

**WELL NAME:** MLP Younggren  
**COMPANY:** Oxy USA Inc  
**LOCATION:** 3-32S-39W  
Morton County Kansas  
**DATE:** 07/07/97

TRILOBITE TESTING L.L.C.

OPERATOR : OXY USA Inc. DATE 6-24-97  
 WELL NAME: MLP Younggren KB 3224.00 ft TICKET NO: 9140 DST #1  
 LOCATION : 3-32s-39w GR 3213.00 ft FORMATION: MARMATON  
 INTERVAL : 4670.00 To 4725.00 ft TD 4670.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	1055	1055	3024			PF Fr. 0210 to 0240 hr
SI 60 Range(Psi )	4653.0	4653.0	4995.0	0.0	0.0	IS Fr. 0240 to 0340 hr
SF 60 Clock(hrs)	12	12 hr	Elec			SF Fr. 0340 to 0440 hr
FS 120 Depth(ft )	4720.0	4720.0	4672.0	0.0	0.0	FS Fr. 0440 to 0640 hr

	Field	1	2	3	4	
A. Init Hydro	2268.0	2255.0	2271.0	0.0	0.0	T STARTED 2410 hr
B. First Flow	43.0	61.0	22.0	0.0	0.0	T ON BOTM 0207 hr
B1. Final Flow	65.0	81.0	68.0	0.0	0.0	T OPEN 0210 hr
C. In Shut-in	1287.0	1303.0	1295.0	0.0	0.0	T PULLED 0640 hr
D. Init Flow	97.0	110.0	55.0	0.0	0.0	T OUT 0930 hr
E. Final Flow	150.0	157.0	133.0	0.0	0.0	
F. Fl Shut-in	1307.0	1290.0	1272.0	0.0	0.0	
G. Final Hydro	2400.0	2235.0	2194.0	0.0	0.0	
Inside/Outside	I	I	O			

RECOVERY

Tot Fluid 270.00 ft of 270.00 ft in DC and 0.00 ft in DP  
 90.00 ft of Mud 100%  
 180.00 ft of Watrey Mud 30% Water 70%Mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 55000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----  
 Tool Wt. 1800.00 lbs  
 Wt Set On Packer 32000.00 lbs  
 Wt Pulled Loose 120000.00 lbs  
 Initial Str Wt 102000.00 lbs  
 Unseated Str Wt 103000.00 lbs  
 Bot Choke 0.75 in  
 Hole Size 7.78 in  
 D Col. ID 2.25 in  
 D. Pipe ID 3.80 in  
 D.C. Length 634.00 ft  
 D.P. Length 4037.00 ft

BLOW DESCRIPTION

Initial Opening  
 Strong blow built to B.O.B in 6 min.  
 Inital  
 No blow back  
 Final Flow  
 Strong blow built to B.O.B. in 15 sec.  
 Final Shut-in  
 Blow back built to B.O.B. in 32 min.  
 Gas to Surface in 70 min. Gas will burn.

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.10 lb/c  
 Vis. 47.00 S/L  
 W.L. 9.60 in3  
 F.C. 0.00 in  
 Mud Drop Y 60.0 ft  
 Amt. of fill 1.00 ft  
 Btm. H. Temp. 117.00 F  
 Hole Condition good  
 % Porosity 20.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Larry Small Jr.  
 Co. Rep. Austin Garner  
 Contr. Beredco  
 Rig # 1  
 Unit #  
 Pump T.

SAMPLES: 1 yes  
 SENT TO:Caraway Lab Liberal

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: MLP Younggren

LOCATION : 3-32s-39w

TICKET No. 9140 D.S.T. No. 1 DATE 6-24-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 28

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 24

TOTAL TOOL ..... 52

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY ..... 83

D.C. ABOVE TOOLS.Stands7 Single Total 634

D.P. ABOVE TOOLS.Stands Single Total 4037

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4754

TOTAL DEPTH ..... 4725

TOTAL DRILL PIPE ABOVE K.B. .... 29

REMARKS:

Sampler Data

P.O. SUB top of tool	4642
C.O. SUB 1tf.	4643
S.I. TOOL Sterling 5ft.	4644
Sampler 3ft.	4649
HMV Sterling 5ft.	4652
JARS Sterling 5ft.	4657
SAFETY JOINT Bowen 3ft.	4662
PACKER top 5ft.	4665
PACKER bottom 5ft.	4670
DEPTH 4670	
STUBB 1ft.	4671
ANCHOR 1ft. perf.	4672
Alpine Rec. @ 4572	
5ft. pick up sub.	4677
5ft. perf.	4682
5ft. perf.	4687
1ft.c/o	4688
T.C.	
DEPTH	
31ft. drill pipe	4719
1ft. c/o	4720
AK-1 Rec. @ 4720	
BULLNOSE	
T.D. 5ft.	4725

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: 971866  
 Sample From: MLP Youngren A-2 DST 1  
 Producer: Oxy USA, Inc.  
 Date:  
 Time:  
 Sampler:  
 Source:

Analyzed: 06/30/97  
 Pressure:  
 Temperature:  
 Location: 3-32-39  
 County: Morton  
 State: Kansas  
 Formation: Marmaton

	Mole %	GPM
Helium	He: 0.258	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 10.738	0.000
Carbon Dioxide	CO2: 0.770	0.000
Methane	C1: 73.861	0.000
Ethane	C2: 6.903	1.846
Propane	C3: 4.589	1.264
Iso Butane	iC4: 0.407	0.133
Normal Butane	nC4: 1.141	0.360
Iso Pentane	iC5: 0.269	0.098
Normal Pentane	nC5: 0.314	0.114
Hexanes Plus	C6+: 0.750	0.327

TOTAL: 100.000 4.143  
 Z Fact: 0.9972  
 SP.GR.: 0.7363  
 BTU (SAT): 1082.4 @ 14.73 psia  
 BTU (DRY): 1101.5 @ 14.73 psia  
 OCTANE RATING: 109.5

COMMENTS:

1.951

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

	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>
***** Initial Hydro.	124.75	2272.0	0.0	113.49		
***** Start Flow 1	0.00	22.5	0.0	113.74		
	0.25	22.8	0.3	113.81		
	0.50	24.4	1.9	113.90		
	0.75	25.0	2.6	113.98		
	1.00	26.6	4.1	114.09		
	1.25	27.5	5.1	114.19		
	1.50	30.6	8.1	114.31		
	1.75	32.2	9.7	114.42		
	2.00	29.8	7.4	114.53		
	2.25	36.5	14.0	114.64		
	2.50	31.6	9.1	114.73		
	2.75	33.7	11.2	114.83		
	3.00	36.6	14.1	114.91		
	3.25	32.3	9.8	114.98		
	3.50	32.0	9.6	115.06		
	3.75	32.6	10.2	115.14		
	4.00	35.7	13.2	115.20		
	4.25	34.1	11.6	115.27		
	4.50	34.1	11.7	115.32		
	4.75	34.7	12.2	115.38		
	5.00	35.2	12.7	115.42		
	5.25	35.4	12.9	115.46		
	5.50	35.9	13.4	115.51		
	5.75	36.8	14.3	115.55		
	6.00	37.2	14.7	115.58		
	6.25	37.5	15.0	115.61		
	6.50	38.1	15.6	115.65		
	6.75	44.2	21.7	115.67		
	7.00	38.7	16.2	115.69		
	7.25	44.6	22.2	115.73		
	7.50	45.0	22.6	115.75		
	7.75	40.0	17.6	115.77		
	8.00	40.5	18.1	115.80		
	8.25	44.3	21.8	115.81		
	8.50	41.4	19.0	115.82		
	8.75	42.1	19.7	115.84		
	9.00	42.8	20.3	115.85		
	9.25	44.6	22.1	115.87		
	9.50	45.7	23.3	115.89		
	9.75	46.1	23.7	115.89		
	10.00	46.6	24.2	115.91		
	10.25	45.5	23.1	115.91		
	10.50	45.5	23.1	115.93		
	10.75	46.2	23.8	115.93		
	11.00	46.7	24.3	115.94		
	11.25	47.1	24.6	115.95		
	11.50	47.4	25.0	115.96		
	11.75	48.1	25.6	115.97		
	12.00	48.2	25.8	115.96		
	12.25	52.4	30.0	115.97		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
12.50	50.2	27.8	115.99		
12.75	48.8	26.4	116.00		
13.00	50.1	27.7	115.99		
13.25	50.7	28.3	116.00		
13.50	56.4	34.0	116.00		
13.75	51.4	28.9	116.02		
14.00	51.0	28.6	116.03		
14.25	55.0	32.6	116.02		
14.50	52.8	30.3	116.03		
14.75	52.2	29.8	116.03		
15.00	52.1	29.7	116.05		
15.25	52.7	30.2	116.05		
15.50	52.9	30.4	116.05		
15.75	53.6	31.1	116.05		
16.00	54.0	31.6	116.06		
16.25	58.7	36.2	116.07		
16.50	58.7	36.2	116.07		
16.75	66.5	44.1	116.07		
17.00	57.2	34.8	116.08		
17.25	57.1	34.6	116.08		
17.50	61.4	38.9	116.10		
17.75	56.2	33.8	116.09		
18.00	56.4	33.9	116.10		
18.25	56.8	34.4	116.10		
18.50	57.9	35.5	116.11		
18.75	58.0	35.5	116.11		
19.00	58.3	35.9	116.12		
19.25	62.6	40.2	116.12		
19.50	67.0	44.5	116.12		
19.75	66.2	43.7	116.13		
20.00	75.8	53.3	116.14		
20.25	61.4	39.0	116.14		
20.50	63.3	40.8	116.14		
20.75	69.9	47.5	116.15		
21.00	66.1	43.7	116.15		
21.25	74.7	52.3	116.17		
21.50	66.3	43.8	116.17		
21.75	69.2	46.7	116.17		
22.00	65.3	42.9	116.18		
22.25	73.4	51.0	116.19		
22.50	66.8	44.3	116.19		
22.75	62.9	40.5	116.20		
23.00	62.9	40.5	116.20		
23.25	64.0	41.5	116.21		
23.50	65.5	43.0	116.20		
23.75	66.9	44.5	116.21		
24.00	66.4	44.0	116.22		
24.25	65.9	43.4	116.22		
24.50	65.8	43.4	116.24		
24.75	66.4	44.0	116.24		
25.00	67.1	44.7	116.23		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.25	68.3	45.8	116.24		
	25.50	69.8	47.3	116.26		
	25.75	71.0	48.5	116.26		
	26.00	71.3	48.8	116.26		
	26.25	71.8	49.4	116.26		
	26.50	79.7	57.3	116.27		
	26.75	73.3	50.8	116.28		
	27.00	78.3	55.8	116.29		
	27.25	83.7	61.3	116.29		
	27.50	69.0	46.5	116.30		
***** End Flow 1	27.75	68.8	46.3	116.30		
***** Start Shutin 1	0.00	68.8	0.0	116.30	0.0000	0.005
	0.25	69.6	0.8	116.32	112.0000	0.005
	0.50	72.1	3.3	116.32	56.5000	0.005
	0.75	83.8	15.1	116.33	38.0000	0.007
	1.00	95.5	26.7	116.32	28.7500	0.009
	1.25	105.9	37.2	116.33	23.2000	0.011
	1.50	115.6	46.8	116.33	19.5000	0.013
	1.75	124.4	55.7	116.34	16.8571	0.015
	2.00	131.8	63.0	116.34	14.8750	0.017
	2.25	138.7	69.9	116.35	13.3333	0.019
	2.50	148.6	79.8	116.35	12.1000	0.022
	2.75	165.3	96.5	116.36	11.0909	0.027
	3.00	182.2	113.4	116.37	10.2500	0.033
	3.25	202.3	133.5	116.38	9.5385	0.041
	3.50	222.8	154.1	116.38	8.9286	0.050
	3.75	244.2	175.4	116.38	8.4000	0.060
	4.00	266.6	197.9	116.39	7.9375	0.071
	4.25	289.8	221.0	116.40	7.5294	0.084
	4.50	314.1	245.3	116.40	7.1667	0.099
	4.75	339.0	270.2	116.42	6.8421	0.115
	5.00	368.4	299.7	116.42	6.5500	0.136
	5.25	399.6	330.8	116.43	6.2857	0.160
	5.50	431.7	362.9	116.44	6.0455	0.186
	5.75	464.6	395.8	116.45	5.8261	0.216
	6.00	498.1	429.3	116.46	5.6250	0.248
	6.25	532.0	463.2	116.47	5.4400	0.283
	6.50	566.0	497.2	116.48	5.2692	0.320
	6.75	599.6	530.8	116.49	5.1111	0.360
	7.00	633.0	564.2	116.51	4.9643	0.401
	7.25	665.9	597.1	116.52	4.8276	0.443
	7.50	697.8	629.0	116.53	4.7000	0.487
	7.75	728.7	659.9	116.53	4.5806	0.531
	8.00	758.6	689.8	116.55	4.4688	0.575
	8.25	787.2	718.4	116.56	4.3636	0.620
	8.50	814.5	745.7	116.58	4.2647	0.663
	8.75	840.3	771.5	116.59	4.1714	0.706
	9.00	864.6	795.8	116.61	4.0833	0.748
	9.25	887.5	818.7	116.62	4.0000	0.788
	9.50	908.8	840.0	116.63	3.9211	0.826
	9.75	928.7	860.0	116.65	3.8462	0.863

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.00	947.4	878.6	116.66	3.7750	0.898
10.25	964.9	896.1	116.68	3.7073	0.931
10.50	981.0	912.2	116.69	3.6429	0.962
10.75	996.0	927.2	116.71	3.5814	0.992
11.00	1009.4	940.6	116.72	3.5227	1.019
11.25	1023.0	954.2	116.72	3.4667	1.046
11.50	1035.5	966.7	116.75	3.4130	1.072
11.75	1047.1	978.3	116.76	3.3617	1.096
12.00	1058.0	989.2	116.77	3.3125	1.119
12.25	1068.2	999.4	116.78	3.2653	1.141
12.50	1077.7	1009.0	116.80	3.2200	1.162
12.75	1086.7	1017.9	116.81	3.1765	1.181
13.00	1095.1	1026.3	116.82	3.1346	1.199
13.25	1102.8	1034.0	116.83	3.0943	1.216
13.50	1110.4	1041.6	116.84	3.0556	1.233
13.75	1117.4	1048.6	116.86	3.0182	1.249
14.00	1124.1	1055.3	116.87	2.9821	1.264
14.25	1130.4	1061.6	116.89	2.9474	1.278
14.50	1136.3	1067.5	116.89	2.9138	1.291
14.75	1142.0	1073.2	116.91	2.8814	1.304
15.00	1147.3	1078.6	116.92	2.8500	1.316
15.25	1152.5	1083.7	116.93	2.8197	1.328
15.50	1157.3	1088.5	116.94	2.7903	1.339
15.75	1161.9	1093.2	116.96	2.7619	1.350
16.00	1166.4	1097.6	116.96	2.7344	1.360
16.25	1170.6	1101.9	116.97	2.7077	1.370
16.50	1174.7	1105.9	116.98	2.6818	1.380
16.75	1178.6	1109.8	117.00	2.6567	1.389
17.00	1182.4	1113.6	117.01	2.6324	1.398
17.25	1185.9	1117.1	117.02	2.6087	1.406
17.50	1189.3	1120.6	117.02	2.5857	1.415
17.75	1192.6	1123.8	117.03	2.5634	1.422
18.00	1195.8	1127.0	117.04	2.5417	1.430
18.25	1198.8	1130.0	117.05	2.5205	1.437
18.50	1201.7	1132.9	117.07	2.5000	1.444
18.75	1204.5	1135.7	117.07	2.4800	1.451
19.00	1207.1	1138.3	117.09	2.4605	1.457
19.25	1209.7	1140.9	117.08	2.4416	1.463
19.50	1212.2	1143.4	117.10	2.4231	1.469
19.75	1214.5	1145.8	117.10	2.4051	1.475
20.00	1216.8	1148.0	117.11	2.3875	1.481
20.25	1219.0	1150.2	117.12	2.3704	1.486
20.50	1221.1	1152.3	117.13	2.3537	1.491
20.75	1223.1	1154.4	117.13	2.3373	1.496
21.00	1225.1	1156.3	117.15	2.3214	1.501
21.25	1227.0	1158.2	117.16	2.3059	1.506
21.50	1228.8	1160.0	117.16	2.2907	1.510
21.75	1230.6	1161.8	117.17	2.2759	1.514
22.00	1232.3	1163.5	117.17	2.2614	1.519
22.25	1233.9	1165.1	117.19	2.2472	1.523
22.50	1235.5	1166.7	117.19	2.2333	1.526

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
22.75	1237.0	1168.3	117.21	2.2198	1.530
23.00	1238.5	1169.8	117.20	2.2065	1.534
23.25	1239.9	1171.2	117.22	2.1935	1.537
23.50	1241.3	1172.6	117.22	2.1809	1.541
23.75	1242.7	1173.9	117.23	2.1684	1.544
24.00	1243.9	1175.2	117.23	2.1562	1.547
24.25	1245.2	1176.4	117.24	2.1443	1.550
24.50	1246.4	1177.6	117.24	2.1327	1.553
24.75	1247.6	1178.8	117.26	2.1212	1.556
25.00	1248.7	1179.9	117.26	2.1100	1.559
25.25	1249.8	1181.0	117.28	2.0990	1.562
25.50	1250.8	1182.1	117.28	2.0882	1.565
25.75	1251.9	1183.1	117.29	2.0777	1.567
26.00	1252.9	1184.1	117.29	2.0673	1.570
26.25	1253.8	1185.1	117.30	2.0571	1.572
26.50	1254.8	1186.0	117.31	2.0472	1.575
26.75	1255.7	1187.0	117.31	2.0374	1.577
27.00	1256.6	1187.8	117.32	2.0278	1.579
27.25	1257.5	1188.7	117.32	2.0183	1.581
27.50	1258.3	1189.5	117.33	2.0091	1.583
27.75	1259.1	1190.3	117.33	2.0000	1.585
28.00	1259.9	1191.1	117.34	1.9911	1.587
28.25	1260.7	1191.9	117.35	1.9823	1.589
28.50	1261.4	1192.6	117.35	1.9737	1.591
28.75	1262.2	1193.4	117.36	1.9652	1.593
29.00	1262.9	1194.1	117.36	1.9569	1.595
29.25	1263.5	1194.8	117.37	1.9487	1.597
29.50	1264.2	1195.4	117.37	1.9407	1.598
29.75	1264.9	1196.1	117.38	1.9328	1.600
30.00	1265.5	1196.7	117.39	1.9250	1.602
30.25	1266.1	1197.3	117.39	1.9174	1.603
30.50	1266.7	1198.0	117.40	1.9098	1.605
30.75	1267.3	1198.6	117.41	1.9024	1.606
31.00	1267.9	1199.1	117.41	1.8952	1.608
31.25	1268.5	1199.7	117.42	1.8880	1.609
31.50	1269.0	1200.2	117.43	1.8810	1.610
31.75	1269.5	1200.8	117.43	1.8740	1.612
32.00	1270.0	1201.3	117.44	1.8672	1.613
32.25	1270.5	1201.8	117.45	1.8605	1.614
32.50	1271.0	1202.3	117.45	1.8538	1.616
32.75	1271.5	1202.7	117.46	1.8473	1.617
33.00	1272.0	1203.2	117.47	1.8409	1.618
33.25	1272.4	1203.6	117.47	1.8346	1.619
33.50	1272.9	1204.1	117.48	1.8284	1.620
33.75	1273.3	1204.5	117.48	1.8222	1.621
34.00	1273.7	1204.9	117.49	1.8162	1.622
34.25	1274.1	1205.3	117.49	1.8102	1.623
34.50	1274.5	1205.7	117.49	1.8043	1.624
34.75	1274.9	1206.1	117.50	1.7986	1.625
35.00	1275.3	1206.5	117.51	1.7929	1.626
35.25	1275.7	1206.9	117.51	1.7872	1.627

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
35.50	1276.1	1207.3	117.52	1.7817	1.628
35.75	1276.4	1207.6	117.52	1.7762	1.629
36.00	1276.8	1208.0	117.53	1.7708	1.630
36.25	1277.1	1208.3	117.53	1.7655	1.631
36.50	1277.5	1208.7	117.54	1.7603	1.632
36.75	1277.8	1209.0	117.55	1.7551	1.633
37.00	1278.1	1209.4	117.55	1.7500	1.634
37.25	1278.4	1209.7	117.56	1.7450	1.634
37.50	1278.8	1210.0	117.55	1.7400	1.635
37.75	1279.1	1210.3	117.57	1.7351	1.636
38.00	1279.4	1210.6	117.58	1.7303	1.637
38.25	1279.7	1210.9	117.58	1.7255	1.638
38.50	1280.0	1211.2	117.59	1.7208	1.638
38.75	1280.3	1211.5	117.59	1.7161	1.639
39.00	1280.5	1211.7	117.59	1.7115	1.640
39.25	1280.8	1212.0	117.60	1.7070	1.640
39.50	1281.1	1212.3	117.61	1.7025	1.641
39.75	1281.3	1212.5	117.60	1.6981	1.642
40.00	1281.6	1212.8	117.61	1.6938	1.642
40.25	1281.8	1213.1	117.62	1.6894	1.643
40.50	1282.1	1213.3	117.62	1.6852	1.644
40.75	1282.3	1213.6	117.63	1.6810	1.644
41.00	1282.6	1213.8	117.64	1.6768	1.645
41.25	1282.8	1214.0	117.64	1.6727	1.646
41.50	1283.1	1214.3	117.65	1.6687	1.646
41.75	1283.3	1214.5	117.66	1.6647	1.647
42.00	1283.5	1214.8	117.67	1.6607	1.647
42.25	1283.7	1215.0	117.67	1.6568	1.648
42.50	1284.0	1215.2	117.68	1.6529	1.649
42.75	1284.2	1215.4	117.68	1.6491	1.649
43.00	1284.4	1215.6	117.69	1.6453	1.650
43.25	1284.6	1215.8	117.69	1.6416	1.650
43.50	1284.8	1216.0	117.69	1.6379	1.651
43.75	1285.0	1216.2	117.70	1.6343	1.651
44.00	1285.2	1216.4	117.71	1.6307	1.652
44.25	1285.4	1216.6	117.71	1.6271	1.652
44.50	1285.6	1216.8	117.71	1.6236	1.653
44.75	1285.8	1217.0	117.72	1.6201	1.653
45.00	1285.9	1217.2	117.73	1.6167	1.654
45.25	1286.1	1217.4	117.73	1.6133	1.654
45.50	1286.3	1217.5	117.74	1.6099	1.655
45.75	1286.5	1217.7	117.74	1.6066	1.655
46.00	1286.7	1217.9	117.74	1.6033	1.655
46.25	1286.8	1218.0	117.75	1.6000	1.656
46.50	1287.0	1218.2	117.76	1.5968	1.656
46.75	1287.2	1218.4	117.76	1.5936	1.657
47.00	1287.3	1218.5	117.76	1.5904	1.657
47.25	1287.5	1218.7	117.77	1.5873	1.658
47.50	1287.6	1218.9	117.77	1.5842	1.658
47.75	1287.8	1219.0	117.78	1.5812	1.658
48.00	1288.0	1219.2	117.78	1.5781	1.659

