

**WELL NAME:** Lewis A #1  
**COMPANY:** Robinson Oil Co  
**LOCATION:** 8-26S-19W  
Edwards County Kansas  
**DATE:** 06/24/97

TRILOBITE TESTING L.L.C.

OPERATOR : Robinson Oil Co.  
 WELL NAME: Lewis A #1  
 LOCATION : Sec.08 Twp.26s Rge.19w Ks  
 INTERVAL : 4196.00 To 4240.00 ft

DATE 06-18-97

KB 2245.00 ft TICKET NO: 10051 DST #1  
 GR 2237.00 ft FORMATION: Lans B-C  
 TD 4240.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	3030			PF Fr. 0813 to 0843 hr
SI 60 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0843 to 0943 hr
SF 60 Clock(hrs)	12hr.	12hr.	Elec.			SF Fr. 0943 to 1043 hr
FS 90 Depth(ft )	4237.0	4237.0	4207.0	0.0	0.0	FS Fr. 1043 to 1213 hr

	Field	1	2	3	4	
A. Init Hydro	2085.0	2093.0	2087.0	0.0	0.0	T STARTED 0622 hr
B. First Flow	110.0	105.0	29.0	0.0	0.0	T ON BOTM 0810 hr
B1. Final Flow	116.0	113.0	43.0	0.0	0.0	T OPEN 0813 hr
C. In Shut-in	1463.0	1447.0	1449.0	0.0	0.0	T PULLED 1215 hr
D. Init Flow	121.0	126.0	53.0	0.0	0.0	T OUT 1400 hr
E. Final Flow	148.0	133.0	68.0	0.0	0.0	
F. Fl Shut-in	1463.0	1437.0	1448.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2069.0	2087.0	2048.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 47000.00 lbs
						Initial Str Wt 42000.00 lbs
						Unseated Str Wt 43000.00 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 4170.00 ft

RECOVERY

Tot Fluid 100.00 ft of 30.00 ft in DC and 70.00 ft in DP  
 40.00 ft of Slight Oil Cut Watery Mud  
 0.00 ft of 1%o 34%w 65%  
 60.00 ft of Muddy Water with Oil specs  
 0.00 ft of 12%  
 0.00 ft of 12%  
 0.00 ft of  
 0.00 ft of Rw .19 ohms @76 ddegrees F.  
 0.00 ft of EST. FT. OF PAY-----8  
 SALINITY 68000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	47.00 S/L
W.L.	12.80 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	3.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased Y	3.00 ft
Tester	Gary Pevoteaux
Co. Rep.	Tom Williams
Contr.	Discovery Drlg.
Rig #	1
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow:  
 Weak blow ( 1/2 - 2 1/2")

Initial Shut In:  
 No blow

Final Flow:  
 Weak blow. (1/2 - 2")

Final Shut In:  
 No blow

SAMPLES: none  
 SENT TO:Caraway / Liberal Ks

Test Successful: Y



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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10051 DST#1 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/18/97                      TIME: 06:22:00  
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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	108.00	2087.4	0.0	115.69		
***** Start Flow 1	0.00	29.5	0.0	115.71		
	0.50	29.7	0.3	115.70		
	1.00	31.0	1.5	115.68		
	1.50	31.6	2.1	115.64		
	2.00	30.8	1.3	115.59		
	2.50	31.3	1.9	115.55		
	3.00	31.8	2.3	115.50		
	3.50	32.1	2.7	115.46		
	4.00	32.5	3.0	115.43		
	4.50	32.8	3.4	115.39		
	5.00	33.2	3.7	115.37		
	5.50	33.5	4.1	115.35		
	6.00	33.9	4.4	115.33		
	6.50	34.3	4.8	115.31		
	7.00	34.6	5.1	115.30		
	7.50	36.7	7.2	115.28		
	8.00	37.7	8.3	115.28		
	8.50	37.9	8.5	115.27		
	9.00	38.2	8.7	115.27		
	9.50	38.3	8.8	115.27		
	10.00	38.4	9.0	115.27		
	10.50	38.6	9.1	115.28		
	11.00	38.8	9.3	115.28		
	11.50	38.9	9.4	115.29		
	12.00	39.1	9.6	115.30		
	12.50	39.2	9.7	115.31		
	13.00	39.3	9.8	115.32		
	13.50	39.4	10	115.34		
	14.00	39.4	10	115.36		
	14.50	39.5	10.0	115.38		
	15.00	39.7	10.2	115.40		
	15.50	39.8	10.3	115.43		
	16.00	39.9	10.4	115.45		
	16.50	40.2	10.7	115.48		
	17.00	40.4	11.0	115.51		
	17.50	40.5	11.1	115.54		
	18.00	40.7	11.3	115.57		
	18.50	40.9	11.4	115.60		
	19.00	40.6	11.1	115.64		
	19.50	40.6	11.1	115.68		
	20.00	40.7	11.3	115.72		
	20.50	40.9	11.5	115.76		
	21.00	41.0	11.5	115.80		
	21.50	41.1	11.6	115.84		
	22.00	41.2	11.7	115.88		
	22.50	41.3	11.8	115.92		
	23.00	41.4	11.9	115.97		
	23.50	41.4	12.0	116.02		
	24.00	41.5	12.0	116.07		
	24.50	41.7	12.2	116.12		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10051 DST#1 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/18/97

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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	41.7	12.3	116.17		
	25.50	41.8	12.4	116.22		
	26.00	41.9	12.4	116.27		
	26.50	42.0	12.5	116.33		
	27.00	42.0	12.6	116.38		
	27.50	42.2	12.7	116.43		
	28.00	42.3	12.8	116.49		
	28.50	42.3	12.9	116.55		
	29.00	42.4	13.0	116.59		
	29.50	42.5	13.1	116.66		
	30.00	42.6	13.2	116.72		
	30.50	42.7	13.3	116.78		
*****	End Flow 1	31.00	42.8	13.3	116.84	
*****	Start Shutin 1	0.00	42.8	0.0	116.84	0.0000
	0.50	47.1	4.3	116.89	63.0000	0.002
	1.00	54.9	12.1	116.96	32.0000	0.003
	1.50	64.7	21.8	117.02	21.6667	0.004
	2.00	77.4	34.6	117.07	16.5000	0.006
	2.50	94.3	51.5	117.14	13.4000	0.009
	3.00	117.5	74.7	117.20	11.3333	0.014
	3.50	151.2	108.4	117.26	9.8571	0.023
	4.00	202.9	160.1	117.33	8.7500	0.041
	4.50	284.9	242.1	117.40	7.8889	0.081
	5.00	412.1	369.3	117.47	7.2000	0.170
	5.50	580.7	537.9	117.54	6.6364	0.337
	6.00	745.3	702.5	117.62	6.1667	0.555
	6.50	876.7	833.9	117.70	5.7692	0.769
	7.00	970.3	927.5	117.79	5.4286	0.942
	7.50	1040.4	997.6	117.88	5.1333	1.082
	8.00	1093.9	1051.1	117.97	4.8750	1.197
	8.50	1136.3	1093.5	118.06	4.6471	1.291
	9.00	1170.6	1127.8	118.15	4.4444	1.370
	9.50	1199.2	1156.4	118.25	4.2632	1.438
	10.00	1223.3	1180.5	118.33	4.1000	1.496
	10.50	1243.8	1201.0	118.42	3.9524	1.547
	11.00	1261.5	1218.7	118.51	3.8182	1.591
	11.50	1276.9	1234.1	118.59	3.6957	1.630
	12.00	1290.3	1247.5	118.68	3.5833	1.665
	12.50	1302.1	1259.3	118.76	3.4800	1.696
	13.00	1312.6	1269.8	118.84	3.3846	1.723
	13.50	1321.9	1279.1	118.92	3.2963	1.747
	14.00	1330.2	1287.4	119.00	3.2143	1.770
	14.50	1337.8	1295.0	119.08	3.1379	1.790
	15.00	1344.6	1301.8	119.15	3.0667	1.808
	15.50	1350.8	1308.0	119.22	3.0000	1.825
	16.00	1356.4	1313.6	119.30	2.9375	1.840
	16.50	1361.5	1318.7	119.37	2.8788	1.854
	17.00	1366.2	1323.4	119.44	2.8235	1.867
	17.50	1370.6	1327.8	119.51	2.7714	1.879
	18.00	1374.6	1331.8	119.58	2.7222	1.890
	18.50	1378.4	1335.6	119.65	2.6757	1.900

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10051 DST#1 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/18/97

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.00	1381.8	1339.0	119.71	2.6316	1.909
19.50	1385.0	1342.2	119.78	2.5897	1.918
20.00	1388.0	1345.2	119.85	2.5500	1.927
20.50	1390.8	1348.0	119.91	2.5122	1.934
21.00	1393.5	1350.7	119.98	2.4762	1.942
21.50	1395.9	1353.1	120.04	2.4419	1.949
22.00	1398.3	1355.5	120.10	2.4091	1.955
22.50	1400.4	1357.6	120.16	2.3778	1.961
23.00	1402.5	1359.6	120.22	2.3478	1.967
23.50	1404.4	1361.6	120.28	2.3191	1.972
24.00	1406.3	1363.5	120.34	2.2917	1.978
24.50	1408.0	1365.2	120.39	2.2653	1.983
25.00	1409.6	1366.8	120.45	2.2400	1.987
25.50	1411.1	1368.3	120.51	2.2157	1.991
26.00	1412.6	1369.8	120.56	2.1923	1.996
26.50	1414.1	1371.3	120.62	2.1698	2.000
27.00	1415.5	1372.7	120.67	2.1481	2.004
27.50	1416.8	1374.0	120.72	2.1273	2.007
28.00	1418.1	1375.3	120.77	2.1071	2.011
28.50	1419.3	1376.5	120.83	2.0877	2.014
29.00	1420.4	1377.6	120.87	2.0690	2.017
29.50	1421.5	1378.7	120.93	2.0508	2.021
30.00	1422.5	1379.7	120.97	2.0333	2.024
30.50	1423.5	1380.7	121.02	2.0164	2.026
31.00	1424.5	1381.7	121.07	2.0000	2.029
31.50	1425.4	1382.6	121.12	1.9841	2.032
32.00	1426.3	1383.5	121.16	1.9688	2.034
32.50	1427.1	1384.3	121.21	1.9538	2.037
33.00	1427.9	1385.1	121.25	1.9394	2.039
33.50	1428.7	1385.9	121.29	1.9254	2.041
34.00	1429.4	1386.6	121.34	1.9118	2.043
34.50	1430.2	1387.4	121.38	1.8986	2.045
35.00	1430.9	1388.1	121.43	1.8857	2.047
35.50	1431.6	1388.7	121.47	1.8732	2.049
36.00	1432.3	1389.4	121.51	1.8611	2.051
36.50	1432.9	1390.1	121.55	1.8493	2.053
37.00	1433.5	1390.7	121.59	1.8378	2.055
37.50	1434.1	1391.3	121.63	1.8267	2.057
38.00	1434.7	1391.9	121.66	1.8158	2.058
38.50	1435.3	1392.5	121.70	1.8052	2.060
39.00	1435.8	1393.0	121.74	1.7949	2.061
39.50	1436.3	1393.5	121.78	1.7848	2.063
40.00	1436.8	1394.0	121.81	1.7750	2.064
40.50	1437.2	1394.4	121.84	1.7654	2.066
41.00	1437.7	1394.9	121.89	1.7561	2.067
41.50	1438.2	1395.4	121.92	1.7470	2.068
42.00	1438.6	1395.8	121.95	1.7381	2.070
42.50	1439.1	1396.3	121.99	1.7294	2.071
43.00	1439.5	1396.7	122.01	1.7209	2.072
43.50	1439.9	1397.1	122.05	1.7126	2.073
44.00	1440.3	1397.5	122.08	1.7045	2.075

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
44.50	1440.7	1397.9	122.11	1.6966	2.076
45.00	1441.1	1398.3	122.15	1.6889	2.077
45.50	1441.4	1398.6	122.18	1.6813	2.078
46.00	1441.8	1399.0	122.20	1.6739	2.079
46.50	1442.1	1399.3	122.23	1.6667	2.080
47.00	1442.4	1399.6	122.27	1.6596	2.081
47.50	1442.8	1400.0	122.30	1.6526	2.082
48.00	1443.1	1400.3	122.32	1.6458	2.082
48.50	1443.3	1400.5	122.35	1.6392	2.083
49.00	1443.7	1400.9	122.38	1.6327	2.084
49.50	1443.9	1401.1	122.41	1.6263	2.085
50.00	1444.2	1401.4	122.44	1.6200	2.086
50.50	1444.5	1401.7	122.47	1.6139	2.087
51.00	1444.7	1401.9	122.49	1.6078	2.087
51.50	1445.0	1402.2	122.51	1.6019	2.088
52.00	1445.3	1402.5	122.54	1.5962	2.089
52.50	1445.6	1402.7	122.57	1.5905	2.090
53.00	1445.8	1403.0	122.59	1.5849	2.090
53.50	1446.1	1403.3	122.61	1.5794	2.091
54.00	1446.3	1403.5	122.64	1.5741	2.092
54.50	1446.5	1403.7	122.67	1.5688	2.092
55.00	1446.8	1404.0	122.69	1.5636	2.093
55.50	1447.0	1404.2	122.72	1.5586	2.094
56.00	1447.1	1404.3	122.74	1.5536	2.094
56.50	1447.4	1404.6	122.76	1.5487	2.095
57.00	1447.6	1404.8	122.78	1.5439	2.095
57.50	1447.8	1405.0	122.81	1.5391	2.096
58.00	1448.0	1405.2	122.83	1.5345	2.097
58.50	1448.2	1405.4	122.86	1.5299	2.097
59.00	1448.3	1405.5	122.87	1.5254	2.098
59.50	1448.6	1405.8	122.90	1.5210	2.098
60.00	1448.7	1405.9	122.92	1.5167	2.099
60.50	1448.9	1406.1	122.94	1.5124	2.099
***** End Shut-in 1					
***** Start Flow 2					
0.00	52.5	0.0	122.96		
0.50	50.7	-1.8	122.95		
1.00	50.8	-1.8	122.94		
1.50	51.2	-1.3	122.92		
2.00	51.4	-1.2	122.90		
2.50	51.6	-0.9	122.89		
3.00	51.8	-0.8	122.87		
3.50	52.1	-0.5	122.86		
4.00	52.2	-0.3	122.85		
4.50	52.5	-0.1	122.85		
5.00	52.7	0.2	122.85		
5.50	52.9	0.4	122.84		
6.00	53.0	0.5	122.85		
6.50	53.2	0.6	122.85		
7.00	53.5	1	122.86		
7.50	53.6	1.0	122.87		
8.00	53.9	1.3	122.88		
8.50	54.1	1.5	122.89		

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9.00	54.2	1.6	122.90		
9.50	54.4	1.9	122.92		
10.00	54.5	2.0	122.93		
10.50	54.7	2.2	122.95		
11.00	54.9	2.4	122.96		
11.50	55.1	2.5	122.98		
12.00	55.2	2.7	122.99		
12.50	55.4	2.8	123.02		
13.00	55.6	3.0	123.04		
13.50	55.6	3.1	123.06		
14.00	55.8	3.3	123.08		
14.50	56.1	3.5	123.10		
15.00	56.1	3.6	123.13		
15.50	56.3	3.8	123.15		
16.00	56.5	3.9	123.17		
16.50	56.7	4.1	123.20		
17.00	56.8	4.3	123.22		
17.50	56.9	4.4	123.25		
18.00	57.1	4.6	123.28		
18.50	57.3	4.7	123.31		
19.00	57.4	4.9	123.34		
19.50	57.6	5.0	123.36		
20.00	57.7	5.2	123.39		
20.50	57.8	5.3	123.42		
21.00	58.0	5.5	123.46		
21.50	58.1	5.6	123.49		
22.00	58.3	5.8	123.52		
22.50	58.4	5.9	123.55		
23.00	58.5	6.0	123.58		
23.50	58.7	6.2	123.61		
24.00	58.8	6.3	123.64		
24.50	58.9	6.4	123.68		
25.00	59.1	6.6	123.72		
25.50	59.2	6.7	123.75		
26.00	59.3	6.8	123.78		
26.50	59.5	6.9	123.82		
27.00	59.6	7.0	123.86		
27.50	59.7	7.1	123.90		
28.00	59.8	7.2	123.93		
28.50	59.9	7.4	123.97		
29.00	60.0	7.5	124.01		
29.50	60.1	7.6	124.05		
30.00	60.2	7.7	124.09		
30.50	60.4	7.9	124.12		
31.00	60.4	7.9	124.16		
31.50	60.6	8.1	124.20		
32.00	60.7	8.2	124.24		
32.50	60.8	8.3	124.28		
33.00	60.8	8.3	124.32		
33.50	60.9	8.4	124.35		
34.00	61.1	8.6	124.39		

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34.50	61.2	8.6	124.43		
35.00	61.3	8.8	124.47		
35.50	61.4	8.9	124.51		
36.00	61.5	9.0	124.55		
36.50	61.6	9.1	124.59		
37.00	61.7	9.2	124.63		
37.50	61.8	9.3	124.68		
38.00	61.9	9.4	124.71		
38.50	62.0	9.5	124.75		
39.00	62.1	9.6	124.80		
39.50	62.2	9.7	124.83		
40.00	62.3	9.8	124.87		
40.50	62.5	10	124.91		
41.00	62.6	10.0	124.96		
41.50	62.7	10.2	125.00		
42.00	62.8	10.3	125.03		
42.50	62.9	10.4	125.08		
43.00	63.0	10.5	125.12		
43.50	63.1	10.6	125.16		
44.00	63.3	10.7	125.20		
44.50	63.3	10.8	125.25		
45.00	63.5	10.9	125.29		
45.50	63.6	11.1	125.33		
46.00	63.7	11.2	125.36		
46.50	63.9	11.3	125.41		
47.00	64.0	11.4	125.44		
47.50	64.0	11.5	125.49		
48.00	64.1	11.6	125.53		
48.50	64.3	11.8	125.57		
49.00	64.4	11.9	125.61		
49.50	64.5	12.0	125.65		
50.00	64.7	12.2	125.69		
50.50	64.9	12.3	125.73		
51.00	64.9	12.3	125.77		
51.50	65.0	12.5	125.81		
52.00	65.2	12.7	125.85		
52.50	65.3	12.8	125.89		
53.00	65.5	12.9	125.93		
53.50	65.5	13.0	125.97		
54.00	65.7	13.2	126.01		
54.50	65.8	13.2	126.05		
55.00	66.0	13.4	126.09		
55.50	66.1	13.5	126.13		
56.00	66.2	13.7	126.17		
56.50	66.3	13.8	126.21		
57.00	66.5	13.9	126.24		
57.50	66.6	14.1	126.28		
58.00	67.9	15.3	126.32		
***** End Flow 2					
***** Start Shutin 2	0.00	67.9	0.0	126.32	0.0000
	0.50	74.3	6.4	126.36	179.0000
	1.00	82.0	14.2	126.40	90.0000
					0.005
					0.006
					0.007

