fr. 2349 to 0149 hr

	Field	1	2	3	4
A. Init Hydro	2367.0	2320.0	2320.0	0.0	0.0
B. First Flow	77.0	100.0	21.0	0.0	0.0
B1. Final Flow	66.0	87.0	28.0	0.0	0.0
C. In Shut-in	88.0	105.0	60.0	0.0	0.0
D. Init Flow	66.0	77.0	30.0	0.0	0.0
E. Final Flow	66.0	77.0	34.0	0.0	0.0
F. Fl Shut-in	77.0	77.0	47.0	0.0	0.0
G. Final Hydro	2345.0	2298.0	2288.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1913 hr
T ON BOTM 2129 hr
T OPEN 2134 hr
T PULLED 0149 hr
T OUT 0450 hr

RECOVERY
Tot Fluid 15.00 ft of 15.00 ft in DC and 0.00 ft in DP
15.00 ft of Drilling mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 860.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	0.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	86000.00 lbs
Initial Str Wt	73000.00 lbs
Unseated Str Wt	73000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.82 in
D.C. Length	553.00 ft
D.P. Length	4290.00 ft

BLOW DESCRIPTION
Initial Flow
Weak surface blow died in 11 minutes

Initial Shutin
No return

Final Flow
Bubble to open tool - no blow

Final Shutin
No return

MUD DATA----------

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	54.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	
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	
Tool Chased	
Tester	Shane McBride
Co. Rep.	Wes Hansen
Contr.	Murfin
Rig #	22
Unit #	
Pump T.	

SAMPLES:
SENT TO:

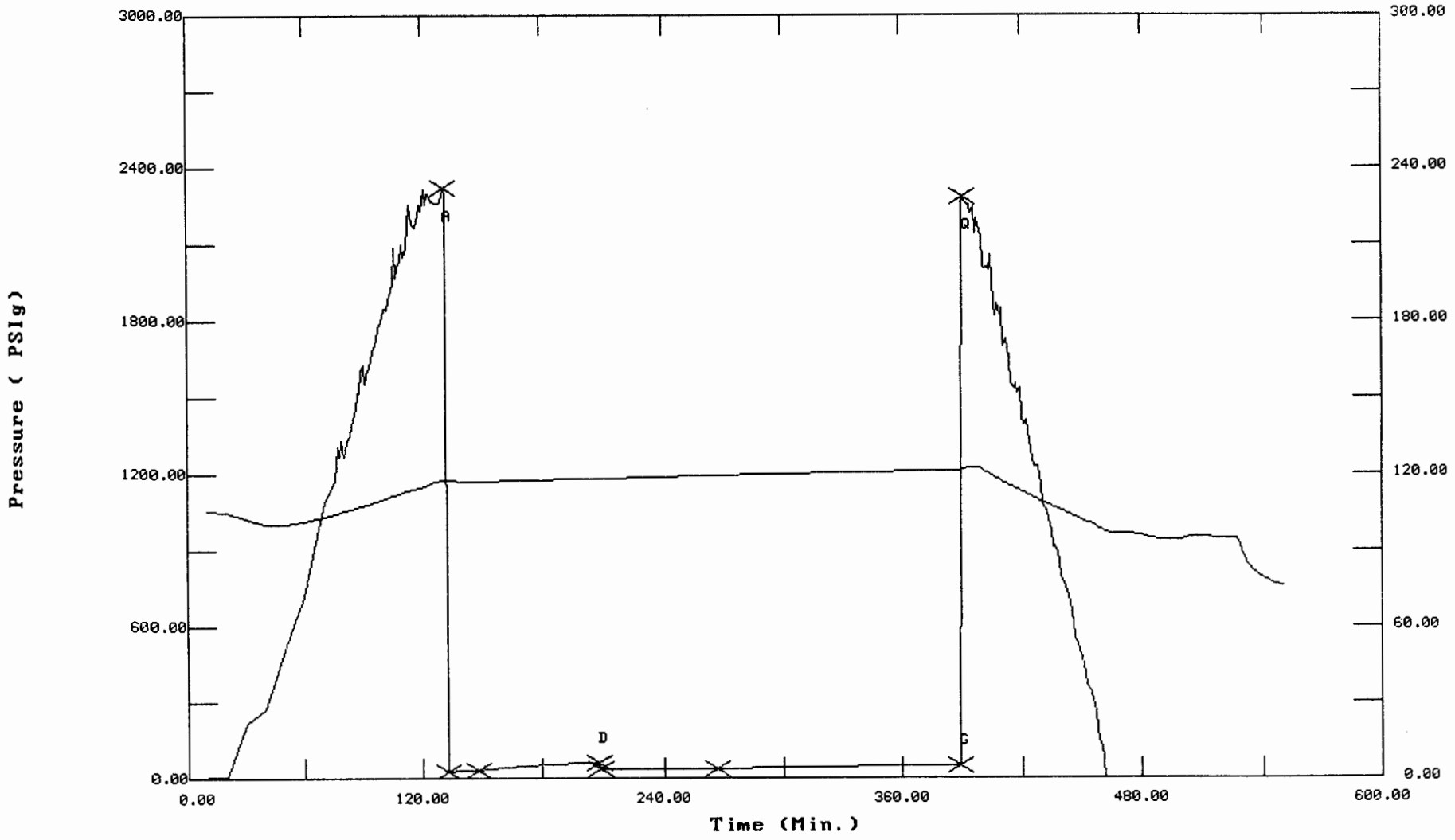
Test Successful: Y

TEST HISTORY

8791 DST #1 Helmerich & Payne

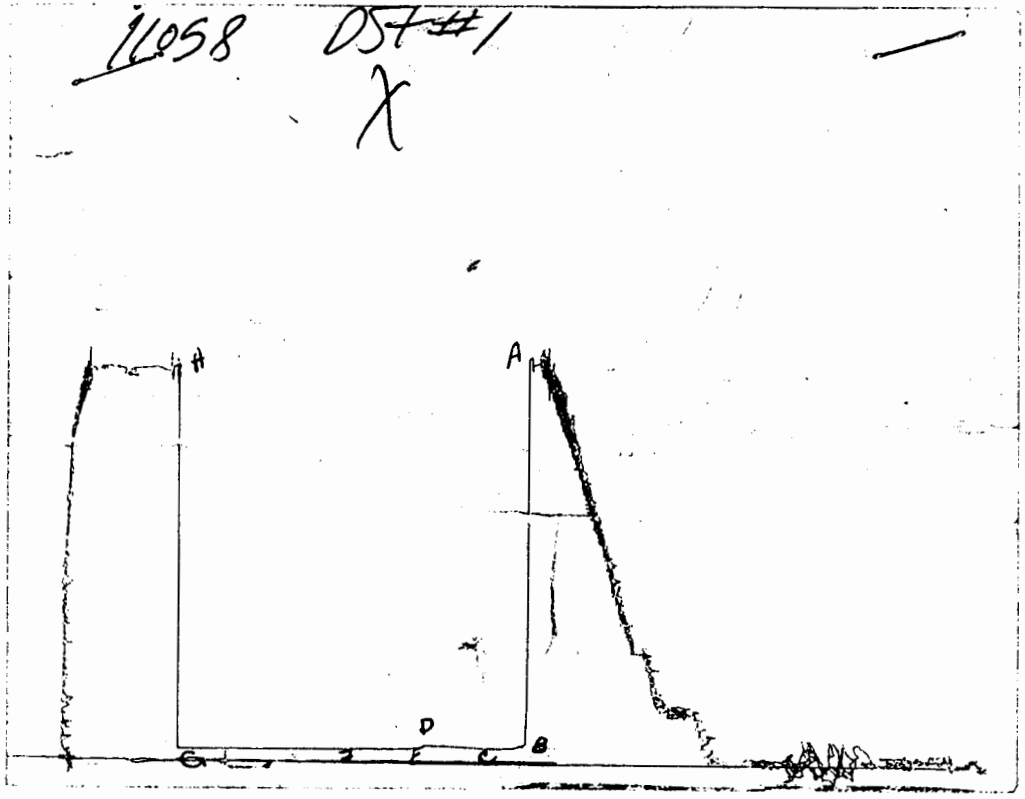
Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2320.60
B:	0.00	21.23
C:	15.00	28.02
D:	60.00	60.25
E:	0.00	30.88
F:	58.00	34.23
G:	122.00	47.16
Q:	0.00	2288.28



E

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8791 DST #1 Helmerich & Payne

DATE: 06/01/02 TIME: 00:22:16

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	131.00	2320.6	0.0	117.56		
****** Start Flow 1	0.00	21.2	0.0	117.60		
	1.00	23.0	1.8	117.56		
	2.00	23.9	2.7	117.47		
	3.00	24.6	3.4	117.38		
	4.00	25.1	3.9	117.29		
	5.00	25.6	4.4	117.21		
	6.00	25.8	4.6	117.15		
	7.00	26.2	5.0	117.10		
	8.00	26.5	5.3	117.07		
	9.00	26.8	5.5	117.05		
	10.00	27.0	5.8	117.03		
	11.00	27.3	6.0	117.02		
	12.00	27.4	6.2	117.01		
	13.00	27.7	6.5	117.02		
	14.00	27.8	6.5	117.02		
****** End Flow 1	15.00	28.0	6.8	117.03		
****** Start Shutin 1	0.00	28.0	0.0	117.03	0.0000	0.001
	1.00	28.9	0.8	117.04	16.0000	0.001
	2.00	29.9	1.8	117.05	8.5000	0.001
	3.00	30.9	2.9	117.07	6.0000	0.001
	4.00	31.9	3.9	117.09	4.7500	0.001
	5.00	32.8	4.8	117.10	4.0000	0.001
	6.00	33.8	5.8	117.11	3.5000	0.001
	7.00	34.7	6.6	117.13	3.1429	0.001
	8.00	35.4	7.4	117.16	2.8750	0.001
	9.00	36.2	8.2	117.18	2.6667	0.001
	10.00	37.0	9.0	117.19	2.5000	0.001
	11.00	37.7	9.7	117.21	2.3636	0.001
	12.00	38.3	10.3	117.24	2.2500	0.001
	13.00	39.1	11.1	117.25	2.1538	0.002
	14.00	39.9	11.8	117.28	2.0714	0.002
	15.00	40.4	12.3	117.30	2.0000	0.002
	16.00	41.0	13.0	117.32	1.9375	0.002
	17.00	41.6	13.6	117.34	1.8824	0.002
	18.00	42.3	14.3	117.36	1.8333	0.002
	19.00	42.9	14.9	117.39	1.7895	0.002
	20.00	43.4	15.4	117.40	1.7500	0.002
	21.00	44.0	15.9	117.43	1.7143	0.002
	22.00	44.5	16.4	117.45	1.6818	0.002
	23.00	45.0	17.0	117.47	1.6522	0.002
	24.00	45.6	17.5	117.49	1.6250	0.002
	25.00	46.1	18.0	117.51	1.6000	0.002
	26.00	46.6	18.5	117.54	1.5769	0.002
	27.00	47.1	19.1	117.56	1.5556	0.002
	28.00	47.6	19.6	117.58	1.5357	0.002
	29.00	48.1	20.1	117.60	1.5172	0.002
	30.00	48.4	20.4	117.62	1.5000	0.002
	31.00	49.0	21.0	117.64	1.4839	0.002
	32.00	49.4	21.4	117.66	1.4688	0.002
	33.00	49.9	21.9	117.69	1.4545	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8791 DST #1 Helmerich & Payne