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
48.25	1288.1	1219.3	117.79	1.5751	1.659
48.50	1288.3	1219.5	117.80	1.5722	1.660
48.75	1288.4	1219.7	117.80	1.5692	1.660
49.00	1288.6	1219.8	117.80	1.5663	1.660
49.25	1288.7	1219.9	117.81	1.5635	1.661
49.50	1288.9	1220.1	117.82	1.5606	1.661
49.75	1289.0	1220.2	117.82	1.5578	1.662
50.00	1289.1	1220.4	117.83	1.5550	1.662
50.25	1289.3	1220.5	117.83	1.5522	1.662
50.50	1289.4	1220.6	117.84	1.5495	1.663
50.75	1289.6	1220.8	117.85	1.5468	1.663
51.00	1289.7	1220.9	117.85	1.5441	1.663
51.25	1289.8	1221.0	117.85	1.5415	1.664
51.50	1289.9	1221.1	117.86	1.5388	1.664
51.75	1290.1	1221.3	117.87	1.5362	1.664
52.00	1290.2	1221.4	117.86	1.5337	1.665
52.25	1290.3	1221.5	117.87	1.5311	1.665
52.50	1290.4	1221.7	117.87	1.5286	1.665
52.75	1290.6	1221.8	117.88	1.5261	1.666
53.00	1290.7	1221.9	117.89	1.5236	1.666
53.25	1290.8	1222.0	117.89	1.5211	1.666
53.50	1290.9	1222.1	117.90	1.5187	1.666
53.75	1291.0	1222.3	117.90	1.5163	1.667
54.00	1291.2	1222.4	117.90	1.5139	1.667
54.25	1291.2	1222.5	117.91	1.5115	1.667
54.50	1291.4	1222.6	117.90	1.5092	1.668
54.75	1291.5	1222.7	117.91	1.5068	1.668
55.00	1291.6	1222.8	117.92	1.5045	1.668
55.25	1291.7	1222.9	117.93	1.5023	1.668
55.50	1291.8	1223.0	117.94	1.5000	1.669
55.75	1291.9	1223.1	117.93	1.4978	1.669
56.00	1292.0	1223.2	117.94	1.4955	1.669
56.25	1292.1	1223.3	117.95	1.4933	1.670
56.50	1292.2	1223.4	117.94	1.4912	1.670
56.75	1292.3	1223.5	117.95	1.4890	1.670
57.00	1292.4	1223.6	117.96	1.4868	1.670
57.25	1292.5	1223.7	117.97	1.4847	1.671
57.50	1292.6	1223.8	117.98	1.4826	1.671
57.75	1292.7	1224.0	117.97	1.4805	1.671
58.00	1292.8	1224.0	117.99	1.4784	1.671
58.25	1292.9	1224.1	117.98	1.4764	1.672
58.50	1293.0	1224.2	117.99	1.4744	1.672
58.75	1293.1	1224.3	117.99	1.4723	1.672
59.00	1293.2	1224.4	118.00	1.4703	1.672
59.25	1293.3	1224.5	118.01	1.4684	1.673
59.50	1293.4	1224.6	118.01	1.4664	1.673
59.75	1293.4	1224.7	118.01	1.4644	1.673
60.00	1293.5	1224.7	118.02	1.4625	1.673
60.25	1293.6	1224.8	118.02	1.4606	1.673
60.50	1293.7	1224.9	118.02	1.4587	1.674
60.75	1293.8	1225.0	118.03	1.4568	1.674

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	61.00	1293.8	1225.0	118.03	1.4549	1.674
	61.25	1293.9	1225.1	118.05	1.4531	1.674
	61.50	1294.0	1225.2	118.04	1.4512	1.674
	61.75	1294.1	1225.3	118.05	1.4494	1.675
	62.00	1294.2	1225.4	118.06	1.4476	1.675
	62.25	1294.2	1225.5	118.07	1.4458	1.675
	62.50	1294.3	1225.5	118.07	1.4440	1.675
	62.75	1294.4	1225.6	118.07	1.4422	1.675
	63.00	1294.5	1225.7	118.07	1.4405	1.676
	63.25	1294.6	1225.8	118.08	1.4387	1.676
	63.50	1294.6	1225.9	118.08	1.4370	1.676
	63.75	1294.7	1225.9	118.08	1.4353	1.676
	64.00	1294.8	1226.0	118.09	1.4336	1.677
	64.25	1294.9	1226.1	118.10	1.4319	1.677
	64.50	1294.9	1226.2	118.10	1.4302	1.677
	64.75	1295.0	1226.2	118.10	1.4286	1.677
	65.00	1295.1	1226.3	118.11	1.4269	1.677
	65.25	1295.1	1226.4	118.13	1.4253	1.677
	65.50	1295.2	1226.4	118.12	1.4237	1.678
	65.75	1295.3	1226.5	118.13	1.4221	1.678
	66.00	1295.4	1226.6	118.13	1.4205	1.678
	66.25	1295.4	1226.7	118.14	1.4189	1.678
***** End Shut-in 1	66.50	1295.3	1226.6	118.13	1.4173	1.678
***** Start Flow 2	0.00	55.7	0.0	118.16		
	0.25	57.0	1.3	118.16		
	0.50	60.3	4.6	118.16		
	0.75	66.0	10.3	118.15		
	1.00	71.1	15.4	118.16		
	1.25	68.9	13.2	118.15		
	1.50	69.2	13.5	118.15		
	1.75	71.6	15.9	118.14		
	2.00	72.1	16.4	118.14		
	2.25	74.7	19.0	118.14		
	2.50	76.2	20.5	118.14		
	2.75	76.8	21.1	118.14		
	3.00	78.3	22.6	118.13		
	3.25	77.7	22.0	118.14		
	3.50	78.3	22.6	118.14		
	3.75	78.4	22.7	118.13		
	4.00	79.8	24.1	118.14		
	4.25	80.8	25.1	118.14		
	4.50	81.7	26.0	118.14		
	4.75	81.4	25.7	118.13		
	5.00	81.9	26.2	118.14		
	5.25	82.1	26.4	118.13		
	5.50	84.3	28.6	118.13		
	5.75	83.8	28.1	118.13		
	6.00	84.5	28.8	118.13		
	6.25	84.8	29.1	118.14		
	6.50	85.3	29.6	118.14		
	6.75	86.1	30.4	118.14		

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
7.00	87.1	31.4	118.14		
7.25	85.2	29.5	118.15		
7.50	87.6	31.9	118.15		
7.75	86.9	31.2	118.15		
8.00	87.5	31.8	118.16		
8.25	87.9	32.2	118.16		
8.50	88.7	33.0	118.16		
8.75	88.9	33.2	118.16		
9.00	89.3	33.6	118.17		
9.25	90.3	34.6	118.18		
9.50	89.4	33.7	118.17		
9.75	91.4	35.7	118.18		
10.00	91.6	35.9	118.18		
10.25	90.8	35.1	118.19		
10.50	92.2	36.5	118.19		
10.75	91.0	35.3	118.19		
11.00	92.3	36.6	118.19		
11.25	92.6	36.9	118.20		
11.50	93.1	37.4	118.20		
11.75	92.4	36.7	118.21		
12.00	93.4	37.7	118.21		
12.25	92.4	36.7	118.21		
12.50	94.0	38.3	118.22		
12.75	95.4	39.7	118.22		
13.00	95.1	39.4	118.23		
13.25	95.6	39.9	118.24		
13.50	96.4	40.7	118.25		
13.75	94.9	39.2	118.24		
14.00	95.3	39.6	118.25		
14.25	97.0	41.3	118.25		
14.50	97.0	41.3	118.26		
14.75	97.7	42.0	118.27		
15.00	97.0	41.3	118.27		
15.25	97.1	41.4	118.28		
15.50	97.5	41.8	118.29		
15.75	97.5	41.8	118.29		
16.00	98.1	42.4	118.28		
16.25	98.5	42.8	118.29		
16.50	99.1	43.4	118.31		
16.75	99.1	43.4	118.30		
17.00	99.3	43.6	118.31		
17.25	98.8	43.1	118.31		
17.50	100.3	44.6	118.31		
17.75	100.6	44.9	118.32		
18.00	100.5	44.8	118.32		
18.25	101.0	45.3	118.33		
18.50	101.0	45.3	118.34		
18.75	101.5	45.8	118.35		
19.00	102.6	46.9	118.34		
19.25	101.8	46.1	118.35		
19.50	102.6	46.9	118.36		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.75	102.4	46.7	118.36		
20.00	103.5	47.8	118.36		
20.25	103.2	47.5	118.37		
20.50	103.2	47.5	118.38		
20.75	103.2	47.5	118.38		
21.00	103.9	48.2	118.39		
21.25	104.7	49.0	118.39		
21.50	104.7	49.0	118.40		
21.75	104.5	48.8	118.41		
22.00	104.6	48.9	118.41		
22.25	105.2	49.5	118.41		
22.50	105.4	49.7	118.41		
22.75	105.8	50.1	118.43		
23.00	106.5	50.8	118.43		
23.25	106.2	50.5	118.44		
23.50	106.7	51.0	118.44		
23.75	105.8	50.1	118.44		
24.00	107.1	51.4	118.45		
24.25	108.1	52.4	118.45		
24.50	107.5	51.8	118.46		
24.75	108.9	53.2	118.47		
25.00	107.3	51.6	118.47		
25.25	107.3	51.6	118.48		
25.50	108.7	53.0	118.49		
25.75	108.3	52.6	118.50		
26.00	109.2	53.5	118.50		
26.25	110.8	55.1	118.50		
26.50	109.6	53.9	118.52		
26.75	109.8	54.1	118.51		
27.00	110.8	55.1	118.52		
27.25	109.5	53.8	118.53		
27.50	112.0	56.3	118.53		
27.75	111.3	55.6	118.54		
28.00	110.7	55.0	118.54		
28.25	112.3	56.6	118.55		
28.50	111.3	55.6	118.56		
28.75	111.7	56.0	118.57		
29.00	112.5	56.8	118.57		
29.25	112.7	57.0	118.57		
29.50	112.0	56.3	118.58		
29.75	113.2	57.5	118.58		
30.00	112.9	57.2	118.60		
30.25	114.0	58.3	118.60		
30.50	113.7	58.0	118.61		
30.75	114.5	58.8	118.61		
31.00	114.7	59.0	118.61		
31.25	115.0	59.3	118.62		
31.50	116.2	60.5	118.64		
31.75	115.4	59.7	118.63		
32.00	115.7	60.0	118.64		
32.25	114.8	59.1	118.65		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
32.50	115.0	59.3	118.65		
32.75	116.5	60.8	118.65		
33.00	117.4	61.7	118.66		
33.25	116.7	61.0	118.67		
33.50	117.9	62.2	118.67		
33.75	117.2	61.5	118.68		
34.00	117.5	61.8	118.69		
34.25	119.1	63.4	118.69		
34.50	119.8	64.1	118.70		
34.75	117.4	61.7	118.70		
35.00	118.4	62.7	118.71		
35.25	118.6	62.9	118.72		
35.50	118.3	62.6	118.72		
35.75	118.6	62.9	118.72		
36.00	120.3	64.6	118.74		
36.25	119.4	63.7	118.73		
36.50	119.1	63.4	118.75		
36.75	120.4	64.7	118.75		
37.00	120.5	64.8	118.76		
37.25	120.2	64.5	118.76		
37.50	122.0	66.3	118.77		
37.75	121.4	65.7	118.77		
38.00	122.3	66.6	118.79		
38.25	121.9	66.2	118.79		
38.50	122.2	66.5	118.80		
38.75	120.9	65.2	118.80		
39.00	122.6	66.9	118.81		
39.25	122.3	66.6	118.82		
39.50	122.4	66.7	118.82		
39.75	122.7	67.0	118.82		
40.00	124.3	68.6	118.83		
40.25	123.6	67.9	118.83		
40.50	124.0	68.3	118.83		
40.75	125.1	69.4	118.85		
41.00	124.0	68.3	118.86		
41.25	125.2	69.5	118.87		
41.50	124.0	68.3	118.87		
41.75	125.5	69.8	118.87		
42.00	123.9	68.2	118.88		
42.25	125.2	69.5	118.90		
42.50	125.8	70.1	118.89		
42.75	126.8	71.1	118.91		
43.00	126.0	70.3	118.91		
43.25	126.4	70.7	118.91		
43.50	126.8	71.1	118.92		
43.75	126.9	71.2	118.93		
44.00	127.0	71.3	118.93		
44.25	128.2	72.5	118.94		
44.50	127.9	72.2	118.95		
44.75	128.8	73.1	118.96		
45.00	128.8	73.1	118.96		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	45.25	128.9	73.2	118.97		
	45.50	128.6	72.9	118.97		
	45.75	129.0	73.3	118.98		
	46.00	130.2	74.5	118.98		
	46.25	128.7	73.0	118.99		
	46.50	131.1	75.4	118.99		
	46.75	129.9	74.2	119.00		
	47.00	131.7	76.0	119.01		
	47.25	130.3	74.6	119.01		
	47.50	130.8	75.1	119.02		
	47.75	131.2	75.5	119.03		
	48.00	131.4	75.7	119.03		
	48.25	130.8	75.1	119.04		
	48.50	132.1	76.4	119.05		
	48.75	131.8	76.1	119.05		
	49.00	131.8	76.1	119.05		
	49.25	134.4	78.7	119.06		
	49.50	133.6	77.9	119.07		
	49.75	131.9	76.2	119.08		
	50.00	134.5	78.8	119.08		
	50.25	134.1	78.4	119.09		
***** End Flow 2	50.50	133.1	77.4	119.10		
***** Start Shutin 2	0.00	133.1	0.0	119.10	0.0000	0.018
	0.25	134.9	1.9	119.10	314.0000	0.018
	0.50	133.5	0.4	119.11	157.5000	0.018
	0.75	134.4	1.3	119.11	105.3333	0.018
	1.00	145.3	12.2	119.12	79.2500	0.021
	1.25	172.5	39.4	119.13	63.6000	0.030
	1.50	199.1	66.0	119.14	53.1667	0.040
	1.75	225.8	92.7	119.13	45.7143	0.051
	2.00	252.8	119.7	119.14	40.1250	0.064
	2.25	279.9	146.9	119.15	35.7778	0.078
	2.50	307.4	174.4	119.16	32.3000	0.095
	2.75	335.0	201.9	119.17	29.4545	0.112
	3.00	362.7	229.6	119.18	27.0833	0.132
	3.25	390.5	257.4	119.19	25.0769	0.152
	3.50	418.4	285.3	119.18	23.3571	0.175
	3.75	446.4	313.3	119.20	21.8667	0.199
	4.00	474.1	341.0	119.22	20.5625	0.225
	4.25	501.8	368.8	119.23	19.4118	0.252
	4.50	529.6	396.5	119.24	18.3889	0.280
	4.75	556.8	423.7	119.25	17.4737	0.310
	5.00	583.3	450.3	119.25	16.6500	0.340
	5.25	609.4	476.3	119.26	15.9048	0.371
	5.50	635.1	502.0	119.27	15.2273	0.403
	5.75	659.4	526.3	119.29	14.6087	0.435
	6.00	682.7	549.6	119.31	14.0417	0.466
	6.25	704.8	571.7	119.31	13.5200	0.497
	6.50	725.3	592.2	119.32	13.0385	0.526
	6.75	744.3	611.2	119.34	12.5926	0.554
	7.00	762.1	629.0	119.36	12.1786	0.581

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
7.25	779.0	645.9	119.36	11.7931	0.607
7.50	794.8	661.8	119.37	11.4333	0.632
7.75	809.5	676.4	119.38	11.0968	0.655
8.00	822.2	689.1	119.39	10.7812	0.676
8.25	834.0	700.9	119.42	10.4848	0.695
8.50	844.6	711.5	119.42	10.2059	0.713
8.75	854.7	721.6	119.44	9.9429	0.731
9.00	863.7	730.6	119.45	9.6944	0.746
9.25	870.3	737.2	119.45	9.4595	0.757
9.50	876.7	743.6	119.47	9.2368	0.769
9.75	882.8	749.8	119.48	9.0256	0.779
10.00	887.6	754.5	119.49	8.8250	0.788
10.25	890.4	757.3	119.51	8.6341	0.793
10.50	892.5	759.5	119.51	8.4524	0.797
10.75	894.7	761.6	119.53	8.2791	0.800
11.00	896.7	763.7	119.54	8.1136	0.804
11.25	898.8	765.7	119.55	7.9556	0.808
11.50	899.9	766.9	119.56	7.8043	0.810
11.75	901.0	767.9	119.57	7.6596	0.812
12.00	907.0	773.9	119.58	7.5208	0.823
12.25	909.0	775.9	119.59	7.3878	0.826
12.50	917.2	784.1	119.60	7.2600	0.841
12.75	925.5	792.4	119.61	7.1373	0.857
13.00	933.0	799.9	119.62	7.0192	0.870
13.25	939.9	806.8	119.62	6.9057	0.883
13.50	946.4	813.3	119.63	6.7963	0.896
13.75	952.4	819.4	119.64	6.6909	0.907
14.00	958.2	825.1	119.65	6.5893	0.918
14.25	963.5	830.4	119.66	6.4912	0.928
14.50	968.4	835.4	119.66	6.3966	0.938
14.75	973.0	839.9	119.67	6.3051	0.947
15.00	984.1	851.0	119.68	6.2167	0.968
15.25	994.8	861.7	119.68	6.1311	0.990
15.50	1004.7	871.6	119.70	6.0484	1.009
15.75	1013.5	880.4	119.70	5.9683	1.027
16.00	1021.2	888.1	119.71	5.8906	1.043
16.25	1030.8	897.7	119.72	5.8154	1.063
16.50	1043.7	910.6	119.72	5.7424	1.089
16.75	1054.4	921.3	119.74	5.6716	1.112
17.00	1063.8	930.7	119.74	5.6029	1.132
17.25	1072.3	939.2	119.74	5.5362	1.150
17.50	1080.1	947.0	119.75	5.4714	1.167
17.75	1087.2	954.1	119.75	5.4085	1.182
18.00	1093.7	960.6	119.76	5.3472	1.196
18.25	1099.6	966.5	119.76	5.2877	1.209
18.50	1105.1	972.0	119.78	5.2297	1.221
18.75	1110.2	977.1	119.79	5.1733	1.232
19.00	1115.0	981.9	119.79	5.1184	1.243
19.25	1119.3	986.2	119.79	5.0649	1.253
19.50	1123.3	990.2	119.81	5.0128	1.262
19.75	1127.0	994.0	119.81	4.9620	1.270

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.00	1130.5	997.4	119.81	4.9125	1.278
20.25	1133.9	1000.8	119.83	4.8642	1.286
20.50	1137.0	1003.9	119.84	4.8171	1.293
20.75	1140.0	1006.9	119.83	4.7711	1.300
21.00	1142.9	1009.8	119.85	4.7262	1.306
21.25	1145.6	1012.5	119.85	4.6824	1.312
21.50	1148.2	1015.1	119.86	4.6395	1.318
21.75	1150.6	1017.5	119.87	4.5977	1.324
22.00	1152.9	1019.8	119.87	4.5568	1.329
22.25	1155.1	1022.0	119.87	4.5169	1.334
22.50	1157.2	1024.1	119.88	4.4778	1.339
22.75	1159.2	1026.1	119.89	4.4396	1.344
23.00	1161.1	1028.0	119.89	4.4022	1.348
23.25	1162.9	1029.8	119.90	4.3656	1.352
23.50	1164.6	1031.5	119.90	4.3298	1.356
23.75	1166.3	1033.2	119.91	4.2947	1.360
24.00	1167.9	1034.8	119.92	4.2604	1.364
24.25	1169.4	1036.3	119.93	4.2268	1.368
24.50	1170.9	1037.8	119.93	4.1939	1.371
24.75	1172.3	1039.2	119.93	4.1616	1.374
25.00	1173.6	1040.6	119.94	4.1300	1.377
25.25	1174.9	1041.9	119.94	4.0990	1.380
25.50	1175.5	1042.5	119.94	4.0686	1.382
25.75	1176.2	1043.2	119.95	4.0388	1.384
26.00	1177.1	1044.0	119.95	4.0096	1.385
26.25	1178.0	1044.9	119.96	3.9810	1.388
26.50	1179.1	1046.0	119.96	3.9528	1.390
26.75	1180.1	1047.0	119.96	3.9252	1.393
27.00	1181.1	1048.0	119.97	3.8981	1.395
27.25	1182.0	1048.9	119.98	3.8716	1.397
27.50	1182.9	1049.8	119.97	3.8455	1.399
27.75	1183.8	1050.7	119.98	3.8198	1.401
28.00	1184.7	1051.6	119.98	3.7946	1.403
28.25	1185.5	1052.4	119.99	3.7699	1.405
28.50	1186.3	1053.2	119.99	3.7456	1.407
28.75	1187.0	1054.0	119.99	3.7217	1.409
29.00	1187.8	1054.7	120.01	3.6983	1.411
29.25	1188.5	1055.5	120.00	3.6752	1.413
29.50	1189.2	1056.1	120.01	3.6525	1.414
29.75	1189.6	1056.5	120.00	3.6303	1.415
30.00	1190.0	1057.0	120.01	3.6083	1.416
30.25	1190.4	1057.3	120.02	3.5868	1.417
30.50	1190.8	1057.7	120.02	3.5656	1.418
30.75	1191.2	1058.1	120.03	3.5447	1.419
31.00	1191.7	1058.6	120.03	3.5242	1.420
31.25	1192.2	1059.1	120.04	3.5040	1.421
31.50	1192.6	1059.6	120.04	3.4841	1.422
31.75	1193.1	1060.0	120.04	3.4646	1.424
32.00	1193.6	1060.5	120.04	3.4453	1.425
32.25	1194.0	1060.9	120.04	3.4264	1.426
32.50	1194.5	1061.4	120.06	3.4077	1.427

