

15-081-20971

7-27s-34w

**WELL NAME:** Jones-Ladner #A-1  
**OPERATOR:** Helmerich & Payne Inc  
**LOCATION:** Sec 7 Rge 27S Twp 34W  
Haskell County Kansas  
**DATE:** 03/06/96

TRILOBITE TESTING L.L.C.

OPERATOR : Helmrich & Payne Inc. DATE 3-6-96  
 WELL NAME: Jones-Ladner #A-1 KB 3000.00 ft TICKET NO: 8427 DST #1  
 LOCATION : 7-27S-34W, Haskell Cty KS GR 2989.00 ft FORMATION: Morrow Lime  
 INTERVAL : 5020.00 To 5120.00 ft TD 5120.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 20	Rec.	11086	11086	2350			PF Fr. 1027 to 1047 hr
SI 60	Range(Psi )	4350.0	4350.0	4995.0	0.0	0.0	IS Fr. 1047 to 1147 hr
SF 60	Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 1147 to 1247 hr
FS 120	Depth(ft )	5117.0	5117.0	5035.0	0.0	0.0	FS Fr. 1247 to 1447 hr

	Field	1	2	3	4	
A. Init Hydro	2447.0	2395.0	2382.0	0.0	0.0	T STARTED 0600 hr
B. First Flow	120.0	90.0	43.0	0.0	0.0	T ON BOTM 1025 hr
Bl. Final Flow	120.0	98.0	79.0	0.0	0.0	T OPEN 1027 hr
C. In Shut-in	1619.0	1611.0	1638.0	0.0	0.0	T PULLED 1447 hr
D. Init Flow	152.0	138.0	88.0	0.0	0.0	T OUT 2030 hr
E. Final Flow	185.0	172.0	156.0	0.0	0.0	
F. Fl Shut-in	1673.0	1652.0	1655.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2414.0	2386.0	2359.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 138000.00 lbs
						Initial Str Wt 105000.00 lbs
						Unseated Str Wt 106000.00 lbs

RECOVERY

Tot Fluid 300.00 ft of 300.00 ft in DC and 0.00 ft in DP  
 200.00 ft of Gas & Oil Cut Mud - 10% gas, 20% oil, 70% mud  
 100.00 ft of Gassy mud cut oil - 50% gas, 30% oil, 20% mud

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 657.00 ft  
 D.P. Length 4401.00 ft

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

BLOW DESCRIPTION

Initial Flow -  
 Built steadily to bottom of bucket in 10 min

Initial Shutin -  
 Bled off, no blow back

Final Flow -  
 Bottom of bucket in 2 min, steady throughout

Final Shut-in -  
 Blew back in 2 min, died after 12 min

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	45.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop	
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	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike McVey
Co. Rep.	Wes Hansen
Contr.	Cheyenne Drlg.
Rig #	1
Unit #	
Pump T.	

SAMPLES: No  
 SENT TO:

Test Successful: Y

CALCULATED RECOVERY ANALYSIS -

DRILL COLLARS

DST #

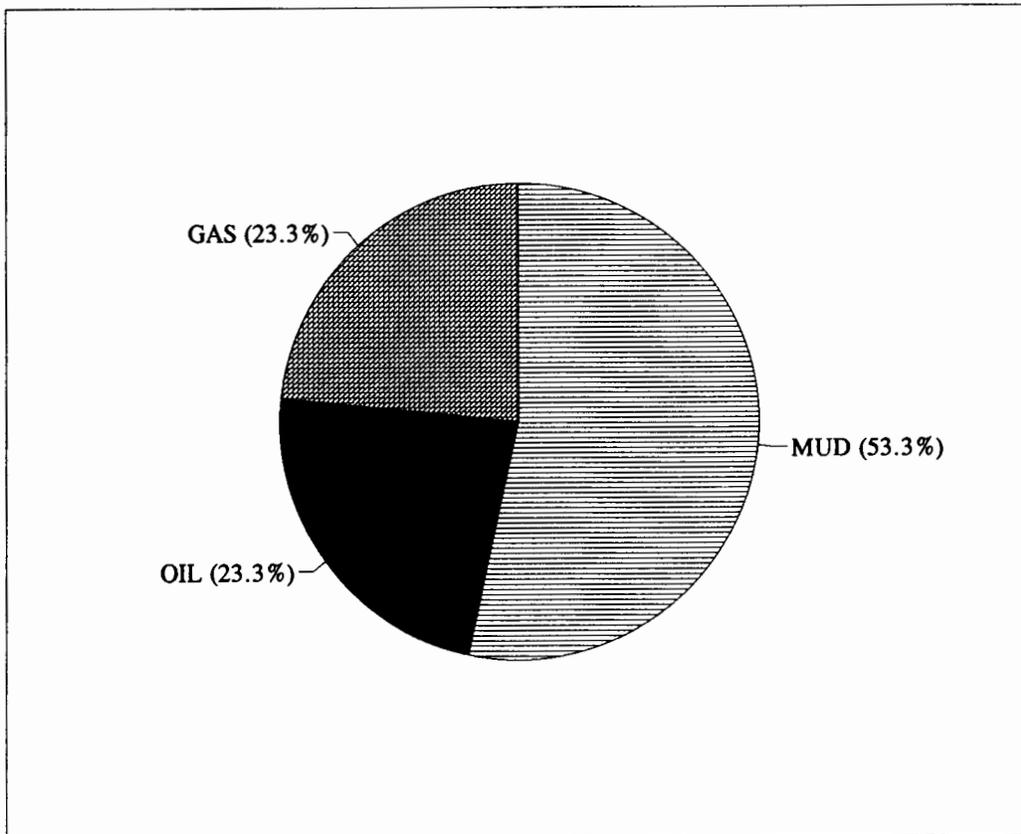
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TICKE 8427