DATE: 06/01/02 TIME: 00:22:16

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	34.00	50.3	22.3	117.71	1.4412	0.003
	35.00	50.8	22.7	117.73	1.4286	0.003
	36.00	51.2	23.2	117.75	1.4167	0.003
	37.00	51.5	23.5	117.77	1.4054	0.003
	38.00	51.9	23.9	117.80	1.3947	0.003
	39.00	52.4	24.3	117.82	1.3846	0.003
	40.00	52.9	24.8	117.83	1.3750	0.003
	41.00	53.2	25.2	117.86	1.3659	0.003
	42.00	53.6	25.6	117.88	1.3571	0.003
	43.00	54.0	26.0	117.91	1.3488	0.003
	44.00	54.5	26.5	117.93	1.3409	0.003
	45.00	54.9	26.9	117.94	1.3333	0.003
	46.00	55.2	27.2	117.97	1.3261	0.003
	47.00	55.6	27.6	117.99	1.3191	0.003
	48.00	56.0	27.9	118.02	1.3125	0.003
	49.00	56.4	28.4	118.04	1.3061	0.003
	50.00	56.8	28.8	118.07	1.3000	0.003
	51.00	57.1	29.1	118.08	1.2941	0.003
	52.00	57.5	29.5	118.11	1.2885	0.003
	53.00	57.8	29.8	118.13	1.2830	0.003
	54.00	58.2	30.2	118.16	1.2778	0.003
	55.00	58.6	30.5	118.17	1.2727	0.003
	56.00	58.9	30.9	118.20	1.2679	0.003
	57.00	59.2	31.2	118.22	1.2632	0.004
	58.00	59.6	31.6	118.24	1.2586	0.004
	59.00	59.9	31.9	118.27	1.2542	0.004
****** End Shut-in 1	60.00	60.3	32.2	118.28	1.2500	0.004
****** Start Flow 2	0.00	30.9	0.0	118.30		
	1.00	30.7	-0.2	118.29		
	2.00	31.4	0.5	118.28		
	3.00	30.9	0.0	118.27		
	4.00	31.5	0.6	118.26		
	5.00	31.9	1.0	118.26		
	6.00	31.5	0.7	118.27		
	7.00	31.7	0.8	118.28		
	8.00	32.0	1.1	118.31		
	9.00	32.2	1.3	118.33		
	10.00	32.4	1.5	118.35		
	11.00	32.5	1.6	118.37		
	12.00	32.5	1.6	118.39		
	13.00	32.6	1.7	118.41		
	14.00	32.6	1.7	118.44		
	15.00	32.6	1.8	118.46		
	16.00	32.7	1.8	118.49		
	17.00	32.7	1.8	118.51		
	18.00	32.7	1.8	118.54		
	19.00	32.9	2.0	118.56		
	20.00	32.9	2.0	118.58		
	21.00	32.9	2.0	118.61		
	22.00	33.1	2.2	118.63		
	23.00	33.1	2.2	118.66		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8791 DST #1 Helmerich & Payne

DATE: 06/01/02 TIME: 00:22:16

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	24.00	33.1	2.2	118.68		
	25.00	33.0	2.1	118.70		
	26.00	33.1	2.3	118.73		
	27.00	33.2	2.3	118.76		
	28.00	33.2	2.3	118.78		
	29.00	33.2	2.3	118.80		
	30.00	33.3	2.4	118.83		
	31.00	33.3	2.4	118.85		
	32.00	33.2	2.3	118.87		
	33.00	33.4	2.5	118.90		
	34.00	33.4	2.5	118.91		
	35.00	33.4	2.5	118.94		
	36.00	33.4	2.5	118.96		
	37.00	33.4	2.5	118.99		
	38.00	33.5	2.6	119.00		
	39.00	33.5	2.6	119.02		
	40.00	33.6	2.7	119.05		
	41.00	33.7	2.9	119.07		
	42.00	33.7	2.9	119.09		
	43.00	33.7	2.9	119.11		
	44.00	33.6	2.8	119.14		
	45.00	33.6	2.8	119.16		
	46.00	33.9	3.0	119.18		
	47.00	34.0	3.1	119.20		
	48.00	34.0	3.1	119.22		
	49.00	34.0	3.1	119.24		
	50.00	34.1	3.2	119.26		
	51.00	34.1	3.2	119.28		
	52.00	34.1	3.3	119.30		
	53.00	34.1	3.3	119.32		
	54.00	34.2	3.4	119.34		
	55.00	34.2	3.4	119.36		
	56.00	34.2	3.4	119.38		
	57.00	34.2	3.4	119.40		
****** End Flow 2	58.00	34.2	3.4	119.42		
****** Start Shutin 2	0.00	34.2	0.0	119.42	0.0000	0.001
	1.00	34.4	0.2	119.43	74.0000	0.001
	2.00	34.4	0.2	119.46	37.5000	0.001
	3.00	34.3	0.1	119.47	25.3333	0.001
	4.00	34.7	0.5	119.49	19.2500	0.001
	5.00	34.8	0.6	119.51	15.6000	0.001
	6.00	35.1	0.8	119.52	13.1667	0.001
	7.00	35.2	0.9	119.55	11.4286	0.001
	8.00	35.3	1.1	119.56	10.1250	0.001
	9.00	35.5	1.3	119.58	9.1111	0.001
	10.00	35.6	1.3	119.60	8.3000	0.001
	11.00	35.7	1.5	119.62	7.6364	0.001
	12.00	35.9	1.7	119.64	7.0833	0.001
	13.00	36.1	1.8	119.65	6.6154	0.001
	14.00	36.2	1.9	119.67	6.2143	0.001
	15.00	36.3	2.1	119.69	5.8667	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 06/01/02 TIME: 00:22:16

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
16.00	36.4	2.2	119.70	5.5625	0.001
17.00	36.5	2.3	119.72	5.2941	0.001
18.00	36.8	2.5	119.74	5.0556	0.001
19.00	36.8	2.6	119.76	4.8421	0.001
20.00	36.9	2.7	119.77	4.6500	0.001
21.00	37.0	2.8	119.79	4.4762	0.001
22.00	37.2	2.9	119.80	4.3182	0.001
23.00	37.3	3.1	119.83	4.1739	0.001
24.00	37.5	3.3	119.84	4.0417	0.001
25.00	37.6	3.4	119.86	3.9200	0.001
26.00	37.7	3.4	119.87	3.8077	0.001
27.00	37.8	3.5	119.89	3.7037	0.001
28.00	37.9	3.7	119.90	3.6071	0.001
29.00	38.0	3.8	119.92	3.5172	0.001
30.00	38.1	3.9	119.94	3.4333	0.001
31.00	38.1	3.9	119.95	3.3548	0.001
32.00	38.3	4.0	119.97	3.2812	0.001
33.00	38.3	4.1	119.99	3.2121	0.001
34.00	38.6	4.4	120.00	3.1471	0.001
35.00	38.8	4.5	120.01	3.0857	0.002
36.00	38.8	4.6	120.03	3.0278	0.002
37.00	39.1	4.9	120.05	2.9730	0.002
38.00	39.2	5.0	120.07	2.9211	0.002
39.00	39.3	5.0	120.08	2.8718	0.002
40.00	39.4	5.1	120.10	2.8250	0.002
41.00	39.5	5.3	120.12	2.7805	0.002
42.00	39.7	5.5	120.13	2.7381	0.002
43.00	39.7	5.5	120.14	2.6977	0.002
44.00	39.9	5.6	120.17	2.6591	0.002
45.00	39.9	5.7	120.18	2.6222	0.002
46.00	40.1	5.9	120.19	2.5870	0.002
47.00	40.2	6.0	120.21	2.5532	0.002
48.00	40.3	6.0	120.22	2.5208	0.002
49.00	40.4	6.1	120.24	2.4898	0.002
50.00	40.4	6.2	120.26	2.4600	0.002
51.00	40.5	6.3	120.27	2.4314	0.002
52.00	40.7	6.5	120.29	2.4038	0.002
53.00	40.8	6.5	120.30	2.3774	0.002
54.00	40.9	6.6	120.32	2.3519	0.002
55.00	41.0	6.8	120.33	2.3273	0.002
56.00	41.2	7.0	120.35	2.3036	0.002
57.00	41.1	6.9	120.36	2.2807	0.002
58.00	41.3	7.0	120.38	2.2586	0.002
59.00	41.4	7.1	120.39	2.2373	0.002
60.00	41.4	7.1	120.41	2.2167	0.002
61.00	41.7	7.5	120.42	2.1967	0.002
62.00	41.8	7.6	120.43	2.1774	0.002
63.00	41.9	7.6	120.44	2.1587	0.002
64.00	42.0	7.7	120.47	2.1406	0.002
65.00	42.1	7.9	120.48	2.1231	0.002
66.00	42.1	7.9	120.49	2.1061	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8791 DST #1 Helmerich & Payne

DATE: 06/01/02 TIME: 00:22:16

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
67.00	42.2	8.0	120.51	2.0896	0.002
68.00	42.4	8.1	120.52	2.0735	0.002
69.00	42.5	8.2	120.53	2.0580	0.002
70.00	42.5	8.3	120.55	2.0429	0.002
71.00	42.7	8.5	120.56	2.0282	0.002
72.00	42.7	8.5	120.58	2.0139	0.002
73.00	42.9	8.6	120.59	2.0000	0.002
74.00	42.9	8.6	120.60	1.9865	0.002
75.00	43.0	8.8	120.62	1.9733	0.002
76.00	43.2	9.0	120.63	1.9605	0.002
77.00	43.3	9.1	120.65	1.9481	0.002
78.00	43.4	9.2	120.66	1.9359	0.002
79.00	43.5	9.2	120.68	1.9241	0.002
80.00	43.6	9.4	120.69	1.9125	0.002
81.00	43.6	9.4	120.71	1.9012	0.002
82.00	43.6	9.4	120.72	1.8902	0.002
83.00	43.7	9.5	120.73	1.8795	0.002
84.00	43.9	9.7	120.75	1.8690	0.002
85.00	43.8	9.6	120.76	1.8588	0.002
86.00	44.0	9.7	120.77	1.8488	0.002
87.00	44.1	9.8	120.78	1.8391	0.002
88.00	44.1	9.9	120.80	1.8295	0.002
89.00	44.4	10.2	120.81	1.8202	0.002
90.00	44.4	10.2	120.83	1.8111	0.002
91.00	44.4	10.2	120.84	1.8022	0.002
92.00	44.4	10.2	120.85	1.7935	0.002
93.00	44.6	10.4	120.87	1.7849	0.002
94.00	44.8	10.6	120.88	1.7766	0.002
95.00	44.8	10.6	120.89	1.7684	0.002
96.00	44.9	10.7	120.91	1.7604	0.002
97.00	44.9	10.7	120.92	1.7526	0.002
98.00	45.1	10.9	120.93	1.7449	0.002
99.00	45.1	10.9	120.94	1.7374	0.002
100.00	45.2	11.0	120.96	1.7300	0.002
101.00	45.3	11.1	120.97	1.7228	0.002
102.00	45.5	11.2	120.98	1.7157	0.002
103.00	45.6	11.3	121.00	1.7087	0.002
104.00	45.6	11.4	121.00	1.7019	0.002
105.00	45.6	11.4	121.02	1.6952	0.002
106.00	45.6	11.4	121.03	1.6887	0.002
107.00	45.8	11.6	121.05	1.6822	0.002
108.00	45.8	11.6	121.06	1.6759	0.002
109.00	46.1	11.9	121.07	1.6697	0.002
110.00	46.2	12.0	121.08	1.6636	0.002
111.00	46.2	12.0	121.10	1.6577	0.002
112.00	46.3	12.1	121.11	1.6518	0.002
113.00	46.5	12.3	121.12	1.6460	0.002
114.00	46.6	12.3	121.13	1.6404	0.002
115.00	46.6	12.4	121.15	1.6348	0.002
116.00	46.7	12.5	121.16	1.6293	0.002
117.00	46.7	12.5	121.17	1.6239	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8791 DST #1 Helmerich & Payne

DATE: 06/01/02 TIME: 00:22:16

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	118.00	46.8	12.6	121.18	1.6186	0.002
	119.00	46.7	12.5	121.19	1.6134	0.002
	120.00	46.9	12.7	121.21	1.6083	0.002
	121.00	47.0	12.8	121.21	1.6033	0.002
****** End Shut-in 2	122.00	47.2	12.9	121.23	1.5984	0.002
****** Final Hydro.	391.00	2288.3	0.0	121.74		

*** TOOL DIAGRAM *** CONVENTIONAL

ELL NAME: O.J. Brown #1-27

OCATION : 27-25S-34W Finney Cty KS

ICKET No. 8791 D.S.T. No. 1 DATE 6/19/96

OTAL TOOL TO BOTTOM OF TOP PACKERS 30

NTERVAL TOOL .....