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 10051 DST#1 LEWIS A #1 ROBINSON OIL CO.  
 DATE: 06/18/97 TIME: 06:22:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
1.50	91.4	23.5	126.44	60.3333	0.008
2.00	102.4	34.5	126.47	45.5000	0.010
2.50	115.7	47.8	126.51	36.6000	0.013
3.00	131.9	64.0	126.55	30.6667	0.017
3.50	152.0	84.1	126.59	26.4286	0.023
4.00	177.2	109.3	126.63	23.2500	0.031
4.50	209.8	141.9	126.66	20.7778	0.044
5.00	252.6	184.7	126.71	18.8000	0.064
5.50	309.3	241.4	126.75	17.1818	0.096
6.00	384.3	316.5	126.79	15.8333	0.148
6.50	479.9	412.0	126.83	14.6923	0.230
7.00	592.5	524.6	126.88	13.7143	0.351
7.50	710.4	642.6	126.93	12.8667	0.505
8.00	819.7	751.8	126.98	12.1250	0.672
8.50	910.2	842.3	127.04	11.4706	0.828
9.00	982.8	914.9	127.10	10.8889	0.966
9.50	1040.4	972.5	127.15	10.3684	1.082
10.00	1086.6	1018.8	127.20	9.9000	1.181
10.50	1124.4	1056.5	127.27	9.4762	1.264
11.00	1155.7	1087.8	127.32	9.0909	1.336
11.50	1182.0	1114.1	127.38	8.7391	1.397
12.00	1204.6	1136.7	127.43	8.4167	1.451
12.50	1224.0	1156.2	127.49	8.1200	1.498
13.00	1241.0	1173.1	127.54	7.8462	1.540
13.50	1256.0	1188.1	127.59	7.5926	1.577
14.00	1269.2	1201.3	127.64	7.3571	1.611
14.50	1281.0	1213.1	127.69	7.1379	1.641
15.00	1291.6	1223.7	127.73	6.9333	1.668
15.50	1301.1	1233.3	127.78	6.7419	1.693
16.00	1309.6	1241.7	127.82	6.5625	1.715
16.50	1317.6	1249.7	127.86	6.3939	1.736
17.00	1324.7	1256.8	127.91	6.2353	1.755
17.50	1331.2	1263.3	127.95	6.0857	1.772
18.00	1337.2	1269.3	127.99	5.9444	1.788
18.50	1342.8	1274.9	128.03	5.8108	1.803
19.00	1347.8	1280.0	128.06	5.6842	1.817
19.50	1352.6	1284.7	128.10	5.5641	1.829
20.00	1356.9	1289.1	128.13	5.4500	1.841
20.50	1361.0	1293.1	128.17	5.3415	1.852
21.00	1364.8	1297.0	128.20	5.2381	1.863
21.50	1368.4	1300.5	128.23	5.1395	1.873
22.00	1371.7	1303.8	128.27	5.0455	1.881
22.50	1374.8	1306.9	128.30	4.9556	1.890
23.00	1377.8	1309.9	128.33	4.8696	1.898
23.50	1380.5	1312.6	128.36	4.7872	1.906
24.00	1383.0	1315.1	128.40	4.7083	1.913
24.50	1385.5	1317.6	128.42	4.6327	1.920
25.00	1387.8	1319.9	128.45	4.5600	1.926
25.50	1389.9	1322.0	128.48	4.4902	1.932
26.00	1392.0	1324.2	128.51	4.4231	1.938
26.50	1394.0	1326.1	128.53	4.3585	1.943

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10051 DST#1 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/18/97

TIME: 06:22:00

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
27.00	1395.8	1327.9	128.56	4.2963	1.948
27.50	1397.6	1329.7	128.59	4.2364	1.953
28.00	1399.2	1331.3	128.62	4.1786	1.958
28.50	1400.8	1333.0	128.64	4.1228	1.962
29.00	1402.4	1334.5	128.67	4.0690	1.967
29.50	1403.8	1335.9	128.69	4.0169	1.971
30.00	1405.2	1337.3	128.71	3.9667	1.974
30.50	1406.4	1338.6	128.74	3.9180	1.978
31.00	1407.8	1339.9	128.76	3.8710	1.982
31.50	1409.0	1341.1	128.78	3.8254	1.985
32.00	1410.1	1342.2	128.81	3.7812	1.988
32.50	1411.3	1343.4	128.83	3.7385	1.992
33.00	1412.3	1344.4	128.85	3.6970	1.995
33.50	1413.3	1345.4	128.87	3.6567	1.997
34.00	1414.3	1346.5	128.89	3.6176	2.000
34.50	1415.2	1347.4	128.92	3.5797	2.003
35.00	1416.2	1348.3	128.93	3.5429	2.005
35.50	1417.0	1349.1	128.95	3.5070	2.008
36.00	1417.9	1350.0	128.97	3.4722	2.010
36.50	1418.7	1350.8	128.99	3.4384	2.013
37.00	1419.4	1351.6	129.01	3.4054	2.015
37.50	1420.3	1352.4	129.02	3.3733	2.017
38.00	1421.0	1353.1	129.04	3.3421	2.019
38.50	1421.7	1353.8	129.06	3.3117	2.021
39.00	1422.4	1354.5	129.08	3.2821	2.023
39.50	1423.0	1355.1	129.09	3.2532	2.025
40.00	1423.7	1355.8	129.11	3.2250	2.027
40.50	1424.3	1356.4	129.12	3.1975	2.029
41.00	1425.0	1357.1	129.14	3.1707	2.031
41.50	1425.5	1357.6	129.15	3.1446	2.032
42.00	1426.1	1358.2	129.17	3.1190	2.034
42.50	1426.6	1358.7	129.18	3.0941	2.035
43.00	1427.1	1359.2	129.20	3.0698	2.037
43.50	1427.6	1359.8	129.21	3.0460	2.038
44.00	1428.2	1360.4	129.22	3.0227	2.040
44.50	1428.7	1360.8	129.24	3.0000	2.041
45.00	1429.2	1361.3	129.25	2.9778	2.043
45.50	1429.7	1361.8	129.27	2.9560	2.044
46.00	1430.1	1362.2	129.28	2.9348	2.045
46.50	1430.5	1362.6	129.29	2.9140	2.046
47.00	1430.9	1363.0	129.30	2.8936	2.048
47.50	1431.4	1363.5	129.31	2.8737	2.049
48.00	1431.8	1363.9	129.33	2.8542	2.050
48.50	1432.2	1364.3	129.34	2.8351	2.051
49.00	1432.5	1364.7	129.35	2.8163	2.052
49.50	1432.9	1365.0	129.36	2.7980	2.053
50.00	1433.3	1365.4	129.37	2.7800	2.054
50.50	1433.7	1365.8	129.39	2.7624	2.056
51.00	1434.0	1366.1	129.40	2.7451	2.056
51.50	1434.3	1366.4	129.41	2.7282	2.057
52.00	1434.7	1366.8	129.42	2.7115	2.058

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10051 DST#1 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/18/97

TIME: 06:22:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
52.50	1435.0	1367.2	129.43	2.6952	2.059
53.00	1435.3	1367.4	129.44	2.6792	2.060
53.50	1435.6	1367.7	129.45	2.6636	2.061
54.00	1436.0	1368.1	129.47	2.6481	2.062
54.50	1436.2	1368.3	129.47	2.6330	2.063
55.00	1436.5	1368.6	129.48	2.6182	2.063
55.50	1436.8	1368.9	129.50	2.6036	2.064
56.00	1437.1	1369.2	129.50	2.5893	2.065
56.50	1437.3	1369.4	129.51	2.5752	2.066
57.00	1437.6	1369.7	129.52	2.5614	2.067
57.50	1437.9	1370.0	129.53	2.5478	2.067
58.00	1438.1	1370.2	129.54	2.5345	2.068
58.50	1438.4	1370.5	129.55	2.5214	2.069
59.00	1438.6	1370.8	129.56	2.5085	2.070
59.50	1438.8	1370.9	129.57	2.4958	2.070
60.00	1439.0	1371.2	129.58	2.4833	2.071
60.50	1439.4	1371.5	129.59	2.4711	2.072
61.00	1439.6	1371.7	129.59	2.4590	2.072
61.50	1439.7	1371.9	129.60	2.4472	2.073
62.00	1440.0	1372.1	129.60	2.4355	2.073
62.50	1440.2	1372.3	129.61	2.4240	2.074
63.00	1440.4	1372.5	129.62	2.4127	2.075
63.50	1440.6	1372.7	129.63	2.4016	2.075
64.00	1440.8	1372.9	129.63	2.3906	2.076
64.50	1441.0	1373.1	129.64	2.3798	2.076
65.00	1441.1	1373.3	129.65	2.3692	2.077
65.50	1441.4	1373.5	129.66	2.3588	2.078
66.00	1441.5	1373.7	129.66	2.3485	2.078
66.50	1441.7	1373.8	129.67	2.3383	2.078
67.00	1441.9	1374.0	129.68	2.3284	2.079
67.50	1442.1	1374.2	129.69	2.3185	2.080
68.00	1442.3	1374.4	129.69	2.3088	2.080
68.50	1442.4	1374.6	129.69	2.2993	2.081
69.00	1442.6	1374.7	129.70	2.2899	2.081
69.50	1442.8	1374.9	129.70	2.2806	2.082
70.00	1442.9	1375.0	129.71	2.2714	2.082
70.50	1443.1	1375.3	129.72	2.2624	2.083
71.00	1443.3	1375.4	129.72	2.2535	2.083
71.50	1443.4	1375.5	129.73	2.2448	2.083
72.00	1443.6	1375.7	129.73	2.2361	2.084
72.50	1443.7	1375.8	129.74	2.2276	2.084
73.00	1443.8	1376.0	129.75	2.2192	2.085
73.50	1444.0	1376.1	129.75	2.2109	2.085
74.00	1444.2	1376.3	129.76	2.2027	2.086
74.50	1444.3	1376.4	129.76	2.1946	2.086
75.00	1444.4	1376.5	129.77	2.1867	2.086
75.50	1444.6	1376.7	129.78	2.1788	2.087
76.00	1444.7	1376.8	129.78	2.1711	2.087
76.50	1444.8	1376.9	129.78	2.1634	2.087
77.00	1444.9	1377.1	129.79	2.1558	2.088
77.50	1445.1	1377.3	129.79	2.1484	2.088

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10051 DST#1 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/18/97

TIME: 06:22:00

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	78.00	1445.2	1377.3	129.80	2.1410	2.089
	78.50	1445.3	1377.4	129.80	2.1338	2.089
	79.00	1445.4	1377.6	129.81	2.1266	2.089
	79.50	1445.6	1377.7	129.82	2.1195	2.090
	80.00	1445.7	1377.8	129.82	2.1125	2.090
	80.50	1445.8	1377.9	129.82	2.1056	2.090
	81.00	1445.9	1378.0	129.83	2.0988	2.091
	81.50	1446.0	1378.1	129.83	2.0920	2.091
	82.00	1446.1	1378.3	129.84	2.0854	2.091
	82.50	1446.3	1378.4	129.84	2.0788	2.092
	83.00	1446.4	1378.5	129.85	2.0723	2.092
	83.50	1446.5	1378.6	129.85	2.0659	2.092
	84.00	1446.6	1378.7	129.85	2.0595	2.093
	84.50	1446.7	1378.8	129.86	2.0533	2.093
	85.00	1446.8	1378.9	129.86	2.0471	2.093
	85.50	1446.9	1379.1	129.86	2.0409	2.094
	86.00	1447.0	1379.1	129.87	2.0349	2.094
	86.50	1447.1	1379.2	129.87	2.0289	2.094
	87.00	1447.2	1379.3	129.87	2.0230	2.094
	87.50	1447.3	1379.5	129.88	2.0171	2.095
	88.00	1447.4	1379.5	129.88	2.0114	2.095
	88.50	1447.5	1379.6	129.89	2.0056	2.095
	89.00	1447.6	1379.7	129.89	2.0000	2.096
	89.50	1447.7	1379.8	129.89	1.9944	2.096
	90.00	1447.8	1379.9	129.90	1.9889	2.096
	90.50	1447.9	1380.0	129.90	1.9834	2.096
	91.00	1448.0	1380.1	129.91	1.9780	2.097
***** End Shut-in 2	91.50	1448.1	1380.2	129.91	1.9727	2.097
***** Final Hydro.	353.00	2048.2	0.0	129.86		

# TEST HISTORY

10051 DST#1 LEWIS A #1 ROBINSON OIL CO.

## Flag Points

t (Min.)	P (PSig)
A: 0.00	2087.38
B: 0.00	29.46
C: 31.00	42.80
D: 60.50	1448.87
E: 0.00	52.54
F: 58.00	67.88
G: 91.50	1448.05
Q: 0.00	2048.23

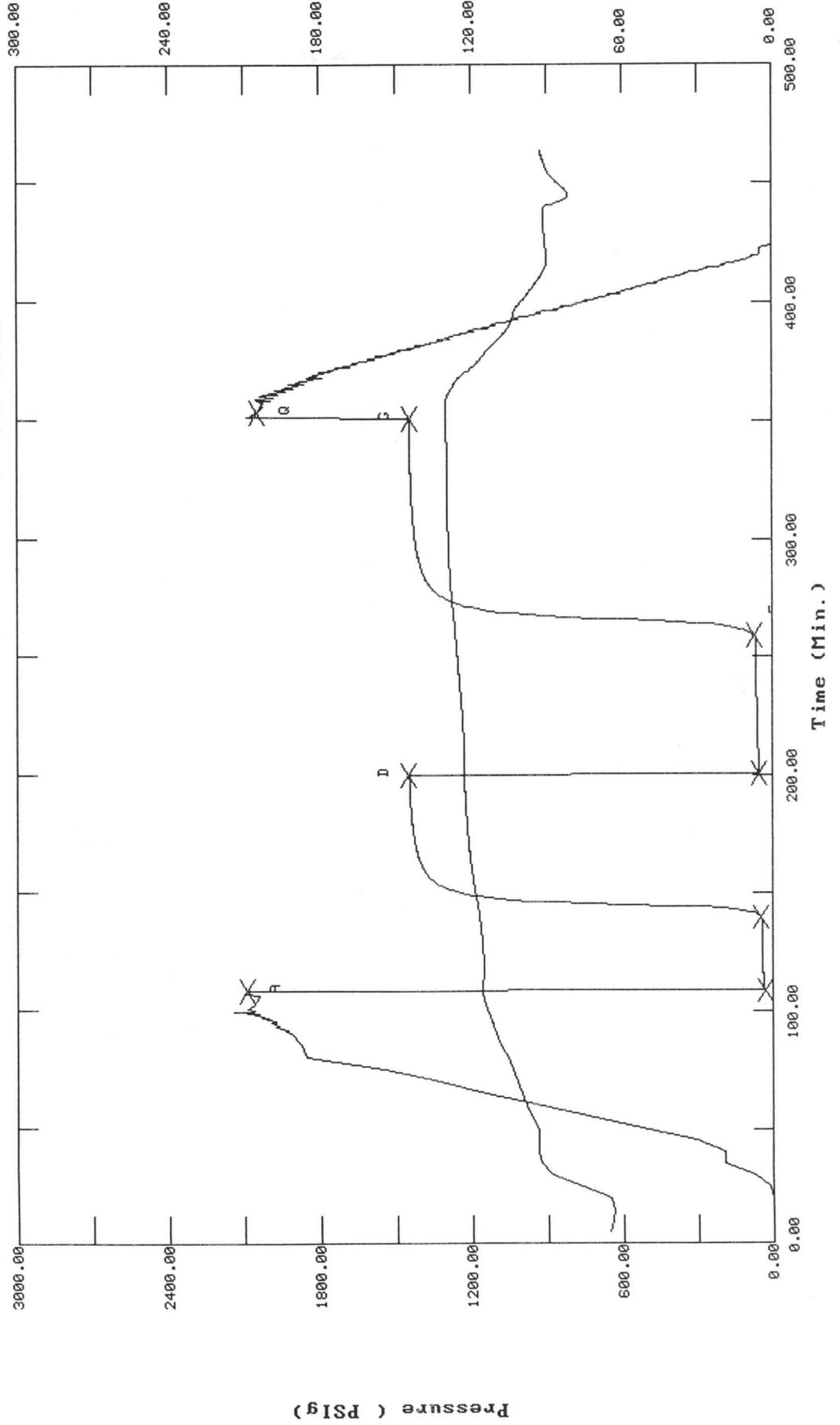
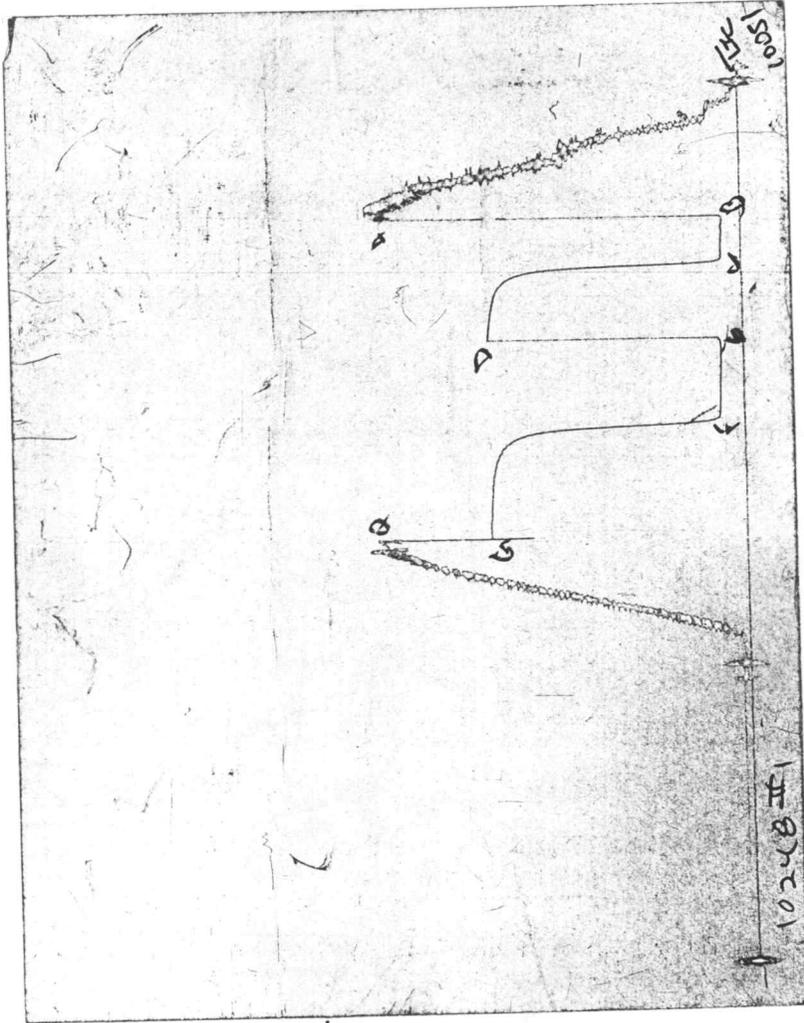


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Robinson Oil Co. DATE 06-19-97  
 WELL NAME: Lewis A #1 KB 2245.00 ft TICKET NO: 10052 DST #2  
 LOCATION : Sec.08 Twp.26s Rge.19w Ks GR 2237.00 ft FORMATION: Lans Drum  
 INTERVAL : 4304.00 To 4322.00 ft TD 4322.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	3030			PF Fr. 0135 to 0205 hr
SI 60 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0205 to 0305 hr
SF 60 Clock(hrs)	12hr.	12hr.	Elec			SF Fr. 0305 to 0405 hr
FS 90 Depth(ft )	4319.0	4319.0	4310.0	0.0	0.0	FS Fr. 0405 to 0535 hr

	Field	1	2	3	4	
A. Init Hydro	2173.0	2233.0	2206.0	0.0	0.0	T STARTED 0003 hr
B. First Flow	71.0	92.0	46.0	0.0	0.0	T ON BOTM 0132 hr
B1. Final Flow	54.0	53.0	53.0	0.0	0.0	T OPEN 0135 hr
C. In Shut-in	1412.0	1425.0	1429.0	0.0	0.0	T PULLED 0538 hr
D. Init Flow	57.0	75.0	62.0	0.0	0.0	T OUT 0750 hr
E. Final Flow	109.0	122.0	120.0	0.0	0.0	
F. Fl Shut-in	1395.0	1408.0	1407.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2140.0	2182.0	2171.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 46000.00 lbs
						Initial Str Wt 40000.00 lbs
						Unseated Str Wt 40000.00 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 4264.00 ft

RECOVERY

Tot Fluid 245.00 ft of 30.00 ft in DC and 70.00 ft in DP  
 120.00 ft of Gas Cut Watery Mud  
 0.00 ft of 15%g 30%w 55%m  
 125.00 ft of Muddy Water  
 0.00 ft of 8%m 92%w  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw .09 ohms @70 dgreees F.  
 0.00 ft of EST. FT. OF PAY-----4  
 SALINITY 95000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Strong blow, bottom of bucket in  
 15 secs, Gas to Surface in 16 mins  
 (See Gas Volume Report)  
 Initial Shut In:  
 No blow  
 Final Flow:  
 Strong blow (See Gas Volume Report)  
 Final Shut In:  
 No blow

SAMPLES: gas sample  
 SENT TO:Caraway / Liberal Ks

Test Successful: Y

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.00 lb/cf  
 Vis. 46.00 S/L  
 W.L. 11.60 in3  
 F.C. 0.20 in  
 Mud Drop N  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 136.00 F  
 Hole Condition Fair  
 % Porosity 12.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00 N  
 Cushion Type None  
 Reversed Out N  
 Tool Chased N  
 Tester Gary Pevoteaux  
 Co. Rep. Tom Williams  
 Contr. Discovery Drlg.  
 Rig # 1  
 Unit #  
 Pump T.





ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97 TIME: 00:03:41

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	87.00	2205.6	0.0	113.81		
***** Start Flow 1	0.00	46.3	0.0	114.32		
	0.50	38.0	-8.4	114.48		
	1.00	34.7	-11.6	114.69		
	1.50	34.6	-11.8	114.96		
	2.00	32.5	-13.8	115.26		
	2.50	33.1	-13.2	115.58		
	3.00	33.5	-12.8	115.93		
	3.50	34.3	-12.1	116.31		
	4.00	33.4	-12.9	116.70		
	4.50	33.9	-12.5	117.10		
	5.00	34.3	-12.1	117.50		
	5.50	34.8	-11.5	117.91		
	6.00	35.2	-11.1	118.31		
	6.50	35.6	-10.8	118.69		
	7.00	35.9	-10.5	119.07		
	7.50	36.2	-10.1	119.44		
	8.00	36.5	-9.8	119.79		
	8.50	36.8	-9.5	120.14		
	9.00	37.2	-9.1	120.47		
	9.50	37.6	-8.7	120.79		
	10.00	37.8	-8.5	121.10		
	10.50	38.1	-8.3	121.39		
	11.00	38.4	-7.9	121.67		
	11.50	38.6	-7.7	121.94		
	12.00	39.1	-7.3	122.20		
	12.50	39.3	-7.0	122.46		
	13.00	39.6	-6.7	122.70		
	13.50	40.0	-6.3	122.94		
	14.00	40.3	-6.0	123.17		
	14.50	40.7	-5.6	123.40		
	15.00	41.3	-5.0	123.62		
	15.50	41.6	-4.7	123.84		
	16.00	41.8	-4.5	124.04		
	16.50	42.1	-4.2	124.25		
	17.00	42.3	-4.0	124.44		
	17.50	43.0	-3.3	124.63		
	18.00	43.2	-3.1	124.82		
	18.50	43.4	-3.0	125.00		
	19.00	44.1	-2.2	125.17		
	19.50	44.4	-1.9	125.34		
	20.00	44.6	-1.7	125.50		
	20.50	45.3	-1.1	125.66		
	21.00	46.1	-0.2	125.82		
	21.50	46.2	-0.1	125.97		
	22.00	46.5	0.1	126.12		
	22.50	47.0	0.7	126.26		
	23.00	47.3	0.9	126.40		
	23.50	47.8	1.5	126.54		
	24.00	48.1	1.8	126.68		
	24.50	49.1	2.8	126.81		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97

TIME: 00:03:41

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	49.4	3.0	126.93		
	25.50	50.0	3.6	127.06		
	26.00	50.2	3.9	127.18		
	26.50	50.6	4.2	127.31		
	27.00	51.0	4.7	127.43		
	27.50	51.5	5.2	127.55		
	28.00	51.6	5.3	127.67		
	28.50	51.9	5.6	127.78		
	29.00	52.6	6.3	127.90		
	29.50	52.8	6.5	128.01		
***** End Flow 1	30.00	53.4	7.1	128.12		
***** Start Shutin 1	0.00	53.4	0.0	128.12	0.0000	0.003
	0.50	89.8	36.4	128.23	61.0000	0.008
	1.00	152.5	99.1	128.34	31.0000	0.023
	1.50	216.1	162.7	128.45	21.0000	0.047
	2.00	280.8	227.4	128.54	16.0000	0.079
	2.50	345.6	292.1	128.63	13.0000	0.119
	3.00	410.0	356.5	128.72	11.0000	0.168
	3.50	473.8	420.4	128.80	9.5714	0.225
	4.00	536.5	483.1	128.87	8.5000	0.288
	4.50	597.4	543.9	128.95	7.6667	0.357
	5.00	653.5	600.1	129.03	7.0000	0.427
	5.50	706.2	652.8	129.12	6.4545	0.499
	6.00	757.7	704.3	129.20	6.0000	0.574
	6.50	806.3	752.9	129.28	5.6154	0.650
	7.00	852.0	798.6	129.36	5.2857	0.726
	7.50	895.8	842.4	129.43	5.0000	0.802
	8.00	936.6	883.1	129.51	4.7500	0.877
	8.50	973.8	920.4	129.58	4.5294	0.948
	9.00	1008.2	954.8	129.64	4.3333	1.016
	9.50	1038.6	985.2	129.70	4.1579	1.079
	10.00	1066.0	1012.6	129.76	4.0000	1.136
	10.50	1091.1	1037.7	129.80	3.8571	1.191
	11.00	1113.9	1060.5	129.85	3.7273	1.241
	11.50	1134.2	1080.7	129.90	3.6087	1.286
	12.00	1152.5	1099.0	129.93	3.5000	1.328
	12.50	1168.9	1115.4	129.96	3.4000	1.366
	13.00	1183.4	1130.0	129.99	3.3077	1.401
	13.50	1196.6	1143.2	130.01	3.2222	1.432
	14.00	1208.3	1154.9	130.03	3.1429	1.460
	14.50	1219.2	1165.7	130.06	3.0690	1.486
	15.00	1228.9	1175.5	130.07	3.0000	1.510
	15.50	1237.6	1184.1	130.09	2.9355	1.532
	16.00	1245.4	1191.9	130.11	2.8750	1.551
	16.50	1252.4	1199.0	130.12	2.8182	1.569
	17.00	1258.9	1205.4	130.14	2.7647	1.585
	17.50	1264.8	1211.4	130.14	2.7143	1.600
	18.00	1270.2	1216.8	130.16	2.6667	1.613
	18.50	1275.2	1221.8	130.16	2.6216	1.626
	19.00	1279.9	1226.4	130.17	2.5789	1.638
	19.50	1284.1	1230.7	130.18	2.5385	1.649

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97

TIME: 00:03:41

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.00	1288.0	1234.5	130.19	2.5000	1.659
20.50	1291.7	1238.3	130.19	2.4634	1.669
21.00	1295.2	1241.8	130.20	2.4286	1.678
21.50	1298.5	1245.1	130.20	2.3953	1.686
22.00	1301.6	1248.1	130.20	2.3636	1.694
22.50	1304.4	1251.0	130.21	2.3333	1.702
23.00	1307.1	1253.7	130.21	2.3043	1.709
23.50	1309.7	1256.3	130.21	2.2766	1.715
24.00	1312.1	1258.7	130.21	2.2500	1.722
24.50	1314.5	1261.1	130.21	2.2245	1.728
25.00	1316.7	1263.3	130.21	2.2000	1.734
25.50	1330.6	1277.1	130.21	2.1765	1.770
26.00	1339.3	1285.9	130.22	2.1538	1.794
26.50	1346.3	1292.9	130.21	2.1321	1.813
27.00	1351.9	1298.4	130.21	2.1111	1.828
27.50	1356.5	1303.0	130.21	2.0909	1.840
28.00	1360.5	1307.0	130.21	2.0714	1.851
28.50	1364.0	1310.5	130.21	2.0526	1.860
29.00	1367.0	1313.6	130.20	2.0345	1.869
29.50	1369.7	1316.3	130.20	2.0169	1.876
30.00	1372.4	1318.9	130.20	2.0000	1.883
30.50	1374.7	1321.3	130.20	1.9836	1.890
31.00	1376.9	1323.4	130.19	1.9677	1.896
31.50	1378.9	1325.5	130.19	1.9524	1.901
32.00	1380.9	1327.5	130.18	1.9375	1.907
32.50	1382.8	1329.3	130.17	1.9231	1.912
33.00	1384.5	1331.1	130.17	1.9091	1.917
33.50	1386.2	1332.7	130.16	1.8955	1.921
34.00	1387.8	1334.3	130.15	1.8824	1.926
34.50	1389.3	1335.9	130.14	1.8696	1.930
35.00	1390.7	1337.3	130.14	1.8571	1.934
35.50	1392.1	1338.7	130.13	1.8451	1.938
36.00	1393.4	1340.0	130.12	1.8333	1.942
36.50	1394.7	1341.3	130.12	1.8219	1.945
37.00	1396.0	1342.6	130.11	1.8108	1.949
37.50	1397.2	1343.8	130.10	1.8000	1.952
38.00	1398.4	1344.9	130.10	1.7895	1.955
38.50	1399.5	1346.1	130.10	1.7792	1.959
39.00	1400.5	1347.1	130.11	1.7692	1.961
39.50	1401.7	1348.3	130.08	1.7595	1.965
40.00	1402.7	1349.3	130.08	1.7500	1.968
40.50	1403.7	1350.3	130.08	1.7407	1.970
41.00	1404.7	1351.3	130.07	1.7317	1.973
41.50	1405.6	1352.2	130.07	1.7229	1.976
42.00	1406.6	1353.2	130.07	1.7143	1.979
42.50	1407.5	1354.0	130.07	1.7059	1.981
43.00	1408.4	1354.9	130.06	1.6977	1.984
43.50	1409.2	1355.8	130.06	1.6897	1.986
44.00	1410.1	1356.7	130.06	1.6818	1.988
44.50	1410.9	1357.5	130.06	1.6742	1.991
45.00	1411.7	1358.2	130.06	1.6667	1.993

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97

TIME: 00:03:41

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
45.50	1412.5	1359.0	130.05	1.6593	1.995
46.00	1413.2	1359.8	130.05	1.6522	1.997
46.50	1413.9	1360.5	130.05	1.6452	1.999
47.00	1414.7	1361.2	130.05	1.6383	2.001
47.50	1415.4	1362.0	130.04	1.6316	2.003
48.00	1416.1	1362.7	130.04	1.6250	2.005
48.50	1416.8	1363.4	130.04	1.6186	2.007
49.00	1417.5	1364.0	130.04	1.6122	2.009
49.50	1418.1	1364.7	130.03	1.6061	2.011
50.00	1418.8	1365.4	130.03	1.6000	2.013
50.50	1419.4	1365.9	130.02	1.5941	2.015
51.00	1420.0	1366.6	130.02	1.5882	2.016
51.50	1420.6	1367.2	130.02	1.5825	2.018
52.00	1421.2	1367.8	130.01	1.5769	2.020
52.50	1421.8	1368.4	130.01	1.5714	2.022
53.00	1422.4	1369.0	130.00	1.5660	2.023
53.50	1423.0	1369.5	130.00	1.5607	2.025
54.00	1423.5	1370.0	130.00	1.5556	2.026
54.50	1424.1	1370.6	130.00	1.5505	2.028
55.00	1424.6	1371.1	129.99	1.5455	2.029
55.50	1425.1	1371.7	129.99	1.5405	2.031
56.00	1425.6	1372.1	129.99	1.5357	2.032
56.50	1426.1	1372.7	129.98	1.5310	2.034
57.00	1426.6	1373.2	129.98	1.5263	2.035
57.50	1427.1	1373.7	129.97	1.5217	2.037
58.00	1427.6	1374.2	129.97	1.5172	2.038
58.50	1428.1	1374.6	129.97	1.5128	2.039
59.00	1428.5	1375.1	129.97	1.5085	2.041
59.50	1429.0	1375.6	129.96	1.5042	2.042
***** End Shut-in 1					
***** Start Flow 2					
0.00	62.2	0.0	129.92		
0.50	64.5	2.3	129.88		
1.00	66.5	4.3	129.84		
1.50	67.7	5.4	129.80		
2.00	68.9	6.7	129.79		
2.50	70.0	7.8	129.79		
3.00	70.7	8.5	129.80		
3.50	71.2	9.0	129.82		
4.00	71.6	9.4	129.84		
4.50	71.9	9.7	129.87		
5.00	72.4	10.2	129.90		
5.50	72.9	10.7	129.94		
6.00	73.4	11.2	129.97		
6.50	73.9	11.7	130.03		
7.00	74.4	12.2	130.08		
7.50	75.0	12.8	130.14		
8.00	75.5	13.3	130.20		
8.50	76.1	13.9	130.26		
9.00	76.5	14.3	130.33		
9.50	77.0	14.8	130.40		
10.00	77.4	15.2	130.48		
10.50	77.8	15.6	130.56		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97

TIME: 00:03:41

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
11.00	78.4	16.1	130.64		
11.50	78.7	16.5	130.71		
12.00	79.1	16.8	130.80		
12.50	79.5	17.3	130.88		
13.00	79.9	17.7	130.96		
13.50	80.4	18.2	131.04		
14.00	80.9	18.7	131.12		
14.50	81.3	19.1	131.20		
15.00	81.8	19.6	131.29		
15.50	82.2	20.0	131.37		
16.00	82.8	20.5	131.45		
16.50	83.2	21.0	131.54		
17.00	83.7	21.5	131.62		
17.50	84.4	22.2	131.70		
18.00	84.9	22.7	131.78		
18.50	85.5	23.3	131.86		
19.00	86.0	23.8	131.94		
19.50	86.6	24.4	132.01		
20.00	86.9	24.7	132.09		
20.50	87.4	25.2	132.17		
21.00	87.9	25.7	132.24		
21.50	88.4	26.2	132.31		
22.00	88.8	26.6	132.39		
22.50	89.2	27.0	132.45		
23.00	89.5	27.3	132.53		
23.50	90.0	27.8	132.59		
24.00	90.5	28.3	132.66		
24.50	90.9	28.7	132.72		
25.00	91.6	29.4	132.79		
25.50	91.8	29.6	132.85		
26.00	92.6	30.4	132.92		
26.50	93.0	30.8	132.97		
27.00	93.4	31.2	133.02		
27.50	93.7	31.5	133.08		
28.00	94.3	32.1	133.14		
28.50	94.7	32.5	133.19		
29.00	95.2	33.0	133.25		
29.50	95.8	33.6	133.32		
30.00	96.1	33.9	133.36		
30.50	96.5	34.3	133.42		
31.00	97.2	34.9	133.47		
31.50	97.4	35.2	133.53		
32.00	97.7	35.5	133.58		
32.50	98.7	36.5	133.64		
33.00	99.0	36.8	133.69		
33.50	99.3	37.1	133.74		
34.00	99.9	37.7	133.79		
34.50	100.3	38.1	133.83		
35.00	100.8	38.6	133.88		
35.50	101.1	38.9	133.93		
36.00	101.5	39.3	133.97		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97

TIME: 00:03:41

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	36.50	102.1	39.9	134.00		
	37.00	102.4	40.2	134.05		
	37.50	102.9	40.7	134.09		
	38.00	103.2	41.0	134.13		
	38.50	103.5	41.3	134.17		
	39.00	103.8	41.6	134.21		
	39.50	104.4	42.2	134.25		
	40.00	104.9	42.7	134.28		
	40.50	105.2	43.0	134.32		
	41.00	105.7	43.5	134.36		
	41.50	106.1	43.9	134.39		
	42.00	106.3	44.1	134.42		
	42.50	107.1	44.9	134.46		
	43.00	107.5	45.3	134.49		
	43.50	107.7	45.5	134.53		
	44.00	108.0	45.8	134.56		
	44.50	108.5	46.3	134.60		
	45.00	109.2	47.0	134.63		
	45.50	109.6	47.4	134.67		
	46.00	109.9	47.6	134.70		
	46.50	110.3	48.1	134.73		
	47.00	110.9	48.7	134.76		
	47.50	111.1	48.9	134.79		
	48.00	111.5	49.3	134.82		
	48.50	111.9	49.7	134.85		
	49.00	112.5	50.2	134.88		
	49.50	112.9	50.7	134.91		
	50.00	113.2	50.9	134.95		
	50.50	113.6	51.4	134.98		
	51.00	113.8	51.6	135.00		
	51.50	114.5	52.3	135.03		
	52.00	114.9	52.7	135.06		
	52.50	115.0	52.8	135.09		
	53.00	115.5	53.3	135.11		
	53.50	115.9	53.7	135.15		
	54.00	116.4	54.2	135.17		
	54.50	116.7	54.5	135.20		
	55.00	117.0	54.8	135.23		
	55.50	117.8	55.6	135.25		
	56.00	117.9	55.7	135.28		
	56.50	118.2	56.0	135.31		
	57.00	118.4	56.2	135.34		
	57.50	118.8	56.6	135.36		
	58.00	119.0	56.8	135.39		
	58.50	119.3	57.1	135.41		
	59.00	119.5	57.3	135.44		
***** End Flow 2	59.50	119.7	57.5	135.46		
***** Start Shutin 2	0.00	119.7	0.0	135.46	0.0000	0.014
	0.50	144.9	25.2	135.48	180.0000	0.021
	1.00	198.2	78.5	135.51	90.5000	0.039
	1.50	252.8	133.1	135.53	60.6667	0.064

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97 TIME: 00:03:41

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
2.00	308.9	189.2	135.55	45.7500	0.095
2.50	366.5	246.8	135.58	36.8000	0.134
3.00	425.0	305.3	135.61	30.8333	0.181
3.50	483.9	364.2	135.63	26.5714	0.234
4.00	542.7	423.0	135.65	23.3750	0.295
4.50	600.3	480.6	135.68	20.8889	0.360
5.00	656.2	536.5	135.70	18.9000	0.431
5.50	709.7	590.1	135.73	17.2727	0.504
6.00	760.3	640.6	135.75	15.9167	0.578
6.50	807.5	687.8	135.77	14.7692	0.652
7.00	851.1	731.5	135.79	13.7857	0.724
7.50	891.3	771.6	135.81	12.9333	0.794
8.00	928.5	808.8	135.82	12.1875	0.862
8.50	962.9	843.2	135.83	11.5294	0.927
9.00	994.1	874.4	135.84	10.9444	0.988
9.50	1022.1	902.4	135.86	10.4211	1.045
10.00	1047.4	927.7	135.86	9.9500	1.097
10.50	1070.1	950.4	135.87	9.5238	1.145
11.00	1090.5	970.8	135.87	9.1364	1.189
11.50	1108.7	989.0	135.87	8.7826	1.229
12.00	1125.0	1005.3	135.88	8.4583	1.266
12.50	1139.7	1020.0	135.88	8.1600	1.299
13.00	1152.9	1033.2	135.88	7.8846	1.329
13.50	1164.7	1045.0	135.88	7.6296	1.357
14.00	1175.3	1055.7	135.88	7.3929	1.381
14.50	1184.9	1065.2	135.88	7.1724	1.404
15.00	1193.7	1074.0	135.89	6.9667	1.425
15.50	1201.7	1082.0	135.89	6.7742	1.444
16.00	1209.2	1089.5	135.89	6.5938	1.462
16.50	1216.1	1096.4	135.90	6.4242	1.479
17.00	1222.4	1102.7	135.90	6.2647	1.494
17.50	1228.3	1108.6	135.91	6.1143	1.509
18.00	1233.8	1114.1	135.92	5.9722	1.522
18.50	1239.0	1119.3	135.93	5.8378	1.535
19.00	1243.9	1124.2	135.94	5.7105	1.547
19.50	1248.6	1128.9	135.95	5.5897	1.559
20.00	1252.9	1133.2	135.96	5.4750	1.570
20.50	1257.1	1137.4	135.96	5.3659	1.580
21.00	1261.1	1141.4	135.96	5.2619	1.590
21.50	1264.9	1145.2	135.97	5.1628	1.600
22.00	1268.6	1148.9	135.96	5.0682	1.609
22.50	1272.0	1152.3	135.97	4.9778	1.618
23.00	1275.3	1155.6	135.97	4.8913	1.626
23.50	1278.6	1158.9	135.96	4.8085	1.635
24.00	1281.7	1162.0	135.96	4.7292	1.643
24.50	1284.6	1164.9	135.95	4.6531	1.650
25.00	1287.5	1167.8	135.95	4.5800	1.658
25.50	1290.2	1170.6	135.95	4.5098	1.665
26.00	1292.9	1173.2	135.95	4.4423	1.672
26.50	1295.5	1175.8	135.94	4.3774	1.678
27.00	1298.0	1178.3	135.93	4.3148	1.685