SAMPLE #	TOTAL FEET	GAS		OIL		%	WAT		MUD	
		%	FEET	%	FEET		FEET	%	FEET	
1	200	10	20	20	40		0	70	140	
2	100	50	50	30	30		0	20	20	
3			0		0		0		0	
4			0		0		0		0	
5			0		0		0		0	
<b>TOTAL</b>	<b>300</b>	<b>23.33</b>	<b>70</b>	<b>23.33</b>	<b>70</b>	<b>0.00</b>	<b>0</b>	<b>53.333</b>	<b>160</b>	

HRS BBL/DAY

BBL OIL= 0.3423 \* 1.33 6.1768  
 BBL WATE 0 \* 0  
 BBL MUD= 0.7824  
 BBL GAS= 0.3423



# TEST HISTORY

8427, DST#1, Helmr ich&Payne, Jones-Ladner #A-1

## Flag Points

t (Min.)	P (PSig)
A: 0.00	2382.20
B: 0.00	42.96
C: 21.00	78.88
D: 60.00	1638.01
E: 0.00	87.61
F: 58.00	155.76
G: 129.00	1654.71
Q: 0.00	2359.12

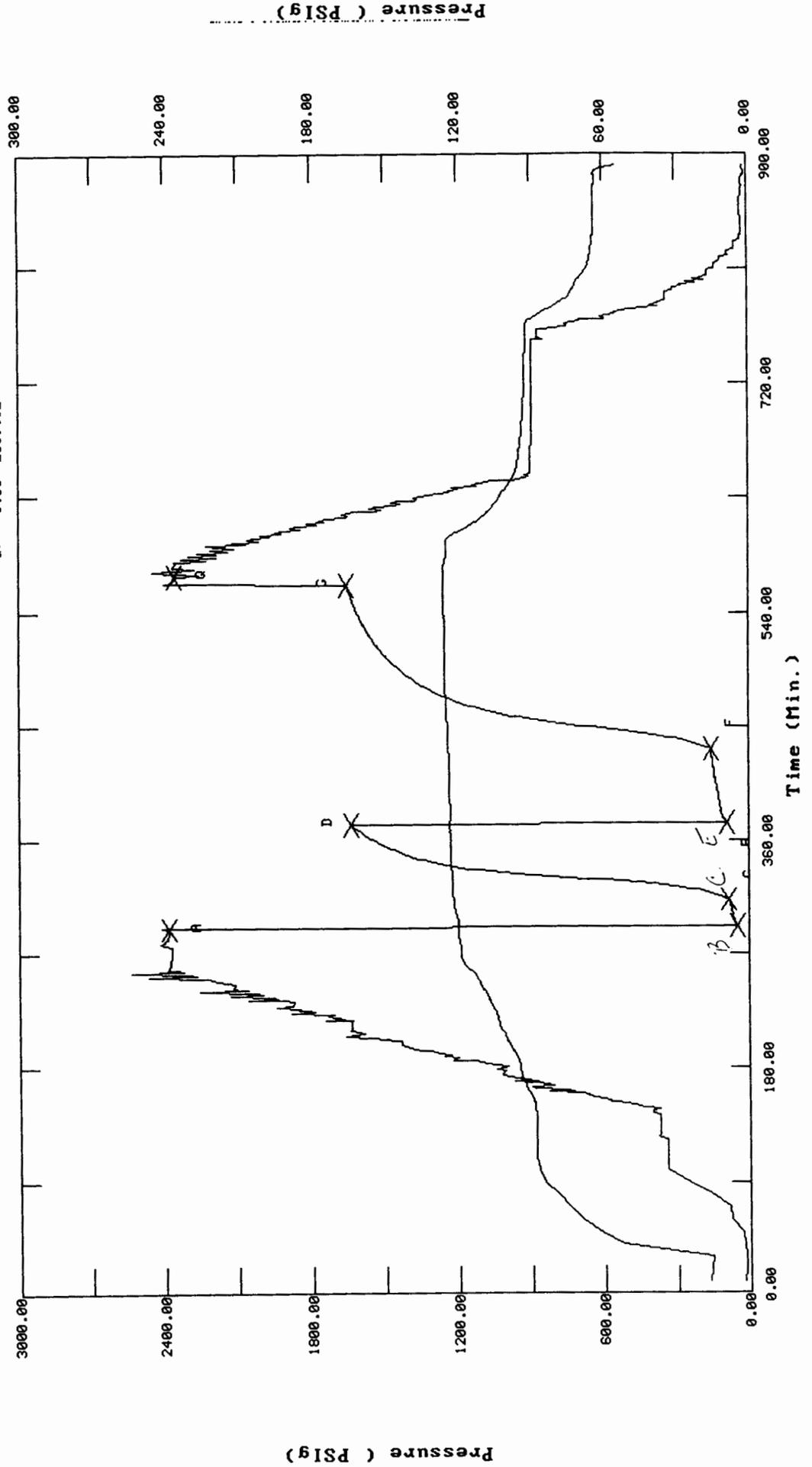
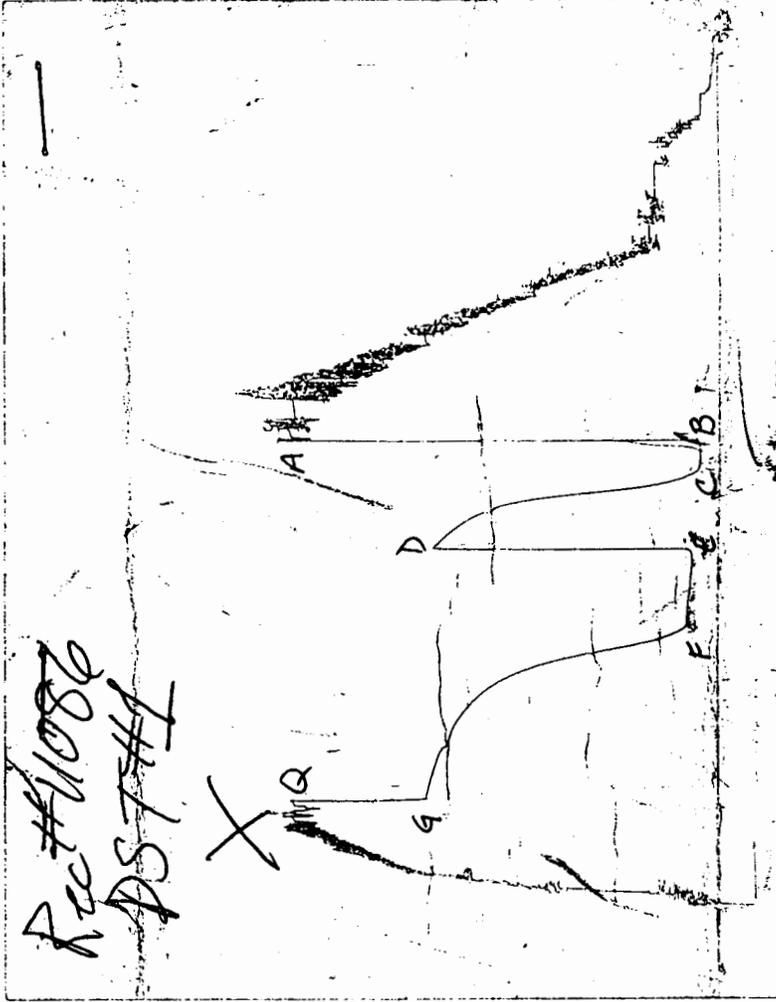