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
58.25	1267.2	1134.2	120.38	2.3433	1.606
58.50	1267.4	1134.3	120.38	2.3376	1.606
58.75	1267.6	1134.5	120.38	2.3319	1.607
59.00	1267.8	1134.7	120.39	2.3263	1.607
59.25	1267.9	1134.8	120.39	2.3207	1.608
59.50	1268.0	1134.9	120.38	2.3151	1.608
59.75	1268.0	1134.9	120.39	2.3096	1.608
60.00	1268.1	1135.0	120.39	2.3042	1.608
60.25	1268.1	1135.0	120.40	2.2988	1.608
60.50	1268.2	1135.1	120.40	2.2934	1.608
60.75	1268.3	1135.2	120.40	2.2881	1.609
61.00	1268.3	1135.3	120.40	2.2828	1.609
61.25	1268.4	1135.3	120.40	2.2776	1.609
61.50	1268.5	1135.4	120.41	2.2724	1.609
61.75	1268.6	1135.5	120.42	2.2672	1.609
62.00	1268.6	1135.6	120.43	2.2621	1.609
62.25	1268.7	1135.6	120.42	2.2570	1.610
62.50	1268.7	1135.7	120.42	2.2520	1.610
62.75	1268.8	1135.7	120.43	2.2470	1.610
63.00	1268.8	1135.8	120.44	2.2421	1.610
63.25	1268.9	1135.8	120.43	2.2372	1.610
63.50	1268.9	1135.8	120.44	2.2323	1.610
63.75	1268.9	1135.8	120.44	2.2275	1.610
64.00	1269.0	1135.9	120.44	2.2227	1.610
64.25	1269.0	1135.9	120.45	2.2179	1.610
64.50	1268.9	1135.8	120.45	2.2132	1.610
64.75	1268.9	1135.8	120.45	2.2085	1.610
65.00	1268.9	1135.8	120.45	2.2038	1.610
65.25	1268.9	1135.8	120.46	2.1992	1.610
65.50	1268.9	1135.8	120.47	2.1947	1.610
65.75	1268.9	1135.8	120.47	2.1901	1.610
66.00	1268.9	1135.8	120.46	2.1856	1.610
66.25	1268.9	1135.8	120.47	2.1811	1.610
66.50	1269.0	1135.9	120.48	2.1767	1.610
66.75	1269.1	1136.0	120.48	2.1723	1.611
67.00	1269.2	1136.1	120.48	2.1679	1.611
67.25	1269.2	1136.1	120.48	2.1636	1.611
67.50	1269.3	1136.2	120.48	2.1593	1.611
67.75	1269.3	1136.2	120.48	2.1550	1.611
68.00	1269.4	1136.3	120.48	2.1507	1.611
68.25	1269.5	1136.4	120.49	2.1465	1.612
68.50	1269.6	1136.5	120.49	2.1423	1.612
68.75	1269.6	1136.5	120.50	2.1382	1.612
69.00	1269.7	1136.6	120.50	2.1341	1.612
69.25	1269.8	1136.7	120.50	2.1300	1.612
69.50	1269.8	1136.7	120.50	2.1259	1.612
69.75	1269.9	1136.8	120.52	2.1219	1.613
70.00	1270.0	1136.9	120.52	2.1179	1.613
70.25	1270.0	1136.9	120.52	2.1139	1.613
70.50	1270.1	1137.0	120.52	2.1099	1.613
70.75	1263.6	1130.6	120.52	2.1060	1.597

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
71.00	1261.5	1128.4	120.53	2.1021	1.591
71.25	1261.8	1128.7	120.52	2.0982	1.592
71.50	1261.7	1128.7	120.52	2.0944	1.592
71.75	1261.5	1128.5	120.53	2.0906	1.591
72.00	1261.3	1128.2	120.53	2.0868	1.591
72.25	1261.1	1128.0	120.52	2.0830	1.590
72.50	1260.9	1127.8	120.55	2.0793	1.590
72.75	1260.7	1127.6	120.54	2.0756	1.589
73.00	1260.5	1127.4	120.55	2.0719	1.589
73.25	1260.4	1127.3	120.55	2.0683	1.589
73.50	1260.2	1127.1	120.55	2.0646	1.588
73.75	1260.1	1127.0	120.55	2.0610	1.588
74.00	1259.9	1126.9	120.56	2.0574	1.587
74.25	1259.8	1126.7	120.56	2.0539	1.587
74.50	1259.7	1126.6	120.56	2.0503	1.587
74.75	1259.6	1126.5	120.57	2.0468	1.587
75.00	1259.6	1126.5	120.56	2.0433	1.587
75.25	1259.5	1126.4	120.55	2.0399	1.586
75.50	1259.5	1126.4	120.57	2.0364	1.586
75.75	1259.5	1126.4	120.57	2.0330	1.586
76.00	1259.4	1126.4	120.58	2.0296	1.586
76.25	1259.4	1126.3	120.57	2.0262	1.586
76.50	1259.3	1126.3	120.58	2.0229	1.586
76.75	1256.8	1123.7	120.59	2.0195	1.579
77.00	1251.5	1118.4	120.59	2.0162	1.566
77.25	1246.9	1113.8	120.59	2.0129	1.555
77.50	1243.3	1110.2	120.59	2.0097	1.546
77.75	1240.1	1107.0	120.59	2.0064	1.538
78.00	1237.4	1104.3	120.59	2.0032	1.531
78.25	1235.0	1101.9	120.59	2.0000	1.525
78.50	1232.8	1099.8	120.60	1.9968	1.520
78.75	1231.8	1098.7	120.60	1.9937	1.517
79.00	1231.1	1098.1	120.60	1.9905	1.516
79.25	1230.5	1097.4	120.61	1.9874	1.514
79.50	1230.1	1097.0	120.61	1.9843	1.513
79.75	1229.6	1096.6	120.60	1.9812	1.512
80.00	1229.2	1096.1	120.61	1.9781	1.511
80.25	1228.7	1095.7	120.62	1.9751	1.510
80.50	1228.3	1095.2	120.61	1.9720	1.509
80.75	1227.8	1094.7	120.63	1.9690	1.507
81.00	1227.3	1094.2	120.63	1.9660	1.506
81.25	1227.0	1093.9	120.62	1.9631	1.505
81.50	1226.6	1093.5	120.63	1.9601	1.504
81.75	1226.2	1093.1	120.64	1.9572	1.504
82.00	1225.9	1092.8	120.63	1.9543	1.503
82.25	1225.6	1092.5	120.64	1.9514	1.502
82.50	1225.4	1092.3	120.64	1.9485	1.502
82.75	1225.2	1092.1	120.65	1.9456	1.501
83.00	1226.8	1093.7	120.64	1.9428	1.505
83.25	1231.6	1098.5	120.65	1.9399	1.517
83.50	1234.3	1101.2	120.66	1.9371	1.524

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
32.75	1195.0	1061.9	120.06	3.3893	1.428
33.00	1195.4	1062.4	120.06	3.3712	1.429
33.25	1195.9	1062.8	120.06	3.3534	1.430
33.50	1197.3	1064.2	120.07	3.3358	1.434
33.75	1198.7	1065.6	120.08	3.3185	1.437
34.00	1199.6	1066.5	120.08	3.3015	1.439
34.25	1200.4	1067.3	120.09	3.2847	1.441
34.50	1200.9	1067.8	120.09	3.2681	1.442
34.75	1201.7	1068.6	120.09	3.2518	1.444
35.00	1203.2	1070.1	120.09	3.2357	1.448
35.25	1204.5	1071.5	120.09	3.2199	1.451
35.50	1205.6	1072.5	120.09	3.2042	1.454
35.75	1206.7	1073.7	120.09	3.1888	1.456
36.00	1207.7	1074.6	120.10	3.1736	1.459
36.25	1208.6	1075.5	120.11	3.1586	1.461
36.50	1209.3	1076.2	120.11	3.1438	1.462
36.75	1210.0	1076.9	120.11	3.1293	1.464
37.00	1210.4	1077.3	120.10	3.1149	1.465
37.25	1210.9	1077.8	120.11	3.1007	1.466
37.50	1211.3	1078.2	120.12	3.0867	1.467
37.75	1212.2	1079.1	120.13	3.0728	1.469
38.00	1213.2	1080.1	120.12	3.0592	1.472
38.25	1214.3	1081.2	120.13	3.0458	1.474
38.50	1215.9	1082.8	120.14	3.0325	1.478
38.75	1217.1	1084.0	120.14	3.0194	1.481
39.00	1218.0	1084.9	120.14	3.0064	1.483
39.25	1218.7	1085.6	120.14	2.9936	1.485
39.50	1219.4	1086.3	120.15	2.9810	1.487
39.75	1219.9	1086.9	120.15	2.9686	1.488
40.00	1214.2	1081.1	120.16	2.9562	1.474
40.25	1218.1	1085.0	120.16	2.9441	1.484
40.50	1223.1	1090.0	120.16	2.9321	1.496
40.75	1226.3	1093.2	120.16	2.9202	1.504
41.00	1228.5	1095.4	120.17	2.9085	1.509
41.25	1230.2	1097.2	120.17	2.8970	1.513
41.50	1231.6	1098.5	120.17	2.8855	1.517
41.75	1232.8	1099.7	120.18	2.8743	1.520
42.00	1232.1	1099.0	120.17	2.8631	1.518
42.25	1231.6	1098.6	120.18	2.8521	1.517
42.50	1231.5	1098.4	120.18	2.8412	1.517
42.75	1231.4	1098.3	120.19	2.8304	1.516
43.00	1231.1	1098.0	120.19	2.8198	1.516
43.25	1230.6	1097.5	120.19	2.8092	1.514
43.50	1229.8	1096.8	120.20	2.7989	1.512
43.75	1229.2	1096.1	120.20	2.7886	1.511
44.00	1228.7	1095.6	120.20	2.7784	1.510
44.25	1228.3	1095.2	120.21	2.7684	1.509
44.50	1227.9	1094.8	120.21	2.7584	1.508
44.75	1227.5	1094.4	120.22	2.7486	1.507
45.00	1227.2	1094.1	120.21	2.7389	1.506
45.25	1227.0	1093.9	120.22	2.7293	1.505

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
45.50	1226.8	1093.7	120.22	2.7198	1.505
45.75	1226.6	1093.5	120.22	2.7104	1.505
46.00	1226.5	1093.4	120.23	2.7011	1.504
46.25	1226.4	1093.3	120.23	2.6919	1.504
46.50	1226.2	1093.1	120.23	2.6828	1.504
46.75	1226.5	1093.4	120.23	2.6738	1.504
47.00	1228.8	1095.7	120.23	2.6649	1.510
47.25	1229.7	1096.6	120.25	2.6561	1.512
47.50	1230.1	1097.0	120.25	2.6474	1.513
47.75	1230.5	1097.4	120.25	2.6387	1.514
48.00	1230.9	1097.8	120.25	2.6302	1.515
48.25	1231.6	1098.6	120.25	2.6218	1.517
48.50	1239.5	1106.4	120.26	2.6134	1.536
48.75	1244.6	1111.5	120.27	2.6051	1.549
49.00	1248.0	1114.9	120.27	2.5969	1.558
49.25	1249.9	1116.8	120.28	2.5888	1.562
49.50	1251.2	1118.1	120.28	2.5808	1.566
49.75	1252.5	1119.4	120.27	2.5729	1.569
50.00	1253.7	1120.6	120.28	2.5650	1.572
50.25	1254.8	1121.7	120.28	2.5572	1.574
50.50	1255.7	1122.6	120.28	2.5495	1.577
50.75	1256.6	1123.5	120.29	2.5419	1.579
51.00	1257.4	1124.3	120.29	2.5343	1.581
51.25	1258.1	1125.0	120.29	2.5268	1.583
51.50	1258.8	1125.7	120.30	2.5194	1.585
51.75	1259.5	1126.4	120.30	2.5121	1.586
52.00	1260.0	1127.0	120.30	2.5048	1.588
52.25	1260.6	1127.5	120.30	2.4976	1.589
52.50	1261.1	1128.0	120.30	2.4905	1.590
52.75	1261.6	1128.5	120.31	2.4834	1.592
53.00	1262.0	1128.9	120.31	2.4764	1.593
53.25	1262.4	1129.3	120.32	2.4695	1.594
53.50	1262.8	1129.7	120.32	2.4626	1.595
53.75	1263.1	1130.0	120.32	2.4558	1.595
54.00	1263.5	1130.4	120.32	2.4491	1.596
54.25	1263.8	1130.7	120.32	2.4424	1.597
54.50	1264.1	1131.0	120.33	2.4358	1.598
54.75	1264.4	1131.3	120.34	2.4292	1.599
55.00	1264.6	1131.5	120.34	2.4227	1.599
55.25	1264.8	1131.8	120.34	2.4163	1.600
55.50	1265.1	1132.0	120.34	2.4099	1.600
55.75	1265.3	1132.2	120.34	2.4036	1.601
56.00	1265.5	1132.5	120.35	2.3973	1.602
56.25	1265.7	1132.7	120.35	2.3911	1.602
56.50	1265.9	1132.9	120.36	2.3850	1.603
56.75	1266.1	1133.1	120.35	2.3789	1.603
57.00	1266.3	1133.3	120.36	2.3728	1.604
57.25	1266.5	1133.5	120.37	2.3668	1.604
57.50	1266.7	1133.7	120.37	2.3609	1.605
57.75	1266.9	1133.8	120.37	2.3550	1.605
58.00	1267.1	1134.0	120.38	2.3491	1.605

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
83.75	1235.7	1102.7	120.66	1.9343	1.527
84.00	1237.2	1104.1	120.65	1.9315	1.531
84.25	1238.8	1105.7	120.66	1.9288	1.535
84.50	1240.1	1107.0	120.66	1.9260	1.538
84.75	1241.2	1108.1	120.66	1.9233	1.541
85.00	1241.9	1108.8	120.67	1.9206	1.542
85.25	1242.2	1109.1	120.67	1.9179	1.543
85.50	1244.2	1111.1	120.67	1.9152	1.548
85.75	1245.9	1112.8	120.67	1.9125	1.552
86.00	1247.3	1114.2	120.67	1.9099	1.556
86.25	1248.4	1115.3	120.67	1.9072	1.558
86.50	1249.3	1116.2	120.67	1.9046	1.561
86.75	1250.1	1117.0	120.68	1.9020	1.563
87.00	1250.7	1117.7	120.69	1.8994	1.564
87.25	1251.4	1118.3	120.68	1.8968	1.566
87.50	1251.9	1118.8	120.69	1.8943	1.567
87.75	1252.4	1119.3	120.69	1.8917	1.569
88.00	1252.9	1119.8	120.69	1.8892	1.570
88.25	1253.3	1120.2	120.70	1.8867	1.571
88.50	1253.7	1120.6	120.70	1.8842	1.572
88.75	1254.1	1121.0	120.70	1.8817	1.573
89.00	1254.5	1121.4	120.71	1.8792	1.574
89.25	1255.5	1122.4	120.71	1.8768	1.576
89.50	1257.1	1124.0	120.71	1.8743	1.580
89.75	1258.1	1125.1	120.72	1.8719	1.583
90.00	1256.3	1123.2	120.72	1.8694	1.578
90.25	1256.0	1122.9	120.72	1.8670	1.577
90.50	1256.6	1123.5	120.73	1.8646	1.579
90.75	1256.7	1123.6	120.72	1.8623	1.579
91.00	1256.7	1123.6	120.73	1.8599	1.579
91.25	1258.5	1125.4	120.73	1.8575	1.584
91.50	1259.8	1126.8	120.73	1.8552	1.587
91.75	1260.7	1127.7	120.73	1.8529	1.589
92.00	1261.5	1128.5	120.74	1.8505	1.591
92.25	1262.2	1129.1	120.74	1.8482	1.593
92.50	1262.7	1129.7	120.75	1.8459	1.595
92.75	1263.2	1130.1	120.74	1.8437	1.596
93.00	1263.7	1130.6	120.75	1.8414	1.597
93.25	1264.1	1131.0	120.75	1.8391	1.598
93.50	1264.4	1131.4	120.75	1.8369	1.599
93.75	1264.8	1131.7	120.76	1.8347	1.600
94.00	1263.6	1130.5	120.76	1.8324	1.597
94.25	1262.7	1129.6	120.76	1.8302	1.594
94.50	1262.0	1128.9	120.77	1.8280	1.593
94.75	1261.5	1128.4	120.78	1.8259	1.591
95.00	1261.1	1128.1	120.78	1.8237	1.590
95.25	1260.9	1127.8	120.78	1.8215	1.590
95.50	1260.5	1127.4	120.78	1.8194	1.589
95.75	1260.1	1127.1	120.79	1.8172	1.588
96.00	1260.6	1127.5	120.78	1.8151	1.589
96.25	1262.5	1129.4	120.79	1.8130	1.594

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
96.50	1263.7	1130.7	120.80	1.8109	1.597
96.75	1264.4	1131.3	120.80	1.8088	1.599
97.00	1264.9	1131.8	120.80	1.8067	1.600
97.25	1265.3	1132.3	120.80	1.8046	1.601
97.50	1265.8	1132.7	120.81	1.8026	1.602
97.75	1266.3	1133.2	120.80	1.8005	1.603
98.00	1266.5	1133.4	120.81	1.7985	1.604
98.25	1266.7	1133.7	120.81	1.7964	1.605
98.50	1267.1	1134.0	120.81	1.7944	1.606
98.75	1267.3	1134.3	120.81	1.7924	1.606
99.00	1267.5	1134.4	120.82	1.7904	1.607
99.25	1267.7	1134.6	120.82	1.7884	1.607
99.50	1267.9	1134.8	120.83	1.7864	1.608
99.75	1268.1	1135.0	120.83	1.7845	1.608
100.00	1268.2	1135.1	120.84	1.7825	1.608
100.25	1268.3	1135.3	120.84	1.7805	1.609
100.50	1268.5	1135.4	120.84	1.7786	1.609
100.75	1268.6	1135.5	120.85	1.7767	1.609
101.00	1268.7	1135.6	120.85	1.7748	1.610
101.25	1268.7	1135.6	120.84	1.7728	1.610
101.50	1268.8	1135.7	120.85	1.7709	1.610
101.75	1268.6	1135.5	120.85	1.7690	1.609
102.00	1268.4	1135.3	120.86	1.7672	1.609
102.25	1268.4	1135.3	120.86	1.7653	1.609
102.50	1268.4	1135.3	120.86	1.7634	1.609
102.75	1268.4	1135.3	120.87	1.7616	1.609
103.00	1268.4	1135.3	120.87	1.7597	1.609
103.25	1268.4	1135.3	120.86	1.7579	1.609
103.50	1268.4	1135.3	120.88	1.7560	1.609
103.75	1268.5	1135.4	120.88	1.7542	1.609
104.00	1268.5	1135.4	120.88	1.7524	1.609
104.25	1268.5	1135.5	120.88	1.7506	1.609
104.50	1268.6	1135.5	120.88	1.7488	1.609
104.75	1268.6	1135.5	120.89	1.7470	1.609
105.00	1268.7	1135.6	120.88	1.7452	1.610
105.25	1268.7	1135.6	120.89	1.7435	1.610
105.50	1268.8	1135.7	120.90	1.7417	1.610
105.75	1268.9	1135.8	120.90	1.7400	1.610
106.00	1268.9	1135.8	120.91	1.7382	1.610
106.25	1268.9	1135.8	120.90	1.7365	1.610
106.50	1268.8	1135.7	120.91	1.7347	1.610
106.75	1268.8	1135.7	120.91	1.7330	1.610
107.00	1268.8	1135.7	120.92	1.7313	1.610
107.25	1268.8	1135.7	120.92	1.7296	1.610
107.50	1268.8	1135.7	120.92	1.7279	1.610
107.75	1268.8	1135.7	120.92	1.7262	1.610
108.00	1268.8	1135.8	120.92	1.7245	1.610
108.25	1268.6	1135.5	120.93	1.7229	1.609
108.50	1268.4	1135.3	120.93	1.7212	1.609
108.75	1268.4	1135.3	120.93	1.7195	1.609
109.00	1268.2	1135.2	120.93	1.7179	1.608

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

DATE: 06/26/97

TIME: 22:57:02

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
109.25	1268.3	1135.2	120.93	1.7162	1.609
109.50	1268.7	1135.6	120.94	1.7146	1.610
109.75	1268.9	1135.8	120.93	1.7130	1.610
110.00	1268.9	1135.9	120.94	1.7114	1.610
110.25	1269.0	1135.9	120.95	1.7098	1.610
110.50	1269.1	1136.0	120.94	1.7081	1.610
110.75	1269.2	1136.1	120.95	1.7065	1.611
111.00	1269.3	1136.2	120.94	1.7050	1.611
111.25	1269.4	1136.3	120.95	1.7034	1.611
111.50	1269.5	1136.4	120.96	1.7018	1.612
111.75	1269.5	1136.4	120.96	1.7002	1.612
112.00	1269.6	1136.5	120.95	1.6987	1.612
112.25	1269.6	1136.5	120.96	1.6971	1.612
112.50	1269.6	1136.5	120.96	1.6956	1.612
112.75	1269.6	1136.5	120.96	1.6940	1.612
113.00	1269.7	1136.6	120.97	1.6925	1.612
113.25	1269.8	1136.7	120.97	1.6909	1.612
113.50	1270.4	1137.3	120.98	1.6894	1.614
113.75	1270.9	1137.8	120.97	1.6879	1.615
114.00	1271.1	1138.0	120.98	1.6864	1.616
114.25	1271.3	1138.2	120.98	1.6849	1.616
114.50	1271.5	1138.4	120.98	1.6834	1.617
114.75	1271.6	1138.5	120.98	1.6819	1.617
115.00	1271.8	1138.7	120.99	1.6804	1.618
115.25	1271.9	1138.8	120.99	1.6790	1.618
115.50	1271.9	1138.8	120.99	1.6775	1.618
115.75	1271.9	1138.9	121.00	1.6760	1.618
116.00	1272.0	1138.9	121.00	1.6746	1.618
116.25	1272.1	1139.0	121.00	1.6731	1.618
116.50	1272.1	1139.0	121.00	1.6717	1.618
116.75	1272.2	1139.1	121.00	1.6702	1.618
117.00	1272.3	1139.2	121.01	1.6688	1.619
117.25	1272.3	1139.2	121.01	1.6674	1.619
117.50	1272.3	1139.2	121.00	1.6660	1.619
117.75	1272.4	1139.3	121.01	1.6645	1.619
118.00	1272.4	1139.3	121.02	1.6631	1.619
118.25	1272.4	1139.3	121.02	1.6617	1.619
118.50	1272.5	1139.4	121.03	1.6603	1.619
118.75	1272.5	1139.4	121.02	1.6589	1.619
119.00	1272.6	1139.5	121.03	1.6576	1.619
119.25	1272.6	1139.5	121.03	1.6562	1.620
119.50	1272.7	1139.6	121.03	1.6548	1.620
119.75	1272.7	1139.6	121.04	1.6534	1.620
120.00	1272.7	1139.6	121.03	1.6521	1.620
120.25	1272.8	1139.7	121.05	1.6507	1.620
120.50	1272.8	1139.7	121.05	1.6494	1.620
120.75	1272.8	1139.7	121.05	1.6480	1.620
***** End Shut-in 2					
***** Final Hydro.	396.25	2194.5	0.0	121.06	