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97

TIME: 00:03:41

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
27.50	1300.3	1180.6	135.93	4.2545	1.691
28.00	1302.6	1182.9	135.93	4.1964	1.697
28.50	1304.9	1185.2	135.92	4.1404	1.703
29.00	1307.0	1187.3	135.91	4.0862	1.708
29.50	1309.1	1189.4	135.91	4.0339	1.714
30.00	1311.2	1191.5	135.90	3.9833	1.719
30.50	1312.9	1193.2	135.90	3.9344	1.724
31.00	1314.6	1194.9	135.89	3.8871	1.728
31.50	1316.4	1196.7	135.88	3.8413	1.733
32.00	1318.3	1198.6	135.89	3.7969	1.738
32.50	1320.0	1200.3	135.88	3.7538	1.742
33.00	1321.6	1202.0	135.87	3.7121	1.747
33.50	1323.3	1203.6	135.87	3.6716	1.751
34.00	1324.9	1205.2	135.87	3.6324	1.755
34.50	1326.4	1206.7	135.86	3.5942	1.759
35.00	1327.8	1208.1	135.88	3.5571	1.763
35.50	1329.3	1209.6	135.85	3.5211	1.767
36.00	1330.7	1211.0	135.84	3.4861	1.771
36.50	1332.2	1212.5	135.83	3.4521	1.775
37.00	1333.6	1213.9	135.83	3.4189	1.778
37.50	1334.9	1215.2	135.82	3.3867	1.782
38.00	1336.2	1216.5	135.81	3.3553	1.785
38.50	1337.4	1217.7	135.81	3.3247	1.789
39.00	1338.7	1219.0	135.80	3.2949	1.792
39.50	1339.9	1220.2	135.80	3.2658	1.795
40.00	1341.1	1221.5	135.79	3.2375	1.799
40.50	1342.1	1222.5	135.78	3.2099	1.801
41.00	1343.3	1223.6	135.78	3.1829	1.804
41.50	1344.4	1224.7	135.78	3.1566	1.807
42.00	1345.4	1225.7	135.77	3.1310	1.810
42.50	1346.6	1226.9	135.76	3.1059	1.813
43.00	1347.7	1228.0	135.75	3.0814	1.816
43.50	1348.7	1229.0	135.74	3.0575	1.819
44.00	1349.7	1230.0	135.73	3.0341	1.822
44.50	1350.7	1231.1	135.73	3.0112	1.825
45.00	1351.7	1232.0	135.72	2.9889	1.827
45.50	1352.7	1233.0	135.71	2.9670	1.830
46.00	1353.7	1234.0	135.71	2.9457	1.832
46.50	1354.7	1235.0	135.70	2.9247	1.835
47.00	1355.6	1235.9	135.69	2.9043	1.838
47.50	1356.5	1236.8	135.68	2.8842	1.840
48.00	1357.4	1237.7	135.66	2.8646	1.843
48.50	1358.3	1238.6	135.66	2.8454	1.845
49.00	1359.2	1239.5	135.65	2.8265	1.847
49.50	1360.1	1240.4	135.64	2.8081	1.850
50.00	1360.9	1241.2	135.63	2.7900	1.852
50.50	1361.7	1242.0	135.62	2.7723	1.854
51.00	1362.5	1242.9	135.62	2.7549	1.857
51.50	1363.4	1243.7	135.61	2.7379	1.859
52.00	1364.1	1244.5	135.60	2.7212	1.861
52.50	1364.9	1245.2	135.59	2.7048	1.863

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97 TIME: 00:03:41

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
53.00	1365.7	1246.0	135.57	2.6887	1.865
53.50	1366.5	1246.9	135.57	2.6729	1.867
54.00	1367.3	1247.6	135.56	2.6574	1.870
54.50	1368.1	1248.4	135.55	2.6422	1.872
55.00	1368.8	1249.1	135.54	2.6273	1.874
55.50	1369.6	1249.9	135.53	2.6126	1.876
56.00	1370.3	1250.6	135.52	2.5982	1.878
56.50	1371.0	1251.3	135.51	2.5841	1.880
57.00	1371.7	1252.0	135.50	2.5702	1.882
57.50	1372.4	1252.7	135.49	2.5565	1.883
58.00	1373.1	1253.4	135.48	2.5431	1.885
58.50	1373.8	1254.1	135.47	2.5299	1.887
59.00	1374.4	1254.7	135.47	2.5169	1.889
59.50	1375.1	1255.4	135.46	2.5042	1.891
60.00	1375.7	1256.0	135.45	2.4917	1.893
60.50	1376.4	1256.7	135.44	2.4793	1.894
61.00	1377.0	1257.3	135.43	2.4672	1.896
61.50	1377.6	1257.9	135.42	2.4553	1.898
62.00	1378.2	1258.5	135.42	2.4435	1.899
62.50	1378.8	1259.1	135.41	2.4320	1.901
63.00	1379.4	1259.7	135.40	2.4206	1.903
63.50	1380.0	1260.3	135.40	2.4094	1.904
64.00	1380.6	1260.9	135.39	2.3984	1.906
64.50	1381.1	1261.5	135.38	2.3876	1.908
65.00	1381.7	1262.0	135.38	2.3769	1.909
65.50	1382.3	1262.6	135.37	2.3664	1.911
66.00	1382.9	1263.2	135.36	2.3561	1.912
66.50	1383.4	1263.7	135.35	2.3459	1.914
67.00	1383.9	1264.2	135.35	2.3358	1.915
67.50	1384.5	1264.8	135.35	2.3259	1.917
68.00	1384.9	1265.3	135.34	2.3162	1.918
68.50	1385.5	1265.8	135.33	2.3066	1.920
69.00	1386.0	1266.3	135.33	2.2971	1.921
69.50	1386.5	1266.8	135.32	2.2878	1.922
70.00	1387.0	1267.3	135.32	2.2786	1.924
70.50	1387.5	1267.8	135.31	2.2695	1.925
71.00	1388.6	1268.9	135.31	2.2606	1.928
71.50	1389.5	1269.8	135.30	2.2517	1.931
72.00	1390.3	1270.6	135.30	2.2431	1.933
72.50	1391.0	1271.3	135.30	2.2345	1.935
73.00	1391.6	1271.9	135.29	2.2260	1.936
73.50	1392.2	1272.5	135.29	2.2177	1.938
74.00	1392.7	1273.0	135.29	2.2095	1.940
74.50	1393.2	1273.5	135.28	2.2013	1.941
75.00	1393.7	1274.0	135.28	2.1933	1.942
75.50	1394.2	1274.5	135.27	2.1854	1.944
76.00	1394.7	1275.0	135.27	2.1776	1.945
76.50	1395.2	1275.5	135.27	2.1699	1.947
77.00	1395.6	1276.0	135.26	2.1623	1.948
77.50	1396.1	1276.4	135.25	2.1548	1.949
78.00	1396.5	1276.9	135.26	2.1474	1.950

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/19/97

TIME: 00:03:41  
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Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
78.50	1397.0	1277.3		135.25	2.1401	1.952
79.00	1397.4	1277.7		135.25	2.1329	1.953
79.50	1397.9	1278.2		135.24	2.1258	1.954
80.00	1398.3	1278.6		135.23	2.1187	1.955
80.50	1398.7	1279.0		135.23	2.1118	1.956
81.00	1399.1	1279.4		135.23	2.1049	1.957
81.50	1399.5	1279.8		135.23	2.0982	1.959
82.00	1399.9	1280.3		135.22	2.0915	1.960
82.50	1400.3	1280.6		135.22	2.0848	1.961
83.00	1400.8	1281.1		135.21	2.0783	1.962
83.50	1401.1	1281.4		135.21	2.0719	1.963
84.00	1401.5	1281.8		135.21	2.0655	1.964
84.50	1401.9	1282.2		135.21	2.0592	1.965
85.00	1402.3	1282.6		135.20	2.0529	1.966
85.50	1402.7	1283.0		135.20	2.0468	1.967
86.00	1403.1	1283.4		135.19	2.0407	1.969
86.50	1403.4	1283.7		135.19	2.0347	1.970
87.00	1403.8	1284.1		135.18	2.0287	1.971
87.50	1404.2	1284.5		135.18	2.0229	1.972
88.00	1404.5	1284.8		135.17	2.0170	1.973
88.50	1404.8	1285.1		135.17	2.0113	1.974
89.00	1405.2	1285.5		135.17	2.0056	1.975
89.50	1405.6	1285.9		135.17	2.0000	1.976
90.00	1405.9	1286.2		135.17	1.9944	1.976
90.50	1406.3	1286.6		135.16	1.9890	1.978
91.00	1406.6	1286.9		135.16	1.9835	1.978
91.50	1406.9	1287.2		135.16	1.9781	1.979
***** End Shut-in 2	92.00	1407.3	1287.6	135.16	1.9728	1.980
***** Final Hydro.	333.00	2170.8	0.0	135.09		

# TEST HISTORY

10052 DST#2 LEWIS A #1 ROBINSON OIL CO.

## Flag Points

t (Min.)	P (PSig)
A: 0.00	2205.60
B: 0.00	46.33
C: 30.00	53.44
D: 59.50	1429.01
E: 0.00	62.21
F: 59.50	119.69
G: 92.00	1407.26
Q: 0.00	2170.80

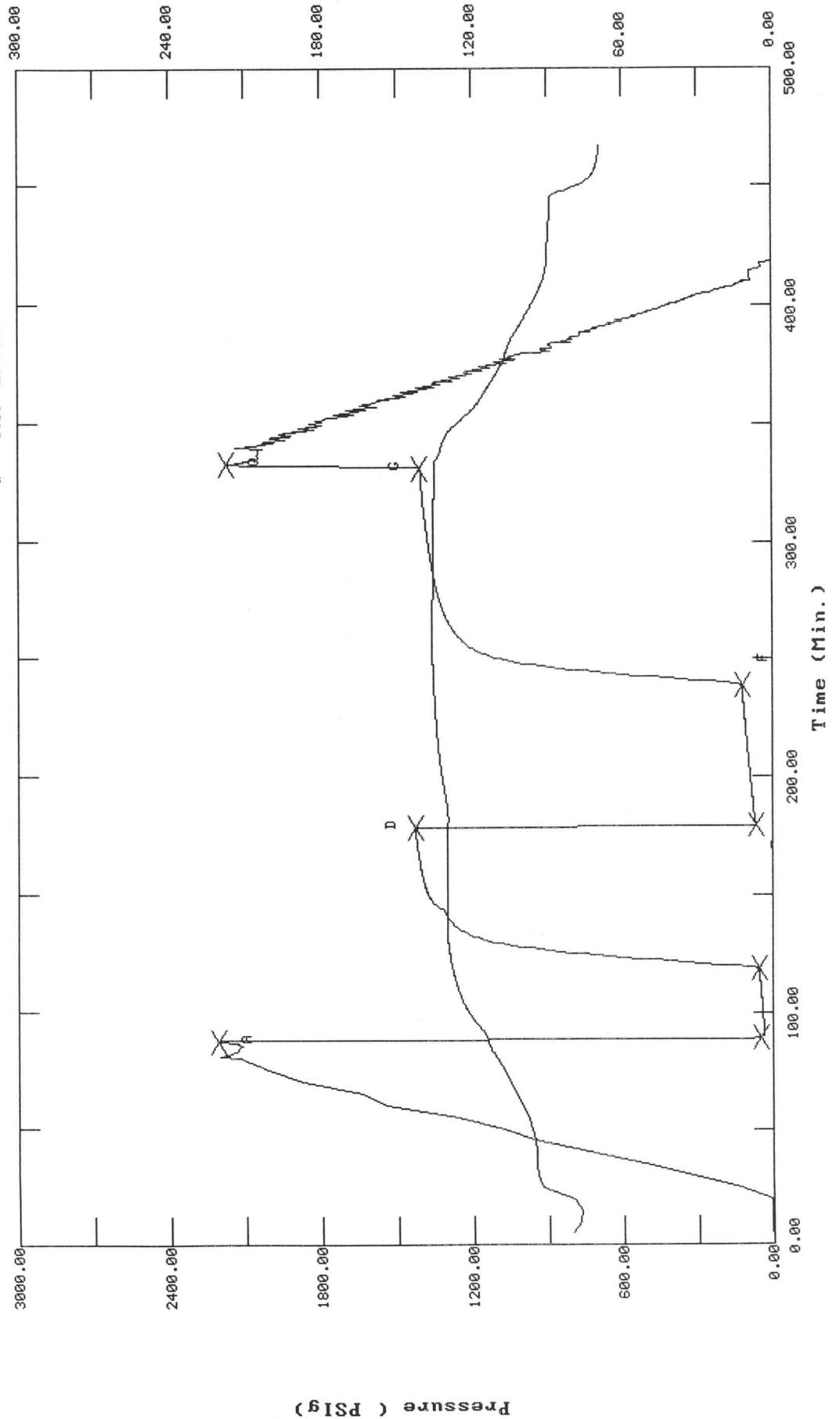
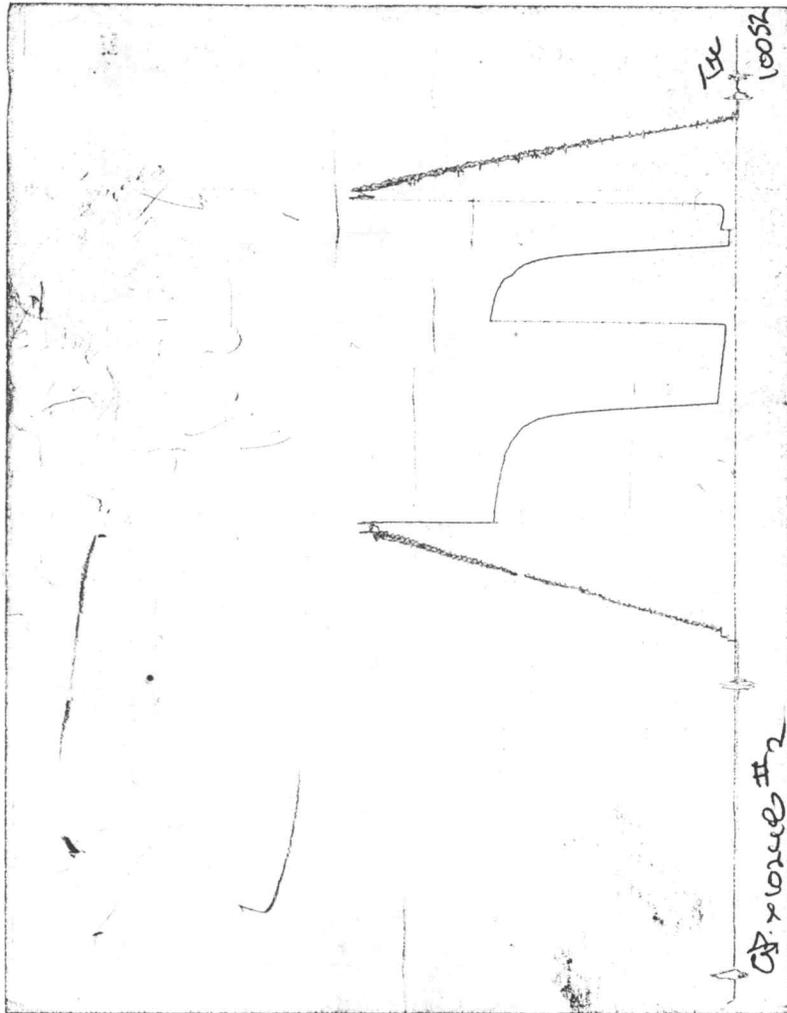


CHART PAGE



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



TRILOBITE TESTING L.L.C.

OPERATOR : Robinson Oil Co. DATE 06-20-97  
 WELL NAME: Lewis A #1 KB 2245.00 ft TICKET NO: 10053 DST #3  
 LOCATION : Sec.08 Twp.26s Rge.19w Ks GR 2237.00 ft FORMATION: Miss  
 INTERVAL : 4726.00 To 4770.00 ft TD 4770.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13788	13788	3030			PF Fr. 2209 to 2239 hr
SI 60	Range(Psi )	4650.0	4650.0	4995.0	0.0	0.0	IS Fr. 2239 to 2339 hr
SF 60	Clock(hrs)	12hr.	12hr.	Elec			SF Fr. 2339 to 0039 hr
FS 120	Depth(ft )	4767.0	4767.0	4737.0	0.0	0.0	FS Fr. 0039 to 0239 hr

	Field	1	2	3	4	
A. Init Hydro	2460.0	2443.0	2450.0	0.0	0.0	T STARTED 2026 hr
B. First Flow	47.0	61.0	42.0	0.0	0.0	T ON BOTM 2205 hr
B1. Final Flow	58.0	71.0	62.0	0.0	0.0	T OPEN 2209 hr
C. In Shut-in	1482.0	1479.0	1480.0	0.0	0.0	T PULLED 0241 hr
D. Init Flow	100.0	104.0	88.0	0.0	0.0	T OUT 0520 hr
E. Final Flow	116.0	125.0	107.0	0.0	0.0	
F. Fl Shut-in	1479.0	1486.0	1476.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2426.0	2433.0	2385.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 47000.00 lbs
						Initial Str Wt 41000.00 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 4701.00 ft

RECOVERY

Tot Fluid 210.00 ft of 30.00 ft in DC and 180.00 ft in DP  
 85.00 ft of Heavy Mud with Oil scum.  
 0.00 ft of  
 63.00 ft of Slight Oil Cut Mud  
 0.00 ft of 1% or less oil 99% mud  
 62.00 ft of Slight Oil and Water Cut Mud  
 0.00 ft of 1% oil 14% water 85% mud  
 0.00 ft of Rw .81 ohms @69 dgreees F.  
 0.00 ft of EST. FT. OF PAY-----4  
 SALINITY 12000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/c
Vis.	50.00 S/L
W.L.	12.80 in3
F.C.	0.20 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:  
 Strong blow, bottom of bucket in 20sec  
 Gas to Surface in 21 mins (See Gas Volume Report)

Initial Shut In:  
 Very weak blow

Final Flow:  
 Strong blow, (See Gas Volume Report)

Final Shut In:  
 Weak to fair blow, 1-8"

SAMPLES: gas sample  
 SENT TO: Caraway / Liberal Ks

Amt. of fill	0.00 ft
Btm. H. Temp.	140.00 F
Hole Condition	Fair
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Tom Williams
Contr.	Discovery Drlg.
Rig #	1
Unit #	
Pump T.	LCM 3#/bl

Test Successful: Y





ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97 TIME: 20:26:00

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	98.50	2449.6	0.0	123.32		
***** Start Flow 1	0.00	41.8	0.0	123.74		
	0.50	38.5	-3.3	123.94		
	1.00	38.4	-3.4	124.24		
	1.50	39.2	-2.6	124.58		
	2.00	40.3	-1.5	124.92		
	2.50	41.1	-0.7	125.22		
	3.00	41.9	0.1	125.48		
	3.50	42.7	0.8	125.74		
	4.00	43.2	1.4	126.00		
	4.50	45.8	4.0	126.26		
	5.00	46.4	4.5	126.56		
	5.50	46.7	4.9	126.86		
	6.00	48.0	6.2	127.17		
	6.50	49.6	7.8	127.47		
	7.00	49.9	8.1	127.74		
	7.50	50.2	8.4	127.99		
	8.00	50.4	8.6	128.19		
	8.50	50.3	8.4	128.38		
	9.00	50.2	8.4	128.53		
	9.50	50.5	8.7	128.66		
	10.00	50.6	8.8	128.76		
	10.50	50.7	8.9	128.85		
	11.00	50.8	8.9	128.92		
	11.50	50.9	9.0	128.99		
	12.00	51.1	9.3	129.04		
	12.50	51.3	9.5	129.09		
	13.00	51.6	9.8	129.13		
	13.50	52.0	10.2	129.17		
	14.00	52.3	10.5	129.21		
	14.50	52.7	10.9	129.26		
	15.00	53.1	11.3	129.33		
	15.50	54.6	12.8	129.41		
	16.00	55.4	13.6	129.51		
	16.50	56.1	14.3	129.63		
	17.00	56.1	14.2	129.78		
	17.50	55.7	13.9	129.94		
	18.00	55.3	13.5	130.10		
	18.50	55.1	13.2	130.26		
	19.00	55.5	13.7	130.42		
	19.50	55.2	13.4	130.58		
	20.00	55.7	13.8	130.73		
	20.50	56.0	14.2	130.87		
	21.00	56.0	14.2	131.00		
	21.50	56.3	14.5	131.12		
	22.00	54.6	12.7	131.21		
	22.50	56.1	14.3	131.30		
	23.00	56.9	15.0	131.37		
	23.50	58.2	16.4	131.44		
	24.00	58.4	16.6	131.51		
	24.50	58.5	16.6	131.59		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97