CHART PAGE



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

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8427,DST#1,Helmrich&Payne,Jones-Ladner #A-1  
 DATE: 03/06/96 TIME: 05:49:54  
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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	290.00	2382.2	0.0	120.04		
***** Start Flow 1	0.00	43.0	0.0	120.02		
	1.00	50.8	7.8	119.98		
	2.00	56.7	13.8	119.91		
	3.00	55.6	12.6	119.88		
	4.00	56.9	13.9	119.92		
	5.00	58.5	15.5	120.02		
	6.00	59.8	16.9	120.17		
	7.00	61.4	18.5	120.35		
	8.00	62.9	20.0	120.52		
	9.00	64.2	21.2	120.69		
	10.00	65.7	22.7	120.85		
	11.00	67.0	24.1	121.00		
	12.00	68.4	25.4	121.14		
	13.00	69.7	26.7	121.27		
	14.00	71.0	28.0	121.38		
	15.00	72.2	29.2	121.47		
	16.00	73.5	30.5	121.57		
	17.00	74.8	31.8	121.64		
	18.00	75.6	32.6	121.71		
	19.00	77.0	34.0	121.77		
	20.00	77.8	34.8	121.83		
***** End Flow 1	21.00	78.9	35.9	121.88		
***** Start Shutin 1	0.00	78.9	0.0	121.88	0.0000	0.006
	1.00	89.5	10.7	121.94	22.0000	0.008
	2.00	103.7	24.8	121.98	11.5000	0.011
	3.00	118.5	39.6	122.03	8.0000	0.014
	4.00	134.3	55.4	122.07	6.2500	0.018
	5.00	151.4	72.5	122.10	5.2000	0.023
	6.00	170.3	91.4	122.14	4.5000	0.029
	7.00	191.3	112.5	122.17	4.0000	0.037
	8.00	215.2	136.3	122.20	3.6250	0.046
	9.00	242.3	163.4	122.23	3.3333	0.059
	10.00	273.7	194.8	122.25	3.1000	0.075
	11.00	309.9	231.1	122.28	2.9091	0.096
	12.00	352.2	273.4	122.30	2.7500	0.124
	13.00	401.5	322.6	122.32	2.6154	0.161
	14.00	458.7	379.9	122.33	2.5000	0.210
	15.00	523.4	444.6	122.36	2.4000	0.274
	16.00	594.6	515.7	122.38	2.3125	0.354
	17.00	669.7	590.8	122.40	2.2353	0.448
	18.00	746.7	667.8	122.43	2.1667	0.558
	19.00	823.1	744.2	122.46	2.1053	0.677
	20.00	895.1	816.2	122.49	2.0500	0.801
	21.00	960.3	881.4	122.52	2.0000	0.922
	22.00	1018.3	939.4	122.54	1.9545	1.037
	23.00	1069.5	990.6	122.58	1.9130	1.144
	24.00	1114.4	1035.5	122.62	1.8750	1.242
	25.00	1154.3	1075.4	122.66	1.8400	1.332
	26.00	1189.8	1110.9	122.69	1.8077	1.416
	27.00	1221.5	1142.6	122.72	1.7778	1.492

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8427,DST#1,Helmrich&Payne,Jones-Ladner #A-1

DATE: 03/06/96 TIME: 05:49:54

Time	Pressure PSig	delta PSig	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
28.00	1250.1	1171.2		122.75	1.7500	1.563
29.00	1276.2	1197.3		122.79	1.7241	1.629
30.00	1299.9	1221.1		122.81	1.7000	1.690
31.00	1322.0	1243.1		122.83	1.6774	1.748
32.00	1342.4	1263.5		122.86	1.6562	1.802
33.00	1361.6	1282.7		122.88	1.6364	1.854
34.00	1379.2	1300.3		122.90	1.6176	1.902
35.00	1395.8	1316.9		122.93	1.6000	1.948
36.00	1411.4	1332.5		122.96	1.5833	1.992
37.00	1426.2	1347.3		122.97	1.5676	2.034
38.00	1440.3	1361.4		122.98	1.5526	2.074
39.00	1453.6	1374.7		123.00	1.5385	2.113
40.00	1466.4	1387.5		123.01	1.5250	2.150
41.00	1478.4	1399.5		123.02	1.5122	2.186
42.00	1490.0	1411.1		123.05	1.5000	2.220
43.00	1501.1	1422.2		123.06	1.4884	2.253
44.00	1511.7	1432.8		123.08	1.4773	2.285
45.00	1521.9	1443.0		123.10	1.4667	2.316
46.00	1531.7	1452.8		123.11	1.4565	2.346
47.00	1541.0	1462.1		123.13	1.4468	2.375
48.00	1550.1	1471.3		123.14	1.4375	2.403
49.00	1558.9	1480.0		123.15	1.4286	2.430
50.00	1567.3	1488.5		123.17	1.4200	2.457
51.00	1575.4	1496.5		123.18	1.4118	2.482
52.00	1583.4	1504.5		123.20	1.4038	2.507
53.00	1590.9	1512.0		123.22	1.3962	2.531
54.00	1598.3	1519.4		123.23	1.3889	2.555
55.00	1605.5	1526.6		123.22	1.3818	2.578
56.00	1612.2	1533.4		123.26	1.3750	2.599
57.00	1619.0	1540.1		123.26	1.3684	2.621
58.00	1625.5	1546.6		123.27	1.3621	2.642
59.00	1631.8	1552.9		123.28	1.3559	2.663
60.00	1638.0	1559.1		123.28	1.3500	2.683
***** End Shut-in 1						
***** Start Flow 2						
	0.00	87.6	0.0	123.27		
	1.00	94.9	7.3	123.24		
	2.00	100.8	13.2	123.16		
	3.00	104.3	16.7	123.08		
	4.00	105.5	17.9	123.01		
	5.00	107.0	19.4	122.95		
	6.00	108.0	20.4	122.92		
	7.00	108.8	21.1	122.92		
	8.00	109.8	22.2	122.94		
	9.00	110.8	23.2	122.97		
	10.00	112.0	24.3	123.01		
	11.00	113.2	25.6	123.05		
	12.00	114.4	26.8	123.10		
	13.00	115.4	27.8	123.15		
	14.00	116.6	29.0	123.19		
	15.00	117.6	30.0	123.22		
	16.00	118.7	31.1	123.25		
	17.00	119.8	32.1	123.26		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8427,DST#1,Helmrich&Payne,Jones-Ladner #A-1