# TEST HISTORY

9140 DST #1 MLP Younggren A-2 Oxy USA Inc.

## Flag Points

t (Min.) P (PSig)

R:	0.00	2271.99
B:	0.00	22.45
C:	27.75	68.78
D:	66.50	1295.35
E:	0.00	55.70
F:	50.50	133.09
G:	120.75	1272.81
Q:	0.00	2194.49

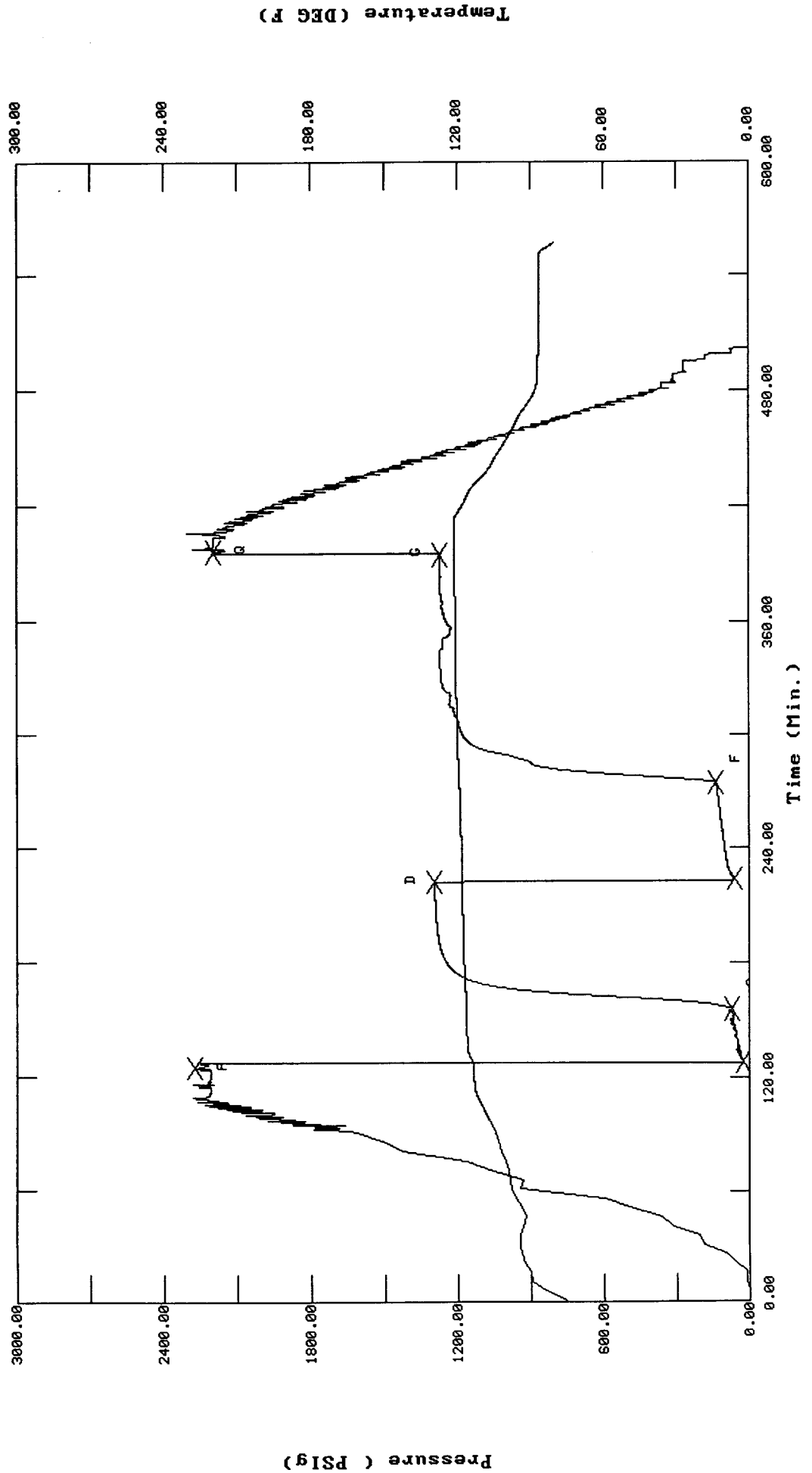
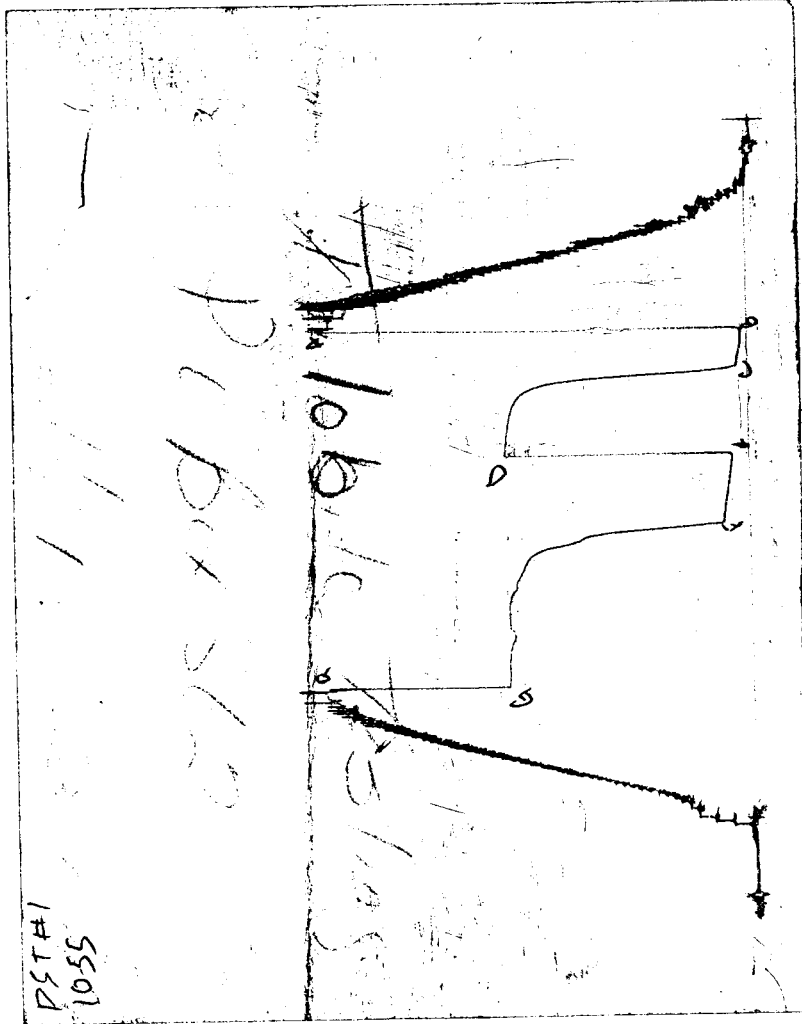


CHART PAGE



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

# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 9140 Date 6-26-99  
Company Name OLY USA INC  
Lease MLP Younggren #A-2 Test No. 1  
County MORTON Sec. 3 Twp. 32S Rng. 39W

### SAMPLER RECOVERY

Gas 1.2 cubic Ft. ~~ML~~  
Oil \_\_\_\_\_ ML  
Mud \_\_\_\_\_ ML  
Water 3500 ML  
Other \_\_\_\_\_ ML  
Pressure 150 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 1300 ppm.  
Resistivity 138 ohms @ 70.5 F  
Viscosity 47  
Mud Weight 9.1  
Filtrate 9.6  
Other \_\_\_\_\_

### SAMPLER ANALYSIS

Resistivity 138 ohms @ 70.5 F  
Chlorides ~~138~~ 55000 ppm.  
Gravity \_\_\_\_\_ corrected @ 60 F

### PIPE RECOVERY

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

TRILOBITE TESTING L.L.C.

OPERATOR : OXY USA INC. DATE 6-29-97  
 WELL NAME: MLP Younggren #A-2 KB 3224.00 ft TICKET NO: 9142 DST #2  
 LOCATION : 3-32S-39W GR 3213.00 ft FORMATION: Upper Morrow  
 INTERVAL : 5370.00 To 5488.00 ft TD 5488.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	2836	2836	3024			PF Fr. 1846 to 1716 hr
SI 120 Range(Psi )	3550.0	3550.0	4995.0	0.0	0.0	IS Fr. 1717 to 1916 hr
SF 0 Clock(hrs)	12 hr	12 hr	Elet.			SF Fr. to hr
FS 0 Depth(ft )	5483.0	5483.0	5373.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2713.0	2672.0	2729.0	0.0	0.0	T STARTED 1700 hr
B. First Flow	996.0	1147.0	877.0	0.0	0.0	T ON BOTM 1844 hr
B1. Final Flow	884.0	867.0	812.0	0.0	0.0	T OPEN 1846 hr
C. In Shut-in	1463.0	1468.0	1520.0	0.0	0.0	T PULLED 1916 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0000 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2504.0	2503.0	2571.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 135000.00 lbs
						Initial Str Wt 100000.00 lbs
						Unseated Str Wt 100000.00 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 634.00 ft
						D.P. Length 4781.00 ft

RECOVERY

Tot Fluid 904.00 ft of 634.00 ft in DC and 270.00 ft in DP  
 270.00 ft of Gassy Mud 30%Gas 70%Mud  
 0.00 ft of  
 634.00 ft of Drlg. Mud 100%Mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

1st. opening stong blow B.O.B. in 5 min.  
 GTS. to surface in 10 min.  
 MCF @ 1,422

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c:
Vis.	48.00 S/L
W.L.	8.60 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike Colantonio
Co. Rep.	Austin Garner
Contr.	Beredco
Rig #	1
Unit #	
Pump T.	

SAMPLES: Yes 1  
 SENT TO:Caraway Lab Liberal

Test Successful: Y

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

WELL NAME: MLP Younggren #A-2

LOCATION : 3-32S-39W

TICKET No. 9142 D.S.T. No. 2 DATE 6-29-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 31ft

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 25ft

TOTAL TOOL ..... 56ft

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single Total 93ft

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands7 Single Total 634ft

D.P. ABOVE TOOLS.Stands46 Single 1 Total 4812ft

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5502ft

TOTAL DEPTH ..... 5488ft

TOTAL DRILL PIPE ABOVE K.B. .... 14ft

REMARKS:

SAMPLER DATA

13.8 Cubic Ft. Gas

1250PSI.

4000ml Total

P.O. SUB Top Tool	5298
C.O. SUB 1ft	5299
S.I. TOOL 5ft	5344
3ft SAMPLER	5347
HMV 5ft	5352
JARS 5ft	5357
SAFETY JOINT 3ft	5360
PACKER 5ft	5365
PACKER 5ft	5370
DEPTH	
STUBB 1ft	5371
ANCHOR	
2ft Perf	5373
Alpine Rec.	5373
T.C.	
DEPTH	
5ft Pick up sub	5378
10ft Perf	5388
1ft C\O sub	5389
93ft drlg pipe	5482
1ft C\O sub	5483
AK-1 Rec.	5483
BULLNOSE	
T.D. 5ft Bullplug	5488

GAS RECOVERY

COMPANY: OXY USA INC. DATE: 6-29-97  
WELL NAME: MLP Younggren #A-2 KB Elev: 3224.00 ft TICKET #9142 DST #2  
WELL LOCATION: 3-32S-39W GR Elev: 3213.00 ft FORMATION: Upper Morrow  
INTERVAL Fr.: 5370.00 To 5488.00 T.D.: 5488.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Data

\*\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	85	0	1162000.0
15	1.00	40	0	1162000.0
20	1.00	52	0	1422000.0
25	1.00	50	0	1379000.0
30	1.00	50	0	1379000.0

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:	971867	Analyzed:	06/30/97
Sample From:	MLP Youngren A-2 DST 2	Pressure:	
Producer:	Oxy USA, Inc.	Temperature:	
Date:		Location:	3-32-39
Time:		County:	Morton
Sampler:		State:	Kansas
Source:		Formation:	U Morrow

	Mole %	GPM
Helium	He: 0.152	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 7.630	0.000
Carbon Dioxide	CO2: 0.260	0.000
Methane	C1: 75.410	0.000
Ethane	C2: 6.992	1.870
Propane	C3: 5.803	1.599
Iso Butane	iC4: 0.744	0.243
Normal Butane	nC4: 1.588	0.501
Iso Pentane	iC5: 0.357	0.131
Normal Pentane	nC5: 0.431	0.156
Hexanes Plus	C6+: 0.633	0.276

TOTAL: 100.000 4.776  
 Z Fact: 0.9968  
 SP.GR.: 0.7434  
 BTU (SAT): 1157.3 @ 14.73 psia  
 BTU (DRY): 1177.8 @ 14.73 psia  
 OCTANE RATING: 113.7

COMMENTS:

0.000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	103.50	2729.9	0.0	118.04		
***** Start Flow 1	0.00	877.8	0.0	124.20		
	0.25	883.5	5.7	124.26		
	0.50	891.5	13.6	124.31		
	0.75	900.8	23.0	124.36		
	1.00	895.4	17.6	124.41		
	1.25	941.3	63.4	124.45		
	1.50	893.4	15.6	124.49		
	1.75	905.3	27.5	124.54		
	2.00	904.8	27.0	124.58		
	2.25	927.4	49.6	124.62		
	2.50	907.8	30.0	124.66		
	2.75	896.0	18.2	124.70		
	3.00	904.3	26.5	124.73		
	3.25	905.3	27.5	124.76		
	3.50	906.3	28.5	124.79		
	3.75	940.1	62.3	124.82		
	4.00	927.1	49.3	124.85		
	4.25	932.8	55.0	124.86		
	4.50	920.4	42.6	124.90		
	4.75	913.5	35.7	124.93		
	5.00	900.1	22.3	124.97		
	5.25	909.6	31.8	124.99		
	5.50	898.5	20.7	125.01		
	5.75	897.3	19.5	125.05		
	6.00	884.3	6.5	125.07		
	6.25	900.1	22.3	125.09		
	6.50	888.6	10.8	125.12		
	6.75	887.9	10.1	125.14		
	7.00	894.9	17.1	125.17		
	7.25	888.2	10.3	125.17		
	7.50	871.2	-6.6	125.19		
	7.75	863.2	-14.6	125.20		
	8.00	886.1	8.3	125.22		
	8.25	866.2	-11.6	125.24		
	8.50	879.8	2.0	125.26		
	8.75	873.1	-4.7	125.27		
	9.00	877.2	-0.6	125.28		
	9.25	861.7	-16.2	125.31		
	9.50	855.1	-22.7	125.31		
	9.75	857.0	-20.8	125.33		
	10.00	860.2	-17.7	125.35		
	10.25	856.2	-21.6	125.36		
	10.50	866.9	-10.9	125.36		
	10.75	854.4	-23.4	125.38		
	11.00	848.5	-29.3	125.39		
	11.25	861.4	-16.5	125.40		
	11.50	848.9	-28.9	125.40		
	11.75	853.8	-24.1	125.42		
	12.00	840.5	-37.3	125.42		
	12.25	844.8	-33.0	125.44		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22  
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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	12.50	839.6	-38.3	125.45		
	12.75	840.1	-37.7	125.45		
	13.00	827.7	-50.1	125.46		
	13.25	836.2	-41.6	125.47		
	13.50	835.8	-42.1	125.47		
	13.75	829.1	-48.8	125.47		
	14.00	830.8	-47.0	125.48		
	14.25	829.2	-48.6	125.49		
	14.50	818.9	-58.9	125.49		
	14.75	819.0	-58.8	125.49		
	15.00	821.6	-56.2	125.50		
	15.25	827.7	-50.1	125.51		
***** End Flow 1	15.50	813.0	-64.8	125.50		
***** Start Shutin 1	0.00	813.0	0.0	125.50	0.0000	0.661
	0.25	874.3	61.3	125.52	63.0000	0.764
	0.50	1021.1	208.1	125.52	32.0000	1.043
	0.75	1116.3	303.3	125.54	21.6667	1.246
	1.00	1177.7	364.7	125.61	16.5000	1.387
	1.25	1217.2	404.3	125.71	13.4000	1.482
	1.50	1244.2	431.2	125.86	11.3333	1.548
	1.75	1263.9	451.0	126.07	9.8571	1.598
	2.00	1278.5	465.6	126.31	8.7500	1.635
	2.25	1290.0	477.0	126.59	7.8889	1.664
	2.50	1299.5	486.5	126.87	7.2000	1.689
	2.75	1307.3	494.4	127.17	6.6364	1.709
	3.00	1314.0	501.0	127.47	6.1667	1.727
	3.25	1319.8	506.8	127.76	5.7692	1.742
	3.50	1325.0	512.1	128.05	5.4286	1.756
	3.75	1329.7	516.7	128.32	5.1333	1.768
	4.00	1334.1	521.1	128.58	4.8750	1.780
	4.25	1338.2	525.2	128.83	4.6471	1.791
	4.50	1341.9	528.9	129.06	4.4444	1.801
	4.75	1345.4	532.5	129.27	4.2632	1.810
	5.00	1348.7	535.7	129.48	4.1000	1.819
	5.25	1351.7	538.7	129.66	3.9524	1.827
	5.50	1354.7	541.7	129.83	3.8182	1.835
	5.75	1357.5	544.5	130.00	3.6957	1.843
	6.00	1360.2	547.2	130.15	3.5833	1.850
	6.25	1362.8	549.8	130.28	3.4800	1.857
	6.50	1365.3	552.3	130.41	3.3846	1.864
	6.75	1367.8	554.8	130.53	3.2963	1.871
	7.00	1370.3	557.3	130.63	3.2143	1.878
	7.25	1372.6	559.6	130.73	3.1379	1.884
	7.50	1374.9	561.9	130.83	3.0667	1.890
	7.75	1377.2	564.2	130.90	3.0000	1.897
	8.00	1379.4	566.5	130.97	2.9375	1.903
	8.25	1381.5	568.6	131.03	2.8788	1.909
	8.50	1383.6	570.7	131.10	2.8235	1.914
	8.75	1385.7	572.7	131.14	2.7714	1.920
	9.00	1387.6	574.7	131.19	2.7222	1.926
	9.25	1389.5	576.5	131.25	2.6757	1.931

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
9.50	1391.4	578.4	131.28		2.6316	1.936
9.75	1393.1	580.1	131.32		2.5897	1.941
10.00	1394.9	581.9	131.34		2.5500	1.946
10.25	1396.6	583.6	131.38		2.5122	1.950
10.50	1398.1	585.2	131.41		2.4762	1.955
10.75	1399.7	586.8	131.42		2.4419	1.959
11.00	1401.2	588.3	131.44		2.4091	1.964
11.25	1402.7	589.7	131.45		2.3778	1.968
11.50	1404.2	591.2	131.47		2.3478	1.972
11.75	1405.6	592.6	131.48		2.3191	1.976
12.00	1406.9	593.9	131.49		2.2917	1.979
12.25	1408.2	595.3	131.48		2.2653	1.983
12.50	1409.5	596.6	131.50		2.2400	1.987
12.75	1410.8	597.8	131.50		2.2157	1.990
13.00	1411.9	599.0	131.49		2.1923	1.994
13.25	1413.1	600.1	131.49		2.1698	1.997
13.50	1414.2	601.2	131.49		2.1481	2.000
13.75	1415.2	602.3	131.48		2.1273	2.003
14.00	1416.3	603.3	131.48		2.1071	2.006
14.25	1417.3	604.3	131.48		2.0877	2.009
14.50	1418.3	605.3	131.47		2.0690	2.011
14.75	1419.2	606.3	131.46		2.0508	2.014
15.00	1420.2	607.2	131.45		2.0333	2.017
15.25	1421.1	608.1	131.44		2.0164	2.020
15.50	1422.0	609.0	131.43		2.0000	2.022
15.75	1422.8	609.9	131.42		1.9841	2.024
16.00	1423.7	610.7	131.40		1.9688	2.027
16.25	1424.5	611.6	131.40		1.9538	2.029
16.50	1425.4	612.4	131.39		1.9394	2.032
16.75	1426.2	613.2	131.38		1.9254	2.034
17.00	1427.0	614.0	131.36		1.9118	2.036
17.25	1427.7	614.8	131.36		1.8986	2.038
17.50	1428.5	615.5	131.34		1.8857	2.041
17.75	1429.2	616.3	131.33		1.8732	2.043
18.00	1430.0	617.0	131.32		1.8611	2.045
18.25	1430.7	617.8	131.30		1.8493	2.047
18.50	1431.5	618.5	131.30		1.8378	2.049
18.75	1432.1	619.2	131.30		1.8267	2.051
19.00	1432.8	619.9	131.29		1.8158	2.053
19.25	1433.5	620.5	131.28		1.8052	2.055
19.50	1434.2	621.2	131.27		1.7949	2.057
19.75	1434.8	621.8	131.26		1.7848	2.059
20.00	1435.5	622.5	131.26		1.7750	2.061
20.25	1436.1	623.2	131.27		1.7654	2.062
20.50	1436.8	623.8	131.25		1.7561	2.064
20.75	1437.3	624.4	131.26		1.7470	2.066
21.00	1437.9	624.9	131.25		1.7381	2.068
21.25	1438.5	625.6	131.26		1.7294	2.069
21.50	1439.1	626.1	131.25		1.7209	2.071
21.75	1439.6	626.7	131.24		1.7126	2.073
22.00	1440.2	627.2	131.24		1.7045	2.074