TIME: 20:26:00

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	58.9	17.1	131.67		
	25.50	59.0	17.2	131.76		
	26.00	59.6	17.8	131.85		
	26.50	59.7	17.8	131.94		
	27.00	59.9	18.0	132.03		
	27.50	59.9	18.1	132.11		
	28.00	60.1	18.3	132.20		
	28.50	60.5	18.7	132.29		
	29.00	61.1	19.3	132.37		
	29.50	61.3	19.5	132.46		
***** End Flow 1	30.00	61.7	19.9	132.53		
***** Start Shutin 1	0.00	61.7	0.0	132.53	0.0000	0.004
	0.50	108.3	46.6	132.60	61.0000	0.012
	1.00	162.2	100.5	132.67	31.0000	0.026
	1.50	215.6	153.9	132.72	21.0000	0.046
	2.00	268.0	206.3	132.75	16.0000	0.072
	2.50	319.5	257.8	132.76	13.0000	0.102
	3.00	370.3	308.6	132.76	11.0000	0.137
	3.50	419.8	358.0	132.75	9.5714	0.176
	4.00	468.1	406.4	132.74	8.5000	0.219
	4.50	514.7	453.0	132.73	7.6667	0.265
	5.00	560.4	498.7	132.72	7.0000	0.314
	5.50	605.0	543.3	132.72	6.4545	0.366
	6.00	648.0	586.3	132.71	6.0000	0.420
	6.50	690.1	628.3	132.71	5.6154	0.476
	7.00	728.6	666.8	132.71	5.2857	0.531
	7.50	764.7	703.0	132.71	5.0000	0.585
	8.00	799.2	737.5	132.72	4.7500	0.639
	8.50	831.9	770.1	132.72	4.5294	0.692
	9.00	862.8	801.0	132.73	4.3333	0.744
	9.50	892.3	830.6	132.74	4.1579	0.796
	10.00	920.2	858.5	132.75	4.0000	0.847
	10.50	946.6	884.9	132.76	3.8571	0.896
	11.00	971.3	909.6	132.78	3.7273	0.943
	11.50	994.6	932.9	132.79	3.6087	0.989
	12.00	1016.4	954.7	132.80	3.5000	1.033
	12.50	1037.1	975.3	132.81	3.4000	1.076
	13.00	1056.6	994.9	132.83	3.3077	1.116
	13.50	1075.4	1013.7	132.84	3.2222	1.157
	14.00	1102.5	1040.7	132.86	3.1429	1.215
	14.50	1129.6	1067.9	132.87	3.0690	1.276
	15.00	1154.5	1092.7	132.88	3.0000	1.333
	15.50	1177.4	1115.6	132.90	2.9355	1.386
	16.00	1198.9	1137.1	132.92	2.8750	1.437
	16.50	1218.8	1157.1	132.93	2.8182	1.486
	17.00	1237.5	1175.8	132.95	2.7647	1.531
	17.50	1254.7	1193.0	132.97	2.7143	1.574
	18.00	1270.6	1208.9	132.99	2.6667	1.615
	18.50	1285.4	1223.6	133.00	2.6216	1.652
	19.00	1299.0	1237.3	133.02	2.5789	1.687
	19.50	1311.6	1249.9	133.04	2.5385	1.720

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97

TIME: 20:26:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.00	1323.1	1261.4	133.05	2.5000	1.751
20.50	1333.8	1272.0	133.07	2.4634	1.779
21.00	1343.7	1281.9	133.09	2.4286	1.805
21.50	1352.8	1291.0	133.10	2.3953	1.830
22.00	1361.1	1299.3	133.12	2.3636	1.853
22.50	1368.9	1307.2	133.13	2.3333	1.874
23.00	1376.1	1314.3	133.15	2.3043	1.894
23.50	1382.6	1320.9	133.16	2.2766	1.912
24.00	1388.9	1327.1	133.17	2.2500	1.929
24.50	1394.6	1332.8	133.19	2.2245	1.945
25.00	1399.9	1338.2	133.21	2.2000	1.960
25.50	1404.9	1343.2	133.22	2.1765	1.974
26.00	1409.6	1347.9	133.24	2.1538	1.987
26.50	1413.9	1352.1	133.25	2.1321	1.999
27.00	1417.8	1356.1	133.26	2.1111	2.010
27.50	1421.6	1359.8	133.27	2.0909	2.021
28.00	1425.0	1363.2	133.28	2.0714	2.031
28.50	1428.2	1366.5	133.30	2.0526	2.040
29.00	1431.2	1369.4	133.31	2.0345	2.048
29.50	1433.9	1372.2	133.33	2.0169	2.056
30.00	1436.5	1374.8	133.34	2.0000	2.064
30.50	1438.9	1377.2	133.35	1.9836	2.070
31.00	1441.1	1379.4	133.36	1.9677	2.077
31.50	1443.1	1381.4	133.37	1.9524	2.083
32.00	1445.0	1383.3	133.39	1.9375	2.088
32.50	1446.8	1385.1	133.40	1.9231	2.093
33.00	1448.6	1386.8	133.41	1.9091	2.098
33.50	1450.1	1388.4	133.42	1.8955	2.103
34.00	1451.7	1390.0	133.43	1.8824	2.107
34.50	1453.1	1391.4	133.44	1.8696	2.112
35.00	1454.5	1392.8	133.45	1.8571	2.116
35.50	1455.7	1394.0	133.46	1.8451	2.119
36.00	1456.9	1395.2	133.47	1.8333	2.123
36.50	1458.1	1396.3	133.48	1.8219	2.126
37.00	1459.2	1397.5	133.50	1.8108	2.129
37.50	1460.3	1398.5	133.51	1.8000	2.132
38.00	1461.3	1399.6	133.52	1.7895	2.135
38.50	1462.2	1400.4	133.53	1.7792	2.138
39.00	1463.1	1401.4	133.54	1.7692	2.141
39.50	1464.0	1402.2	133.55	1.7595	2.143
40.00	1464.8	1403.0	133.56	1.7500	2.146
40.50	1465.5	1403.8	133.58	1.7407	2.148
41.00	1466.2	1404.5	133.57	1.7317	2.150
41.50	1467.0	1405.3	133.59	1.7229	2.152
42.00	1467.7	1405.9	133.60	1.7143	2.154
42.50	1468.3	1406.6	133.61	1.7059	2.156
43.00	1469.0	1407.2	133.61	1.6977	2.158
43.50	1469.5	1407.8	133.62	1.6897	2.160
44.00	1470.1	1408.4	133.63	1.6818	2.161
44.50	1470.7	1408.9	133.65	1.6742	2.163
45.00	1471.1	1409.4	133.66	1.6667	2.164

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97

TIME: 20:26:00

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	45.50	1471.7	1410.0	133.67	1.6593	2.166
	46.00	1472.2	1410.4	133.68	1.6522	2.167
	46.50	1472.6	1410.9	133.69	1.6452	2.169
	47.00	1473.1	1411.3	133.70	1.6383	2.170
	47.50	1473.5	1411.8	133.71	1.6316	2.171
	48.00	1473.9	1412.2	133.71	1.6250	2.172
	48.50	1474.3	1412.6	133.72	1.6186	2.174
	49.00	1474.7	1413.0	133.73	1.6122	2.175
	49.50	1475.1	1413.4	133.74	1.6061	2.176
	50.00	1475.4	1413.7	133.75	1.6000	2.177
	50.50	1475.8	1414.1	133.76	1.5941	2.178
	51.00	1476.1	1414.4	133.77	1.5882	2.179
	51.50	1476.5	1414.7	133.78	1.5825	2.180
	52.00	1476.8	1415.0	133.79	1.5769	2.181
	52.50	1477.0	1415.3	133.80	1.5714	2.182
	53.00	1477.3	1415.5	133.81	1.5660	2.182
	53.50	1477.6	1415.8	133.82	1.5607	2.183
	54.00	1477.9	1416.2	133.83	1.5556	2.184
	54.50	1478.1	1416.4	133.84	1.5505	2.185
	55.00	1478.4	1416.7	133.84	1.5455	2.186
	55.50	1478.7	1416.9	133.85	1.5405	2.186
	56.00	1478.9	1417.1	133.86	1.5357	2.187
	56.50	1479.2	1417.4	133.87	1.5310	2.188
	57.00	1479.4	1417.6	133.88	1.5263	2.188
	57.50	1479.6	1417.8	133.89	1.5217	2.189
	58.00	1479.8	1418.1	133.90	1.5172	2.190
***** End Shut-in 1	58.50	1480.1	1418.4	133.91	1.5128	2.191
***** Start Flow 2	0.00	88.1	0.0	133.98		
	0.50	70.5	-17.6	134.16		
	1.00	69.4	-18.7	134.43		
	1.50	70.5	-17.6	134.73		
	2.00	73.7	-14.4	135.01		
	2.50	75.6	-12.5	135.27		
	3.00	76.1	-12.0	135.47		
	3.50	77.5	-10.6	135.63		
	4.00	78.2	-10	135.75		
	4.50	78.0	-10.1	135.84		
	5.00	78.0	-10.1	135.92		
	5.50	78.8	-9.4	135.97		
	6.00	79.2	-9.0	136.02		
	6.50	79.0	-9.2	136.05		
	7.00	78.9	-9.2	136.08		
	7.50	79.1	-9.0	136.11		
	8.00	79.4	-8.7	136.12		
	8.50	79.8	-8.3	136.15		
	9.00	80.0	-8.1	136.17		
	9.50	80.0	-8.1	136.19		
	10.00	80.7	-7.4	136.22		
	10.50	81.3	-6.8	136.24		
	11.00	82.3	-5.8	136.28		
	11.50	82.8	-5.3	136.31		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97

TIME: 20:26:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
12.00	83.3	-4.8	136.36		
12.50	83.6	-4.5	136.42		
13.00	84.1	-4.0	136.48		
13.50	84.3	-3.8	136.55		
14.00	84.7	-3.4	136.62		
14.50	85.1	-3.0	136.68		
15.00	85.5	-2.6	136.76		
15.50	86.2	-1.9	136.84		
16.00	86.4	-1.7	136.93		
16.50	86.7	-1.4	137.04		
17.00	86.8	-1.3	137.15		
17.50	87.0	-1.1	137.27		
18.00	87.3	-0.8	137.36		
18.50	87.4	-0.7	137.45		
19.00	88.6	0.5	137.54		
19.50	89.2	1.1	137.60		
20.00	89.4	1.3	137.66		
20.50	89.5	1.4	137.70		
21.00	89.7	1.6	137.74		
21.50	89.7	1.6	137.77		
22.00	89.7	1.6	137.80		
22.50	89.9	1.8	137.82		
23.00	90.2	2.1	137.84		
23.50	90.2	2.1	137.84		
24.00	90.3	2.2	137.86		
24.50	90.6	2.5	137.86		
25.00	90.6	2.5	137.85		
25.50	90.7	2.6	137.84		
26.00	91.1	3.0	137.83		
26.50	91.1	3.0	137.82		
27.00	91.4	3.3	137.81		
27.50	91.7	3.6	137.80		
28.00	91.7	3.6	137.79		
28.50	92.0	3.9	137.78		
29.00	92.0	3.9	137.78		
29.50	92.2	4.1	137.77		
30.00	92.4	4.3	137.77		
30.50	92.5	4.4	137.76		
31.00	92.7	4.6	137.76		
31.50	93.2	5.1	137.77		
32.00	93.3	5.2	137.78		
32.50	94.0	5.9	137.78		
33.00	94.2	6.0	137.79		
33.50	94.2	6.1	137.79		
34.00	94.5	6.4	137.81		
34.50	94.6	6.5	137.82		
35.00	94.7	6.6	137.83		
35.50	94.9	6.8	137.85		
36.00	95.1	7.0	137.87		
36.50	95.3	7.1	137.88		
37.00	95.6	7.5	137.90		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97 TIME: 20:26:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
37.50	95.6	7.5	137.92		
38.00	95.9	7.8	137.94		
38.50	96.1	8.0	137.96		
39.00	96.4	8.3	137.98		
39.50	97.2	9.1	138.00		
40.00	97.6	9.5	138.03		
40.50	97.8	9.7	138.05		
41.00	98.1	10.0	138.08		
41.50	98.3	10.2	138.11		
42.00	98.5	10.4	138.14		
42.50	98.6	10.5	138.17		
43.00	98.9	10.8	138.20		
43.50	98.9	10.8	138.23		
44.00	99.1	11.0	138.25		
44.50	99.4	11.3	138.29		
45.00	99.8	11.7	138.31		
45.50	100.1	12.0	138.33		
46.00	100.3	12.2	138.36		
46.50	100.7	12.6	138.39		
47.00	100.9	12.8	138.41		
47.50	101.0	12.9	138.44		
48.00	101.2	13.1	138.46		
48.50	101.4	13.3	138.49		
49.00	101.8	13.7	138.52		
49.50	102.0	13.9	138.55		
50.00	102.3	14.2	138.58		
50.50	102.6	14.5	138.62		
51.00	103.0	14.9	138.67		
51.50	103.1	15.0	138.73		
52.00	103.5	15.4	138.78		
52.50	103.8	15.7	138.84		
53.00	103.9	15.8	138.90		
53.50	104.5	16.4	138.96		
54.00	104.9	16.8	139.01		
54.50	105.6	17.5	139.07		
55.00	105.7	17.6	139.11		
55.50	105.9	17.8	139.16		
56.00	105.9	17.8	139.20		
56.50	106.0	17.9	139.24		
57.00	106.5	18.4	139.28		
57.50	106.8	18.7	139.32		
58.00	106.9	18.8	139.36		
58.50	106.9	18.8	139.39		
***** End Flow 2					
***** Start Shutin 2	0.00	106.9	0.0	139.39	0.0000
	0.50	115.0	8.1	139.42	178.0000
	1.00	169.0	62.1	139.44	89.5000
	1.50	221.0	114.1	139.46	60.0000
	2.00	271.4	164.5	139.46	45.2500
	2.50	320.8	213.9	139.46	36.4000
	3.00	369.0	262.1	139.44	30.5000
	3.50	416.4	309.5	139.42	26.2857

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97

TIME: 20:26:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
4.00	463.5	356.5	139.41	23.1250	0.215
4.50	509.7	402.8	139.39	20.6667	0.260
5.00	555.3	448.3	139.38	18.7000	0.308
5.50	599.5	492.6	139.36	17.0909	0.359
6.00	642.7	535.8	139.36	15.7500	0.413
6.50	683.9	576.9	139.35	14.6154	0.468
7.00	723.2	616.3	139.35	13.6429	0.523
7.50	761.0	654.1	139.35	12.8000	0.579
8.00	797.2	690.3	139.35	12.0625	0.636
8.50	831.7	724.7	139.34	11.4118	0.692
9.00	863.8	756.9	139.35	10.8333	0.746
9.50	892.7	785.8	139.37	10.3158	0.797
10.00	920.9	813.9	139.37	9.8500	0.848
10.50	948.2	841.3	139.39	9.4286	0.899
11.00	974.2	867.3	139.40	9.0455	0.949
11.50	999.2	892.3	139.42	8.6957	0.998
12.00	1022.8	915.9	139.43	8.3750	1.046
12.50	1045.3	938.4	139.45	8.0800	1.093
13.00	1066.6	959.7	139.46	7.8077	1.138
13.50	1086.6	979.7	139.48	7.5556	1.181
14.00	1105.7	998.8	139.49	7.3214	1.223
14.50	1123.8	1016.9	139.51	7.1034	1.263
15.00	1140.8	1033.9	139.52	6.9000	1.301
15.50	1156.9	1050.0	139.53	6.7097	1.338
16.00	1172.1	1065.2	139.55	6.5312	1.374
16.50	1186.2	1079.3	139.56	6.3636	1.407
17.00	1199.5	1092.6	139.57	6.2059	1.439
17.50	1212.1	1105.1	139.58	6.0571	1.469
18.00	1223.7	1116.8	139.59	5.9167	1.497
18.50	1234.5	1127.6	139.60	5.7838	1.524
19.00	1244.7	1137.8	139.62	5.6579	1.549
19.50	1254.5	1147.5	139.63	5.5385	1.574
20.00	1263.6	1156.7	139.65	5.4250	1.597
20.50	1272.3	1165.4	139.66	5.3171	1.619
21.00	1280.6	1173.7	139.67	5.2143	1.640
21.50	1288.5	1181.6	139.69	5.1163	1.660
22.00	1296.0	1189.1	139.70	5.0227	1.680
22.50	1303.1	1196.2	139.71	4.9333	1.698
23.00	1309.8	1202.9	139.73	4.8478	1.716
23.50	1316.3	1209.3	139.74	4.7660	1.733
24.00	1322.4	1215.5	139.75	4.6875	1.749
24.50	1328.2	1221.3	139.77	4.6122	1.764
25.00	1333.8	1226.9	139.78	4.5400	1.779
25.50	1339.1	1232.2	139.78	4.4706	1.793
26.00	1344.2	1237.3	139.80	4.4038	1.807
26.50	1349.0	1242.1	139.81	4.3396	1.820
27.00	1353.6	1246.7	139.81	4.2778	1.832
27.50	1358.1	1251.1	139.83	4.2182	1.844
28.00	1362.2	1255.3	139.84	4.1607	1.856
28.50	1366.2	1259.3	139.85	4.1053	1.867
29.00	1370.0	1263.1	139.87	4.0517	1.877

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97

TIME: 20:26:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
29.50	1373.6	1266.7	139.88	4.0000	1.887
30.00	1377.1	1270.2	139.89	3.9500	1.897
30.50	1380.4	1273.5	139.90	3.9016	1.906
31.00	1383.6	1276.7	139.91	3.8548	1.914
31.50	1386.5	1279.6	139.92	3.8095	1.922
32.00	1389.3	1282.4	139.93	3.7656	1.930
32.50	1392.0	1285.1	139.95	3.7231	1.938
33.00	1394.7	1287.8	139.95	3.6818	1.945
33.50	1397.1	1290.2	139.96	3.6418	1.952
34.00	1399.4	1292.5	139.97	3.6029	1.958
34.50	1401.8	1294.9	139.97	3.5652	1.965
35.00	1404.0	1297.1	139.98	3.5286	1.971
35.50	1406.3	1299.4	139.99	3.4930	1.978
36.00	1408.4	1301.5	140.00	3.4583	1.984
36.50	1410.5	1303.6	140.01	3.4247	1.989
37.00	1412.4	1305.5	140.02	3.3919	1.995
37.50	1414.2	1307.3	140.03	3.3600	2.000
38.00	1416.0	1309.1	140.03	3.3289	2.005
38.50	1417.7	1310.8	140.04	3.2987	2.010
39.00	1419.3	1312.4	140.05	3.2692	2.014
39.50	1420.9	1314.0	140.05	3.2405	2.019
40.00	1422.4	1315.5	140.05	3.2125	2.023
40.50	1423.8	1316.9	140.06	3.1852	2.027
41.00	1425.2	1318.3	140.07	3.1585	2.031
41.50	1426.5	1319.6	140.07	3.1325	2.035
42.00	1427.8	1320.9	140.07	3.1071	2.039
42.50	1429.0	1322.1	140.07	3.0824	2.042
43.00	1430.2	1323.3	140.08	3.0581	2.045
43.50	1431.4	1324.5	140.08	3.0345	2.049
44.00	1432.5	1325.6	140.09	3.0114	2.052
44.50	1433.6	1326.7	140.09	2.9888	2.055
45.00	1434.7	1327.8	140.09	2.9667	2.058
45.50	1435.6	1328.7	140.09	2.9451	2.061
46.00	1436.6	1329.7	140.09	2.9239	2.064
46.50	1437.6	1330.6	140.09	2.9032	2.067
47.00	1438.4	1331.5	140.10	2.8830	2.069
47.50	1439.3	1332.4	140.10	2.8632	2.072
48.00	1440.1	1333.2	140.10	2.8438	2.074
48.50	1441.0	1334.1	140.10	2.8247	2.076
49.00	1441.8	1334.9	140.11	2.8061	2.079
49.50	1442.6	1335.7	140.11	2.7879	2.081
50.00	1443.4	1336.5	140.11	2.7700	2.083
50.50	1444.1	1337.2	140.11	2.7525	2.085
51.00	1444.8	1337.9	140.11	2.7353	2.087
51.50	1445.5	1338.6	140.11	2.7184	2.089
52.00	1446.2	1339.3	140.11	2.7019	2.091
52.50	1446.8	1339.9	140.11	2.6857	2.093
53.00	1447.5	1340.6	140.11	2.6698	2.095
53.50	1448.1	1341.2	140.11	2.6542	2.097
54.00	1448.7	1341.8	140.12	2.6389	2.099
54.50	1449.3	1342.4	140.13	2.6239	2.100