OTTOM PACKERS AND ANCHOR 40

OTAL TOOL 70

RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands 1 Single Total 62

OTAL ASSEMBLY 132

.C. ABOVE TOOLS.Stands7 Single 1 Total 553

.P. ABOVE TOOLS.Stands69 Single 1 Total 4290

OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4925

OTAL DEPTH 4950

OTAL DRILL PIPE ABOVE K.B. 25

EMARKS:
ampler Recovery
Mud - 4000 ml
Pressure - 35 PSI
Total 4000 ml

P.O. SUB	
C.O. SUB 1'	4818
S.I. TOOL 5'	4824
sampler 3'	4827
HMV 5'	4832
JARS 5'	4837
SAFETY JOINT 2'	4839
PACKER top	4843
PACKER bottom	4848
DEPTH 4848	
STUBB 1'	4849
ANCHOR	
Alpine Recorder	4850
31' Perfs	4881
1' c.o.	4882
T.C.	
DEPTH	
62' drillpipe	4944
1' c.o.	4945
AK-1 recorder	4945
BULLNOSE 5' bullplug	4950
T.D.	

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8791 Date 6-19-96

Company Name Helmerich & Payne

Lease O.J. Brown 1-27 Test No. 1

County Finney Sec. 27 Twp. 25 Rng. 34

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud 4,000 ML

Water _____ ML

Other _____ ML

Pressure 35 PSI

Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 800 ppm.

Resistivity _____ ohms @ _____ F

Viscosity 54

Mud Weight 9.3

Filtrate 8.0

Other _____

SAMPLER ANALYSIS

Resistivity 5.4 ohms @ 86 F

Chlorides 860. ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity 5.4 ohms @ 86 F

Chlorides 860 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity 5.4 ohms @ 86 F

Chlorides 860 ppm.

Well name OJ Brown

DST # 1

Recorder # 11058

A	2.068	2320		1
B	.090	100		2
C	.078	87		3
D	.092	102		4
E	.069	77		5
F	.069	77		6
G	.069	77		7
H	2.048	2298		8
				9
				10
				11
				12

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8791

Well Name & No. O.J. Brown #1-27 Test No. 1 Date 6-19-96

Company Helmerich & Payne Zone Tested morrow lm

Address P.O. Box 558 Garden City KS 67846 Elevation 2963' KB ____ GL

Co. Rep / Geo. Wes Hansen Cont. Murfin #22 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 27 Twp. 25 Rge. 34 Co. Finney State KS

No. of Copies Norm Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) ____

Interval Tested 4848' — 4950' Initial Str Wt./Lbs. 73,000 Unseated Str Wt./Lbs. 73,000

Anchor Length 102' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 86,000

Top Packer Depth 4843' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Bottom Packer Depth 4848' Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 4950' Drill Collar — 2.25 Ft. Run 553'

Mud Wt. 9.3 LCM #2 Vis. 54 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run ~~4352~~ 4290

Blow Description Weak surface blow died in 11 min.

I.S.I: No return

F.F: Bubble to open tool - No blow.

F.S.I: No return

Recovery — Total Feet 15' Ft. in DC 15' Ft. in WP — Ft. in DP —

Rec. 15'	Feet Of Drlg mud	%gas	%oil	%water	100	%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 122° °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW 5.4 @ 86 °F Chlorides 860 ppm Recovery Chlorides 800 ppm System

(A) Initial Hydrostatic Mud	2367	2320 PSI	Recorder No.	2342	T-Started 19:13 P.m.
(B) First Initial Flow Pressure	77	21 PSI	@ (depth)	4850'	T-Open 21:34 P.m.
(C) First Final Flow Pressure	64	28 PSI	Recorder No.	11058	T-Pulled 1:49 A.m.
(D) Initial Shut-in Pressure	88	60 PSI	@ (depth)	4945'	T-Out 4:50 A.m.
(E) Second Initial Flow Pressure	64	30 PSI	Recorder No.	____	
(F) Second Final Flow Pressure	66	34 PSI	@ (depth)	____	
(G) Final Shut-in Pressure	77	47 PSI	Initial Opening	15	Test X 600
(H) Final Hydrostatic Mud	2345	2288 PSI	Initial Shut-in	60	Jars X 200
	AK-1	Elec.	Final Flow	60	Safety Joint X 50
			Final Shut-in	120	Straddle ____
					Circ. Sub X N/C
					Sampler X 200
					Extra Packer ____
					Elect. Rec. X 150
					Other ____
					TOTAL PRICE $ 1200

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 Wesley Hansen

Our Representative [signature]

3

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne DATE 6-21-96
WELL NAME: O.J.Brown 1-27 KB 2963.00 ft TICKET NO: 8792 DST #2
LOCATION : 27-25S-34W Finney Cty KS GR 0.00 ft FORMATION: St Louis
INTERVAL : 5102.00 To 5165.00 ft TD 5165.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	11058	11058	2341		
SI 60	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	7452	7452	alpin		
FS 120	Depth(ft)	5160.0	5160.0	5104.0	0.0	0.0

TIME DATA----------
PF Fr. 1031 to 1046 hr
IS Fr. 1046 to 1146 hr
SF Fr. 1146 to 1246 hr
FS Fr. 1246 to 1446 hr

	Field	1	2	3	4
A. Init Hydro	2513.0	2447.0	2502.0	0.0	0.0
B. First Flow	77.0	81.0	23.0	0.0	0.0
B1. Final Flow	55.0	54.0	24.0	0.0	0.0
C. In Shut-in	782.0	791.0	790.0	0.0	0.0
D. Init Flow	66.0	81.0	26.0	0.0	0.0
E. Final Flow	55.0	53.0	27.0	0.0	0.0
F. Fl Shut-in	751.0	796.0	810.0	0.0	0.0
G. Final Hydro	2479.0	2421.0	2431.0	0.0	0.0
Inside/Outside	O	O	i		

T STARTED 0834 hr
T ON BOTM 1028 hr
T OPEN 1031 hr
T PULLED 1446 hr
T OUT 1745 hr

RECOVERY
Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
10.00 ft of drilling mud 100 % mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	5000.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	85000.00 lbs
Initial Str Wt	76000.00 lbs
Unseated Str Wt	76000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.50 in
D.C. Length	553.00 ft
D.P. Length	4535.00 ft

BLOW DESCRIPTION
Initial Flow
Weak surface blow - died in 9 min

Initial Shutin
No return

Final Flow
No blow

Final Shutin
No return

MUD DATA----------

Mud Type	chemical
Weight	9.20 lb/c
Vis.	53.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 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	Shane McBride
Co. Rep.	Wes Hansen
Contr.	Murfin
Rig #	22
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

TEST HISTORY

8792 DST #2 O.J. Brown 1-27 Helmerich & Payne

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2502.52
B:	0.00	23.99
C:	15.00	24.34
D:	59.00	790.12
E:	0.00	26.44
F:	59.00	27.20
G:	120.00	810.20
Q:	0.00	2431.59

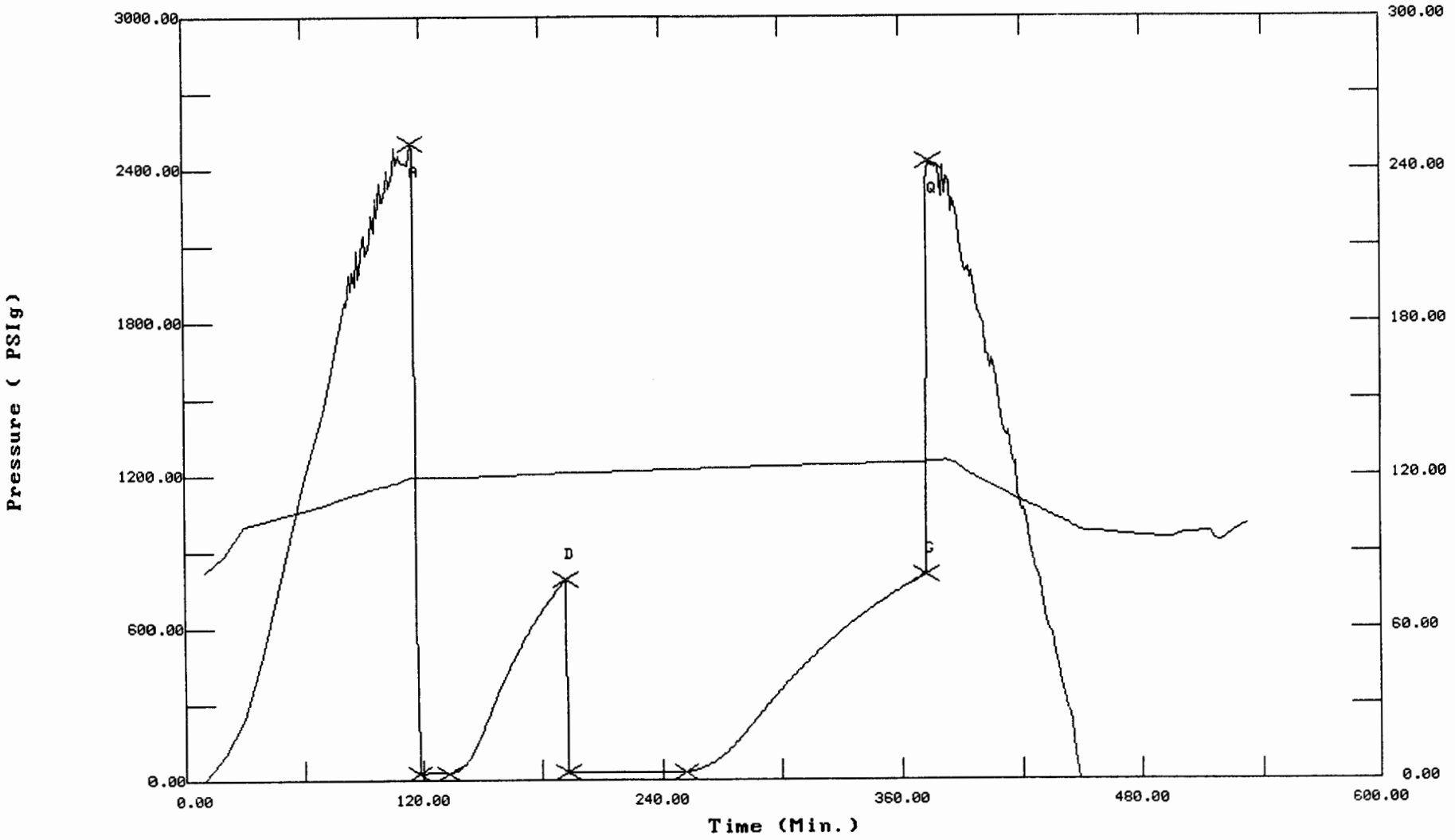
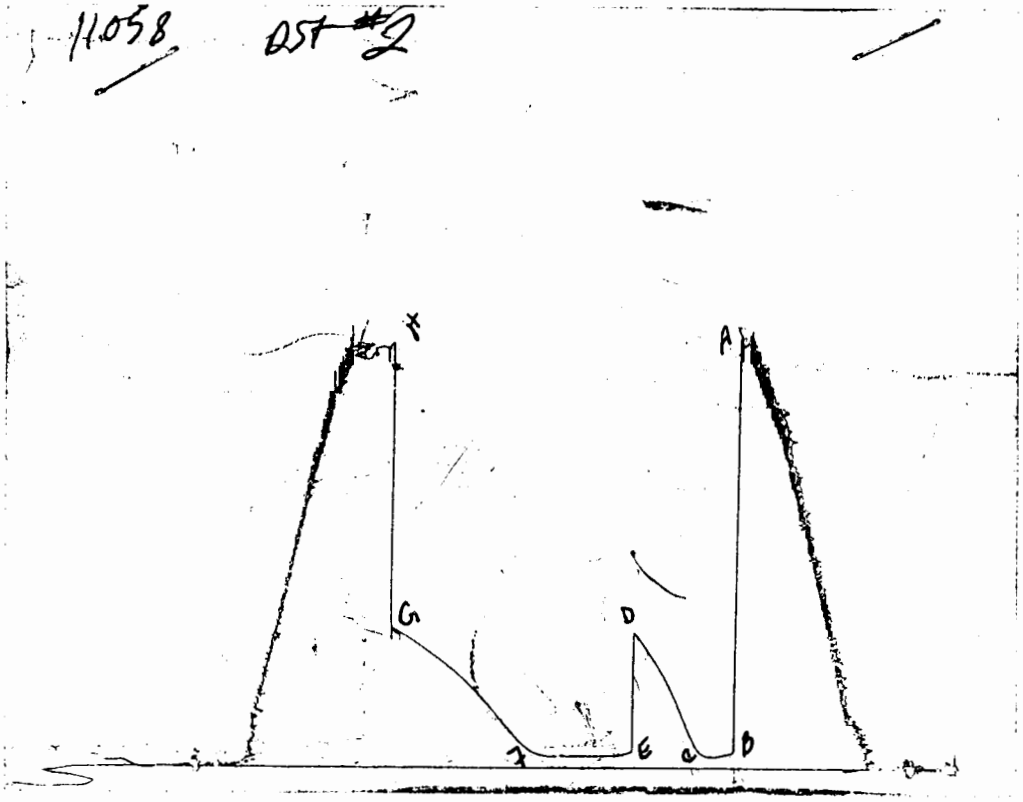