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
22.25	1440.7	627.8	131.24	1.6966	2.076
22.50	1441.3	628.3	131.24	1.6889	2.077
22.75	1441.8	628.8	131.24	1.6813	2.079
23.00	1442.3	629.4	131.23	1.6739	2.080
23.25	1442.9	629.9	131.22	1.6667	2.082
23.50	1443.4	630.4	131.22	1.6596	2.083
23.75	1443.9	630.9	131.22	1.6526	2.085
24.00	1444.4	631.4	131.23	1.6458	2.086
24.25	1444.8	631.9	131.22	1.6392	2.088
24.50	1445.3	632.4	131.22	1.6327	2.089
24.75	1445.8	632.8	131.22	1.6263	2.090
25.00	1446.3	633.3	131.22	1.6200	2.092
25.25	1446.8	633.8	131.21	1.6139	2.093
25.50	1447.3	634.3	131.21	1.6078	2.095
25.75	1447.7	634.7	131.21	1.6019	2.096
26.00	1448.2	635.2	131.21	1.5962	2.097
26.25	1448.6	635.6	131.20	1.5905	2.098
26.50	1449.0	636.1	131.21	1.5849	2.100
26.75	1449.5	636.5	131.20	1.5794	2.101
27.00	1449.9	636.9	131.19	1.5741	2.102
27.25	1450.3	637.3	131.19	1.5688	2.103
27.50	1450.7	637.7	131.18	1.5636	2.105
27.75	1451.1	638.2	131.18	1.5586	2.106
28.00	1451.5	638.6	131.18	1.5536	2.107
28.25	1451.9	639.0	131.17	1.5487	2.108
28.50	1452.3	639.4	131.16	1.5439	2.109
28.75	1452.7	639.8	131.16	1.5391	2.110
29.00	1453.1	640.2	131.15	1.5345	2.112
29.25	1453.5	640.6	131.15	1.5299	2.113
29.50	1453.9	641.0	131.15	1.5254	2.114
29.75	1454.3	641.3	131.15	1.5210	2.115
30.00	1454.7	641.7	131.14	1.5167	2.116
30.25	1455.0	642.1	131.13	1.5124	2.117
30.50	1455.4	642.4	131.12	1.5082	2.118
30.75	1455.8	642.8	131.12	1.5041	2.119
31.00	1456.1	643.2	131.12	1.5000	2.120
31.25	1456.5	643.5	131.11	1.4960	2.121
31.50	1456.8	643.9	131.11	1.4921	2.122
31.75	1457.2	644.3	131.10	1.4882	2.124
32.00	1457.6	644.6	131.09	1.4844	2.125
32.25	1457.9	645.0	131.08	1.4806	2.126
32.50	1458.3	645.3	131.07	1.4769	2.127
32.75	1458.6	645.7	131.07	1.4733	2.128
33.00	1459.0	646.0	131.07	1.4697	2.129
33.25	1459.3	646.3	131.06	1.4662	2.130
33.50	1459.6	646.7	131.06	1.4627	2.131
33.75	1460.0	647.0	131.04	1.4593	2.132
34.00	1460.3	647.4	131.05	1.4559	2.133
34.25	1460.7	647.7	131.05	1.4526	2.134
34.50	1461.0	648.0	131.03	1.4493	2.135
34.75	1461.4	648.4	131.04	1.4460	2.136

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
35.00	1461.7	648.7	131.02	1.4429	2.136
35.25	1462.0	649.0	131.02	1.4397	2.137
35.50	1462.3	649.3	131.02	1.4366	2.138
35.75	1462.6	649.7	131.02	1.4336	2.139
36.00	1462.9	650.0	131.02	1.4306	2.140
36.25	1463.3	650.3	131.02	1.4276	2.141
36.50	1463.6	650.6	131.01	1.4247	2.142
36.75	1463.9	650.9	131.00	1.4218	2.143
37.00	1464.2	651.2	130.99	1.4189	2.144
37.25	1464.5	651.5	130.99	1.4161	2.145
37.50	1464.8	651.8	130.99	1.4133	2.146
37.75	1465.1	652.1	130.98	1.4106	2.147
38.00	1465.4	652.4	130.98	1.4079	2.147
38.25	1465.7	652.7	130.98	1.4052	2.148
38.50	1466.0	653.0	130.98	1.4026	2.149
38.75	1466.3	653.3	130.97	1.4000	2.150
39.00	1466.6	653.6	130.96	1.3974	2.151
39.25	1466.9	653.9	130.97	1.3949	2.152
39.50	1467.2	654.2	130.96	1.3924	2.153
39.75	1467.5	654.5	130.96	1.3899	2.153
40.00	1467.7	654.8	130.96	1.3875	2.154
40.25	1468.0	655.1	130.96	1.3851	2.155
40.50	1468.3	655.3	130.96	1.3827	2.156
40.75	1468.6	655.6	130.94	1.3804	2.157
41.00	1468.9	655.9	130.95	1.3780	2.158
41.25	1469.1	656.2	130.94	1.3758	2.158
41.50	1469.4	656.5	130.96	1.3735	2.159
41.75	1469.7	656.7	130.95	1.3713	2.160
42.00	1470.0	657.0	130.94	1.3690	2.161
42.25	1470.2	657.3	130.94	1.3669	2.162
42.50	1470.5	657.5	130.94	1.3647	2.162
42.75	1470.8	657.8	130.93	1.3626	2.163
43.00	1471.1	658.1	130.93	1.3605	2.164
43.25	1471.3	658.4	130.93	1.3584	2.165
43.50	1471.6	658.6	130.94	1.3563	2.166
43.75	1471.9	658.9	130.92	1.3543	2.166
44.00	1472.2	659.2	130.93	1.3523	2.167
44.25	1472.4	659.4	130.92	1.3503	2.168
44.50	1472.7	659.7	130.92	1.3483	2.169
44.75	1472.9	660.0	130.92	1.3464	2.170
45.00	1473.2	660.2	130.92	1.3444	2.170
45.25	1473.4	660.5	130.92	1.3425	2.171
45.50	1473.7	660.8	130.92	1.3407	2.172
45.75	1474.0	661.0	130.91	1.3388	2.173
46.00	1474.2	661.3	130.91	1.3370	2.173
46.25	1474.5	661.5	130.91	1.3351	2.174
46.50	1474.7	661.8	130.91	1.3333	2.175
46.75	1475.0	662.0	130.91	1.3316	2.176
47.00	1475.3	662.3	130.91	1.3298	2.176
47.25	1475.5	662.6	130.91	1.3280	2.177
47.50	1475.8	662.8	130.91	1.3263	2.178

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
47.75	1476.0	663.1	130.92	1.3246	2.179
48.00	1476.3	663.3	130.90	1.3229	2.179
48.25	1476.5	663.6	130.91	1.3212	2.180
48.50	1476.8	663.8	130.91	1.3196	2.181
48.75	1477.0	664.0	130.90	1.3179	2.182
49.00	1477.3	664.3	130.91	1.3163	2.182
49.25	1477.5	664.5	130.91	1.3147	2.183
49.50	1477.8	664.8	130.91	1.3131	2.184
49.75	1478.0	665.0	130.91	1.3116	2.184
50.00	1478.2	665.2	130.90	1.3100	2.185
50.25	1478.5	665.5	130.91	1.3085	2.186
50.50	1478.7	665.7	130.90	1.3069	2.187
50.75	1479.0	666.0	130.90	1.3054	2.187
51.00	1479.2	666.2	130.90	1.3039	2.188
51.25	1479.4	666.5	130.89	1.3024	2.189
51.50	1479.7	666.7	130.91	1.3010	2.189
51.75	1479.9	666.9	130.91	1.2995	2.190
52.00	1480.1	667.2	130.91	1.2981	2.191
52.25	1480.4	667.4	130.91	1.2967	2.192
52.50	1480.6	667.6	130.91	1.2952	2.192
52.75	1480.8	667.9	130.91	1.2938	2.193
53.00	1481.1	668.1	130.91	1.2925	2.194
53.25	1481.3	668.3	130.90	1.2911	2.194
53.50	1481.5	668.6	130.92	1.2897	2.195
53.75	1481.8	668.8	130.90	1.2884	2.196
54.00	1482.0	669.0	130.91	1.2870	2.196
54.25	1482.2	669.2	130.90	1.2857	2.197
54.50	1482.4	669.5	130.91	1.2844	2.198
54.75	1482.7	669.7	130.91	1.2831	2.198
55.00	1482.9	669.9	130.90	1.2818	2.199
55.25	1483.1	670.2	130.91	1.2805	2.200
55.50	1483.4	670.4	130.91	1.2793	2.200
55.75	1483.6	670.6	130.92	1.2780	2.201
56.00	1483.8	670.8	130.91	1.2768	2.202
56.25	1484.0	671.0	130.91	1.2756	2.202
56.50	1484.2	671.3	130.92	1.2743	2.203
56.75	1484.5	671.5	130.92	1.2731	2.204
57.00	1484.7	671.7	130.91	1.2719	2.204
57.25	1484.9	671.9	130.91	1.2707	2.205
57.50	1485.1	672.2	130.92	1.2696	2.206
57.75	1485.3	672.4	130.91	1.2684	2.206
58.00	1485.6	672.6	130.93	1.2672	2.207
58.25	1485.8	672.8	130.92	1.2661	2.207
58.50	1486.0	673.0	130.91	1.2650	2.208
58.75	1486.2	673.2	130.92	1.2638	2.209
59.00	1486.4	673.5	130.92	1.2627	2.209
59.25	1486.6	673.7	130.92	1.2616	2.210
59.50	1486.8	673.9	130.91	1.2605	2.211
59.75	1487.0	674.1	130.91	1.2594	2.211
60.00	1487.3	674.3	130.91	1.2583	2.212
60.25	1487.5	674.5	130.93	1.2573	2.213

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
60.50	1487.7	674.7	130.93	1.2562	2.213
60.75	1487.9	674.9	130.92	1.2551	2.214
61.00	1488.1	675.1	130.93	1.2541	2.214
61.25	1488.2	675.3	130.93	1.2531	2.215
61.50	1488.5	675.5	130.93	1.2520	2.216
61.75	1488.7	675.7	130.93	1.2510	2.216
62.00	1488.9	675.9	130.93	1.2500	2.217
62.25	1489.1	676.1	130.92	1.2490	2.217
62.50	1489.2	676.3	130.93	1.2480	2.218
62.75	1489.5	676.5	130.94	1.2470	2.219
63.00	1489.7	676.7	130.94	1.2460	2.219
63.25	1489.9	676.9	130.94	1.2451	2.220
63.50	1490.1	677.1	130.93	1.2441	2.220
63.75	1490.3	677.3	130.93	1.2431	2.221
64.00	1490.5	677.5	130.94	1.2422	2.221
64.25	1490.7	677.7	130.94	1.2412	2.222
64.50	1490.8	677.9	130.94	1.2403	2.223
64.75	1491.0	678.1	130.94	1.2394	2.223
65.00	1491.2	678.3	130.94	1.2385	2.224
65.25	1491.4	678.4	130.95	1.2375	2.224
65.50	1491.6	678.6	130.95	1.2366	2.225
65.75	1491.8	678.8	130.95	1.2357	2.225
66.00	1492.0	679.0	130.94	1.2348	2.226
66.25	1492.2	679.2	130.95	1.2340	2.227
66.50	1492.4	679.4	130.95	1.2331	2.227
66.75	1492.5	679.6	130.94	1.2322	2.228
67.00	1492.7	679.8	130.95	1.2313	2.228
67.25	1492.9	679.9	130.95	1.2305	2.229
67.50	1493.1	680.1	130.95	1.2296	2.229
67.75	1493.3	680.3	130.95	1.2288	2.230
68.00	1493.5	680.5	130.95	1.2279	2.230
68.25	1493.6	680.7	130.96	1.2271	2.231
68.50	1493.8	680.8	130.96	1.2263	2.231
68.75	1494.0	681.0	130.96	1.2255	2.232
69.00	1494.2	681.2	130.96	1.2246	2.233
69.25	1494.4	681.4	130.97	1.2238	2.233
69.50	1494.5	681.6	130.95	1.2230	2.234
69.75	1494.7	681.7	130.97	1.2222	2.234
70.00	1494.9	681.9	130.96	1.2214	2.235
70.25	1495.0	682.1	130.96	1.2206	2.235
70.50	1495.2	682.3	130.96	1.2199	2.236
70.75	1495.4	682.4	130.97	1.2191	2.236
71.00	1495.6	682.6	130.97	1.2183	2.237
71.25	1495.7	682.8	130.97	1.2175	2.237
71.50	1495.9	682.9	130.97	1.2168	2.238
71.75	1496.1	683.1	130.99	1.2160	2.238
72.00	1496.3	683.3	130.98	1.2153	2.239
72.25	1496.4	683.5	130.98	1.2145	2.239
72.50	1496.6	683.6	130.98	1.2138	2.240
72.75	1496.8	683.8	130.99	1.2131	2.240
73.00	1496.9	684.0	130.99	1.2123	2.241

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
73.25	1497.1	684.2	130.99	130.99	1.2116	2.241
73.50	1497.3	684.3	130.98	130.98	1.2109	2.242
73.75	1497.4	684.5	130.99	130.99	1.2102	2.242
74.00	1497.6	684.7	131.00	131.00	1.2095	2.243
74.25	1497.8	684.8	130.99	130.99	1.2088	2.243
74.50	1498.0	685.0	131.00	131.00	1.2081	2.244
74.75	1498.1	685.2	131.00	131.00	1.2074	2.244
75.00	1498.3	685.3	130.99	130.99	1.2067	2.245
75.25	1498.4	685.5	131.00	131.00	1.2060	2.245
75.50	1498.6	685.6	130.99	130.99	1.2053	2.246
75.75	1498.8	685.8	131.00	131.00	1.2046	2.246
76.00	1498.9	686.0	131.00	131.00	1.2039	2.247
76.25	1499.1	686.1	131.01	131.01	1.2033	2.247
76.50	1499.3	686.3	131.01	131.01	1.2026	2.248
76.75	1499.4	686.5	131.01	131.01	1.2020	2.248
77.00	1499.6	686.6	131.01	131.01	1.2013	2.249
77.25	1499.7	686.8	131.01	131.01	1.2006	2.249
77.50	1499.9	687.0	131.03	131.03	1.2000	2.250
77.75	1500.0	687.1	131.01	131.01	1.1994	2.250
78.00	1500.2	687.2	131.02	131.02	1.1987	2.251
78.25	1500.4	687.4	131.02	131.02	1.1981	2.251
78.50	1500.5	687.6	131.02	131.02	1.1975	2.252
78.75	1500.7	687.7	131.02	131.02	1.1968	2.252
79.00	1500.8	687.9	131.03	131.03	1.1962	2.253
79.25	1501.0	688.0	131.03	131.03	1.1956	2.253
79.50	1501.1	688.2	131.03	131.03	1.1950	2.253
79.75	1501.3	688.3	131.03	131.03	1.1944	2.254
80.00	1501.4	688.5	131.04	131.04	1.1938	2.254
80.25	1501.6	688.6	131.04	131.04	1.1931	2.255
80.50	1501.8	688.8	131.04	131.04	1.1925	2.255
80.75	1501.9	688.9	131.04	131.04	1.1920	2.256
81.00	1502.1	689.1	131.04	131.04	1.1914	2.256
81.25	1502.2	689.2	131.05	131.05	1.1908	2.257
81.50	1502.4	689.4	131.04	131.04	1.1902	2.257
81.75	1502.5	689.5	131.05	131.05	1.1896	2.257
82.00	1502.6	689.7	131.05	131.05	1.1890	2.258
82.25	1502.8	689.8	131.05	131.05	1.1884	2.258
82.50	1502.9	690.0	131.05	131.05	1.1879	2.259
82.75	1503.1	690.1	131.05	131.05	1.1873	2.259
83.00	1503.2	690.3	131.05	131.05	1.1867	2.260
83.25	1503.4	690.4	131.06	131.06	1.1862	2.260
83.50	1503.5	690.5	131.05	131.05	1.1856	2.261
83.75	1503.7	690.7	131.06	131.06	1.1851	2.261
84.00	1503.8	690.8	131.07	131.07	1.1845	2.261
84.25	1503.9	691.0	131.07	131.07	1.1840	2.262
84.50	1504.1	691.1	131.07	131.07	1.1834	2.262
84.75	1504.2	691.3	131.07	131.07	1.1829	2.263
85.00	1504.4	691.4	131.07	131.07	1.1824	2.263
85.25	1504.5	691.6	131.08	131.08	1.1818	2.264
85.50	1504.7	691.7	131.07	131.07	1.1813	2.264
85.75	1504.8	691.8	131.09	131.09	1.1808	2.264

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
86.00	1505.0	692.0	131.08	1.1802	2.265
86.25	1505.1	692.1	131.09	1.1797	2.265
86.50	1505.2	692.2	131.08	1.1792	2.266
86.75	1505.4	692.4	131.09	1.1787	2.266
87.00	1505.5	692.5	131.09	1.1782	2.266
87.25	1505.6	692.6	131.10	1.1777	2.267
87.50	1505.8	692.8	131.10	1.1771	2.267
87.75	1505.9	692.9	131.09	1.1766	2.268
88.00	1506.0	693.0	131.10	1.1761	2.268
88.25	1506.1	693.2	131.10	1.1756	2.268
88.50	1506.3	693.3	131.11	1.1751	2.269
88.75	1506.4	693.4	131.11	1.1746	2.269
89.00	1506.6	693.6	131.11	1.1742	2.270
89.25	1506.7	693.7	131.12	1.1737	2.270
89.50	1506.8	693.8	131.11	1.1732	2.270
89.75	1506.9	693.9	131.11	1.1727	2.271
90.00	1507.1	694.1	131.12	1.1722	2.271
90.25	1507.2	694.2	131.12	1.1717	2.272
90.50	1507.3	694.3	131.13	1.1713	2.272
90.75	1507.4	694.4	131.12	1.1708	2.272
91.00	1507.6	694.6	131.13	1.1703	2.273
91.25	1507.7	694.7	131.12	1.1699	2.273
91.50	1507.8	694.8	131.13	1.1694	2.273
91.75	1507.9	694.9	131.14	1.1689	2.274
92.00	1508.0	695.0	131.13	1.1685	2.274
92.25	1508.2	695.2	131.13	1.1680	2.275
92.50	1508.3	695.3	131.14	1.1676	2.275
92.75	1508.4	695.4	131.14	1.1671	2.275
93.00	1508.5	695.5	131.14	1.1667	2.276
93.25	1508.6	695.7	131.15	1.1662	2.276
93.50	1508.8	695.8	131.16	1.1658	2.276
93.75	1508.9	695.9	131.15	1.1653	2.277
94.00	1509.0	696.0	131.15	1.1649	2.277
94.25	1509.1	696.1	131.15	1.1645	2.277
94.50	1509.2	696.2	131.15	1.1640	2.278
94.75	1509.3	696.4	131.16	1.1636	2.278
95.00	1509.5	696.5	131.16	1.1632	2.278
95.25	1509.6	696.6	131.16	1.1627	2.279
95.50	1509.7	696.7	131.16	1.1623	2.279
95.75	1509.8	696.8	131.17	1.1619	2.279
96.00	1509.9	696.9	131.17	1.1615	2.280
96.25	1510.0	697.1	131.17	1.1610	2.280
96.50	1510.2	697.2	131.16	1.1606	2.281
96.75	1510.3	697.3	131.17	1.1602	2.281
97.00	1510.4	697.4	131.18	1.1598	2.281
97.25	1510.5	697.5	131.18	1.1594	2.282
97.50	1510.6	697.6	131.17	1.1590	2.282
97.75	1510.7	697.8	131.17	1.1586	2.282
98.00	1510.8	697.9	131.18	1.1582	2.283
98.25	1511.0	698.0	131.19	1.1578	2.283
98.50	1511.1	698.1	131.19	1.1574	2.283

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
98.75	1511.2	698.2	131.18	1.1570	2.284
99.00	1511.3	698.3	131.18	1.1566	2.284
99.25	1511.4	698.4	131.19	1.1562	2.284
99.50	1511.5	698.6	131.20	1.1558	2.285
99.75	1511.6	698.7	131.19	1.1554	2.285
100.00	1511.7	698.8	131.19	1.1550	2.285
100.25	1511.9	698.9	131.20	1.1546	2.286
100.50	1512.0	699.0	131.20	1.1542	2.286
100.75	1512.1	699.1	131.20	1.1538	2.286
101.00	1512.2	699.2	131.21	1.1535	2.287
101.25	1512.3	699.4	131.21	1.1531	2.287
101.50	1512.4	699.5	131.21	1.1527	2.287
101.75	1512.5	699.5	131.22	1.1523	2.288
102.00	1512.6	699.7	131.22	1.1520	2.288
102.25	1512.7	699.8	131.22	1.1516	2.288
102.50	1512.9	699.9	131.22	1.1512	2.289
102.75	1512.9	700.0	131.21	1.1509	2.289
103.00	1513.0	700.1	131.22	1.1505	2.289
103.25	1513.2	700.2	131.22	1.1501	2.290
103.50	1513.2	700.3	131.23	1.1498	2.290
103.75	1513.4	700.4	131.23	1.1494	2.290
104.00	1513.5	700.5	131.24	1.1490	2.291
104.25	1513.6	700.6	131.23	1.1487	2.291
104.50	1513.7	700.7	131.24	1.1483	2.291
104.75	1513.8	700.8	131.25	1.1480	2.292
105.00	1513.9	700.9	131.24	1.1476	2.292
105.25	1514.0	701.0	131.25	1.1473	2.292
105.50	1514.1	701.1	131.24	1.1469	2.292
105.75	1514.2	701.2	131.25	1.1466	2.293
106.00	1514.3	701.3	131.25	1.1462	2.293
106.25	1514.4	701.5	131.25	1.1459	2.293
106.50	1514.5	701.5	131.26	1.1455	2.294
106.75	1514.6	701.6	131.26	1.1452	2.294
107.00	1514.7	701.8	131.26	1.1449	2.294
107.25	1514.8	701.9	131.28	1.1445	2.295
107.50	1514.9	702.0	131.26	1.1442	2.295
107.75	1515.0	702.1	131.27	1.1439	2.295
108.00	1515.1	702.1	131.26	1.1435	2.296
108.25	1515.2	702.3	131.27	1.1432	2.296
108.50	1515.3	702.4	131.28	1.1429	2.296
108.75	1515.4	702.5	131.28	1.1425	2.297
109.00	1515.5	702.6	131.28	1.1422	2.297
109.25	1515.6	702.7	131.27	1.1419	2.297
109.50	1515.7	702.7	131.28	1.1416	2.297
109.75	1515.8	702.8	131.29	1.1412	2.298
110.00	1515.9	703.0	131.28	1.1409	2.298
110.25	1516.0	703.1	131.29	1.1406	2.298
110.50	1516.1	703.2	131.29	1.1403	2.299
110.75	1516.2	703.3	131.29	1.1400	2.299
111.00	1516.3	703.4	131.29	1.1396	2.299
111.25	1516.4	703.4	131.30	1.1393	2.299

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9142 DST#2 MLP Younggren #A-2 OXY USA INC.