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.  
 DATE: 06/20/97 TIME: 20:26:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
55.00	1449.9	1343.0	140.12	2.6091	2.102
55.50	1450.4	1343.5	140.12	2.5946	2.104
56.00	1451.0	1344.1	140.12	2.5804	2.105
56.50	1451.5	1344.6	140.13	2.5664	2.107
57.00	1452.0	1345.1	140.13	2.5526	2.108
57.50	1452.5	1345.6	140.13	2.5391	2.110
58.00	1453.0	1346.1	140.13	2.5259	2.111
58.50	1453.5	1346.6	140.13	2.5128	2.113
59.00	1453.9	1347.0	140.13	2.5000	2.114
59.50	1454.4	1347.5	140.13	2.4874	2.115
60.00	1454.8	1347.9	140.13	2.4750	2.116
60.50	1455.2	1348.3	140.14	2.4628	2.118
61.00	1455.6	1348.7	140.14	2.4508	2.119
61.50	1456.0	1349.1	140.14	2.4390	2.120
62.00	1456.4	1349.5	140.14	2.4274	2.121
62.50	1456.8	1349.9	140.14	2.4160	2.122
63.00	1457.2	1350.3	140.15	2.4048	2.123
63.50	1457.6	1350.7	140.15	2.3937	2.125
64.00	1458.0	1351.1	140.14	2.3828	2.126
64.50	1458.3	1351.4	140.15	2.3721	2.127
65.00	1458.6	1351.7	140.15	2.3615	2.128
65.50	1459.0	1352.1	140.15	2.3511	2.129
66.00	1459.3	1352.4	140.15	2.3409	2.130
66.50	1459.6	1352.7	140.15	2.3308	2.131
67.00	1459.9	1353.0	140.15	2.3209	2.131
67.50	1460.3	1353.4	140.15	2.3111	2.132
68.00	1460.6	1353.7	140.15	2.3015	2.133
68.50	1460.9	1354.0	140.16	2.2920	2.134
69.00	1461.2	1354.3	140.15	2.2826	2.135
69.50	1461.5	1354.6	140.16	2.2734	2.136
70.00	1461.8	1354.9	140.16	2.2643	2.137
70.50	1462.1	1355.2	140.16	2.2553	2.138
71.00	1462.3	1355.4	140.16	2.2465	2.138
71.50	1462.6	1355.7	140.16	2.2378	2.139
72.00	1462.9	1356.0	140.16	2.2292	2.140
72.50	1463.1	1356.2	140.16	2.2207	2.141
73.00	1463.4	1356.4	140.17	2.2123	2.141
73.50	1463.6	1356.7	140.17	2.2041	2.142
74.00	1463.8	1356.9	140.16	2.1959	2.143
74.50	1464.1	1357.2	140.17	2.1879	2.144
75.00	1464.3	1357.4	140.17	2.1800	2.144
75.50	1464.6	1357.6	140.17	2.1722	2.145
76.00	1464.8	1357.9	140.17	2.1645	2.146
76.50	1465.1	1358.1	140.17	2.1569	2.146
77.00	1465.3	1358.4	140.18	2.1494	2.147
77.50	1465.7	1358.8	140.19	2.1419	2.148
78.00	1466.0	1359.0	140.18	2.1346	2.149
78.50	1466.2	1359.3	140.19	2.1274	2.150
79.00	1466.5	1359.6	140.20	2.1203	2.151
79.50	1466.7	1359.8	140.20	2.1132	2.151
80.00	1466.9	1360.0	140.21	2.1063	2.152

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97

TIME: 20:26:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
80.50	1467.1	1360.1	140.22	2.0994	2.152
81.00	1467.2	1360.3	140.23	2.0926	2.153
81.50	1467.4	1360.5	140.24	2.0859	2.153
82.00	1467.5	1360.6	140.25	2.0793	2.154
82.50	1467.7	1360.8	140.25	2.0727	2.154
83.00	1467.9	1361.0	140.26	2.0663	2.155
83.50	1468.0	1361.1	140.26	2.0599	2.155
84.00	1468.2	1361.3	140.27	2.0536	2.156
84.50	1468.3	1361.4	140.27	2.0473	2.156
85.00	1468.5	1361.6	140.28	2.0412	2.156
85.50	1468.6	1361.7	140.28	2.0351	2.157
86.00	1468.8	1361.9	140.28	2.0291	2.157
86.50	1468.9	1362.0	140.29	2.0231	2.158
87.00	1468.9	1362.0	140.29	2.0172	2.158
87.50	1469.2	1362.3	140.29	2.0114	2.158
88.00	1469.3	1362.4	140.30	2.0057	2.159
88.50	1469.4	1362.5	140.30	2.0000	2.159
89.00	1469.5	1362.6	140.30	1.9944	2.159
89.50	1469.6	1362.7	140.30	1.9888	2.160
90.00	1469.8	1362.9	140.31	1.9833	2.160
90.50	1469.9	1363.0	140.31	1.9779	2.161
91.00	1470.0	1363.1	140.31	1.9725	2.161
91.50	1470.2	1363.3	140.31	1.9672	2.161
92.00	1470.3	1363.4	140.31	1.9620	2.162
92.50	1470.4	1363.5	140.32	1.9568	2.162
93.00	1470.6	1363.7	140.32	1.9516	2.163
93.50	1470.6	1363.7	140.32	1.9465	2.163
94.00	1470.7	1363.8	140.32	1.9415	2.163
94.50	1470.9	1364.0	140.32	1.9365	2.163
95.00	1471.0	1364.1	140.32	1.9316	2.164
95.50	1471.1	1364.2	140.32	1.9267	2.164
96.00	1471.3	1364.4	140.32	1.9219	2.165
96.50	1471.4	1364.5	140.32	1.9171	2.165
97.00	1471.5	1364.6	140.32	1.9124	2.165
97.50	1471.5	1364.6	140.33	1.9077	2.165
98.00	1471.7	1364.8	140.33	1.9031	2.166
98.50	1471.8	1364.9	140.32	1.8985	2.166
99.00	1471.9	1365.0	140.33	1.8939	2.167
99.50	1472.0	1365.1	140.32	1.8894	2.167
100.00	1472.1	1365.2	140.33	1.8850	2.167
100.50	1472.2	1365.3	140.33	1.8806	2.168
101.00	1472.3	1365.4	140.33	1.8762	2.168
101.50	1472.4	1365.5	140.33	1.8719	2.168
102.00	1472.5	1365.6	140.33	1.8676	2.168
102.50	1472.6	1365.7	140.33	1.8634	2.169
103.00	1472.7	1365.8	140.33	1.8592	2.169
103.50	1472.8	1365.9	140.33	1.8551	2.169
104.00	1472.9	1366.0	140.33	1.8510	2.169
104.50	1473.0	1366.1	140.33	1.8469	2.170
105.00	1473.1	1366.2	140.33	1.8429	2.170
105.50	1473.3	1366.4	140.33	1.8389	2.171

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/20/97

TIME: 20:26:00

Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
106.00	1473.3	1366.4		140.33	1.8349	2.171
106.50	1473.4	1366.5		140.33	1.8310	2.171
107.00	1473.5	1366.6		140.34	1.8271	2.171
107.50	1473.6	1366.7		140.34	1.8233	2.171
108.00	1473.7	1366.8		140.34	1.8194	2.172
108.50	1473.8	1366.9		140.34	1.8157	2.172
109.00	1473.9	1367.0		140.34	1.8119	2.172
109.50	1474.0	1367.1		140.34	1.8082	2.173
110.00	1474.1	1367.2		140.34	1.8045	2.173
110.50	1474.1	1367.2		140.34	1.8009	2.173
111.00	1474.3	1367.4		140.34	1.7973	2.173
111.50	1474.3	1367.4		140.35	1.7937	2.174
112.00	1474.4	1367.5		140.35	1.7902	2.174
112.50	1474.5	1367.6		140.35	1.7867	2.174
113.00	1474.6	1367.7		140.34	1.7832	2.174
113.50	1474.6	1367.7		140.35	1.7797	2.175
114.00	1474.7	1367.8		140.35	1.7763	2.175
114.50	1474.8	1367.9		140.35	1.7729	2.175
115.00	1474.9	1368.0		140.35	1.7696	2.175
115.50	1475.0	1368.1		140.35	1.7662	2.176
116.00	1475.1	1368.1		140.35	1.7629	2.176
116.50	1475.2	1368.3		140.35	1.7597	2.176
117.00	1475.3	1368.4		140.35	1.7564	2.176
117.50	1475.3	1368.4		140.35	1.7532	2.177
118.00	1475.3	1368.4		140.36	1.7500	2.176
118.50	1475.3	1368.4		140.36	1.7468	2.176
119.00	1475.3	1368.4		140.36	1.7437	2.176
119.50	1475.3	1368.4		140.36	1.7406	2.176
120.00	1475.4	1368.5		140.36	1.7375	2.177
120.50	1475.4	1368.5		140.36	1.7344	2.177
121.00	1475.5	1368.6		140.36	1.7314	2.177
121.50	1475.5	1368.6		140.36	1.7284	2.177
***** End Shut-in 2	122.00	1475.6	1368.7	140.36	1.7254	2.177
***** Final Hydro.	374.50	2384.7	0.0	140.60		

# TEST HISTORY

10053 DST#3 LEWIS A #1 ROBINSON OIL CO.

## Flag Points

t(Min.) P( PSig)

A:	0.00	2449.60
B:	0.00	41.82
C:	30.00	61.73
D:	58.50	1480.10
E:	0.00	88.10
F:	58.50	106.91
G:	122.00	1475.61
Q:	0.00	2384.67

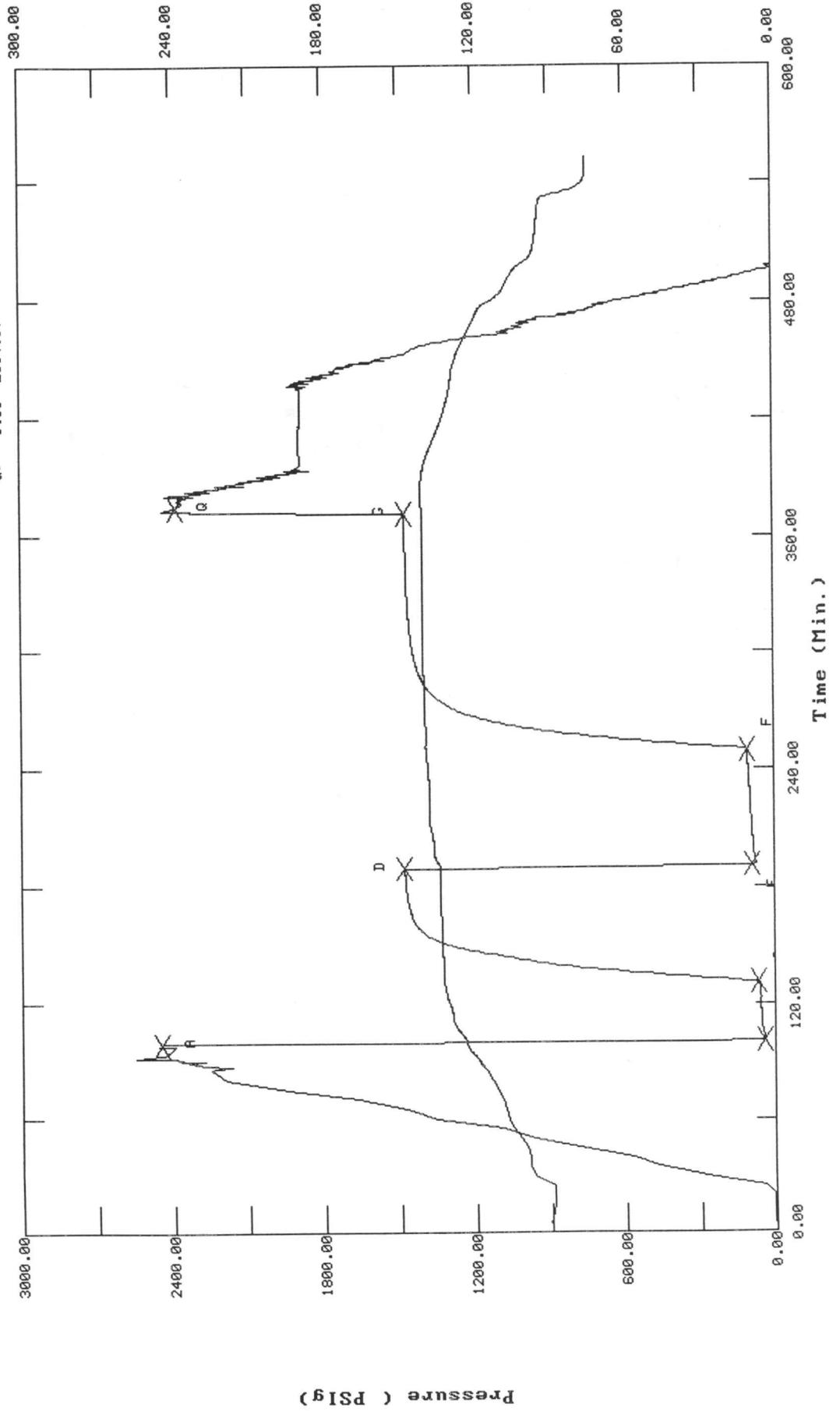
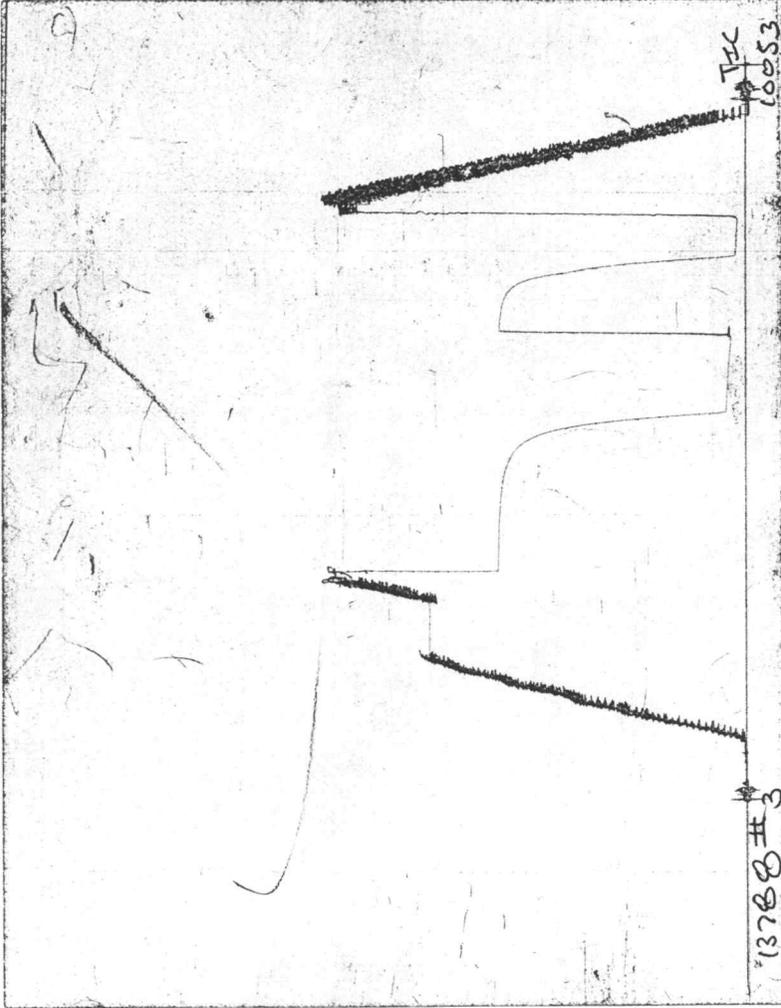


CHART PAGE



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



TRILOBITE TESTING L.L.C.

OPERATOR : Robinson Oil Co.

DATE 06-22-97

WELL NAME: Lewis A #1

KB 2245.00 ft

TICKET NO: 10054 DST #4

LOCATION : Sec.08 Twp.26s Rge.19w Ks

GR 2237.00 ft

FORMATION: Miss

INTERVAL : 4723.00 To 4778.00 ft

TD 4860.00 ft

TEST TYPE: CONV./STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13789	13789	3030	13788		PF Fr. 0536 to 0606 hr
SI 60 Range(Psi )	4650.0	4650.0	4995.0	4650.0	0.0	IS Fr. 0606 to 0706 hr
SF 60 Clock(hrs)	12hr.	12hr.	Elec	12hr.		SF Fr. 0706 to 0806 hr
FS 90 Depth(ft )	4764.0	4764.0	4740.0	4857.0	0.0	FS Fr. 0806 to 0936 hr

	Field	1	2	3	4	
A. Init Hydro	2460.0	2463.0	2470.0	0.0	0.0	T STARTED 0400 hr
B. First Flow	81.0	111.0	90.0	0.0	0.0	T ON BOTM 0532 hr
B1. Final Flow	151.0	169.0	155.0	0.0	0.0	T OPEN 0536 hr
C. In Shut-in	1456.0	1465.0	1467.0	0.0	0.0	T PULLED 0938 hr
D. Init Flow	200.0	207.0	208.0	0.0	0.0	T OUT 1210 hr
E. Final Flow	295.0	321.0	309.0	0.0	0.0	
F. Fl Shut-in	1454.0	1465.0	1463.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2395.0	2444.0	2417.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	S		Wt Set On Packer 22000.00 lbs
						Wt Pulled Loose 50000.00 lbs
						Initial Str Wt 42000.00 lbs
						Unseated Str Wt 46000.00 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 4694.00 ft

RECOVERY

Tot Fluid 625.00 ft of 30.00 ft in DC and 595.00 ft in DP  
 4071.00 ft of Gas in pipe  
 70.00 ft of Heavy mud  
 125.00 ft of Slight Oil Cut Mud 2%oil 98%mud  
 248.00 ft of Slight Oil Cut Watery Mud 5%oil 45%W 50%M  
 182.00 ft of Muddy Water with few oil specs 5%M 95%W  
 0.00 ft of  
 0.00 ft of Rw .099ohms @84 dgreees F.  
 0.00 ft of EST. FT. OF PAY-----12  
 SALINITY 63000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Strong blow, bottom of bucket in 70sec

Initial Shut In:  
 Fair blow, 2-7"

Final Flow:  
 Strong blow, bottom of bucket in 3 min  
 Gas to surface in 42 mins. TSTM

Final Shut In:  
 Fair to strong blow. Bottom of bucket

SAMPLES: none  
 SENT TO:Caraway / Liberal Ks

Test Successful: Y

MUD DATA-----	
Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	55.00 S/L
W.L.	11.80 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	140.00 F
Hole Condition	Fair
% Porosity	20.00
Packer Size	6.75 in
No. of Packers	3
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Tcm Williams
Contr.	Discovery Drlg.
Rig #	1
Unit #	
Pump T.	LCM 2#/bl



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97 TIME: 04:00:38

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	92.00	2470.3	0.0	126.95		
***** Start Flow 1	0.00	89.7	0.0	127.24		
	0.50	84.1	-5.6	127.26		
	1.00	83.4	-6.3	127.27		
	1.50	87.4	-2.3	127.29		
	2.00	88.1	-1.6	127.33		
	2.50	89.1	-0.6	127.38		
	3.00	90.4	0.7	127.45		
	3.50	91.5	1.8	127.55		
	4.00	91.2	1.5	127.69		
	4.50	98.1	8.4	127.86		
	5.00	101.4	11.7	128.06		
	5.50	101.4	11.7	128.28		
	6.00	102.1	12.4	128.50		
	6.50	102.7	13.0	128.73		
	7.00	103.4	13.7	128.95		
	7.50	104.1	14.4	129.15		
	8.00	105.0	15.3	129.33		
	8.50	105.9	16.2	129.49		
	9.00	106.8	17.1	129.64		
	9.50	107.9	18.2	129.77		
	10.00	108.8	19.1	129.91		
	10.50	110.1	20.4	130.04		
	11.00	111.4	21.7	130.20		
	11.50	112.6	22.9	130.37		
	12.00	114.0	24.3	130.55		
	12.50	115.4	25.7	130.75		
	13.00	116.7	27.0	130.96		
	13.50	118.3	28.6	131.16		
	14.00	119.5	29.8	131.38		
	14.50	120.8	31.1	131.62		
	15.00	122.4	32.7	131.88		
	15.50	123.8	34.0	132.16		
	16.00	124.9	35.1	132.48		
	16.50	125.9	36.2	132.80		
	17.00	127.0	37.3	133.12		
	17.50	128.1	38.4	133.44		
	18.00	129.4	39.7	133.73		
	18.50	130.4	40.7	134.01		
	19.00	131.8	42.1	134.27		
	19.50	133.0	43.3	134.51		
	20.00	134.2	44.5	134.73		
	20.50	135.3	45.6	134.92		
	21.00	136.5	46.8	135.10		
	21.50	137.7	48.0	135.27		
	22.00	139.2	49.4	135.41		
	22.50	140.2	50.5	135.54		
	23.00	141.5	51.8	135.66		
	23.50	142.8	53.1	135.77		
	24.00	143.9	54.2	135.88		
	24.50	145.1	55.4	135.97		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97