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8792 DST #2 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/21/96 TIME: 08:34:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	115.00	2502.5	0.0	119.24		
****** Start Flow 1	0.00	24.0	0.0	119.42		
	1.00	24.2	0.2	119.47		
	2.00	24.4	0.4	119.50		
	3.00	24.5	0.5	119.51		
	4.00	24.6	0.6	119.52		
	5.00	24.8	0.8	119.51		
	6.00	24.8	0.8	119.50		
	7.00	24.8	0.8	119.49		
	8.00	24.9	0.9	119.48		
	9.00	24.9	0.9	119.48		
	10.00	25.1	1.1	119.46		
	11.00	25.2	1.2	119.45		
	12.00	25.1	1.1	119.44		
	13.00	25.3	1.3	119.43		
	14.00	25.4	1.4	119.42		
****** End Flow 1	15.00	24.3	0.4	119.42		
****** Start Shutin 1	0.00	24.3	0.0	119.42	0.0000	0.001
	1.00	27.0	2.7	119.42	16.0000	0.001
	2.00	29.7	5.4	119.41	8.5000	0.001
	3.00	32.7	8.4	119.42	6.0000	0.001
	4.00	36.4	12.1	119.42	4.7500	0.001
	5.00	40.7	16.3	119.43	4.0000	0.002
	6.00	45.9	21.5	119.45	3.5000	0.002
	7.00	51.8	27.5	119.44	3.1429	0.003
	8.00	59.0	34.7	119.45	2.8750	0.003
	9.00	67.9	43.5	119.47	2.6667	0.005
	10.00	78.1	53.8	119.48	2.5000	0.006
	11.00	89.9	65.6	119.51	2.3636	0.008
	12.00	103.4	79.1	119.51	2.2500	0.011
	13.00	118.4	94.0	119.53	2.1538	0.014
	14.00	134.5	110.2	119.57	2.0714	0.018
	15.00	151.6	127.3	119.58	2.0000	0.023
	16.00	168.6	144.2	119.62	1.9375	0.028
	17.00	186.6	162.3	119.65	1.8824	0.035
	18.00	205.3	180.9	119.68	1.8333	0.042
	19.00	223.6	199.3	119.69	1.7895	0.050
	20.00	243.1	218.8	119.74	1.7500	0.059
	21.00	262.5	238.2	119.77	1.7143	0.069
	22.00	281.7	257.4	119.79	1.6818	0.079
	23.00	300.7	276.3	119.83	1.6522	0.090
	24.00	319.4	295.0	119.84	1.6250	0.102
	25.00	337.8	313.5	119.86	1.6000	0.114
	26.00	355.9	331.6	119.90	1.5769	0.127
	27.00	373.7	349.4	119.94	1.5556	0.140
	28.00	391.1	366.8	119.96	1.5357	0.153
	29.00	408.2	383.9	120.00	1.5172	0.167
	30.00	425.0	400.6	120.03	1.5000	0.181
	31.00	441.4	417.1	120.06	1.4839	0.195
	32.00	457.4	433.1	120.10	1.4688	0.209
	33.00	473.3	448.9	120.13	1.4545	0.224

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8792 DST #2 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/21/96 TIME: 08:34:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	34.00	488.7	464.3	120.17	1.4412	0.239
	35.00	503.9	479.5	120.20	1.4286	0.254
	36.00	518.7	494.3	120.22	1.4167	0.269
	37.00	533.3	509.0	120.26	1.4054	0.284
	38.00	547.5	523.2	120.30	1.3947	0.300
	39.00	561.5	537.2	120.34	1.3846	0.315
	40.00	575.2	550.9	120.37	1.3750	0.331
	41.00	588.7	564.4	120.40	1.3659	0.347
	42.00	601.8	577.5	120.41	1.3571	0.362
	43.00	614.7	590.3	120.42	1.3488	0.378
	44.00	627.4	603.1	120.44	1.3409	0.394
	45.00	639.8	615.4	120.48	1.3333	0.409
	46.00	651.9	627.5	120.52	1.3261	0.425
	47.00	663.8	639.4	120.55	1.3191	0.441
	48.00	675.5	651.2	120.59	1.3125	0.456
	49.00	687.0	662.6	120.62	1.3061	0.472
	50.00	698.2	673.9	120.66	1.3000	0.487
	51.00	709.2	684.9	120.69	1.2941	0.503
	52.00	720.1	695.7	120.72	1.2885	0.518
	53.00	730.6	706.3	120.76	1.2830	0.534
	54.00	740.9	716.6	120.79	1.2778	0.549
	55.00	751.1	726.8	120.83	1.2727	0.564
	56.00	761.1	736.8	120.88	1.2679	0.579
	57.00	771.0	746.6	120.90	1.2632	0.594
	58.00	780.6	756.3	120.92	1.2586	0.609
****** End Shut-in 1	59.00	790.1	765.8	120.95	1.2542	0.624
****** Start Flow 2	0.00	26.4	0.0	120.93		
	1.00	26.6	0.2	120.93		
	2.00	26.6	0.2	120.94		
	3.00	26.6	0.2	120.96		
	4.00	26.7	0.2	120.96		
	5.00	26.6	0.2	120.99		
	6.00	26.7	0.3	121.00		
	7.00	26.6	0.2	121.01		
	8.00	26.6	0.2	121.05		
	9.00	26.7	0.3	121.07		
	10.00	26.8	0.4	121.10		
	11.00	26.8	0.4	121.13		
	12.00	26.9	0.4	121.15		
	13.00	26.9	0.5	121.19		
	14.00	26.9	0.5	121.21		
	15.00	27.0	0.6	121.24		
	16.00	27.1	0.6	121.26		
	17.00	27.1	0.7	121.29		
	18.00	27.1	0.6	121.35		
	19.00	27.0	0.6	121.35		
	20.00	27.1	0.7	121.36		
	21.00	27.2	0.8	121.40		
	22.00	27.2	0.7	121.42		
	23.00	27.2	0.7	121.47		
	24.00	27.2	0.8	121.47		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8792 DST #2 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/21/96 TIME: 08:34:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	27.2	0.8	121.54		
	26.00	27.2	0.8	121.57		
	27.00	27.3	0.9	121.59		
	28.00	27.2	0.8	121.59		
	29.00	27.2	0.8	121.64		
	30.00	27.3	0.9	121.67		
	31.00	27.3	0.9	121.71		
	32.00	27.3	0.8	121.74		
	33.00	27.3	0.8	121.76		
	34.00	27.3	0.9	121.78		
	35.00	27.3	0.9	121.80		
	36.00	27.3	0.9	121.83		
	37.00	27.3	0.8	121.86		
	38.00	27.3	0.8	121.90		
	39.00	27.3	0.9	121.92		
	40.00	27.4	1	121.93		
	41.00	27.3	0.9	121.97		
	42.00	27.4	1	121.99		
	43.00	27.4	1	122.02		
	44.00	27.4	0.9	122.04		
	45.00	27.4	1	122.08		
	46.00	27.4	1	122.09		
	47.00	27.5	1.0	122.12		
	48.00	27.4	1	122.13		
	49.00	27.5	1.0	122.18		
	50.00	27.5	1.1	122.19		
	51.00	27.5	1.0	122.22		
	52.00	27.5	1.1	122.24		
	53.00	27.5	1.0	122.26		
	54.00	27.6	1.1	122.30		
	55.00	27.6	1.1	122.32		
	56.00	27.5	1.1	122.33		
	57.00	27.6	1.1	122.36		
	58.00	27.7	1.2	122.38		
****** End Flow 2	59.00	27.2	0.8	122.40		
****** Start Shutin 2	0.00	27.2	0.0	122.40	0.0000	0.001
	1.00	28.9	1.7	122.43	75.0000	0.001
	2.00	30.5	3.3	122.46	38.0000	0.001
	3.00	32.2	5.0	122.49	25.6667	0.001
	4.00	34.1	6.9	122.51	19.5000	0.001
	5.00	36.2	9.0	122.53	15.8000	0.001
	6.00	38.4	11.2	122.56	13.3333	0.001
	7.00	40.8	13.6	122.58	11.5714	0.002
	8.00	43.6	16.4	122.61	10.2500	0.002
	9.00	46.5	19.3	122.63	9.2222	0.002
	10.00	49.8	22.6	122.65	8.4000	0.002
	11.00	53.4	26.2	122.68	7.7273	0.003
	12.00	57.1	29.9	122.70	7.1667	0.003
	13.00	61.4	34.2	122.73	6.6923	0.004
	14.00	65.9	38.7	122.75	6.2857	0.004
	15.00	70.9	43.7	122.79	5.9333	0.005