DATE: 06/29/97

TIME: 17:00:22

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	111.50	1516.5	703.5	131.29	1.1390	2.300
	111.75	1516.6	703.6	131.30	1.1387	2.300
	112.00	1516.7	703.7	131.31	1.1384	2.300
	112.25	1516.8	703.8	131.31	1.1381	2.301
	112.50	1516.9	703.9	131.31	1.1378	2.301
	112.75	1517.0	704.0	131.31	1.1375	2.301
	113.00	1517.1	704.1	131.32	1.1372	2.302
	113.25	1517.2	704.2	131.32	1.1369	2.302
	113.50	1517.3	704.3	131.33	1.1366	2.302
	113.75	1517.4	704.4	131.32	1.1363	2.302
	114.00	1517.5	704.5	131.32	1.1360	2.303
	114.25	1517.6	704.6	131.32	1.1357	2.303
	114.50	1517.6	704.7	131.33	1.1354	2.303
	114.75	1517.7	704.8	131.33	1.1351	2.304
	115.00	1517.8	704.8	131.33	1.1348	2.304
	115.25	1517.9	704.9	131.33	1.1345	2.304
	115.50	1518.0	705.0	131.33	1.1342	2.304
	115.75	1518.1	705.1	131.34	1.1339	2.305
	116.00	1518.2	705.2	131.34	1.1336	2.305
	116.25	1518.3	705.3	131.35	1.1333	2.305
	116.50	1518.4	705.4	131.36	1.1330	2.305
	116.75	1518.4	705.5	131.35	1.1328	2.306
	117.00	1518.5	705.6	131.36	1.1325	2.306
	117.25	1518.6	705.7	131.36	1.1322	2.306
	117.50	1518.7	705.7	131.36	1.1319	2.306
	117.75	1518.8	705.8	131.37	1.1316	2.307
	118.00	1518.9	705.9	131.37	1.1314	2.307
	118.25	1518.9	706.0	131.37	1.1311	2.307
	118.50	1519.1	706.1	131.37	1.1308	2.308
	118.75	1519.2	706.2	131.38	1.1305	2.308
	119.00	1519.2	706.3	131.38	1.1303	2.308
	119.25	1519.3	706.4	131.39	1.1300	2.308
	119.50	1519.4	706.4	131.39	1.1297	2.309
	119.75	1519.5	706.6	131.39	1.1294	2.309
	120.00	1519.6	706.7	131.39	1.1292	2.309
	120.25	1519.7	706.7	131.38	1.1289	2.310
	120.50	1519.8	706.8	131.39	1.1286	2.310
	120.75	1519.9	706.9	131.39	1.1284	2.310
	121.00	1520.0	707.0	131.39	1.1281	2.310
***** End Shut-in 1	121.25	1520.1	707.1	131.40	1.1278	2.311
***** Final Hydro.	259.50	2571.0	0.0	128.63		

# TEST HISTORY

9142 DST#2 MLP Younggren #A-2 OXY USA INC.

## Flag Points

t (Min.)	P (PSig)
A: 0.00	2729.94
B: 0.00	877.82
C: 15.50	812.97
D: 121.25	1520.07
Q: 0.00	2571.04

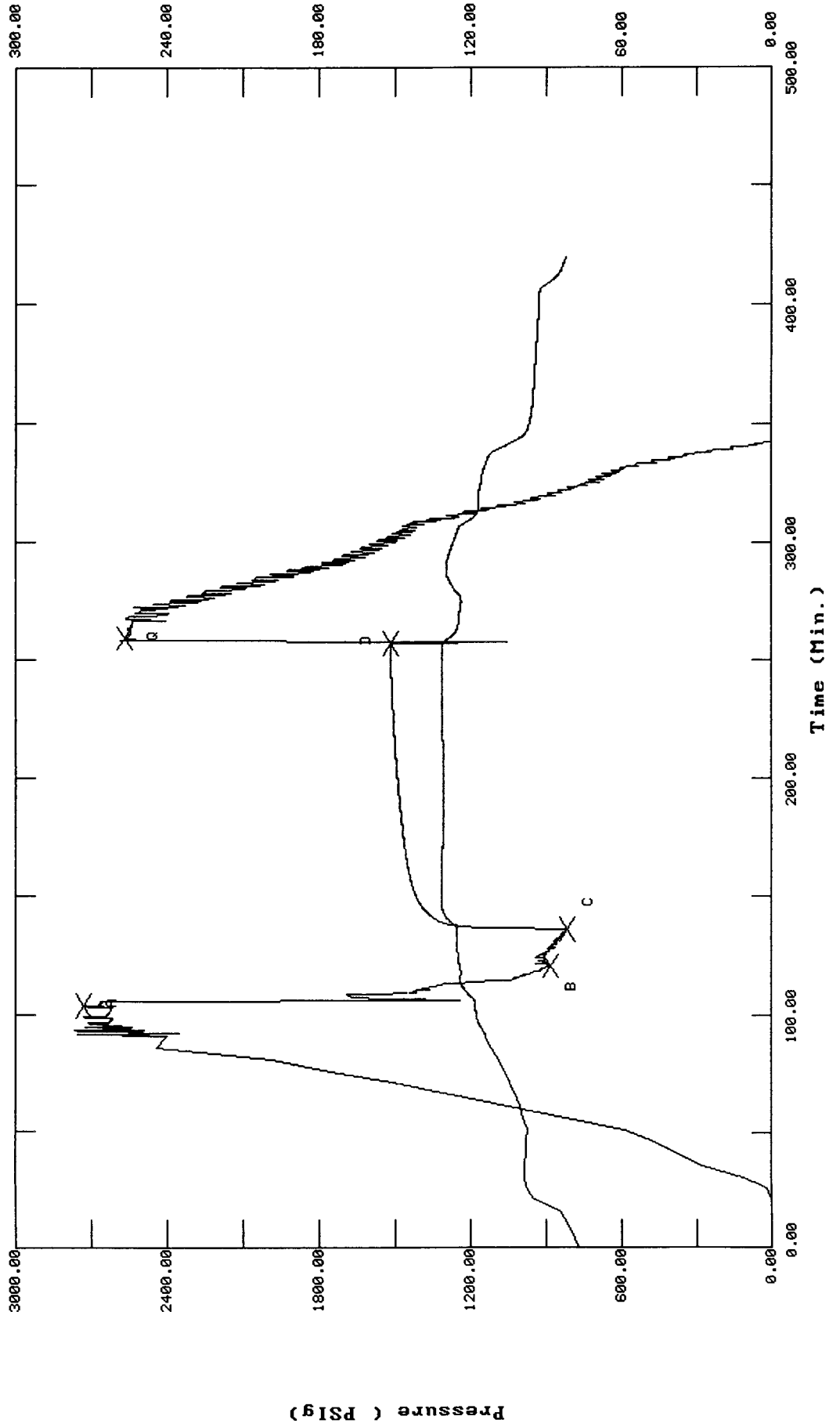
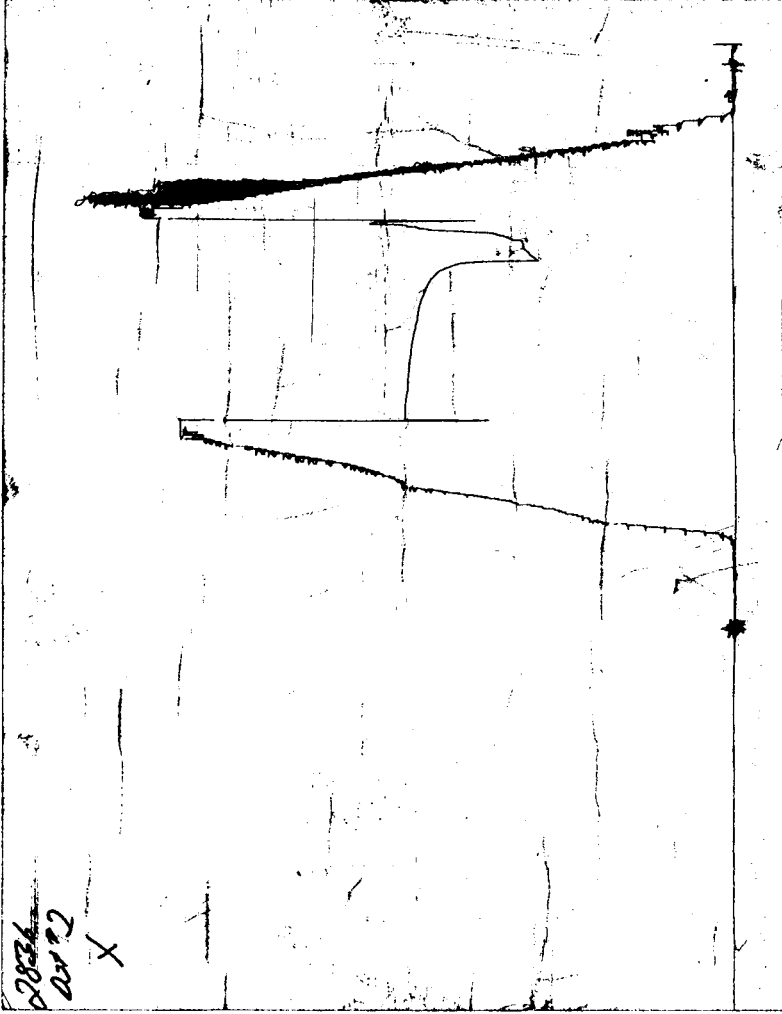


CHART PAGE



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



# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 9142 Date 6-29-97  
Company Name Oxy USA Inc.  
Lease M&P Youngsien # A-2 Test No. Dst # 2  
County Morton Sec. 3 Twp. 32S Rng. 39W

### SAMPLER RECOVERY

Gas 13.8 cubic Ft. ML  
Oil \_\_\_\_\_ ML  
Mud \_\_\_\_\_ ML  
Water \_\_\_\_\_ ML  
Other \_\_\_\_\_ ML  
Pressure 1250 PSI  
Total 4,000 ML

### PIT MUD ANALYSIS

Chlorides 4100 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 48  
Mud Weight 90  
Filtrate 8.6  
Other LCM #2

### SAMPLER ANALYSIS

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

### PIPE RECOVERY

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

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

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



TRILOBITE TESTING L.L.C.

OPERATOR : Oxy USA Inc. DATE 7-1-97  
 WELL NAME: MLP Younggren #A-2 KB 3224.00 ft TICKET NO: 9144 DST #3  
 LOCATION : 3-32S-39W GR 3213.00 ft FORMATION: Keys Sand  
 INTERVAL : 5800.00 To 5844.00 ft TD 5844.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	1055	1055	3024			PF Fr. 1233 to 1303 hr
SI 10 Range(Psi )	4050.0	4050.0	4995.0	0.0	0.0	IS Fr. 1303 to 1313 hr
SF 0 Clock(hrs)	12Hr.	12Hr.	Elet.			SF Fr. to hr
FS 0 Depth(ft )	5839.0	5839.0	5802.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2762.0	0.0	0.0	T STARTED 1000 hr
B. First Flow	0.0	0.0	959.0	0.0	0.0	T ON BOTM 1230 hr
B1. Final Flow	0.0	0.0	1290.0	0.0	0.0	T OPEN 1233 hr
C. In Shut-in	0.0	0.0	1286.0	0.0	0.0	T PULLED 1315 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 1630 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2738.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 145000.00 lbs
						Initial Str Wt 102000.00 lbs
						Unseated Str Wt 102000.00 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 634.00 ft
						D.P. Length 5154.00 ft

RECOVERY

Tot Fluid 300.00 ft of 300.00 ft in DC and 0.00 ft in DP  
 300.00 ft of Drilling Mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Had 15' of fill, opened tool and it slid to bottom, no blow, flushed tool no blow

Final Flow:  
 No blow, flushed tool, no blow

SAMPLES: NO  
 SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 8.80 lb/c  
 Vis. 54.00 S/L  
 W.L. 9.20 in3  
 F.C. 0.00 in  
 Mud Drop Y 35.0 ft  
 Amt. of fill 15.00 ft  
 Btm. H. Temp. 128.00 F  
 Hole Condition Rough  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00  
 Cushion Type  
 Reversed Out N  
 Tool Chased N  
 Tester Mike Colantonio  
 Co. Rep. Austin Garner  
 Contr. Beredco  
 Rig # 1  
 Unit #  
 Pump T.

Test Successful: N

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

WELL NAME: MLP Younggren #A-2

LOCATION : 3-32S-39W

TICKET No. 9144 D.S.T. No. 3 DATE 7-1-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 44ft

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 31ft

TOTAL TOOL ..... 75ft

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 75ft

D.C. ABOVE TOOLS.Stands7 Single Total 634ft

D.P. ABOVE TOOLS.Stands48 Single 1 Total 5154ft

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5863ft

TOTAL DEPTH ..... 5844ft

TOTAL DRILL PIPE ABOVE K.B. .... 19ft

REMARKS:

SAMPLER DATA

4000ml Mud

900PSI

4000ml Total

P.O. SUB Top tool	5768
C.O. SUB 1ft	5769
S.I. TOOL 5ft	5774
3ft SAMPLER	5777
HMV 5ft	5782
JARS 5ft	5787
SAFETY JOINT 3ft	5790
PACKER 5ft	5795
PACKER 5ft	5800
DEPTH STUBB 1ft	5801
ANCHOR 1ft	5802
Alpine Rec. @ 5807	
25ft Perf	5832
7ft Perf	5839
AK-1 Rec. @ 5839	
BULLNOSE T.D. 5ft Bullplug	5844

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9144 DST#3 MLP Younggren #A-2 OXY USA INC.

DATE: 07/01/97

TIME: 09:56:42  
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	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>
***** Initial Hydro.	134.25	2762.7	0.0	126.06		
***** Start Flow 1	0.00	959.9	0.0	130.84		
	0.25	1100.3	140.4	131.00		
	0.50	1155.9	196.0	131.21		
	0.75	1107.7	147.7	131.43		
	1.00	1185.2	225.2	131.65		
	1.25	1211.3	251.3	131.87		
	1.50	1228.3	268.4	132.07		
	1.75	1244.7	284.7	132.27		
	2.00	1257.8	297.9	132.44		
	2.25	1268.3	308.4	132.61		
	2.50	1276.1	316.1	132.77		
	2.75	1281.0	321.1	132.91		
	3.00	1284.0	324.0	133.04		
	3.25	1285.3	325.4	133.17		
	3.50	1286.1	326.1	133.28		
	3.75	1286.6	326.6	133.39		
	4.00	1287.0	327.0	133.48		
	4.25	1287.3	327.3	133.57		
	4.50	1287.6	327.6	133.65		
	4.75	1287.9	328.0	133.72		
	5.00	1288.2	328.2	133.79		
	5.25	1288.4	328.5	133.86		
	5.50	1288.6	328.6	133.91		
	5.75	1288.9	328.9	133.96		
	6.00	1289.1	329.1	134.00		
	6.25	1289.2	329.3	134.04		
	6.50	1289.4	329.5	134.08		
	6.75	1289.6	329.7	134.11		
	7.00	1289.8	329.8	134.14		
	7.25	1289.9	329.9	134.16		
	7.50	1290.1	330.2	134.18		
***** End Flow 1	7.75	1290.2	330.3	134.20		
***** Start Shutin 1	0.00	1290.2	0.0	134.20	0.0000	1.665
	0.25	1290.3	0.1	134.22	32.0000	1.665
	0.50	1267.8	-22.5	134.23	16.5000	1.607
	0.75	2737.2	1446.9	134.29	11.3333	7.492
	1.00	2739.2	1449.0	134.25	8.7500	7.503
	1.25	2819.1	1528.8	134.28	7.2000	7.947
	1.50	2777.9	1487.7	134.30	6.1667	7.717
	1.75	2773.7	1483.4	134.33	5.4286	7.693
	2.00	2772.9	1482.7	134.35	4.8750	7.689
	2.25	2765.2	1475.0	134.41	4.4444	7.646
	2.50	910.4	-379.9	134.49	4.1000	0.829
	2.75	223.8	-1066.4	134.50	3.8182	0.050
	3.00	660.2	-630.1	134.60	3.5833	0.436
	3.25	910.4	-379.8	134.62	3.3846	0.829
	3.50	1068.8	-221.5	134.61	3.2143	1.142
	3.75	1140.6	-149.6	134.62	3.0667	1.301
	4.00	1182.7	-107.6	134.63	2.9375	1.399
	4.25	1210.7	-79.6	134.64	2.8235	1.466

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9144 DST#3 MLP Younggren #A-2 OXY USA INC.

DATE: 07/01/97

TIME: 09:56:42

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
4.50	1229.7	-60.5	134.65	2.7222	1.512
4.75	1242.2	-48.0	134.67	2.6316	1.543
5.00	1250.7	-39.5	134.68	2.5500	1.564
5.25	1256.9	-33.3	134.69	2.4762	1.580
5.50	1261.5	-28.7	134.70	2.4091	1.591
5.75	1265.1	-25.2	134.72	2.3478	1.600
6.00	1268.0	-22.3	134.73	2.2917	1.608
6.25	1270.2	-20.0	134.73	2.2400	1.613
6.50	1272.0	-18.2	134.73	2.1923	1.618
6.75	1273.5	-16.8	134.75	2.1481	1.622
7.00	1274.5	-15.7	134.75	2.1071	1.624
7.25	1275.5	-14.7	134.75	2.0690	1.627
7.50	1276.3	-14.0	134.76	2.0333	1.629
7.75	1276.9	-13.3	134.75	2.0000	1.631
8.00	1277.4	-12.9	134.76	1.9688	1.632
8.25	1277.9	-12.3	134.76	1.9394	1.633
8.50	1278.3	-11.9	134.76	1.9118	1.634
8.75	1278.7	-11.6	134.76	1.8857	1.635
9.00	1279.0	-11.2	134.76	1.8611	1.636
9.25	1279.2	-11.1	134.75	1.8378	1.636
9.50	1279.5	-10.8	134.74	1.8158	1.637
9.75	1279.7	-10.5	134.74	1.7949	1.638
10.00	1279.9	-10.3	134.74	1.7750	1.638
10.25	1280.1	-10.1	134.73	1.7561	1.639
10.50	1280.2	-10.0	134.72	1.7381	1.639
10.75	1280.4	-9.8	134.71	1.7209	1.639
11.00	1280.6	-9.6	134.71	1.7045	1.640
11.25	1280.7	-9.5	134.70	1.6889	1.640
11.50	1280.6	-9.6	134.69	1.6739	1.640
11.75	1280.7	-9.6	134.68	1.6596	1.640
12.00	1280.7	-9.5	134.67	1.6458	1.640
12.25	1280.9	-9.4	134.67	1.6327	1.641
12.50	1281.1	-9.1	134.66	1.6200	1.641
12.75	1281.2	-9.0	134.64	1.6078	1.641
13.00	1281.3	-9.0	134.63	1.5962	1.642
13.25	1281.3	-8.9	134.62	1.5849	1.642
13.50	1281.4	-8.8	134.61	1.5741	1.642
13.75	1281.5	-8.8	134.60	1.5636	1.642
14.00	1281.5	-8.7	134.59	1.5536	1.642
14.25	1281.6	-8.6	134.57	1.5439	1.643
14.50	1281.7	-8.5	134.56	1.5345	1.643
14.75	1281.8	-8.5	134.55	1.5254	1.643
15.00	1281.8	-8.4	134.54	1.5167	1.643
15.25	1281.9	-8.4	134.54	1.5082	1.643
15.50	1281.9	-8.3	134.52	1.5000	1.643
15.75	1281.9	-8.3	134.51	1.4921	1.643
16.00	1282.0	-8.3	134.51	1.4844	1.643
16.25	1282.0	-8.2	134.48	1.4769	1.644
16.50	1282.1	-8.2	134.48	1.4697	1.644
16.75	1282.1	-8.1	134.47	1.4627	1.644
17.00	1282.2	-8.0	134.46	1.4559	1.644

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9144 DST#3 MLP Younggren #A-2 OXY USA INC.

DATE: 07/01/97

TIME: 09:56:42

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
17.25	1282.2	-8.0	134.44	1.4493	1.644
17.50	1282.3	-7.9	134.44	1.4429	1.644
17.75	1282.3	-7.9	134.43	1.4366	1.644
18.00	1282.1	-8.1	134.41	1.4306	1.644
18.25	1282.1	-8.2	134.41	1.4247	1.644
18.50	1282.1	-8.2	134.40	1.4189	1.644
18.75	1282.1	-8.1	134.38	1.4133	1.644
19.00	1282.5	-7.8	134.38	1.4079	1.645
19.25	1282.4	-7.8	134.36	1.4026	1.645
19.50	1282.4	-7.9	134.36	1.3974	1.645
19.75	1282.4	-7.8	134.35	1.3924	1.645
20.00	1282.6	-7.7	134.33	1.3875	1.645
20.25	1282.7	-7.5	134.33	1.3827	1.645
20.50	1282.9	-7.3	134.32	1.3780	1.646
20.75	1283.1	-7.2	134.32	1.3735	1.646
21.00	1283.1	-7.1	134.31	1.3690	1.646
21.25	1282.9	-7.3	134.30	1.3647	1.646
21.50	1282.8	-7.4	134.29	1.3605	1.646
21.75	1282.5	-7.7	134.28	1.3563	1.645
22.00	1282.9	-7.4	134.27	1.3523	1.646
22.25	1283.1	-7.1	134.27	1.3483	1.646
22.50	1283.4	-6.9	134.25	1.3444	1.647
22.75	1283.0	-7.2	134.25	1.3407	1.646
23.00	1282.9	-7.3	134.25	1.3370	1.646
23.25	1283.1	-7.1	134.24	1.3333	1.646
23.50	1283.1	-7.1	134.23	1.3298	1.646
23.75	1282.9	-7.3	134.22	1.3263	1.646
24.00	1281.5	-8.8	134.21	1.3229	1.642
24.25	1256.0	-34.3	134.22	1.3196	1.577
24.50	1273.2	-17.1	134.20	1.3163	1.621
24.75	1275.4	-14.9	134.20	1.3131	1.627
25.00	1277.1	-13.2	134.20	1.3100	1.631
25.25	1278.4	-11.8	134.18	1.3069	1.634
25.50	1279.4	-10.9	134.18	1.3039	1.637
25.75	1280.3	-9.9	134.16	1.3010	1.639
26.00	1280.8	-9.4	134.17	1.2981	1.641
26.25	1281.0	-9.3	134.16	1.2952	1.641
26.50	1281.1	-9.1	134.15	1.2925	1.641
26.75	1281.9	-8.3	134.15	1.2897	1.643
27.00	1282.4	-7.8	134.14	1.2870	1.645
27.25	1282.8	-7.5	134.14	1.2844	1.646
27.50	1282.7	-7.5	134.14	1.2818	1.645
27.75	1282.1	-8.1	134.13	1.2793	1.644
28.00	1283.3	-7.0	134.13	1.2768	1.647
28.25	1282.3	-7.9	134.12	1.2743	1.644
28.50	1281.8	-8.4	134.12	1.2719	1.643
28.75	1281.7	-8.5	134.12	1.2696	1.643
29.00	1282.3	-8.0	134.12	1.2672	1.644
29.25	1282.0	-8.3	134.11	1.2650	1.643
29.50	1282.7	-7.5	134.11	1.2627	1.645
29.75	1283.5	-6.7	134.10	1.2605	1.647

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9144 DST#3 MLP Younggren #A-2 OXY USA INC.