DATE: 03/06/96 TIME: 05:49:54

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
18.00	120.8	33.2	123.29			
19.00	121.9	34.3	123.30			
20.00	122.8	35.2	123.32			
21.00	123.7	36.1	123.34			
22.00	124.7	37.1	123.35			
23.00	125.5	37.9	123.36			
24.00	126.6	38.9	123.37			
25.00	127.7	40.1	123.38			
26.00	128.7	41.1	123.39			
27.00	129.7	42.1	123.41			
28.00	130.9	43.3	123.42			
29.00	131.8	44.1	123.44			
30.00	132.8	45.2	123.45			
31.00	133.9	46.3	123.47			
32.00	134.9	47.3	123.48			
33.00	135.8	48.2	123.49			
34.00	137.0	49.3	123.50			
35.00	138.1	50.4	123.52			
36.00	139.2	51.6	123.53			
37.00	140.1	52.5	123.54			
38.00	140.7	53.1	123.54			
39.00	141.5	53.9	123.56			
40.00	142.2	54.6	123.58			
41.00	143.0	55.4	123.59			
42.00	143.7	56.1	123.60			
43.00	144.3	56.7	123.62			
44.00	145.4	57.7	123.63			
45.00	146.0	58.4	123.64			
46.00	146.8	59.2	123.65			
47.00	147.4	59.8	123.67			
48.00	148.0	60.4	123.69			
49.00	148.8	61.2	123.71			
50.00	149.8	62.2	123.72			
51.00	150.3	62.7	123.74			
52.00	151.1	63.5	123.77			
53.00	152.0	64.4	123.78			
54.00	152.7	65.0	123.80			
55.00	153.3	65.7	123.81			
56.00	153.9	66.3	123.83			
57.00	154.8	67.2	123.85			
58.00	155.8	68.1	123.87			
***** End Flow 2						
***** Start Shutin 2	0.00	155.8	0.0	123.87	0.0000	0.024
	1.00	161.8	6.0	123.88	80.0000	0.026
	2.00	176.6	20.8	123.90	40.5000	0.031
	3.00	191.3	35.6	123.91	27.3333	0.037
	4.00	207.0	51.2	123.94	20.7500	0.043
	5.00	223.6	67.8	123.96	16.8000	0.050
	6.00	241.9	86.1	123.98	14.1667	0.059
	7.00	261.8	106.1	124.00	12.2857	0.069
	8.00	284.4	128.7	124.02	10.8750	0.081
	9.00	309.2	153.4	124.04	9.7778	0.096

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 03/06/96 TIME: 05:49:54  
 -----

Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.00	336.7	180.9	124.07	8.9000	0.113	
11.00	367.0	211.2	124.09	8.1818	0.135	
12.00	400.3	244.6	124.12	7.5833	0.160	
13.00	436.7	280.9	124.15	7.0769	0.191	
14.00	475.9	320.1	124.18	6.6429	0.226	
15.00	516.9	361.1	124.21	6.2667	0.267	
16.00	559.8	404.0	124.23	5.9375	0.313	
17.00	603.8	448.0	124.26	5.6471	0.365	
18.00	648.1	492.3	124.29	5.3889	0.420	
19.00	691.6	535.9	124.33	5.1579	0.478	
20.00	734.2	578.4	124.36	4.9500	0.539	
21.00	775.1	619.4	124.40	4.7619	0.601	
22.00	814.2	658.4	124.42	4.5909	0.663	
23.00	851.2	695.4	124.47	4.4348	0.725	
24.00	886.0	730.3	124.50	4.2917	0.785	
25.00	918.8	763.1	124.53	4.1600	0.844	
26.00	949.6	793.8	124.57	4.0385	0.902	
27.00	978.4	822.7	124.59	3.9259	0.957	
28.00	1005.5	849.8	124.62	3.8214	1.011	
29.00	1030.8	875.0	124.66	3.7241	1.063	
30.00	1054.5	898.8	124.69	3.6333	1.112	
31.00	1076.8	921.0	124.73	3.5484	1.159	
32.00	1097.7	941.9	124.75	3.4688	1.205	
33.00	1117.4	961.6	124.77	3.3939	1.249	
34.00	1136.0	980.3	124.80	3.3235	1.291	
35.00	1153.6	997.8	124.82	3.2571	1.331	
36.00	1170.3	1014.5	124.85	3.1944	1.370	
37.00	1186.1	1030.4	124.87	3.1351	1.407	
38.00	1201.2	1045.4	124.89	3.0789	1.443	
39.00	1215.4	1059.7	124.92	3.0256	1.477	
40.00	1229.0	1073.3	124.94	2.9750	1.511	
41.00	1242.1	1086.4	124.96	2.9268	1.543	
42.00	1254.5	1098.8	124.98	2.8810	1.574	
43.00	1266.5	1110.8	125.00	2.8372	1.604	
44.00	1278.0	1122.3	125.01	2.7955	1.633	
45.00	1289.0	1133.3	125.03	2.7556	1.662	
46.00	1299.6	1143.9	125.05	2.7174	1.689	
47.00	1309.9	1154.2	125.06	2.6809	1.716	
48.00	1319.8	1164.0	125.07	2.6458	1.742	
49.00	1329.4	1173.6	125.08	2.6122	1.767	
50.00	1338.6	1182.8	125.10	2.5800	1.792	
51.00	1347.5	1191.7	125.12	2.5490	1.816	
52.00	1356.2	1200.4	125.12	2.5192	1.839	
53.00	1364.6	1208.8	125.15	2.4906	1.862	
54.00	1372.6	1216.9	125.16	2.4630	1.884	
55.00	1380.4	1224.7	125.18	2.4364	1.906	
56.00	1388.2	1232.5	125.19	2.4107	1.927	
57.00	1395.5	1239.8	125.19	2.3860	1.948	
58.00	1402.8	1247.0	125.20	2.3621	1.968	
59.00	1409.8	1254.0	125.22	2.3390	1.988	
60.00	1416.7	1260.9	125.22	2.3167	2.007	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8427,DST#1,Helmrich&Payne,Jones-Ladner #A-1