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8792 DST #2 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/21/96 TIME: 08:34:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
16.00	76.1	48.9	122.80	5.6250	0.006
17.00	81.8	54.6	122.82	5.3529	0.007
18.00	87.8	60.6	122.84	5.1111	0.008
19.00	94.2	67.0	122.87	4.8947	0.009
20.00	101.1	73.9	122.90	4.7000	0.010
21.00	108.3	81.1	122.92	4.5238	0.012
22.00	115.8	88.6	122.95	4.3636	0.013
23.00	123.4	96.2	122.96	4.2174	0.015
24.00	131.5	104.3	122.99	4.0833	0.017
25.00	140.0	112.8	123.01	3.9600	0.020
26.00	148.0	120.8	123.04	3.8462	0.022
27.00	156.8	129.6	123.06	3.7407	0.025
28.00	165.9	138.7	123.08	3.6429	0.028
29.00	175.1	147.9	123.11	3.5517	0.031
30.00	184.4	157.2	123.13	3.4667	0.034
31.00	193.8	166.6	123.15	3.3871	0.038
32.00	203.3	176.1	123.19	3.3125	0.041
33.00	212.8	185.6	123.21	3.2424	0.045
34.00	222.4	195.2	123.23	3.1765	0.049
35.00	231.9	204.7	123.26	3.1143	0.054
36.00	241.5	214.3	123.28	3.0556	0.058
37.00	251.0	223.8	123.30	3.0000	0.063
38.00	260.7	233.5	123.33	2.9474	0.068
39.00	270.2	243.0	123.35	2.8974	0.073
40.00	279.6	252.4	123.38	2.8500	0.078
41.00	289.1	261.9	123.40	2.8049	0.084
42.00	298.5	271.3	123.41	2.7619	0.089
43.00	307.7	280.5	123.44	2.7209	0.095
44.00	317.0	289.8	123.46	2.6818	0.100
45.00	326.3	299.1	123.49	2.6444	0.106
46.00	335.5	308.3	123.51	2.6087	0.113
47.00	344.4	317.2	123.53	2.5745	0.119
48.00	353.3	326.1	123.56	2.5417	0.125
49.00	362.3	335.1	123.58	2.5102	0.131
50.00	371.0	343.8	123.60	2.4800	0.138
51.00	379.7	352.5	123.63	2.4510	0.144
52.00	388.3	361.1	123.65	2.4231	0.151
53.00	396.8	369.6	123.68	2.3962	0.157
54.00	405.4	378.2	123.70	2.3704	0.164
55.00	413.7	386.5	123.71	2.3455	0.171
56.00	422.0	394.8	123.73	2.3214	0.178
57.00	430.2	403.0	123.77	2.2982	0.185
58.00	438.3	411.1	123.78	2.2759	0.192
59.00	446.3	419.1	123.80	2.2542	0.199
60.00	454.2	427.0	123.83	2.2333	0.206
61.00	462.1	434.9	123.86	2.2131	0.213
62.00	469.8	442.6	123.87	2.1935	0.221
63.00	477.5	450.3	123.90	2.1746	0.228
64.00	485.2	458.0	123.91	2.1562	0.235
65.00	492.7	465.5	123.94	2.1385	0.243
66.00	500.1	472.9	123.96	2.1212	0.250

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8792 DST #2 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/21/96 TIME: 08:34:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
67.00	507.6	480.4	123.98	2.1045	0.258
68.00	514.8	487.6	124.01	2.0882	0.265
69.00	522.1	494.9	124.02	2.0725	0.273
70.00	529.3	502.1	124.04	2.0571	0.280
71.00	536.4	509.2	124.05	2.0423	0.288
72.00	543.5	516.3	124.07	2.0278	0.295
73.00	550.4	523.2	124.08	2.0137	0.303
74.00	557.3	530.1	124.10	2.0000	0.311
75.00	564.1	536.9	124.13	1.9867	0.318
76.00	570.8	543.6	124.15	1.9737	0.326
77.00	577.5	550.3	124.17	1.9610	0.333
78.00	584.1	556.9	124.19	1.9487	0.341
79.00	590.6	563.4	124.21	1.9367	0.349
80.00	597.1	569.9	124.23	1.9250	0.357
81.00	603.5	576.3	124.26	1.9136	0.364
82.00	609.8	582.6	124.27	1.9024	0.372
83.00	616.1	588.9	124.29	1.8916	0.380
84.00	622.3	595.1	124.30	1.8810	0.387
85.00	628.5	601.3	124.32	1.8706	0.395
86.00	634.6	607.4	124.35	1.8605	0.403
87.00	640.6	613.4	124.36	1.8506	0.410
88.00	646.6	619.4	124.38	1.8409	0.418
89.00	652.6	625.4	124.41	1.8315	0.426
90.00	658.5	631.3	124.41	1.8222	0.434
91.00	664.2	637.0	124.44	1.8132	0.441
92.00	670.0	642.8	124.45	1.8043	0.449
93.00	675.7	648.5	124.48	1.7957	0.457
94.00	681.3	654.1	124.50	1.7872	0.464
95.00	686.9	659.7	124.52	1.7789	0.472
96.00	692.5	665.3	124.51	1.7708	0.480
97.00	698.0	670.8	124.54	1.7629	0.487
98.00	703.4	676.2	124.57	1.7551	0.495
99.00	708.7	681.5	124.58	1.7475	0.502
100.00	714.0	686.8	124.61	1.7400	0.510
101.00	719.3	692.1	124.62	1.7327	0.517
102.00	724.4	697.2	124.63	1.7255	0.525
103.00	729.6	702.4	124.66	1.7184	0.532
104.00	734.7	707.5	124.67	1.7115	0.540
105.00	739.8	712.6	124.67	1.7048	0.547
106.00	744.7	717.5	124.69	1.6981	0.555
107.00	749.7	722.5	124.72	1.6916	0.562
108.00	754.7	727.5	124.72	1.6852	0.570
109.00	759.6	732.4	124.78	1.6789	0.577
110.00	764.4	737.2	124.79	1.6727	0.584
111.00	769.1	741.9	124.82	1.6667	0.592
112.00	773.9	746.7	124.84	1.6607	0.599
113.00	778.6	751.4	124.85	1.6549	0.606
114.00	783.2	756.0	124.87	1.6491	0.613
115.00	787.8	760.6	124.87	1.6435	0.621
116.00	792.4	765.2	124.93	1.6379	0.628
117.00	796.9	769.7	124.95	1.6325	0.635

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8792 DST #2 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/21/96 TIME: 08:34:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	118.00	801.4	774.2	124.96	1.6271	0.642
	119.00	805.8	778.6	124.95	1.6218	0.649
****** End Shut-in 2	120.00	810.2	783.0	125.00	1.6167	0.656
****** Final Hydro.	374.00	2431.6	0.0	125.15		

WELL NAME: O.J.Brown 1-27

LOCATION : 27-25S-34W Finney Cty KS

TICKET No. 8792 D.S.T. No. 2 DATE 6-21-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 32

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 93

D.C. ABOVE TOOLS.Stands7 Single 1 Total 553

D.P. ABOVE TOOLS.Stands72 Single Total 4535

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5181

TOTAL DEPTH 5165

TOTAL DRILL PIPE ABOVE K.B. 16

REMARKS:
GAS;

OIL;

WATER;

MUD;4,000ml

PRESSURE; 25 psi.

TOTAL;4,000ml

Chlorides in sampler 800 RW 5.2 @ 90*F

*** TOOL DIAGRAM *** CONV.

P.O. SUB	
C.O. SUB 1'	5072
S.I. TOOL 5'	5078
sampler 3'	5081
HMV 5'	5086
JARS 5'	5091
SAFETY JOINT 2'	5093
PACKER top	5097
PACKER bottom	5102
DEPTH 5102	
STUBB 1'	5103
ANCHOR alpine recorder	5104
24' perf	5127
1' c.o.	5128
T.C.	
DEPTH	
31' drillpipe	5159
1' c.o.	5160
ak-1 recorder	5160
BULLNOSE 5' bullplug	5165
T.D.	5165

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 2792 Date 6-21-96

Company Name Helmerich & Payne

Lease O. J. Brown 1-27 Test No. 2

County Finney, Ks Sec. 27 Twp. 25 Rng. 31

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud 4,000 ML

Water _____ ML

Other _____ ML

Pressure 25 PSI PSI

Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 700 ppm.

Resistivity _____ ohms @ _____ F

Viscosity 53

Mud Weight 9.2

Filtrate 8.0

Other LCM = 2

SAMPLER ANALYSIS

Resistivity 5.2 ohms @ 90 F

Chlorides 800 ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity 5.2 ohms @ 90 F

Chlorides 800 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

Well name OI Brown
DST # 2
Recorder # 11058

A	2.181	2447	
B	.073	81	
C	.049	54	
D	.691	691	
E	.073	81	
F	.048	53	
G	.712	796	
H	2.158	2421	

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8792

Well Name & No. O.J. Brown 1-27 Test No. 2 Date 6-21-96

Company Helmerich & Payne Zone Tested Ft Scott

Address P.O. Box 551 Garden City, Ks 67846 Elevation 2963' KB ____ GL

Co. Rep / Geo. Wes Howden Cont. Murfin #22 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 27 Twp. 25 Rge. 31 Co. Finney State Ks

No. of Copies Num Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) N

Interval Tested 5102' 5165' Initial Str Wt./Lbs. 24,000 Unseated Str Wt./Lbs. 76,000

Anchor Length 63' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 85,000

Top Packer Depth 5097' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Bottom Packer Depth 5102 Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 5165' Drill Collar — 2.25 Ft. Run 553'

Mud Wt. 9.2 LCM #2 Vis. 53 WL 8.0 Drill Pipe Size 4½ X H Ft. Run 4555'

Blow Description Weak surface blow died in 9 min.

I.S.I. No return

F.F.: no blow

F.S.I.: No return

Recovery — Total Feet 10 Ft. in DC 10' Ft. in WP — Ft. in DP —

Rec. 10 Feet Of Drlg mud ‰gas ‰oil ‰water 100 ‰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 125° °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 700 ppm System

(A) Initial Hydrostatic Mud	2513	2502	PSI	Recorder No.	#2341	T-Started	8:34 AM
(B) First Initial Flow Pressure	77	23	PSI	@ (depth)	5104'	T-Open	10:31 AM
(C) First Final Flow Pressure	55	24	PSI	Recorder No.	11658	T-Pulled	14:46 P.M.
(D) Initial Shut-in Pressure	782	790	PSI	@ (depth)	5160'	T-Out	17:45 P.M.
(E) Second Initial Flow Pressure	66	26	PSI	Recorder No.			
(F) Second Final Flow Pressure	55	27	PSI	@ (depth)			
(G) Final Shut-in Pressure	751	810	PSI	Initial Opening	15	Test	700
(H) Final Hydrostatic Mud	2479	2431	PSI	Initial Shut-in	60	Jars	260
	AK-1	Elec		Final Flow	60	Safety Joint	50
				Final Shut-in	120	Straddle	
						Circ. Sub	N/C
						Sampler	200
						Extra Packer	
						Elect. Rec.	150
						Other	
						TOTAL PRICE $	1300

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 Wesley Hansen

Our Representative [signature]

3

TRILOBITE TESTING L.L.C.