DATE: 07/01/97

TIME: 09:56:42  
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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	30.00	1283.6	-6.6	134.10	1.2583	1.648
	30.25	1283.8	-6.5	134.09	1.2562	1.648
	30.50	1282.6	-7.6	134.09	1.2541	1.645
	30.75	1284.1	-6.1	134.09	1.2520	1.649
	31.00	1283.8	-6.5	134.09	1.2500	1.648
	31.25	1284.7	-5.5	134.09	1.2480	1.650
	31.50	1285.3	-4.9	134.09	1.2460	1.652
	31.75	1285.7	-4.5	134.07	1.2441	1.653
	32.00	1285.8	-4.4	134.08	1.2422	1.653
	32.25	1284.3	-6.0	134.07	1.2403	1.649
	32.50	1283.0	-7.3	134.08	1.2385	1.646
	32.75	1282.7	-7.6	134.06	1.2366	1.645
	33.00	1282.5	-7.7	134.07	1.2348	1.645
	33.25	1282.5	-7.8	134.07	1.2331	1.645
	33.50	1284.1	-6.2	134.07	1.2313	1.649
	33.75	1285.3	-4.9	134.07	1.2296	1.652
	34.00	1285.9	-4.3	134.06	1.2279	1.654
***** End Shut-in 1	34.25	1286.4	-3.9	134.06	1.2263	1.655
***** Final Hydro.	205.00	2738.5	0.0	134.57		

# TEST HISTORY

9144 DST#3 MLP Younggren #A-2 OXY USA INC.

## Flag Points

t (Min.)	P (PSIG)
A: 0.00	2762.72
B: 0.00	959.95
C: 7.75	1290.24
D: 34.25	1286.35
Q: 0.00	2738.53

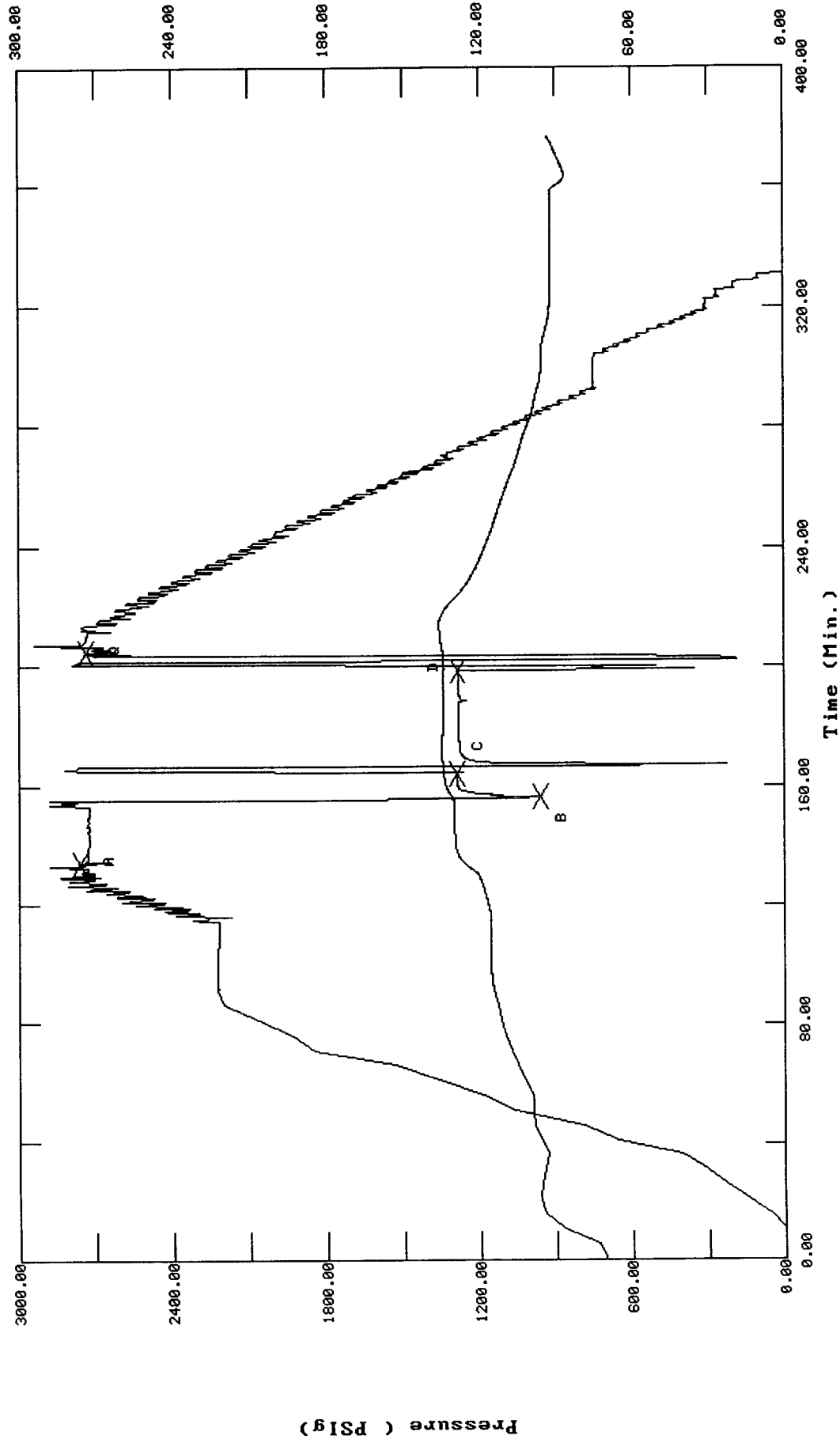
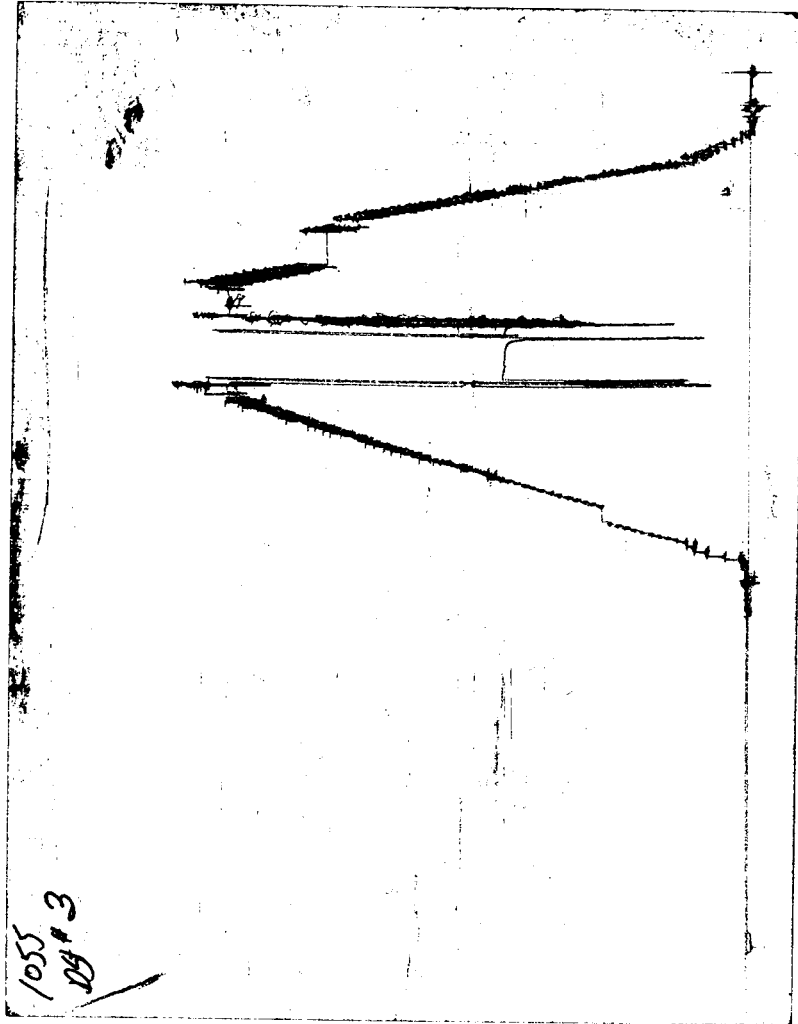


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Oxy USA Inc. DATE 7-2-97  
 WELL NAME: MLP Younggren #A-2 KB 3224.00 ft TICKET NO: 9145 DST #4  
 LOCATION : 3-32S-39W GR 3213.00 ft FORMATION: Keyes  
 INTERVAL : 5798.00 To 5488.00 ft TD 5488.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	1055	1055	3024			PF Fr. 0710 to 0740 hr
SI 60 Range(Psi )	3050.0	3050.0	4995.0	0.0	0.0	IS Fr. 0740 to 0840 hr
SF 60 Clock(hrs)	12 hr	12 hr	Elet.			SF Fr. 0840 to 0940 hr
FS 120 Depth(ft )	5835.0	5835.0	5801.0	0.0	0.0	FS Fr. 0940 to 1140 hr

	Field	1	2	3	4	
A. Init Hydro	2992.0	3000.0	2807.0	0.0	0.0	T STARTED 0430 hr
B. First Flow	108.0	119.0	84.0	0.0	0.0	T ON BOTM 0708 hr
B1. Final Flow	150.0	136.0	109.0	0.0	0.0	T OPEN 0710 hr
C. In Shut-in	1136.0	1141.0	1135.0	0.0	0.0	T PULLED 1140 hr
D. Init Flow	161.0	154.0	119.0	0.0	0.0	T OUT 1445 hr
E. Final Flow	161.0	161.0	140.0	0.0	0.0	
F. Fl Shut-in	1277.0	1275.0	1261.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2849.0	2789.0	2757.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs

RECOVERY

Tot Fluid	450.00 ft of	450.00 ft in DC and	0.00 ft in DP	Unseated Str Wt	110000.00 lbs
90.00	ft of 100% Mud			Bot Choke	0.75 in
0.00	ft of			Hole Size	7.88 in
360.00	ft of Slight Watery Gassy Oil Cut Forthey Oil			D Col. ID	2.25 in
0.00	ft of 10%water 15%gas 15%oil 60%Frothey Oil			D. Pipe ID	3.80 in
0.00	ft of			D.C. Length	634.00 ft
0.00	ft of			D.P. Length	5154.00 ft
0.00	ft of				
0.00	ft of				
SALINITY	0.00 P.P.M.	A.P.I. Gravity	0.00		

BLOW DESCRIPTION

Initial Flow:  
 Fair blow built to  
 Bottom of bucket in 15 minutes

Initial Shutin:  
 Bled off 2" - no blow back

Final Flow:  
 Strong blow - bottom of bucket as  
 soon as tool opened -  
 Gas to surface in 12 min  
 54.7 MCF

SAMPLES: YES 1  
 SENT TO:Caraway Lab. Liberal

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	69.00 S/L
W.L.	6.40 in3
F.C.	0.00 in
Mud Drop Y	50.0 ft
Amt. of fill	10.00 ft
Btm. H. Temp.	128.00 F
Hole Condition	Fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike Colantonio
Co. Rep.	Austin Garner
Contr.	Beredco
Rig #	1
Unit #	
Pump T.	

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

WELL NAME: MLP Younggren #A-2  
 LOCATION : 3-32S-39W  
 TICKET No. 9145      D.S.T. No. 4      DATE 7-2-97  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 31ft  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 46ft  
 TOTAL TOOL ..... 77ft  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 D.C. ANCHOR STND.Stands      Single      Total  
 D.P. ANCHOR STND.Stands      Single      Total  
 TOTAL ASSEMBLY ..... 77ft  
 D.C. ABOVE TOOLS.Stands7      Single      Total 634ft  
 D.P. ABOVE TOOLS.Stands48      Single 1      Total 5154ft  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5863ft  
 TOTAL DEPTH ..... 5844ft  
 TOTAL DRILL PIPE ABOVE K.B. .... 21ft

REMARKS:

SAMPLER DATA

11.2 Cubic ft Gas  
 50ml oil  
 250ml mud  
 50ml water  
 1100PSI  
 4000ml Total

P.O. SUB top tool	5766
C.O. SUB 1ft	5767
S.I. TOOL 5ft	5772
3ft SAMPLER	5775
HMV 5ft	5780
JARS 5ft	5785
SAFETY JOINT 3ft	5788
PACKER 5ft	5793
PACKER 5ft	5798
DEPTH STUBB 1ft	5799
ANCHOR 1ft perf	5800
Alpine Rec	5801
T.C. DEPTH	
5ft P U Sub	5805
25ft Perf	5830
9ft Perf	5839
BULLNOSE AK-1Rec	5835
T.D. 5ft Bullplug	5844

GAS RECOVERY

COMPANY: Oxy USA Inc. DATE: 7-2-97  
WELL NAME: MLP Younggren #A-2 KB Elev: 3224.00 ft TICKET #9145 DST #4  
WELL LOCATION: 3-32S-39W GR Elev: 3213.00 ft FORMATION: Keyes  
INTERVAL Fr.: 5798.00 To 5488.00 T.D.: 5488.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Data

\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.50	0	12	21900.0
20	0.50	0	8	17200.0
25	0.50	0	6	15400.0
30	0.50	0	10	19900.0
35	0.50	0	30	34600.0
40	0.50	0	70	52400.0
45	0.50	0	56	46900.0
50	0.50	0	62	49400.0
55	0.50	0	74	53900.0
60	0.50	0	76	54700.0

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: 971877  
Sample From: MLP Youngren A-2 DST 4  
Producer: Oxy USA, Inc.  
Date:  
Time:  
Sampler:  
Source:

Analyzed: 07/02/97  
Pressure:  
Temperature:  
Location: 3-32-39  
County: Morton  
State: Kansas  
Formation: Keyes

	Mole %	GPM
Helium	He: 0.232	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 6.267	0.000
Carbon Dioxide	CO2: 0.287	0.000
Methane	C1: 74.181	0.000
Ethane	C2: 7.352	1.966
Propane	C3: 4.884	1.346
Iso Butane	iC4: 1.066	0.349
Normal Butane	nC4: 2.154	0.679
Iso Pentane	iC5: 0.782	0.286
Normal Pentane	nC5: 0.955	0.346
Hexanes Plus	C6+: 1.840	0.803

TOTAL: 100.000 5.775  
Z Fact: 0.9962  
SP.GR.: 0.7940  
BTU (SAT): 1256.7 @ 14.73 psia  
BTU (DRY): 1278.9 @ 14.73 psia  
OCTANE RATING: 113.3

COMMENTS:

0.000

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01  
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	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>
***** Initial Hydro.	137.50	2807.7	0.0	122.01		
***** Start Flow 1	0.00	84.0	0.0	122.75		
	0.25	101.5	17.5	122.92		
	0.50	86.5	2.5	123.08		
	0.75	86.1	2.1	123.25		
	1.00	79.9	-4.2	123.41		
	1.25	115.8	31.8	123.59		
	1.50	154.5	70.4	123.76		
	1.75	93.8	9.7	123.93		
	2.00	89.8	5.8	124.10		
	2.25	116.5	32.4	124.28		
	2.50	144.8	60.7	124.45		
	2.75	140.3	56.2	124.63		
	3.00	170.6	86.6	124.80		
	3.25	203.9	119.8	124.95		
	3.50	106.6	22.6	125.11		
	3.75	76.5	-7.5	125.27		
	4.00	77.4	-6.7	125.41		
	4.25	90.2	6.2	125.56		
	4.50	109.4	25.4	125.68		
	4.75	85.1	1.1	125.81		
	5.00	103.7	19.7	125.93		
	5.25	115.0	30.9	126.04		
	5.50	126.7	42.6	126.14		
	5.75	138.6	54.6	126.24		
	6.00	150.8	66.8	126.33		
	6.25	163.8	79.7	126.40		
	6.50	181.9	97.9	126.47		
	6.75	153.3	69.3	126.54		
	7.00	103.1	19.0	126.61		
	7.25	94.7	10.7	126.67		
	7.50	108.5	24.4	126.73		
	7.75	124.7	40.7	126.77		
	8.00	137.9	53.8	126.84		
	8.25	145.2	61.2	126.88		
	8.50	150.7	66.7	126.93		
	8.75	164.1	80.0	126.97		
	9.00	176.1	92.1	127.02		
	9.25	187.0	103.0	127.06		
	9.50	188.6	104.6	127.10		
	9.75	188.8	104.8	127.14		
	10.00	189.5	105.5	127.17		
	10.25	206.8	122.7	127.21		
	10.50	165.1	81.1	127.23		
	10.75	131.5	47.5	127.28		
	11.00	115.1	31.0	127.31		
	11.25	105.6	21.5	127.33		
	11.50	113.9	29.8	127.39		
	11.75	128.2	44.2	127.42		
	12.00	140.7	56.6	127.46		
	12.25	152.1	68.1	127.51		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
12.50	165.7	81.7	127.55		
12.75	121.2	37.2	127.58		
13.00	135.7	51.6	127.62		
13.25	150.6	66.6	127.66		
13.50	164.3	80.3	127.69		
13.75	177.0	93.0	127.72		
14.00	188.9	104.8	127.75		
14.25	198.8	114.8	127.78		
14.50	212.3	128.2	127.82		
14.75	225.4	141.3	127.85		
15.00	238.5	154.5	127.88		
15.25	251.6	167.6	127.90		
15.50	264.6	180.5	127.94		
15.75	154.2	70.1	127.96		
16.00	129.0	45.0	127.98		
16.25	114.1	30.1	128.02		
16.50	104.7	20.7	128.04		
16.75	97.7	13.7	128.06		
17.00	93.4	9.3	128.09		
17.25	101.9	17.9	128.12		
17.50	88.6	4.6	128.14		
17.75	93.9	9.8	128.17		
18.00	98.5	14.4	128.18		
18.25	103.7	19.7	128.23		
18.50	106.0	22.0	128.24		
18.75	112.5	28.5	128.27		
19.00	94.6	10.6	128.29		
19.25	106.6	22.6	128.31		
19.50	113.0	28.9	128.34		
19.75	124.0	39.9	128.42		
20.00	134.9	50.9	128.38		
20.25	140.6	56.6	128.41		
20.50	142.8	58.7	128.43		
20.75	143.5	59.4	128.45		
21.00	144.2	60.2	128.48		
21.25	145.1	61.0	128.50		
21.50	154.4	70.3	128.52		
21.75	171.6	87.6	128.55		
22.00	189.7	105.7	128.57		
22.25	204.2	120.2	128.58		
22.50	202.5	118.5	128.61		
22.75	146.3	62.3	128.63		
23.00	142.0	57.9	128.66		
23.25	133.3	49.2	128.68		
23.50	151.0	67.0	128.70		
23.75	169.8	85.8	128.73		
24.00	184.6	100.6	128.74		
24.25	192.7	108.6	128.76		
24.50	199.6	115.5	128.79		
24.75	205.7	121.7	128.80		
25.00	209.7	125.7	128.82		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.25	214.8	130.8	128.86		
	25.50	223.3	139.2	128.87		
	25.75	158.1	74.0	128.89		
	26.00	150.3	66.3	128.91		
	26.25	172.2	88.1	128.93		
	26.50	190.4	106.4	128.95		
	26.75	208.4	124.4	128.97		
	27.00	225.2	141.2	129.00		
	27.25	238.7	154.7	129.02		
	27.50	250.6	166.6	129.04		
	27.75	262.2	178.1	129.05		
	28.00	278.5	194.5	129.08		
	28.25	289.6	205.6	129.11		
	28.50	296.1	212.1	129.13		
	28.75	304.4	220.4	129.14		
	29.00	224.4	140.4	129.15		
	29.25	160.5	76.4	129.19		
	29.50	135.3	51.2	129.20		
	29.75	124.5	40.5	129.23		
	30.00	117.8	33.7	129.25		
	30.25	110.4	26.3	129.28		
	30.50	103.7	19.6	129.30		
***** End Flow 1	30.75	109.7	25.7	129.31		
***** Start Shutin 1	0.00	109.7	0.0	129.31	0.0000	0.012
	0.25	120.0	10.3	129.33	124.0000	0.014
	0.50	132.8	23.1	129.36	62.5000	0.018
	0.75	151.9	42.1	129.39	42.0000	0.023
	1.00	169.8	60.1	129.40	31.7500	0.029
	1.25	187.5	77.7	129.43	25.6000	0.035
	1.50	204.7	95.0	129.45	21.5000	0.042
	1.75	221.5	111.8	129.47	18.5714	0.049
	2.00	238.6	128.8	129.50	16.3750	0.057
	2.25	255.3	145.6	129.52	14.6667	0.065
	2.50	271.2	161.5	129.55	13.3000	0.074
	2.75	286.1	176.4	129.57	12.1818	0.082
	3.00	301.0	191.2	129.59	11.2500	0.091
	3.25	315.6	205.9	129.61	10.4615	0.10
	3.50	330.4	220.6	129.64	9.7857	0.109
	3.75	344.8	235.0	129.67	9.2000	0.119
	4.00	359.2	249.4	129.70	8.6875	0.129
	4.25	373.6	263.9	129.73	8.2353	0.140
	4.50	388.0	278.3	129.76	7.8333	0.151
	4.75	402.2	292.5	129.78	7.4737	0.162
	5.00	416.4	306.6	129.80	7.1500	0.173
	5.25	430.2	320.4	129.83	6.8571	0.185
	5.50	444.0	334.2	129.87	6.5909	0.197
	5.75	457.6	347.9	129.90	6.3478	0.209
	6.00	471.0	361.3	129.92	6.1250	0.222
	6.25	484.3	374.6	129.96	5.9200	0.235
	6.50	497.4	387.7	129.99	5.7308	0.247
	6.75	510.4	400.6	130.02	5.5556	0.260