TIME: 04:00:38

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	146.6	56.9	136.07		
	25.50	147.5	57.8	136.16		
	26.00	148.8	59.1	136.24		
	26.50	149.9	60.2	136.33		
	27.00	151.0	61.3	136.41		
	27.50	152.3	62.6	136.48		
	28.00	153.5	63.8	136.56		
***** End Flow 1	28.50	154.6	64.9	136.63		
***** Start Shutin 1	0.00	154.6	0.0	136.63	0.0000	0.024
	0.50	163.6	8.9	136.70	58.0000	0.027
	1.00	210.6	56.0	136.77	29.5000	0.044
	1.50	264.9	110.3	136.82	20.0000	0.070
	2.00	328.7	174.1	136.84	15.2500	0.108
	2.50	403.8	249.1	136.83	12.4000	0.163
	3.00	490.8	336.1	136.78	10.5000	0.241
	3.50	584.3	429.6	136.71	9.1429	0.341
	4.00	675.6	521.0	136.65	8.1250	0.456
	4.50	759.8	605.2	136.61	7.3333	0.577
	5.00	833.8	679.1	136.62	6.7000	0.695
	5.50	898.2	743.6	136.69	6.1818	0.807
	6.00	952.5	797.8	136.81	5.7500	0.907
	6.50	999.0	844.3	136.94	5.3846	0.998
	7.00	1038.6	884.0	137.07	5.0714	1.079
	7.50	1073.3	918.7	137.16	4.8000	1.152
	8.00	1108.1	953.4	137.23	4.5625	1.228
	8.50	1137.7	983.1	137.28	4.3529	1.294
	9.00	1162.8	1008.1	137.32	4.1667	1.352
	9.50	1184.7	1030.1	137.34	4.0000	1.404
	10.00	1204.2	1049.6	137.35	3.8500	1.450
	10.50	1221.7	1067.1	137.36	3.7143	1.493
	11.00	1237.4	1082.8	137.36	3.5909	1.531
	11.50	1251.8	1097.2	137.35	3.4783	1.567
	12.00	1264.8	1110.1	137.35	3.3750	1.600
	12.50	1276.7	1122.1	137.33	3.2800	1.630
	13.00	1287.6	1133.0	137.32	3.1923	1.658
	13.50	1297.7	1143.0	137.32	3.1111	1.684
	14.00	1306.9	1152.3	137.31	3.0357	1.708
	14.50	1315.5	1160.8	137.30	2.9655	1.730
	15.00	1323.4	1168.7	137.30	2.9000	1.751
	15.50	1330.7	1176.0	137.28	2.8387	1.771
	16.00	1337.5	1182.9	137.28	2.7812	1.789
	16.50	1343.9	1189.2	137.27	2.7273	1.806
	17.00	1349.8	1195.1	137.26	2.6765	1.822
	17.50	1355.3	1200.7	137.26	2.6286	1.837
	18.00	1360.5	1205.8	137.25	2.5833	1.851
	18.50	1365.4	1210.7	137.24	2.5405	1.864
	19.00	1369.9	1215.3	137.23	2.5000	1.877
	19.50	1374.2	1219.6	137.22	2.4615	1.888
	20.00	1378.2	1223.6	137.21	2.4250	1.900
	20.50	1382.0	1227.4	137.21	2.3902	1.910
	21.00	1385.6	1231.0	137.21	2.3571	1.920

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97

TIME: 04:00:38

Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
21.50	1389.0	1234.4	137.20	137.20	2.3256	1.929
22.00	1392.2	1237.6	137.19	137.19	2.2955	1.938
22.50	1395.3	1240.6	137.18	137.18	2.2667	1.947
23.00	1398.2	1243.5	137.18	137.18	2.2391	1.955
23.50	1400.9	1246.3	137.17	137.17	2.2128	1.963
24.00	1403.5	1248.9	137.16	137.16	2.1875	1.970
24.50	1406.0	1251.4	137.15	137.15	2.1633	1.977
25.00	1408.3	1253.7	137.14	137.14	2.1400	1.983
25.50	1410.6	1256.0	137.14	137.14	2.1176	1.990
26.00	1412.8	1258.1	137.13	137.13	2.0962	1.996
26.50	1414.8	1260.1	137.12	137.12	2.0755	2.002
27.00	1416.7	1262.1	137.12	137.12	2.0556	2.007
27.50	1418.6	1263.9	137.10	137.10	2.0364	2.012
28.00	1420.4	1265.7	137.10	137.10	2.0179	2.017
28.50	1422.1	1267.4	137.09	137.09	2.0000	2.022
29.00	1423.7	1269.1	137.07	137.07	1.9828	2.027
29.50	1425.3	1270.6	137.06	137.06	1.9661	2.031
30.00	1426.8	1272.2	137.06	137.06	1.9500	2.036
30.50	1428.3	1273.6	137.05	137.05	1.9344	2.040
31.00	1429.6	1275.0	137.04	137.04	1.9194	2.044
31.50	1431.0	1276.4	137.02	137.02	1.9048	2.048
32.00	1432.3	1277.6	137.01	137.01	1.8906	2.051
32.50	1433.5	1278.9	136.99	136.99	1.8769	2.055
33.00	1434.7	1280.1	136.99	136.99	1.8636	2.058
33.50	1435.9	1281.2	136.97	136.97	1.8507	2.062
34.00	1437.0	1282.3	136.96	136.96	1.8382	2.065
34.50	1438.1	1283.5	136.95	136.95	1.8261	2.068
35.00	1439.1	1284.4	136.94	136.94	1.8143	2.071
35.50	1440.1	1285.4	136.93	136.93	1.8028	2.074
36.00	1441.1	1286.4	136.91	136.91	1.7917	2.077
36.50	1442.0	1287.4	136.91	136.91	1.7808	2.079
37.00	1442.9	1288.3	136.89	136.89	1.7703	2.082
37.50	1443.8	1289.1	136.89	136.89	1.7600	2.084
38.00	1444.6	1290.0	136.87	136.87	1.7500	2.087
38.50	1445.5	1290.9	136.86	136.86	1.7403	2.089
39.00	1446.3	1291.7	136.85	136.85	1.7308	2.092
39.50	1447.1	1292.4	136.84	136.84	1.7215	2.094
40.00	1447.8	1293.2	136.83	136.83	1.7125	2.096
40.50	1448.6	1294.0	136.82	136.82	1.7037	2.098
41.00	1449.3	1294.7	136.81	136.81	1.6951	2.100
41.50	1450.0	1295.3	136.81	136.81	1.6867	2.102
42.00	1450.7	1296.0	136.78	136.78	1.6786	2.104
42.50	1451.3	1296.7	136.78	136.78	1.6706	2.106
43.00	1451.9	1297.3	136.77	136.77	1.6628	2.108
43.50	1452.6	1297.9	136.76	136.76	1.6552	2.110
44.00	1453.2	1298.5	136.75	136.75	1.6477	2.112
44.50	1453.8	1299.1	136.74	136.74	1.6404	2.113
45.00	1454.4	1299.7	136.73	136.73	1.6333	2.115
45.50	1455.0	1300.3	136.72	136.72	1.6264	2.117
46.00	1455.5	1300.8	136.71	136.71	1.6196	2.118
46.50	1456.0	1301.3	136.70	136.70	1.6129	2.120

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97

TIME: 04:00:38

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	47.00	1456.5	1301.8	136.69	1.6064	2.121
	47.50	1457.0	1302.4	136.68	1.6000	2.123
	48.00	1457.5	1302.9	136.67	1.5938	2.124
	48.50	1458.0	1303.4	136.66	1.5876	2.126
	49.00	1458.5	1303.8	136.65	1.5816	2.127
	49.50	1458.9	1304.3	136.64	1.5758	2.129
	50.00	1459.4	1304.8	136.63	1.5700	2.130
	50.50	1459.8	1305.2	136.63	1.5644	2.131
	51.00	1460.2	1305.6	136.62	1.5588	2.132
	51.50	1460.7	1306.0	136.60	1.5534	2.134
	52.00	1461.1	1306.4	136.60	1.5481	2.135
	52.50	1461.5	1306.8	136.59	1.5429	2.136
	53.00	1461.9	1307.2	136.59	1.5377	2.137
	53.50	1462.3	1307.6	136.57	1.5327	2.138
	54.00	1462.7	1308.0	136.56	1.5278	2.139
	54.50	1463.0	1308.4	136.56	1.5229	2.140
	55.00	1463.4	1308.7	136.54	1.5182	2.141
	55.50	1463.7	1309.1	136.54	1.5135	2.143
	56.00	1464.1	1309.5	136.53	1.5089	2.144
	56.50	1464.4	1309.8	136.53	1.5044	2.145
	57.00	1464.8	1310.1	136.51	1.5000	2.146
	57.50	1465.1	1310.5	136.51	1.4957	2.147
	58.00	1465.4	1310.8	136.51	1.4914	2.148
	58.50	1465.8	1311.1	136.49	1.4872	2.148
	59.00	1466.1	1311.4	136.48	1.4831	2.149
	59.50	1466.4	1311.7	136.48	1.4790	2.150
	60.00	1466.7	1312.0	136.47	1.4750	2.151
***** End Shut-in 1	60.50	1467.0	1312.3	136.46	1.4711	2.152
***** Start Flow 2	0.00	208.0	0.0	136.45		
	0.50	179.8	-28.2	136.40		
	1.00	180.2	-27.8	136.31		
	1.50	182.6	-25.4	136.17		
	2.00	184.7	-23.3	136.00		
	2.50	186.3	-21.7	135.82		
	3.00	187.6	-20.4	135.66		
	3.50	187.8	-20.1	135.52		
	4.00	188.1	-19.9	135.41		
	4.50	189.6	-18.4	135.32		
	5.00	191.9	-16.1	135.26		
	5.50	193.0	-14.9	135.23		
	6.00	194.3	-13.7	135.21		
	6.50	196.1	-11.9	135.20		
	7.00	197.7	-10.3	135.21		
	7.50	199.0	-9.0	135.23		
	8.00	200.4	-7.6	135.25		
	8.50	201.7	-6.3	135.29		
	9.00	202.8	-5.1	135.33		
	9.50	204.1	-3.8	135.37		
	10.00	205.2	-2.7	135.41		
	10.50	206.6	-1.4	135.46		
	11.00	207.7	-0.3	135.51		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97

TIME: 04:00:38  
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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
11.50	208.7	0.8	135.56		
12.00	210.2	2.3	135.62		
12.50	211.5	3.5	135.66		
13.00	212.8	4.8	135.72		
13.50	213.9	5.9	135.78		
14.00	214.8	6.8	135.84		
14.50	216.2	8.2	135.90		
15.00	217.4	9.4	135.96		
15.50	218.7	10.7	136.02		
16.00	219.7	11.7	136.08		
16.50	220.8	12.8	136.14		
17.00	222.1	14.1	136.20		
17.50	223.1	15.2	136.27		
18.00	223.9	16.0	136.33		
18.50	225.5	17.5	136.40		
19.00	226.4	18.4	136.47		
19.50	227.6	19.6	136.53		
20.00	229.1	21.1	136.60		
20.50	229.7	21.7	136.67		
21.00	230.8	22.8	136.74		
21.50	232.4	24.4	136.81		
22.00	233.3	25.4	136.87		
22.50	234.4	26.4	136.94		
23.00	235.4	27.4	137.01		
23.50	236.5	28.5	137.07		
24.00	237.3	29.3	137.14		
24.50	238.7	30.7	137.20		
25.00	239.6	31.6	137.27		
25.50	240.9	32.9	137.33		
26.00	242.1	34.1	137.38		
26.50	242.6	34.6	137.44		
27.00	244.1	36.1	137.49		
27.50	245.0	37.0	137.54		
28.00	246.0	38.0	137.59		
28.50	246.6	38.6	137.63		
29.00	248.1	40.1	137.68		
29.50	249.0	41.0	137.72		
30.00	249.9	42.0	137.77		
30.50	251.2	43.2	137.80		
31.00	252.2	44.2	137.84		
31.50	253.6	45.6	137.87		
32.00	254.0	46.0	137.91		
32.50	255.8	47.8	137.94		
33.00	256.5	48.5	137.98		
33.50	257.7	49.7	138.02		
34.00	258.8	50.8	138.06		
34.50	259.7	51.7	138.09		
35.00	260.8	52.8	138.13		
35.50	261.3	53.3	138.15		
36.00	262.5	54.5	138.19		
36.50	263.7	55.7	138.22		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97

TIME: 04:00:38

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6	
37.00	264.3	56.3	138.25			
37.50	265.8	57.8	138.28			
38.00	266.6	58.6	138.31			
38.50	267.8	59.8	138.34			
39.00	268.7	60.7	138.37			
39.50	269.7	61.7	138.40			
40.00	270.7	62.7	138.43			
40.50	271.7	63.7	138.46			
41.00	272.9	64.9	138.48			
41.50	274.0	66.0	138.51			
42.00	275.0	67.0	138.55			
42.50	276.0	68.0	138.57			
43.00	277.1	69.1	138.60			
43.50	278.2	70.2	138.63			
44.00	279.2	71.2	138.66			
44.50	280.6	72.7	138.69			
45.00	280.8	72.9	138.72			
45.50	281.8	73.9	138.74			
46.00	283.3	75.3	138.77			
46.50	284.1	76.1	138.79			
47.00	285.2	77.2	138.82			
47.50	286.3	78.3	138.84			
48.00	287.3	79.3	138.86			
48.50	288.1	80.1	138.89			
49.00	289.4	81.4	138.92			
49.50	290.5	82.5	138.94			
50.00	291.2	83.2	138.96			
50.50	292.3	84.4	138.98			
51.00	293.3	85.3	139.00			
51.50	294.5	86.5	139.03			
52.00	295.1	87.2	139.05			
52.50	296.0	88.0	139.07			
53.00	296.8	88.8	139.10			
53.50	298.2	90.2	139.12			
54.00	299.1	91.1	139.14			
54.50	300.0	92.0	139.16			
55.00	300.6	92.6	139.18			
55.50	302.3	94.3	139.21			
56.00	303.1	95.1	139.22			
56.50	303.8	95.8	139.25			
57.00	304.9	97.0	139.27			
57.50	306.3	98.3	139.29			
58.00	307.1	99.1	139.32			
58.50	308.1	100.1	139.34			
59.00	308.8	100.8	139.36			
***** End Flow 2						
***** Start Shutin 2	0.00	308.8	0.0	139.36	0.0000	0.095
	0.50	345.6	36.8	139.38	176.0000	0.119
	1.00	460.6	151.8	139.40	88.5000	0.212
	1.50	568.9	260.1	139.42	59.3333	0.324
	2.00	669.3	360.5	139.45	44.7500	0.448
	2.50	756.9	448.1	139.49	36.0000	0.573

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97

TIME: 04:00:38

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
3.00	828.2	519.3	139.52	30.1667	0.686
3.50	886.9	578.0	139.56	26.0000	0.787
4.00	938.9	630.1	139.60	22.8750	0.882
4.50	980.1	671.3	139.64	20.4444	0.961
5.00	1014.6	705.7	139.68	18.5000	1.029
5.50	1044.2	735.3	139.71	16.9091	1.090
6.00	1070.0	761.2	139.75	15.5833	1.145
6.50	1092.8	784.0	139.78	14.4615	1.194
7.00	1113.7	804.9	139.81	13.5000	1.240
7.50	1132.4	823.6	139.85	12.6667	1.282
8.00	1149.4	840.6	139.86	11.9375	1.321
8.50	1164.8	856.0	139.88	11.2941	1.357
9.00	1178.9	870.1	139.90	10.7222	1.390
9.50	1192.0	883.2	139.92	10.2105	1.421
10.00	1204.1	895.2	139.93	9.7500	1.450
10.50	1215.3	906.5	139.95	9.3333	1.477
11.00	1225.8	916.9	139.96	8.9545	1.503
11.50	1235.6	926.8	139.96	8.6087	1.527
12.00	1244.9	936.0	139.97	8.2917	1.550
12.50	1253.5	944.7	139.98	8.0000	1.571
13.00	1261.7	952.9	139.98	7.7308	1.592
13.50	1269.5	960.6	139.99	7.4815	1.612
14.00	1276.7	967.9	139.99	7.2500	1.630
14.50	1283.5	974.7	139.99	7.0345	1.647
15.00	1290.0	981.2	139.99	6.8333	1.664
15.50	1296.1	987.3	139.99	6.6452	1.680
16.00	1301.9	993.1	139.99	6.4688	1.695
16.50	1307.4	998.6	139.99	6.3030	1.709
17.00	1312.6	1003.8	139.99	6.1471	1.723
17.50	1317.6	1008.8	139.99	6.0000	1.736
18.00	1322.4	1013.6	139.98	5.8611	1.749
18.50	1326.9	1018.1	139.97	5.7297	1.761
19.00	1331.3	1022.5	139.97	5.6053	1.772
19.50	1335.5	1026.6	139.97	5.4872	1.783
20.00	1339.5	1030.7	139.96	5.3750	1.794
20.50	1343.3	1034.4	139.96	5.2683	1.804
21.00	1346.2	1037.3	139.95	5.1667	1.812
21.50	1350.0	1041.2	139.94	5.0698	1.823
22.00	1353.5	1044.7	139.94	4.9773	1.832
22.50	1356.8	1048.0	139.93	4.8889	1.841
23.00	1359.9	1051.1	139.92	4.8043	1.849
23.50	1362.9	1054.1	139.92	4.7234	1.857
24.00	1365.7	1056.9	139.91	4.6458	1.865
24.50	1368.4	1059.6	139.90	4.5714	1.873
25.00	1371.0	1062.2	139.89	4.5000	1.880
25.50	1373.6	1064.7	139.88	4.4314	1.887
26.00	1376.0	1067.1	139.87	4.3654	1.893
26.50	1378.3	1069.4	139.86	4.3019	1.900
27.00	1380.4	1071.6	139.86	4.2407	1.905
27.50	1382.5	1073.7	139.85	4.1818	1.911
28.00	1384.6	1075.8	139.83	4.1250	1.917

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.  
 DATE: 06/22/97 TIME: 04:00:38