OPERATOR : Helmerich & Payne DATE 6-23-96
WELL NAME: O.J. Brown 1-27 KB 2963.00 ft TICKET NO: 8793 DST #3
LOCATION : 27-25S-34W Finney Cty KS GR 0.00 ft FORMATION: Mississippi
INTERVAL : 5210.00 To 5376.00 ft TD 5450.00 ft TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins		Field	1	2	3	4
PF 15	Rec.	11058	11058	2341		
SI 60	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0
SF 60	Clock(hrs)	7452	12	alpin		
FS 120	Depth(ft)	5368.0	5368.0	5212.0	0.0	0.0

TIME DATA----------
PF Fr. 0541 to 0556 hr
IS Fr. 0556 to 0656 hr
SF Fr. 0656 to 0756 hr
FS Fr. 0756 to 0956 hr

	Field	1	2	3	4
A. Init Hydro	2623.0	2626.0	2623.0	0.0	0.0
B. First Flow	168.0	225.0	168.0	0.0	0.0
B1. Final Flow	317.0	310.0	317.0	0.0	0.0
C. In Shut-in	1568.0	1559.0	1568.0	0.0	0.0
D. Init Flow	329.0	378.0	329.0	0.0	0.0
E. Final Flow	528.0	526.0	528.0	0.0	0.0
F. Fl Shut-in	1489.0	1494.0	1489.0	0.0	0.0
G. Final Hydro	2539.0	2513.0	2539.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 0305 hr
T ON BOTM 0538 hr
T OPEN 0541 hr
T PULLED 0956 hr
T OUT 1420 hr

RECOVERY
Tot Fluid 1002.00 ft of 491.00 ft in DC and 511.00 ft in DP
640.00 ft of Drilling mus 100% mud
124.00 ft of watery mud 45% water 55% mud
238.00 ft of muddy water 60% water 40% mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 23000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	9000.00 lbs
Wt Set On Packer	36000.00 lbs
Wt Pulled Loose	85000.00 lbs
Initial Str Wt	76000.00 lbs
Unseated Str Wt	82000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.50 in
D.C. Length	553.00 ft
D.P. Length	4720.00 ft

BLOW DESCRIPTION

Initial Flow
Bottom of bucket in 7 minutes

Initial Shutin
No return

Final Flow
Surface blow built to 9 1/2"

Final Shutin
No return

SAMPLES:
SENT TO:

MUD DATA----------

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	63.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	N
Amt. of fill	0.00 ft
Btm. H. Temp.	131.00 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	Shane McBride
Co. Rep.	Wes Hansen
Contr.	Murfin
Rig #	22
Unit #	
Pump T.	

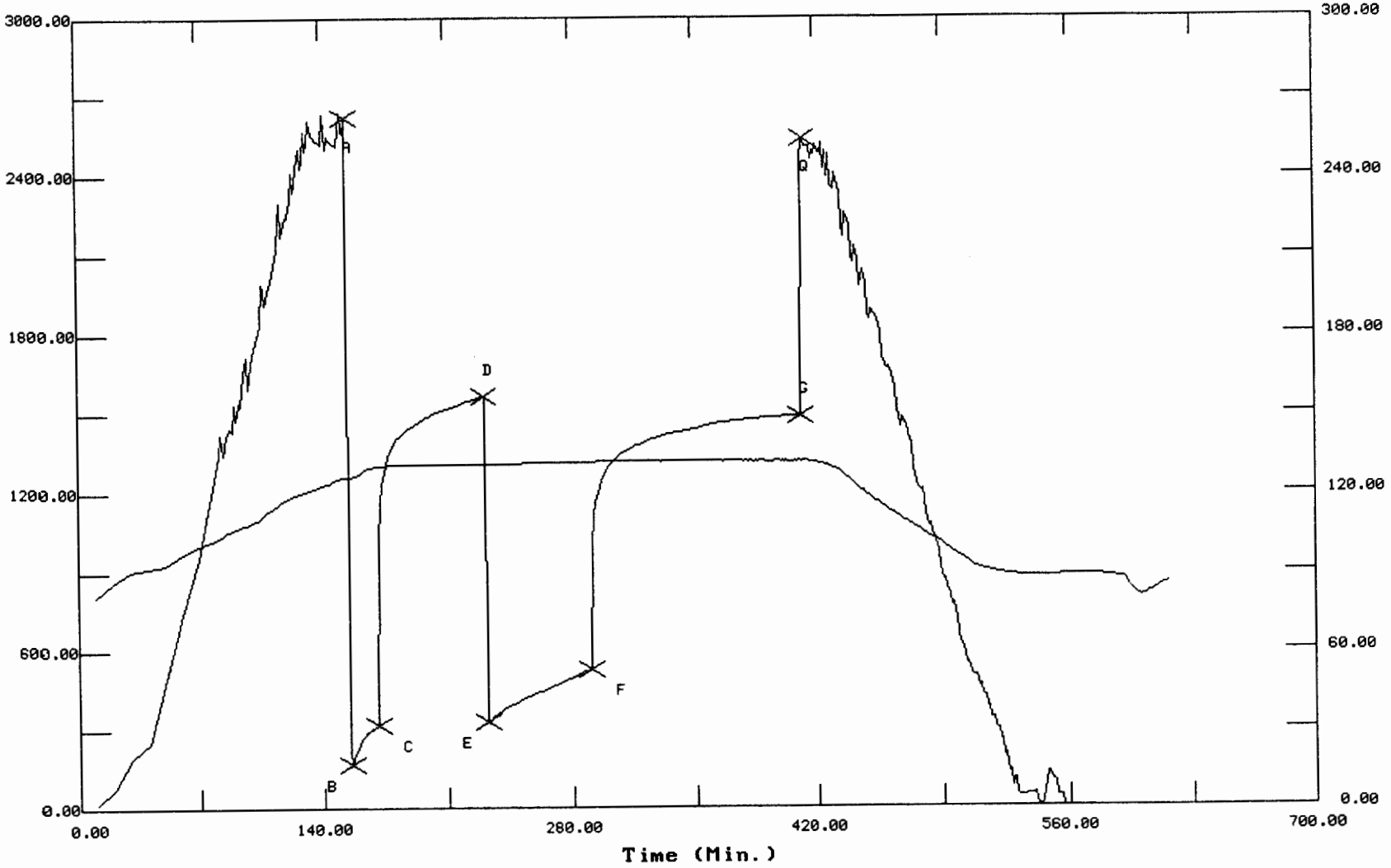
Test Successful: Y

TEST HISTORY

8793 DST #3 O.J. Brown 1-27 Helmerich & Payne

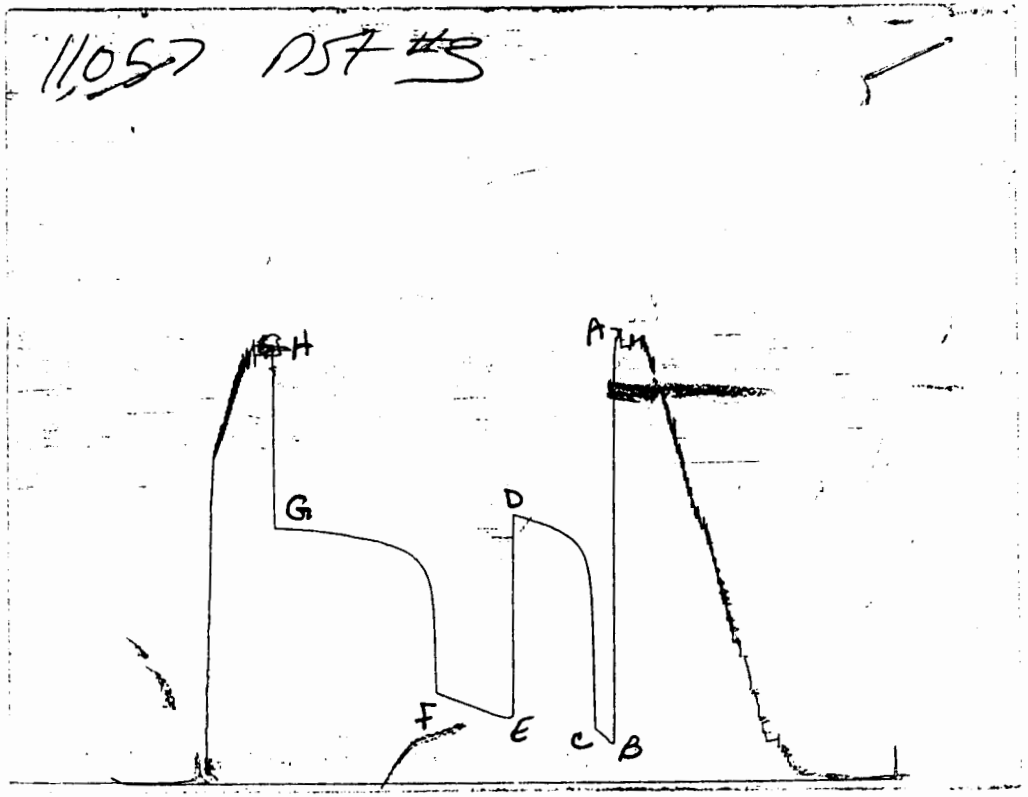
Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2623.15
B:	0.00	168.43
C:	15.00	317.65
D:	60.00	1568.39
E:	0.00	329.52
F:	59.00	528.64
G:	120.00	1489.12
Q:	0.00	2539.50