DATE: 03/06/96 TIME: 05:49:54

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
61.00	1423.2	1267.5	125.23	2.2951	2.026
62.00	1429.7	1273.9	125.24	2.2742	2.044
63.00	1436.1	1280.3	125.25	2.2540	2.062
64.00	1442.2	1286.4	125.27	2.2344	2.080
65.00	1448.2	1292.5	125.29	2.2154	2.097
66.00	1454.0	1298.3	125.29	2.1970	2.114
67.00	1459.7	1304.0	125.30	2.1791	2.131
68.00	1465.4	1309.6	125.31	2.1618	2.147
69.00	1470.8	1315.1	125.32	2.1449	2.163
70.00	1476.1	1320.4	125.34	2.1286	2.179
71.00	1481.2	1325.5	125.36	2.1127	2.194
72.00	1486.3	1330.5	125.36	2.0972	2.209
73.00	1491.2	1335.5	125.36	2.0822	2.224
74.00	1496.1	1340.3	125.38	2.0676	2.238
75.00	1500.6	1344.9	125.38	2.0533	2.252
76.00	1505.4	1349.6	125.39	2.0395	2.266
77.00	1509.9	1354.2	125.41	2.0260	2.280
78.00	1514.4	1358.6	125.42	2.0128	2.293
79.00	1518.7	1362.9	125.41	2.0000	2.306
80.00	1522.9	1367.1	125.43	1.9875	2.319
81.00	1527.1	1371.3	125.44	1.9753	2.332
82.00	1531.0	1375.2	125.45	1.9634	2.344
83.00	1534.9	1379.2	125.46	1.9518	2.356
84.00	1538.9	1383.1	125.47	1.9405	2.368
85.00	1542.6	1386.8	125.48	1.9294	2.380
86.00	1546.4	1390.7	125.46	1.9186	2.391
87.00	1550.1	1394.3	125.50	1.9080	2.403
88.00	1553.5	1397.7	125.49	1.8977	2.413
89.00	1557.0	1401.3	125.52	1.8876	2.424
90.00	1560.5	1404.7	125.53	1.8778	2.435
91.00	1563.7	1407.9	125.53	1.8681	2.445
92.00	1567.0	1411.2	125.54	1.8587	2.456
93.00	1570.4	1414.6	125.54	1.8495	2.466
94.00	1573.5	1417.7	125.56	1.8404	2.476
95.00	1576.6	1420.8	125.57	1.8316	2.486
96.00	1579.7	1423.9	125.57	1.8229	2.495
97.00	1582.5	1426.7	125.57	1.8144	2.504
98.00	1585.5	1429.7	125.59	1.8061	2.514
99.00	1588.4	1432.6	125.58	1.7980	2.523
100.00	1591.2	1435.4	125.61	1.7900	2.532
101.00	1593.9	1438.2	125.60	1.7822	2.541
102.00	1596.8	1441.0	125.62	1.7745	2.550
103.00	1599.4	1443.6	125.62	1.7670	2.558
104.00	1602.1	1446.3	125.63	1.7596	2.567
105.00	1604.5	1448.8	125.63	1.7524	2.574
106.00	1607.1	1451.4	125.64	1.7453	2.583
107.00	1609.6	1453.9	125.65	1.7383	2.591
108.00	1612.1	1456.3	125.64	1.7315	2.599
109.00	1614.4	1458.7	125.65	1.7248	2.606
110.00	1616.9	1461.1	125.66	1.7182	2.614
111.00	1619.1	1463.4	125.65	1.7117	2.622

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8427,DST#1,Helmrich&Payne,Jones-Ladner #A-1

DATE: 03/06/96 TIME: 05:49:54  
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	Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
	112.00	1621.4	1465.6		125.68	1.7054	2.629
	113.00	1623.6	1467.8		125.67	1.6991	2.636
	114.00	1625.8	1470.0		125.66	1.6930	2.643
	115.00	1627.9	1472.2		125.68	1.6870	2.650
	116.00	1630.0	1474.3		125.69	1.6810	2.657
	117.00	1632.3	1476.5		125.69	1.6752	2.664
	118.00	1634.2	1478.5		125.70	1.6695	2.671
	119.00	1636.2	1480.5		125.70	1.6639	2.677
	120.00	1638.2	1482.4		125.72	1.6583	2.684
	121.00	1640.1	1484.3		125.71	1.6529	2.690
	122.00	1642.1	1486.4		125.73	1.6475	2.697
	123.00	1644.1	1488.3		125.72	1.6423	2.703
	124.00	1645.8	1490.1		125.73	1.6371	2.709
	125.00	1647.7	1492.0		125.73	1.6320	2.715
	126.00	1649.5	1493.7		125.73	1.6270	2.721
	127.00	1651.3	1495.5		125.72	1.6220	2.727
	128.00	1652.9	1497.2		125.75	1.6172	2.732
***** End Shut-in 2	129.00	1654.7	1499.0		125.76	1.6124	2.738
***** Final Hydro.	568.00	2359.1	0.0		126.13		

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Jones-Ladner #A-1

LOCATION : 7-27S-34W, Haskell Cty KS

TICKET No. 8427 D.S.T. No. 1 DATE 3-6-96

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 38

TOTAL TOOL ..... 68

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.	Stands	Single	Total
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D.P. ANCHOR STND.	Stands	1	Single	Total	62
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TOTAL ASSEMBLY ..... 130

D.C. ABOVE TOOLS.	Stands	11	Single	Total	657
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D.P. ABOVE TOOLS.	Stands	69	Single	1	Total	4339
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5126

TOTAL DEPTH ..... 5120

TOTAL DRILL PIPE ABOVE K.B. .... 6

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Gas 2400 ml, Oil 1000 ml, Mud 600 ml,  
Pressure 100 psi, Total 4000 ml

PIT MUD ANALYSIS -

Chlorides 1800 ppm, Viscosity 45,  
Mud Wt 9.2, Filtrate 9.6, LCM 2#

P.O. SUB 60' up in D.C.	4930
C.O. SUB 1'	4990
S.I. TOOL 5'	4996
Sampler, 3'	4999
HMV 5'	5004
JARS 5'	5009
SAFETY JOINT 2'	5011
PACKER 5'	5015
PACKER 5'	5020
DEPTH 5020	
STUBB 1'	5021
ANCHOR	
10' perf	5031
1' C.O.	5032
Alpine Recorder	5035
62' D.P.	5094
1' C.O.	5095
T.C.	
DEPTH	
20' perf	5115
AK-1 Recorder	5117
BULLNOSE 5'	
T.D.	5120