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
28.50	1386.7	1077.8	139.82	4.0702	1.923
29.00	1388.6	1079.8	139.80	4.0172	1.928
29.50	1390.5	1081.7	139.80	3.9661	1.933
30.00	1392.3	1083.5	139.79	3.9167	1.938
30.50	1394.1	1085.3	139.78	3.8689	1.943
31.00	1395.8	1087.0	139.76	3.8226	1.948
31.50	1397.4	1088.6	139.76	3.7778	1.953
32.00	1399.0	1090.2	139.74	3.7344	1.957
32.50	1400.6	1091.8	139.73	3.6923	1.962
33.00	1402.1	1093.2	139.72	3.6515	1.966
33.50	1403.5	1094.7	139.71	3.6119	1.970
34.00	1404.9	1096.1	139.70	3.5735	1.974
34.50	1406.3	1097.5	139.69	3.5362	1.978
35.00	1407.7	1098.8	139.68	3.5000	1.982
35.50	1408.9	1100.1	139.67	3.4648	1.985
36.00	1410.2	1101.3	139.67	3.4306	1.989
36.50	1411.4	1102.6	139.66	3.3973	1.992
37.00	1412.6	1103.8	139.65	3.3649	1.995
37.50	1413.7	1104.9	139.64	3.3333	1.999
38.00	1414.8	1106.0	139.64	3.3026	2.002
38.50	1416.0	1107.2	139.63	3.2727	2.005
39.00	1417.1	1108.3	139.62	3.2436	2.008
39.50	1418.1	1109.3	139.61	3.2152	2.011
40.00	1419.1	1110.3	139.61	3.1875	2.014
40.50	1420.1	1111.3	139.60	3.1605	2.017
41.00	1421.1	1112.3	139.60	3.1341	2.020
41.50	1422.0	1113.1	139.59	3.1084	2.022
42.00	1422.9	1114.1	139.58	3.0833	2.025
42.50	1423.8	1115.0	139.58	3.0588	2.027
43.00	1424.7	1115.9	139.57	3.0349	2.030
43.50	1425.5	1116.7	139.57	3.0115	2.032
44.00	1426.4	1117.5	139.56	2.9886	2.035
44.50	1427.2	1118.4	139.55	2.9663	2.037
45.00	1428.0	1119.1	139.54	2.9444	2.039
45.50	1428.7	1119.9	139.54	2.9231	2.041
46.00	1429.5	1120.7	139.53	2.9022	2.043
46.50	1430.2	1121.4	139.52	2.8817	2.046
47.00	1431.0	1122.1	139.52	2.8617	2.048
47.50	1431.7	1122.8	139.51	2.8421	2.050
48.00	1432.4	1123.6	139.51	2.8229	2.052
48.50	1433.1	1124.2	139.50	2.8041	2.054
49.00	1433.7	1124.9	139.49	2.7857	2.056
49.50	1434.4	1125.5	139.48	2.7677	2.057
50.00	1435.0	1126.2	139.49	2.7500	2.059
50.50	1435.6	1126.8	139.48	2.7327	2.061
51.00	1436.2	1127.4	139.47	2.7157	2.063
51.50	1436.8	1128.0	139.46	2.6990	2.065
52.00	1437.4	1128.6	139.45	2.6827	2.066
52.50	1438.0	1129.2	139.45	2.6667	2.068
53.00	1438.5	1129.7	139.45	2.6509	2.069
53.50	1439.1	1130.3	139.44	2.6355	2.071

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97

TIME: 04:00:38

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
54.00	1439.6	1130.8	139.44	2.6204	2.073
54.50	1440.2	1131.3	139.43	2.6055	2.074
55.00	1440.6	1131.8	139.42	2.5909	2.075
55.50	1441.2	1132.4	139.41	2.5766	2.077
56.00	1441.7	1132.9	139.41	2.5625	2.079
56.50	1442.2	1133.3	139.41	2.5487	2.080
57.00	1442.6	1133.8	139.40	2.5351	2.081
57.50	1443.1	1134.3	139.39	2.5217	2.083
58.00	1443.6	1134.8	139.39	2.5086	2.084
58.50	1444.0	1135.2	139.39	2.4957	2.085
59.00	1444.5	1135.7	139.38	2.4831	2.087
59.50	1445.0	1136.1	139.37	2.4706	2.088
60.00	1445.4	1136.6	139.36	2.4583	2.089
60.50	1445.9	1137.1	139.36	2.4463	2.091
61.00	1446.3	1137.5	139.36	2.4344	2.092
61.50	1446.7	1137.9	139.35	2.4228	2.093
62.00	1447.1	1138.3	139.35	2.4113	2.094
62.50	1447.5	1138.7	139.34	2.4000	2.095
63.00	1447.9	1139.1	139.34	2.3889	2.096
63.50	1448.3	1139.4	139.34	2.3780	2.097
64.00	1448.7	1139.8	139.33	2.3672	2.099
64.50	1449.1	1140.2	139.33	2.3566	2.100
65.00	1449.4	1140.6	139.32	2.3462	2.101
65.50	1449.8	1141.0	139.32	2.3359	2.102
66.00	1450.2	1141.3	139.31	2.3258	2.103
66.50	1450.5	1141.6	139.31	2.3158	2.104
67.00	1450.8	1142.0	139.30	2.3060	2.105
67.50	1451.2	1142.3	139.29	2.2963	2.106
68.00	1451.5	1142.7	139.29	2.2868	2.107
68.50	1451.8	1143.0	139.28	2.2774	2.108
69.00	1452.2	1143.3	139.28	2.2681	2.109
69.50	1452.5	1143.6	139.28	2.2590	2.110
70.00	1452.8	1144.0	139.27	2.2500	2.111
70.50	1453.1	1144.3	139.27	2.2411	2.112
71.00	1453.4	1144.6	139.27	2.2324	2.112
71.50	1453.7	1144.9	139.26	2.2238	2.113
72.00	1454.0	1145.2	139.26	2.2153	2.114
72.50	1454.3	1145.5	139.25	2.2069	2.115
73.00	1454.6	1145.8	139.25	2.1986	2.116
73.50	1454.9	1146.1	139.24	2.1905	2.117
74.00	1455.2	1146.4	139.24	2.1824	2.118
74.50	1455.4	1146.6	139.23	2.1745	2.118
75.00	1455.7	1146.9	139.23	2.1667	2.119
75.50	1456.0	1147.2	139.22	2.1589	2.120
76.00	1456.2	1147.4	139.22	2.1513	2.121
76.50	1456.5	1147.7	139.22	2.1438	2.121
77.00	1456.7	1147.9	139.21	2.1364	2.122
77.50	1457.0	1148.2	139.21	2.1290	2.123
78.00	1457.3	1148.4	139.20	2.1218	2.124
78.50	1457.5	1148.7	139.20	2.1146	2.124
79.00	1457.8	1148.9	139.20	2.1076	2.125

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

DATE: 06/22/97

TIME: 04:00:38

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	79.50	1458.0	1149.2	139.20	2.1006	2.126
	80.00	1458.3	1149.4	139.19	2.0938	2.127
	80.50	1458.5	1149.6	139.18	2.0870	2.127
	81.00	1458.7	1149.9	139.18	2.0802	2.128
	81.50	1458.9	1150.1	139.18	2.0736	2.128
	82.00	1459.1	1150.3	139.17	2.0671	2.129
	82.50	1459.4	1150.6	139.17	2.0606	2.130
	83.00	1459.6	1150.8	139.16	2.0542	2.130
	83.50	1459.8	1151.0	139.16	2.0479	2.131
	84.00	1460.0	1151.2	139.16	2.0417	2.132
	84.50	1460.3	1151.5	139.16	2.0355	2.133
	85.00	1460.5	1151.7	139.15	2.0294	2.133
	85.50	1460.7	1151.9	139.15	2.0234	2.134
	86.00	1461.0	1152.1	139.15	2.0174	2.134
	86.50	1461.1	1152.3	139.15	2.0116	2.135
	87.00	1461.4	1152.5	139.14	2.0057	2.136
	87.50	1461.6	1152.8	139.14	2.0000	2.136
	88.00	1461.8	1152.9	139.15	1.9943	2.137
	88.50	1462.0	1153.2	139.15	1.9887	2.137
	89.00	1462.2	1153.4	139.13	1.9831	2.138
	89.50	1462.4	1153.6	139.12	1.9777	2.139
	90.00	1462.6	1153.8	139.10	1.9722	2.139
***** End Shut-in 2	90.50	1462.8	1154.0	139.10	1.9669	2.140
***** Final Hydro.	334.00	2417.3	0.0	139.12		

# TEST HISTORY

10054 DST#4 LEWIS A #1 ROBINSON OIL CO.

Flag Points

t (Min.) P (PSIG)

A:	0.00	2470.26
B:	0.00	89.71
C:	28.50	154.63
D:	60.50	1466.96
E:	0.00	207.99
F:	59.00	308.82
G:	90.50	1462.79
Q:	0.00	2417.25

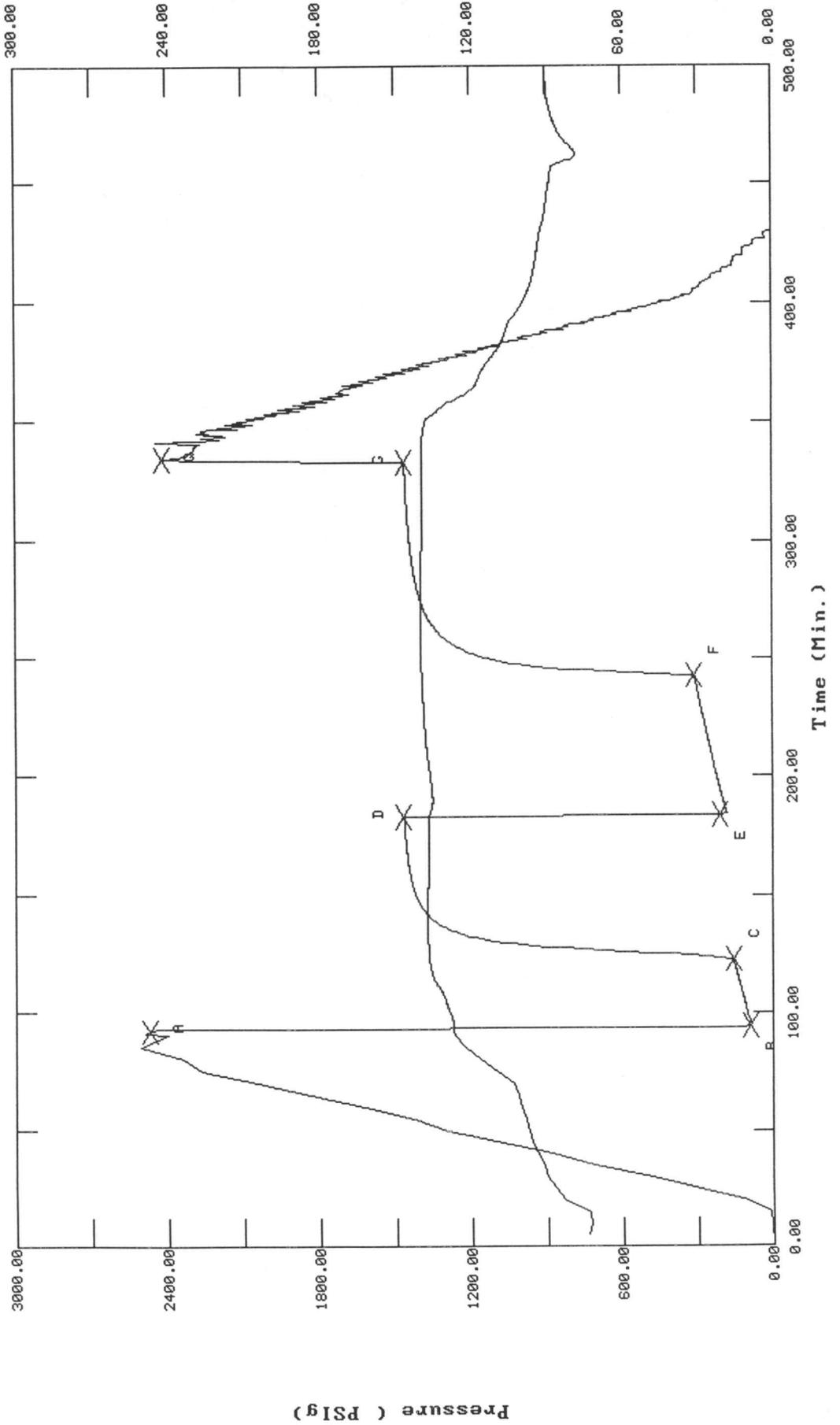
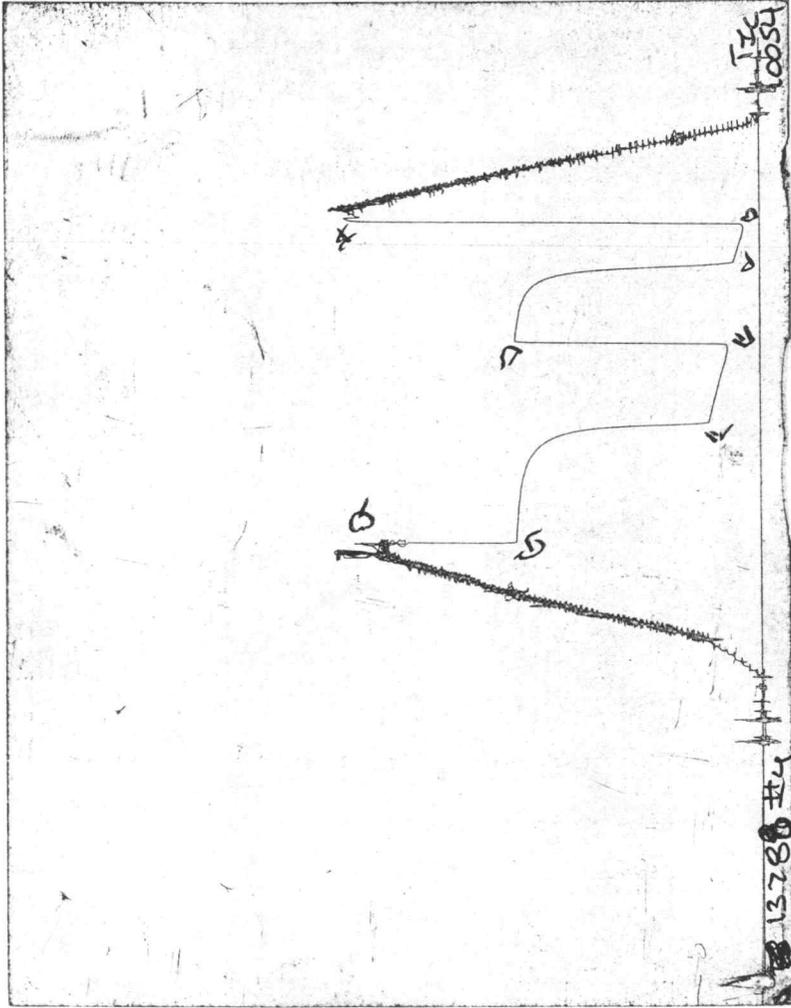
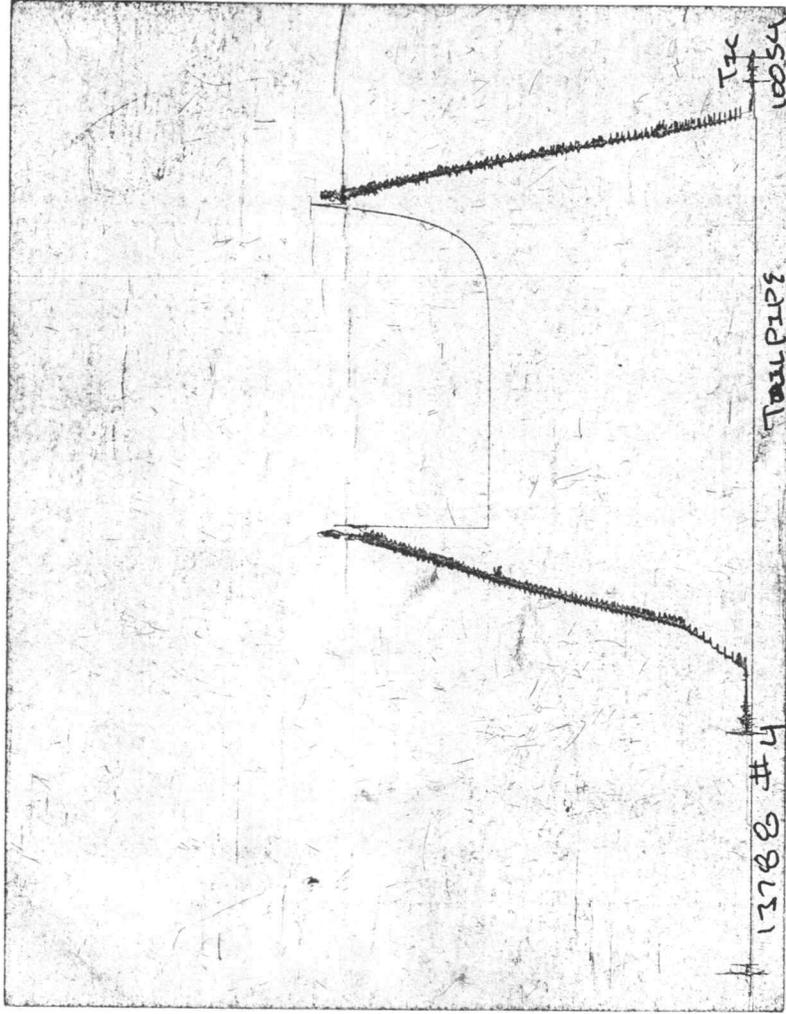


CHART PAGE



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

CHART PAGE



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

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, L. L. C.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 316-624-5389  
Fax: 316-626-7108

Lab Number:	971794	Analyzed:	06/24/97
Sample From:	Lewis B DST 1	Pressure:	
Producer:	Robinson Oil Co.	Temperature:	
Date:		Location:	8-26-19
Time:		County:	Edwards
Sampler:		State:	Kansas
Source:		Formation:	Lans/Miss

	Mole %	GPM
Helium	He: 2.093	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 31.498	0.000
Carbon Dioxide	CO2: 0.177	0.000
Methane	C1: 57.438	0.000
Ethane	C2: 5.431	1.453
Propane	C3: 1.939	0.534
Iso Butane	iC4: 0.342	0.112
Normal Butane	nC4: 0.580	0.183
Iso Pentane	iC5: 0.136	0.050
Normal Pentane	nC5: 0.134	0.049
Hexanes Plus	C6+: 0.232	0.101

TOTAL: 100.000 2.481  
Z Fact: 0.9983  
SP.GR.: 0.7470  
BTU (SAT): 767.3 @ 14.73 psia  
BTU (DRY): 780.9 @ 14.73 psia  
OCTANE RATING: 83.2

COMMENTS:

4.536

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L. L. C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

Analyzed by:  
 Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 316-624-5389  
 Fax: 316-626-7108

Lab Number:	971795	Analyzed:	06/24/97
Sample From:	Lewis A-1 DST 2	Pressure:	
Producer:	Robinson Oil Co.	Temperature:	
Date:		Location:	8-26-19
Time:		County:	Edwards
Sampler:		State:	Kansas
Source:		Formation:	Lans/Drum

	Mole %	GPM
Helium	He: 0.484	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 24.555	0.000
Carbon Dioxide	CO2: 0.038	0.000
Methane	C1: 65.329	0.000
Ethane	C2: 3.885	1.039
Propane	C3: 2.355	0.649
Iso Butane	iC4: 0.593	0.194
Normal Butane	nC4: 1.181	0.372
Iso Pentane	iC5: 0.437	0.160
Normal Pentane	nC5: 0.438	0.159
Hexanes Plus	C6+: 0.705	0.308

TOTAL: 100.000 2.880  
 Z Fact: 0.9978  
 SP.GR.: 0.7569  
 BTU (SAT): 904.9 @ 14.73 psia  
 BTU (DRY): 920.9 @ 14.73 psia  
 OCTANE RATING: 93.6

COMMENTS:

0.000

NATURAL GAS ANALYSIS REPORT

Sampled by:  
 Trilobite Testing, L. L. C.  
 Hays, Kansas  
 Scott City, Kansas  
 Phone: 800-728-5369  
 Fax: 913-625-5620

Analyzed by:  
 Caraway Analytical, Inc  
 P. O. Box 2137  
 Liberal, Kansas 67905  
 Phone: 316-624-5389  
 Fax: 316-626-7108

Lab Number:	971796	Analyzed:	06/24/97
Sample From:	Lewis A-1 DST 3	Pressure:	
Producer:	Robinson Oil Co.	Temperature:	
Date:		Location:	8-26-19
Time:		County:	Edwards
Sampler:		State:	Kansas
Source:		Formation:	Miss

	Mole %	GPM
Helium	He: 2.338	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 25.148	0.000
Carbon Dioxide	CO2: 0.102	0.000
Methane	C1: 61.280	0.000
Ethane	C2: 5.931	1.586
Propane	C3: 2.343	0.646
Iso Butane	iC4: 0.474	0.155
Normal Butane	nC4: 0.854	0.269
Iso Pentane	iC5: 0.266	0.097
Normal Pentane	nC5: 0.294	0.106
Hexanes Plus	C6+: 0.970	0.423

TOTAL: 100.000 3.283  
 Z Fact: 0.9979  
 SP.GR.: 0.7565  
 BTU (SAT): 886.6 @ 14.73 psia  
 BTU (DRY): 902.2 @ 14.73 psia  
 OCTANE RATING: 89.8

COMMENTS:

0.000