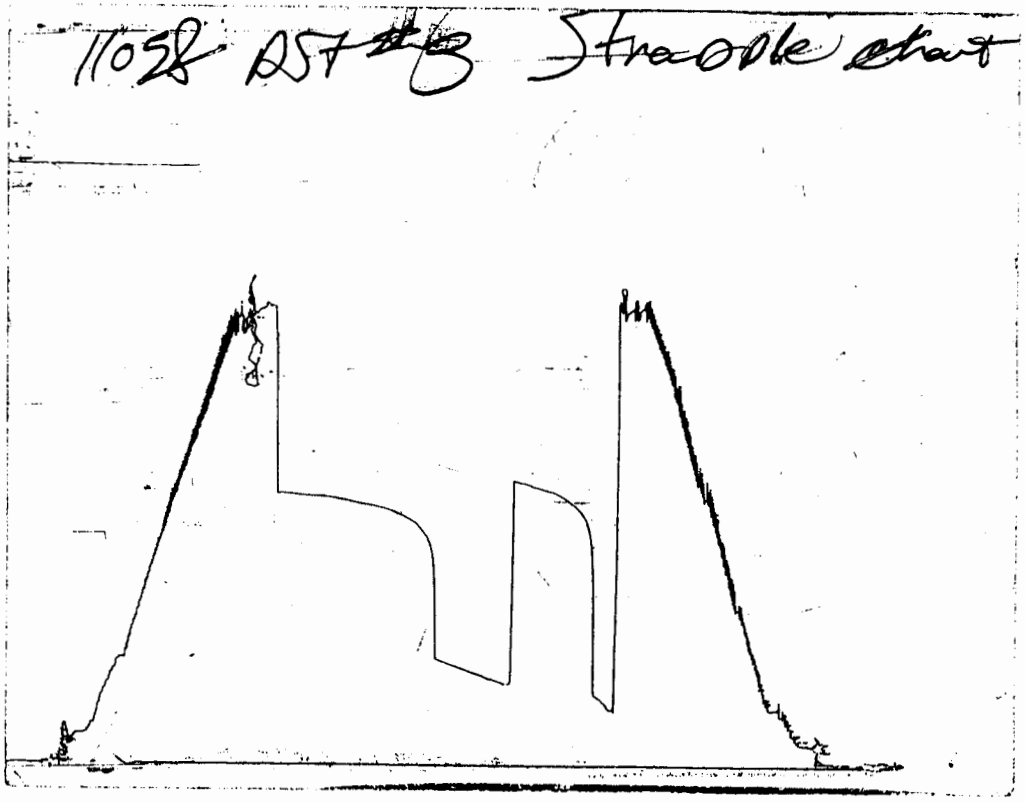
E

CHART PAGE



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

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8793 DST #3 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/23/96 TIME: 03:06:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	154.00	2623.2	0.0	125.86		
****** Start Flow 1	0.00	168.4	0.0	125.85		
	1.00	189.2	20.8	126.07		
	2.00	210.8	42.3	126.31		
	3.00	224.9	56.5	126.63		
	4.00	242.1	73.7	126.97		
	5.00	259.1	90.6	127.39		
	6.00	267.7	99.3	127.84		
	7.00	271.7	103.3	128.33		
	8.00	278.6	110.2	128.72		
	9.00	286.6	118.2	129.07		
	10.00	293.4	124.9	129.39		
	11.00	299.4	130.9	129.61		
	12.00	305.5	137.0	129.79		
	13.00	308.9	140.5	129.90		
	14.00	312.3	143.8	129.97		
****** End Flow 1	15.00	317.6	149.2	130.04		
****** Start Shutin 1	0.00	317.6	0.0	130.04	0.0000	0.101
	1.00	1018.5	700.9	130.16	16.0000	1.037
	2.00	1163.5	845.9	130.25	8.5000	1.354
	3.00	1235.9	918.3	130.34	6.0000	1.527
	4.00	1280.2	962.6	130.42	4.7500	1.639
	5.00	1310.6	993.0	130.51	4.0000	1.718
	6.00	1334.5	1016.9	130.57	3.5000	1.781
	7.00	1353.9	1036.3	130.62	3.1429	1.833
	8.00	1368.8	1051.2	130.72	2.8750	1.874
	9.00	1380.9	1063.3	130.75	2.6667	1.907
	10.00	1390.8	1073.1	130.77	2.5000	1.934
	11.00	1402.2	1084.6	130.80	2.3636	1.966
	12.00	1409.1	1091.5	130.81	2.2500	1.986
	13.00	1416.2	1098.5	130.79	2.1538	2.006
	14.00	1422.5	1104.9	130.85	2.0714	2.024
	15.00	1428.2	1110.5	130.86	2.0000	2.040
	16.00	1433.4	1115.7	130.86	1.9375	2.055
	17.00	1438.5	1120.9	130.86	1.8824	2.069
	18.00	1443.6	1126.0	130.88	1.8333	2.084
	19.00	1448.3	1130.6	130.90	1.7895	2.098
	20.00	1452.7	1135.0	130.88	1.7500	2.110
	21.00	1456.4	1138.8	130.88	1.7143	2.121
	22.00	1460.8	1143.1	130.88	1.6818	2.134
	23.00	1466.2	1148.5	130.90	1.6522	2.150
	24.00	1470.5	1152.9	130.90	1.6250	2.162
	25.00	1474.2	1156.5	130.92	1.6000	2.173
	26.00	1478.1	1160.5	130.91	1.5769	2.185
	27.00	1481.3	1163.7	130.91	1.5556	2.194
	28.00	1484.8	1167.1	130.91	1.5357	2.205
	29.00	1488.4	1170.7	130.90	1.5172	2.215
	30.00	1492.9	1175.2	130.88	1.5000	2.229
	31.00	1496.8	1179.1	130.91	1.4839	2.240
	32.00	1500.2	1182.5	130.92	1.4688	2.250
	33.00	1503.3	1185.6	130.94	1.4545	2.260

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8793 DST #3 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/23/96 TIME: 03:06:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	34.00	1505.7	1188.0	130.93	1.4412	2.267
	35.00	1507.8	1190.1	130.94	1.4286	2.273
	36.00	1510.3	1192.7	130.94	1.4167	2.281
	37.00	1512.5	1194.9	130.94	1.4054	2.288
	38.00	1514.9	1197.2	130.95	1.3947	2.295
	39.00	1517.3	1199.6	130.95	1.3846	2.302
	40.00	1520.2	1202.6	130.95	1.3750	2.311
	41.00	1521.9	1204.2	130.95	1.3659	2.316
	42.00	1523.8	1206.2	130.95	1.3571	2.322
	43.00	1525.6	1208.0	130.96	1.3488	2.328
	44.00	1527.6	1209.9	130.94	1.3409	2.333
	45.00	1530.8	1213.1	130.96	1.3333	2.343
	46.00	1535.3	1217.6	130.95	1.3261	2.357
	47.00	1538.3	1220.7	130.96	1.3191	2.366
	48.00	1540.7	1223.1	130.97	1.3125	2.374
	49.00	1543.2	1225.6	130.95	1.3061	2.382
	50.00	1545.5	1227.9	130.95	1.3000	2.389
	51.00	1547.6	1230.0	130.95	1.2941	2.395
	52.00	1549.6	1231.9	130.96	1.2885	2.401
	53.00	1551.7	1234.1	130.95	1.2830	2.408
	54.00	1553.7	1236.1	130.95	1.2778	2.414
	55.00	1555.7	1238.1	130.95	1.2727	2.420
	56.00	1557.7	1240.1	130.96	1.2679	2.426
	57.00	1559.8	1242.2	130.96	1.2632	2.433
	58.00	1563.0	1245.4	130.95	1.2586	2.443
	59.00	1565.8	1248.2	130.95	1.2542	2.452
***** End Shut-in 1	60.00	1568.4	1250.7	130.96	1.2500	2.460
***** Start Flow 2	0.00	329.5	0.0	130.90		
	1.00	330.7	1.1	130.83		
	2.00	337.0	7.5	130.75		
	3.00	345.0	15.5	130.66		
	4.00	350.7	21.2	130.58		
	5.00	354.5	25.0	130.52		
	6.00	358.3	28.8	130.49		
	7.00	364.0	34.4	130.47		
	8.00	371.5	42.0	130.47		
	9.00	378.2	48.7	130.47		
	10.00	384.3	54.8	130.47		
	11.00	383.8	54.2	130.46		
	12.00	386.3	56.7	130.50		
	13.00	389.9	60.4	130.57		
	14.00	393.0	63.4	130.63		
	15.00	395.8	66.3	130.71		
	16.00	399.2	69.7	130.78		
	17.00	402.5	72.9	130.85		
	18.00	405.9	76.4	130.91		
	19.00	409.2	79.7	130.96		
	20.00	412.3	82.8	131.00		
	21.00	415.6	86.0	131.04		
	22.00	418.9	89.3	131.07		
	23.00	422.5	93.0	131.09		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8793 DST #3 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/23/96 TIME: 03:06:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	24.00	425.5	95.9	131.12		
	25.00	428.1	98.6	131.14		
	26.00	430.9	101.4	131.15		
	27.00	434.1	104.6	131.18		
	28.00	436.8	107.3	131.20		
	29.00	439.3	109.8	131.21		
	30.00	442.4	112.9	131.23		
	31.00	444.9	115.4	131.25		
	32.00	447.9	118.3	131.26		
	33.00	450.6	121.0	131.27		
	34.00	453.8	124.3	131.29		
	35.00	456.5	127.0	131.28		
	36.00	459.3	129.8	131.29		
	37.00	462.3	132.8	131.30		
	38.00	465.6	136.1	131.31		
	39.00	468.6	139.1	131.32		
	40.00	471.7	142.2	131.31		
	41.00	474.7	145.2	131.31		
	42.00	478.2	148.7	131.32		
	43.00	481.1	151.6	131.32		
	44.00	483.9	154.4	131.32		
	45.00	486.9	157.4	131.32		
	46.00	490.2	160.7	131.33		
	47.00	493.2	163.7	131.34		
	48.00	496.1	166.5	131.34		
	49.00	499.0	169.5	131.35		
	50.00	502.2	172.7	131.36		
	51.00	505.2	175.7	131.37		
	52.00	508.2	178.7	131.38		
	53.00	511.1	181.6	131.39		
	54.00	514.0	184.4	131.42		
	55.00	517.4	187.8	131.43		
	56.00	520.1	190.6	131.44		
	57.00	523.1	193.5	131.46		
	58.00	525.9	196.4	131.46		
****** End Flow 2	59.00	528.6	199.1	131.47		
****** Start Shutin 2	0.00	528.6	0.0	131.47	0.0000	0.279
	1.00	999.7	471.1	131.51	75.0000	0.999
	2.00	1109.0	580.3	131.58	38.0000	1.230
	3.00	1162.8	634.2	131.62	25.6667	1.352
	4.00	1197.3	668.7	131.65	19.5000	1.434
	5.00	1222.5	693.9	131.69	15.8000	1.495
	6.00	1242.2	713.5	131.73	13.3333	1.543
	7.00	1258.3	729.6	131.74	11.5714	1.583
	8.00	1272.1	743.4	131.75	10.2500	1.618
	9.00	1283.6	755.0	131.77	9.2222	1.648
	10.00	1293.6	764.9	131.77	8.4000	1.673
	11.00	1302.5	773.8	131.76	7.7273	1.696
	12.00	1310.6	781.9	131.79	7.1667	1.718
	13.00	1319.7	791.1	131.77	6.6923	1.742
	14.00	1326.6	798.0	131.77	6.2857	1.760

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8793 DST #3 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/23/96 TIME: 03:06:39

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
15.00	1332.7	804.0	131.77	5.9333	1.776
16.00	1338.2	809.6	131.76	5.6250	1.791
17.00	1342.9	814.3	131.75	5.3529	1.804
18.00	1347.6	818.9	131.76	5.1111	1.816
19.00	1352.1	823.5	131.77	4.8947	1.828
20.00	1356.1	827.5	131.74	4.7000	1.839
21.00	1360.1	831.4	131.74	4.5238	1.850
22.00	1363.6	834.9	131.75	4.3636	1.859
23.00	1367.1	838.5	131.75	4.2174	1.869
24.00	1370.4	841.8	131.74	4.0833	1.878
25.00	1373.6	844.9	131.71	3.9600	1.887
26.00	1376.5	847.8	131.72	3.8462	1.895
27.00	1379.2	850.6	131.72	3.7407	1.902
28.00	1382.1	853.5	131.72	3.6429	1.910
29.00	1384.9	856.3	131.73	3.5517	1.918
30.00	1387.7	859.1	131.72	3.4667	1.926
31.00	1390.4	861.7	131.69	3.3871	1.933
32.00	1393.0	864.4	131.71	3.3125	1.941
33.00	1395.7	867.1	131.69	3.2424	1.948
34.00	1398.3	869.6	131.69	3.1765	1.955
35.00	1401.1	872.4	131.69	3.1143	1.963
36.00	1403.8	875.1	131.69	3.0556	1.971
37.00	1406.1	877.5	131.69	3.0000	1.977
38.00	1408.3	879.7	131.70	2.9474	1.983
39.00	1410.2	881.6	131.75	2.8974	1.989
40.00	1412.2	883.5	131.52	2.8500	1.994
41.00	1414.1	885.5	131.68	2.8049	2.000
42.00	1415.9	887.2	131.68	2.7619	2.005
43.00	1417.5	888.9	131.69	2.7209	2.009
44.00	1419.1	890.5	131.68	2.6818	2.014
45.00	1420.7	892.1	131.68	2.6444	2.018
46.00	1422.2	893.5	131.68	2.6087	2.023
47.00	1423.5	894.9	131.65	2.5745	2.026
48.00	1424.9	896.2	131.67	2.5417	2.030
49.00	1426.3	897.6	131.67	2.5102	2.034
50.00	1427.5	898.9	131.67	2.4800	2.038
51.00	1428.8	900.1	131.66	2.4510	2.041
52.00	1430.0	901.4	131.67	2.4231	2.045
53.00	1431.2	902.6	131.67	2.3962	2.048
54.00	1432.4	903.8	131.68	2.3704	2.052
55.00	1433.5	904.9	131.67	2.3455	2.055
56.00	1434.8	906.1	131.68	2.3214	2.059
57.00	1436.0	907.3	131.67	2.2982	2.062
58.00	1437.3	908.6	131.67	2.2759	2.066
59.00	1438.6	910.0	131.66	2.2542	2.070
60.00	1440.5	911.8	131.66	2.2333	2.075
61.00	1442.5	913.9	131.66	2.2131	2.081
62.00	1444.5	915.9	131.66	2.1935	2.087
63.00	1446.5	917.8	131.66	2.1746	2.092
64.00	1448.3	919.6	131.66	2.1562	2.098
65.00	1449.9	921.3	131.66	2.1385	2.102

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8793 DST #3 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/23/96 TIME: 03:06:39