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 8427

Well Name & No. <u>Jones-Wadner #A-1</u>	Test No. <u>1</u>	Date <u>3-6-96</u>
Company <u>Helmrich+Payne Inc.</u>	Zone Tested <u>Merrom Lm</u>	
Address <u>PO Box 558 Garden City, Ks. 67846</u>	Elevation <u>3000</u>	KB <u>2989</u> GL
Co. Rep / Geo. <u>Wes Hansen</u>	Cont. <u>Cheyenne Hg Rig #1</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>7</u>	Twp. <u>27s</u>	Rge. <u>34w</u> Co. <u>Haskell</u> State <u>Ks</u>
No. of Copies <u>normal</u>	Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) <u>N</u>

Interval Tested <u>5020 to 5120</u>	Initial Str Wt./Lbs. <u>105000</u>	Unseated Str Wt./Lbs. <u>106000</u>
Anchor Length <u>100'</u>	Wt. Set Lbs. <u>22000</u>	Wt. Pulled Loose/Lbs. <u>138000</u>
Top Packer Depth <u>5015</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Bottom Packer Depth <u>5020</u>	Wt. Pipe I.D. — 2.7 Ft. Run _____	
Total Depth <u>5120</u>	Drill Collar — 2.25 Ft. Run <u>1657</u>	
Mud Wt. <u>9.2</u> LCM <u>2#</u> Vis. <u>45</u> Wt. <u>9.6</u>	Drill Pipe Size <u>4 1/2 X 1 3/8</u> I.D. Ft. Run <u>4401</u>	

Blow Description I.F. - Built steadily to B.O.B. in 10 min  
I.S.I. - Bled off, no blow back  
E.F. - B.O.B. in 2 min, steady throughout  
E.S.I. - Blew back in 1', died after 12 min

Recovery — Total Feet	Ft. in DC	Ft. in WP	Ft. in DP
Rec. <u>200</u> Feet Of <u>30M</u>	<u>300</u>	<u>10</u> %gas <u>20</u> %oil	<u>70</u> %water <u>70</u> %mud
Rec. <u>100</u> Feet Of <u>MOG</u>		<u>50</u> %gas <u>30</u> %oil	<u>20</u> %water <u>20</u> %mud
Rec. _____ Feet Of _____		%gas %oil	%water %mud
Rec. _____ Feet Of _____		%gas %oil	%water %mud
Rec. _____ Feet Of _____		%gas %oil	%water %mud

BHT 123 °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API

RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 1800 ppm System

(A) Initial Hydrostatic Mud <u>2382</u> <u>2447</u> PSI	Recorder No. <u>2350</u>	T-Started <u>0600</u>
(B) First Initial Flow Pressure <u>42</u> <u>120</u> PSI	@ (depth) <u>50.35</u>	T-Open <u>1027</u>
(C) First Final Flow Pressure <u>78</u> <u>120</u> PSI	Recorder No. <u>11086</u>	T-Pulled <u>1450</u>
(D) Initial Shut-in Pressure <u>1638</u> <u>1619</u> PSI	@ (depth) <u>5117</u>	T-Out <u>2030</u>
(E) Second Initial Flow Pressure <u>87</u> <u>152</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>154</u> <u>185</u> PSI	@ (depth) _____	
(G) Final Shut-in Pressure <u>1654</u> <u>1673</u> PSI	Initial Opening <u>20</u>	Test <u>conventional 700</u>
(H) Final Hydrostatic Mud <u>2370</u> <u>2414</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>

*Alpine Mechanical*

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 Mike [Signature]

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 (5)

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. #8427 Date 3-6-96  
Company Name Helmrich & Payne Inc.  
Lease Jones-Ladner #A-1 Test No. #1 - (Morrow Lm)  
County Haskell Co., Ks Sec. 7 Twp. 27s Rng. 34w

### SAMPLER RECOVERY

Gas 2400 ML  
Oil 1000 ML  
Mud 600 ML  
Water \_\_\_\_\_ ML  
Other \_\_\_\_\_ ML  
Pressure 100 PSI / 1.6 cubic ft PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 1800 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 45  
Mud Weight 9.2  
Filtrate 9-6  
Other 2# LCM

### SAMPLER ANALYSIS

Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

TOP  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

MIDDLE  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.

BOTTOM  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Chlorides \_\_\_\_\_ ppm.