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
66.00	1451.6	923.0	131.64	2.1212	2.107
67.00	1453.2	924.5	131.65	2.1045	2.112
68.00	1454.7	926.0	131.65	2.0882	2.116
69.00	1456.0	927.3	131.65	2.0725	2.120
70.00	1457.3	928.6	131.64	2.0571	2.124
71.00	1458.5	929.9	131.65	2.0423	2.127
72.00	1459.6	930.9	131.64	2.0278	2.130
73.00	1460.6	932.0	131.64	2.0137	2.133
74.00	1461.7	933.0	131.65	2.0000	2.136
75.00	1462.7	934.0	131.63	1.9867	2.139
76.00	1463.7	935.1	131.64	1.9737	2.142
77.00	1464.7	936.0	131.64	1.9610	2.145
78.00	1465.5	936.9	131.64	1.9487	2.148
79.00	1466.5	937.9	131.65	1.9367	2.151
80.00	1467.2	938.6	131.64	1.9250	2.153
81.00	1468.1	939.4	131.65	1.9136	2.155
82.00	1468.8	940.2	131.65	1.9024	2.157
83.00	1469.6	941.0	131.64	1.8916	2.160
84.00	1470.4	941.7	131.64	1.8810	2.162
85.00	1471.0	942.4	131.65	1.8706	2.164
86.00	1471.8	943.2	131.64	1.8605	2.166
87.00	1472.5	943.9	131.63	1.8506	2.168
88.00	1473.2	944.6	131.64	1.8409	2.170
89.00	1473.9	945.3	131.65	1.8315	2.172
90.00	1474.6	945.9	131.63	1.8222	2.174
91.00	1475.2	946.6	131.64	1.8132	2.176
92.00	1475.8	947.2	131.63	1.8043	2.178
93.00	1476.5	947.9	131.62	1.7957	2.180
94.00	1477.1	948.5	131.64	1.7872	2.182
95.00	1477.6	948.9	131.62	1.7789	2.183
96.00	1478.2	949.5	131.64	1.7708	2.185
97.00	1478.8	950.1	131.65	1.7629	2.187
98.00	1479.3	950.7	131.64	1.7551	2.188
99.00	1479.9	951.3	131.64	1.7475	2.190
100.00	1480.5	951.9	131.62	1.7400	2.192
101.00	1481.0	952.3	131.63	1.7327	2.193
102.00	1481.5	952.8	131.63	1.7255	2.195
103.00	1482.1	953.4	131.63	1.7184	2.196
104.00	1482.5	953.9	131.63	1.7115	2.198
105.00	1483.0	954.4	131.64	1.7048	2.199
106.00	1483.5	954.8	131.64	1.6981	2.201
107.00	1483.9	955.3	131.66	1.6916	2.202
108.00	1484.4	955.8	131.62	1.6852	2.203
109.00	1484.8	956.1	131.64	1.6789	2.205
110.00	1485.3	956.6	131.63	1.6727	2.206
111.00	1485.6	956.9	131.64	1.6667	2.207
112.00	1486.1	957.4	131.62	1.6607	2.208
113.00	1486.5	957.8	131.63	1.6549	2.210
114.00	1486.8	958.2	131.62	1.6491	2.211
115.00	1487.2	958.6	131.63	1.6435	2.212
116.00	1487.6	959.0	131.64	1.6379	2.213

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8793 DST #3 O.J. Brown 1-27 Helmerich & Payne

DATE: 06/23/96 TIME: 03:06:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	117.00	1488.0	959.3	131.63	1.6325	2.214
	118.00	1488.4	959.7	131.65	1.6271	2.215
	119.00	1488.7	960.1	131.67	1.6218	2.216
****** End Shut-in 2	120.00	1489.1	960.5	131.64	1.6167	2.217
****** Final Hydro.	413.00	2539.5	0.0	131.66		

(10U

WELL NAME: O.J. Brown 1-27

LOCATION : 27-25S-34W Finney Cty KS

TICKET No. 8793 D.S.T. No. 3 DATE 6-23-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR 54

TOTAL TOOL 84

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands1 Single Total 62

D.P. ANCHOR STND.Stands 2 Single Total 124

TOTAL ASSEMBLY 270

D.C. ABOVE TOOLS.Stands6 Single 1 Total 491

D.P. ABOVE TOOLS.Stands79 Single Total 4720

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5481

TOTAL DEPTH 5450

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:
GAS;

OIL;

WATER; 2,400

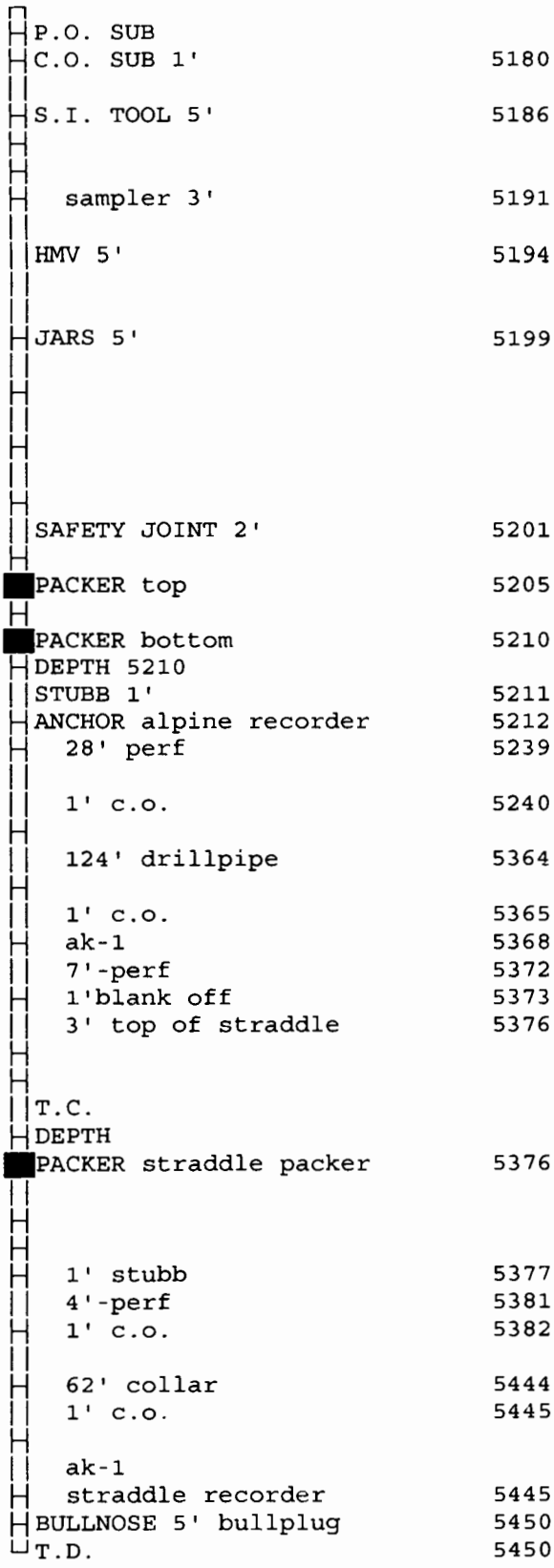
MUD; 1,600

PRESSURE; 470 psi

TOTAL; 4,000ml

Chlorides in sampler 23,200 RW .23 @ 80*F

*** TOOL DIAGRAM **



TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 8793 Date 6-23-96

Company Name Helmerich & Payne

Lease O.J. Brown 1-27 Test No. 3

County Finney, KS Sec. 27 Twp. 25 Rng. 34

SAMPLER RECOVERY

Gas _____ ML

Oil _____ ML

Mud 1,600 ML

Water 2,400 ML

Other _____ ML

Pressure _____ PSI

Total 4,000 mb ML

PIT MUD ANALYSIS

Chlorides 600 ppm.

Resistivity 7.6 ohms @ 86 F

Viscosity 63

Mud Weight 9.2

Filtrate 8.8

Other #1 LCM

SAMPLER ANALYSIS

Resistivity .23 ohms @ 80 F

Chlorides 23,200 ppm.

Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 6.1 ohms @ 81 F

Chlorides 750 ppm.

MIDDLE
Resistivity .325 ohms @ 81 F

Chlorides 18,000 ppm.

BOTTOM
Resistivity .24 ohms @ 80 F

Chlorides 23,000 ppm.

Well name HJP

DST # 3

Recorder # 11057

				1
A	2.340	2626		2
B	.201	225		3
C	.277	310		4
D	1.393	1559		5
E	.338	378		6
F	.470	526		7
G	1.335	1494		8
H	2.240	2513		9
				10
				11
				12

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 8793

Well Name & No. O.J. Brown 1-27 Test No. 3 Date 6-23-96

Company Helmerich & Payne Zone Tested miss.

Address P.O. Box 558 Garden City, ks 67846 Elevation 2963' KB ____ GL

Co. Rep / Geo. Wes Hansen Cont. Murfin #22 Est. Ft. of Pay ____ Por. ____ %

Location: Sec. 27 Twp. 25 Rge. 34 Co. Finney State ks

No. of Copies Norm. Distribution Sheet (Y, N) ____ Turnkey (Y, N) Y Evaluation (Y, N) ____

Interval Tested 5210' — 5376' Initial Str Wt./Lbs. 74,000 Unseated Str Wt./Lbs. 82,000

Anchor Length 166' Wt. Set Lbs. 36,000 Wt. Pulled Loose/Lbs. 85,000

Top Packer Depth 5205' — 5210' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓

Bottom Packer Depth 5376' Wt. Pipe I.D. — 2.7 Ft. Run —

Total Depth 5450' Drill Collar — 2.25 Ft. Run 553'

Mud Wt. 9.3 LCM #1 Vis. 63 WL 8.8 Drill Pipe Size 4½ XH Ft. Run 4894' (4720)

Blow Description B.O.B in 7min. "fair blow"

I.S.I: No return

F.F: Surface blow built to 9½ in.

F.S.I: No return

Recovery — Total Feet 1002' Ft. in DC 491' Ft. in WP — Ft. in DP 511

Rec. 640'	Feet Of Drlg mud	%gas	%oil	%water	100	%mud
Rec. 124'	Feet Of Slightly watery mud	%gas	%oil	45 %water	55	%mud
Rec. 238'	Feet Of watery mud	%gas	%oil	60 %water	40	%mud
Rec. ____	Feet Of ____	%gas	%oil	%water		%mud
Rec. ____	Feet Of ____	%gas	%oil	%water		%mud

BHT 131° °F Gravity ____ °API D@ ____ °F Corrected Gravity ____ °API

RW .24 @ 80 °F Chlorides 23,000 ppm Recovery Chlorides 600 ppm System

(A) Initial Hydrostatic Mud	2623 PSI	Recorder No.	2341	T-Started	3:05 A.M.
(B) First Initial Flow Pressure	168 PSI	@ (depth)	5212'	T-Open	5:41 A.M.
(C) First Final Flow Pressure	317 PSI	Recorder No.	11057	T-Pulled	9:56 A.M.
(D) Initial Shut-in Pressure	1568 PSI	@ (depth)	5445'	T-Out	14:20 P.M
(E) Second Initial Flow Pressure	329 PSI	Recorder No.	11058		
(F) Second Final Flow Pressure	528 PSI	@ (depth)			
(G) Final Shut-in Pressure	1489 PSI	Initial Opening	15	Test X mp	500
(H) Final Hydrostatic Mud	2539 PSI	Initial Shut-in	60	Jars X	200
		Final Flow	60	Safety Joint X	50
		Final Shut-in	120	Straddle X	250
		Straddle Packer did not Seat!		Circ. Sub X	N/C
				Sampler X	200
				Extra Packer X	150
				Elect. Rec. X	150
				Other	
				TOTAL PRICE $	1500

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 Wesley Hansen

Our Representative Shane McBride

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