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
7.00	523.1	413.3	130.05	5.3929	0.274
7.25	535.6	425.8	130.07	5.2414	0.287
7.50	547.9	438.1	130.11	5.1000	0.300
7.75	559.8	450.1	130.13	4.9677	0.313
8.00	571.8	462.0	130.16	4.8438	0.327
8.25	583.4	473.7	130.18	4.7273	0.340
8.50	594.8	485.1	130.23	4.6176	0.354
8.75	606.1	496.3	130.26	4.5143	0.367
9.00	617.1	507.4	130.28	4.4167	0.381
9.25	627.8	518.1	130.31	4.3243	0.394
9.50	638.3	528.6	130.34	4.2368	0.407
9.75	648.7	539.0	130.37	4.1538	0.421
10.00	658.8	549.1	130.39	4.0750	0.434
10.25	668.7	559.0	130.42	4.0000	0.447
10.50	678.3	568.6	130.45	3.9286	0.460
10.75	687.8	578.0	130.48	3.8605	0.473
11.00	697.1	587.3	130.50	3.7955	0.486
11.25	706.0	596.3	130.53	3.7333	0.498
11.50	714.9	605.1	130.56	3.6739	0.511
11.75	723.5	613.8	130.59	3.6170	0.523
12.00	731.9	622.1	130.62	3.5625	0.536
12.25	740.1	630.3	130.64	3.5102	0.548
12.50	748.1	638.4	130.66	3.4600	0.560
12.75	756.1	646.3	130.70	3.4118	0.572
13.00	763.8	654.0	130.71	3.3654	0.583
13.25	771.3	661.5	130.74	3.3208	0.595
13.50	778.6	668.8	130.77	3.2778	0.606
13.75	785.8	676.1	130.78	3.2364	0.617
14.00	792.8	683.0	130.81	3.1964	0.629
14.25	799.6	689.9	130.83	3.1579	0.639
14.50	806.3	696.6	130.85	3.1207	0.650
14.75	812.7	703.0	130.88	3.0847	0.661
15.00	819.1	709.4	130.90	3.0500	0.671
15.25	825.3	715.6	130.93	3.0164	0.681
15.50	831.3	721.6	130.94	2.9839	0.691
15.75	837.3	727.5	130.96	2.9524	0.701
16.00	843.1	733.4	130.99	2.9219	0.711
16.25	848.7	739.0	131.01	2.8923	0.720
16.50	854.3	744.5	131.02	2.8636	0.730
16.75	859.6	749.9	131.05	2.8358	0.739
17.00	864.9	755.1	131.07	2.8088	0.748
17.25	870.0	760.2	131.08	2.7826	0.757
17.50	875.0	765.3	131.11	2.7571	0.766
17.75	879.9	770.2	131.12	2.7324	0.774
18.00	884.7	775.0	131.13	2.7083	0.783
18.25	889.4	779.7	131.16	2.6849	0.791
18.50	894.0	784.2	131.18	2.6622	0.799
18.75	898.4	788.7	131.19	2.6400	0.807
19.00	902.8	793.0	131.21	2.6184	0.815
19.25	907.0	797.3	131.21	2.5974	0.823
19.50	911.2	801.5	131.24	2.5769	0.830

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.75	915.2	805.5	131.25	2.5570	0.838
20.00	919.2	809.4	131.28	2.5375	0.845
20.25	923.1	813.3	131.29	2.5185	0.852
20.50	926.9	817.1	131.30	2.5000	0.859
20.75	930.6	820.9	131.32	2.4819	0.866
21.00	934.3	824.5	131.33	2.4643	0.873
21.25	937.7	828.0	131.34	2.4471	0.879
21.50	941.2	831.5	131.35	2.4302	0.886
21.75	944.6	834.9	131.37	2.4138	0.892
22.00	948.0	838.3	131.39	2.3977	0.899
22.25	951.3	841.6	131.40	2.3820	0.905
22.50	954.5	844.7	131.41	2.3667	0.911
22.75	957.5	847.7	131.43	2.3516	0.917
23.00	960.4	850.6	131.45	2.3370	0.922
23.25	963.2	853.5	131.45	2.3226	0.928
23.50	966.0	856.3	131.47	2.3085	0.933
23.75	968.8	859.0	131.48	2.2947	0.938
24.00	971.2	861.5	131.49	2.2812	0.943
24.25	973.6	863.9	131.51	2.2680	0.948
24.50	976.0	866.2	131.52	2.2551	0.953
24.75	978.4	868.7	131.53	2.2424	0.957
25.00	980.8	871.1	131.54	2.2300	0.962
25.25	983.2	873.5	131.55	2.2178	0.967
25.50	985.6	875.9	131.56	2.2059	0.971
25.75	987.9	878.2	131.56	2.1942	0.976
26.00	990.1	880.3	131.58	2.1827	0.980
26.25	992.2	882.4	131.59	2.1714	0.984
26.50	994.3	884.5	131.59	2.1604	0.989
26.75	996.3	886.6	131.59	2.1495	0.993
27.00	998.4	888.7	131.60	2.1389	0.997
27.25	1000.5	890.8	131.61	2.1284	1.001
27.50	1002.5	892.7	131.62	2.1182	1.005
27.75	1004.4	894.6	131.62	2.1081	1.009
28.00	1006.4	896.6	131.62	2.0982	1.013
28.25	1008.1	898.4	131.63	2.0885	1.016
28.50	1010.1	900.4	131.64	2.0789	1.020
28.75	1012.0	902.3	131.64	2.0696	1.024
29.00	1014.0	904.2	131.66	2.0603	1.028
29.25	1015.8	906.1	131.66	2.0513	1.032
29.50	1017.6	907.9	131.67	2.0424	1.036
29.75	1019.3	909.6	131.67	2.0336	1.039
30.00	1021.1	911.4	131.67	2.0250	1.043
30.25	1022.8	913.1	131.68	2.0165	1.046
30.50	1024.5	914.8	131.69	2.0082	1.050
30.75	1026.1	916.4	131.69	2.0000	1.053
31.00	1027.7	917.9	131.70	1.9919	1.056
31.25	1029.3	919.6	131.71	1.9840	1.059
31.50	1030.9	921.2	131.71	1.9762	1.063
31.75	1032.4	922.7	131.72	1.9685	1.066
32.00	1034.1	924.3	131.73	1.9609	1.069
32.25	1035.6	925.9	131.73	1.9535	1.072

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
32.50	1037.1	927.3	131.75	1.9462	1.076
32.75	1038.6	928.8	131.76	1.9389	1.079
33.00	1040.0	930.3	131.77	1.9318	1.082
33.25	1041.4	931.7	131.78	1.9248	1.085
33.50	1042.9	933.1	131.79	1.9179	1.088
33.75	1044.3	934.6	131.79	1.9111	1.091
34.00	1045.7	936.0	131.80	1.9044	1.094
34.25	1047.1	937.3	131.81	1.8978	1.096
34.50	1048.4	938.7	131.83	1.8913	1.099
34.75	1049.8	940.1	131.84	1.8849	1.102
35.00	1051.1	941.3	131.85	1.8786	1.105
35.25	1052.3	942.6	131.86	1.8723	1.107
35.50	1053.6	943.9	131.87	1.8662	1.110
35.75	1054.9	945.2	131.89	1.8601	1.113
36.00	1056.1	946.4	131.89	1.8542	1.115
36.25	1057.3	947.5	131.90	1.8483	1.118
36.50	1058.6	948.9	131.90	1.8425	1.121
36.75	1059.7	950.0	131.92	1.8367	1.123
37.00	1061.0	951.2	131.92	1.8311	1.126
37.25	1062.2	952.5	131.94	1.8255	1.128
37.50	1063.4	953.7	131.94	1.8200	1.131
37.75	1064.7	954.9	131.95	1.8146	1.133
38.00	1065.9	956.1	131.95	1.8092	1.136
38.25	1067.0	957.3	131.96	1.8039	1.139
38.50	1068.1	958.4	131.96	1.7987	1.141
38.75	1069.3	959.5	131.97	1.7935	1.143
39.00	1070.4	960.6	131.97	1.7885	1.146
39.25	1071.4	961.7	131.99	1.7834	1.148
39.50	1072.5	962.8	132.00	1.7785	1.150
39.75	1073.5	963.8	132.01	1.7736	1.152
40.00	1074.5	964.8	132.01	1.7688	1.155
40.25	1075.5	965.8	132.02	1.7640	1.157
40.50	1076.5	966.8	132.03	1.7593	1.159
40.75	1077.4	967.7	132.04	1.7546	1.161
41.00	1078.4	968.7	132.04	1.7500	1.163
41.25	1079.4	969.7	132.06	1.7455	1.165
41.50	1080.4	970.6	132.06	1.7410	1.167
41.75	1081.3	971.6	132.07	1.7365	1.169
42.00	1082.2	972.5	132.07	1.7321	1.171
42.25	1083.2	973.4	132.07	1.7278	1.173
42.50	1084.2	974.4	132.07	1.7235	1.175
42.75	1085.2	975.4	132.08	1.7193	1.178
43.00	1086.2	976.4	132.08	1.7151	1.180
43.25	1087.2	977.4	132.08	1.7110	1.182
43.50	1088.1	978.4	132.09	1.7069	1.184
43.75	1089.0	979.3	132.08	1.7029	1.186
44.00	1090.0	980.2	132.08	1.6989	1.188
44.25	1090.9	981.2	132.09	1.6949	1.190
44.50	1091.8	982.1	132.08	1.6910	1.192
44.75	1092.7	983.0	132.09	1.6872	1.194
45.00	1093.6	983.9	132.08	1.6833	1.196

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
45.25	1094.5	984.7	132.09	1.6796	1.198
45.50	1095.4	985.6	132.09	1.6758	1.200
45.75	1096.3	986.5	132.10	1.6721	1.202
46.00	1097.2	987.4	132.09	1.6685	1.204
46.25	1098.1	988.3	132.10	1.6649	1.206
46.50	1099.0	989.3	132.10	1.6613	1.208
46.75	1099.9	990.1	132.10	1.6578	1.210
47.00	1100.9	991.1	132.11	1.6543	1.212
47.25	1101.6	991.9	132.10	1.6508	1.214
47.50	1102.3	992.6	132.11	1.6474	1.215
47.75	1103.2	993.5	132.12	1.6440	1.217
48.00	1104.0	994.2	132.12	1.6406	1.219
48.25	1104.8	995.1	132.12	1.6373	1.221
48.50	1105.7	996.0	132.12	1.6340	1.223
48.75	1106.5	996.8	132.14	1.6308	1.224
49.00	1107.3	997.6	132.13	1.6276	1.226
49.25	1108.2	998.4	132.15	1.6244	1.228
49.50	1108.9	999.1	132.15	1.6212	1.230
49.75	1109.6	999.9	132.15	1.6181	1.231
50.00	1110.4	1000.7	132.16	1.6150	1.233
50.25	1111.2	1001.4	132.16	1.6119	1.235
50.50	1111.9	1002.2	132.17	1.6089	1.236
50.75	1112.6	1002.8	132.17	1.6059	1.238
51.00	1113.2	1003.5	132.18	1.6029	1.239
51.25	1113.9	1004.1	132.19	1.6000	1.241
51.50	1114.5	1004.8	132.20	1.5971	1.242
51.75	1115.1	1005.4	132.19	1.5942	1.243
52.00	1115.8	1006.1	132.20	1.5913	1.245
52.25	1116.6	1006.9	132.20	1.5885	1.247
52.50	1117.3	1007.6	132.21	1.5857	1.248
52.75	1117.9	1008.2	132.21	1.5829	1.250
53.00	1118.7	1008.9	132.22	1.5802	1.251
53.25	1119.5	1009.7	132.23	1.5775	1.253
53.50	1120.2	1010.5	132.23	1.5748	1.255
53.75	1120.9	1011.1	132.24	1.5721	1.256
54.00	1121.5	1011.8	132.25	1.5694	1.258
54.25	1122.2	1012.4	132.26	1.5668	1.259
54.50	1122.8	1013.1	132.26	1.5642	1.261
54.75	1123.5	1013.7	132.26	1.5616	1.262
55.00	1124.0	1014.3	132.27	1.5591	1.263
55.25	1124.6	1014.9	132.28	1.5566	1.265
55.50	1125.2	1015.5	132.29	1.5541	1.266
55.75	1125.8	1016.1	132.30	1.5516	1.267
56.00	1126.5	1016.7	132.29	1.5491	1.269
56.25	1127.1	1017.4	132.30	1.5467	1.270
56.50	1127.6	1017.9	132.32	1.5442	1.272
56.75	1128.3	1018.5	132.31	1.5419	1.273
57.00	1129.0	1019.2	132.32	1.5395	1.275
57.25	1129.6	1019.9	132.32	1.5371	1.276
57.50	1130.3	1020.5	132.33	1.5348	1.277
57.75	1131.0	1021.2	132.33	1.5325	1.279

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	58.00	1131.6	1021.8	132.33	1.5302	1.280
	58.25	1132.1	1022.4	132.35	1.5279	1.282
	58.50	1132.8	1023.1	132.35	1.5256	1.283
	58.75	1133.4	1023.7	132.35	1.5234	1.285
	59.00	1134.1	1024.3	132.35	1.5212	1.286
	59.25	1134.7	1025.0	132.35	1.5190	1.288
	59.50	1135.2	1025.5	132.36	1.5168	1.289
***** End Shut-in 1	59.75	1135.3	1025.6	132.36	1.5146	1.289
***** Start Flow 2	0.00	119.6	0.0	132.20		
	0.25	136.6	17.0	132.19		
	0.50	155.2	35.5	132.19		
	0.75	168.2	48.5	132.17		
	1.00	178.8	59.2	132.17		
	1.25	188.0	68.4	132.18		
	1.50	195.9	76.2	132.20		
	1.75	202.1	82.5	132.23		
	2.00	206.4	86.8	132.25		
	2.25	209.9	90.3	132.29		
	2.50	212.9	93.3	132.32		
	2.75	208.1	88.4	132.35		
	3.00	176.8	57.1	132.37		
	3.25	143.0	23.4	132.40		
	3.50	135.1	15.5	132.42		
	3.75	124.3	4.6	132.44		
	4.00	131.1	11.5	132.45		
	4.25	154.4	34.7	132.46		
	4.50	175.9	56.3	132.48		
	4.75	194.9	75.3	132.49		
	5.00	210.2	90.6	132.51		
	5.25	224.0	104.4	132.53		
	5.50	236.5	116.9	132.56		
	5.75	248.2	128.5	132.58		
	6.00	259.3	139.6	132.62		
	6.25	269.6	149.9	132.65		
	6.50	279.0	159.4	132.67		
	6.75	288.3	168.6	132.70		
	7.00	296.9	177.3	132.73		
	7.25	305.2	185.6	132.76		
	7.50	309.5	189.8	132.79		
	7.75	313.2	193.6	132.82		
	8.00	316.9	197.2	132.85		
	8.25	320.2	200.6	132.88		
	8.50	323.3	203.6	132.90		
	8.75	326.3	206.7	132.93		
	9.00	329.1	209.4	132.95		
	9.25	331.5	211.9	132.99		
	9.50	333.3	213.7	133.01		
	9.75	331.7	212.1	133.03		
	10.00	330.9	211.2	133.06		
	10.25	331.5	211.8	133.08		
	10.50	333.4	213.7	133.09		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97                      TIME: 04:51:01  
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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.75	335.5	215.8	133.12		
11.00	339.6	220.0	133.14		
11.25	342.7	223.1	133.17		
11.50	346.2	226.5	133.19		
11.75	352.9	233.3	133.21		
12.00	358.1	238.4	133.24		
12.25	361.3	241.7	133.26		
12.50	368.0	248.4	133.27		
12.75	373.6	253.9	133.29		
13.00	377.2	257.5	133.32		
13.25	381.1	261.5	133.33		
13.50	267.0	147.3	133.35		
13.75	291.4	171.8	133.38		
14.00	321.0	201.4	133.39		
14.25	341.5	221.8	133.40		
14.50	351.2	231.6	133.43		
14.75	343.4	223.8	133.45		
15.00	366.1	246.4	133.45		
15.25	383.6	263.9	133.48		
15.50	397.5	277.9	133.50		
15.75	410.4	290.8	133.53		
16.00	422.5	302.9	133.54		
16.25	434.0	314.4	133.57		
16.50	441.4	321.8	133.59		
16.75	437.5	317.9	133.62		
17.00	435.9	316.2	133.64		
17.25	435.1	315.5	133.67		
17.50	434.6	315.0	133.69		
17.75	434.6	314.9	133.71		
18.00	434.7	315.1	133.74		
18.25	434.8	315.1	133.76		
18.50	434.7	315.1	133.79		
18.75	434.2	314.5	133.81		
19.00	433.9	314.3	133.83		
19.25	450.6	331.0	133.85		
19.50	478.5	358.8	133.87		
19.75	488.3	368.7	133.89		
20.00	497.3	377.7	133.91		
20.25	497.0	377.3	133.94		
20.50	475.9	356.2	133.96		
20.75	492.0	372.3	133.98		
21.00	518.0	398.4	134.01		
21.25	538.8	419.1	134.02		
21.50	557.0	437.4	134.05		
21.75	572.6	452.9	134.08		
22.00	584.8	465.1	134.11		
22.25	567.2	447.6	134.12		
22.50	454.7	335.1	134.15		
22.75	455.8	336.2	134.18		
23.00	476.9	357.2	134.20		
23.25	494.0	374.3	134.22		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
23.50	500.2	380.5	134.24		
23.75	517.3	397.7	134.25		
24.00	535.4	415.8	134.27		
24.25	543.5	423.9	134.29		
24.50	540.2	420.6	134.29		
24.75	538.0	418.3	134.32		
25.00	536.1	416.4	134.35		
25.25	534.0	414.3	134.35		
25.50	538.6	418.9	134.38		
25.75	552.6	432.9	134.40		
26.00	566.0	446.3	134.41		
26.25	574.1	454.5	134.43		
26.50	582.4	462.8	134.44		
26.75	401.9	282.2	134.45		
27.00	302.5	182.8	134.47		
27.25	246.6	126.9	134.48		
27.50	202.7	83.1	134.47		
27.75	160.2	40.6	134.46		
28.00	134.1	14.5	134.43		
28.25	117.6	-2.0	134.37		
28.50	104.3	-15.4	134.31		
28.75	100.8	-18.9	134.26		
29.00	92.0	-27.7	134.20		
29.25	84.5	-35.2	134.14		
29.50	82.9	-36.8	134.08		
29.75	80.4	-39.3	134.03		
30.00	80.1	-39.6	133.99		
30.25	77.8	-41.9	133.96		
30.50	74.9	-44.7	133.91		
30.75	85.5	-34.2	133.88		
31.00	76.5	-43.1	133.86		
31.25	75.1	-44.5	133.85		
31.50	76.7	-43.0	133.83		
31.75	79.2	-40.4	133.82		
32.00	79.3	-40.3	133.81		
32.25	83.5	-36.1	133.81		
32.50	83.7	-35.9	133.81		
32.75	85.6	-34.1	133.80		
33.00	90.3	-29.3	133.80		
33.25	87.4	-32.2	133.81		
33.50	86.9	-32.7	133.82		
33.75	92.3	-27.3	133.83		
34.00	89.1	-30.6	133.83		
34.25	87.9	-31.7	133.84		
34.50	90.8	-28.8	133.86		
34.75	88.4	-31.2	133.87		
35.00	91.7	-27.9	133.88		
35.25	89.9	-29.7	133.89		
35.50	87.2	-32.4	133.90		
35.75	92.2	-27.5	133.92		
36.00	103.3	-16.3	133.93		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
36.25	121.3	1.6	133.95		
36.50	105.7	-14.0	133.96		
36.75	90.8	-28.9	133.97		
37.00	99.6	-20.1	133.99		
37.25	98.9	-20.7	134.01		
37.50	103.5	-16.1	134.01		
37.75	108.0	-11.6	134.04		
38.00	111.5	-8.1	134.05		
38.25	119.6	-0.1	134.07		
38.50	116.2	-3.5	134.08		
38.75	104.2	-15.4	134.09		
39.00	100.5	-19.1	134.11		
39.25	99.6	-20.1	134.13		
39.50	117.1	-2.5	134.14		
39.75	146.3	26.7	134.15		
40.00	180.1	60.5	134.17		
40.25	156.1	36.4	134.18		
40.50	113.6	-6.0	134.19		
40.75	111.6	-8.1	134.22		
41.00	111.1	-8.6	134.24		
41.25	105.0	-14.6	134.24		
41.50	103.7	-15.9	134.26		
41.75	101.0	-18.6	134.27		
42.00	98.1	-21.5	134.28		
42.25	99.7	-20.0	134.28		
42.50	105.5	-14.1	134.29		
42.75	107.1	-12.5	134.31		
43.00	105.2	-14.4	134.31		
43.25	101.1	-18.5	134.33		
43.50	102.4	-17.2	134.32		
43.75	105.1	-14.5	134.34		
44.00	104.2	-15.5	134.34		
44.25	104.3	-15.3	134.35		
44.50	105.9	-13.8	134.36		
44.75	114.6	-5.0	134.36		
45.00	113.6	-6.0	134.37		
45.25	105.9	-13.7	134.37		
45.50	111.1	-8.6	134.39		
45.75	107.9	-11.8	134.39		
46.00	106.6	-13.1	134.40		
46.25	133.0	13.4	134.40		
46.50	139.0	19.3	134.41		
46.75	115.2	-4.4	134.42		
47.00	107.8	-11.9	134.44		
47.25	110.1	-9.6	134.43		
47.50	106.6	-13.0	134.45		
47.75	110.6	-9.1	134.45		
48.00	144.2	24.6	134.46		
48.25	117.0	-2.7	134.46		
48.50	109.6	-10.1	134.48		
48.75	116.4	-3.2	134.49		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	49.00	128.6	9.0	134.50		
	49.25	149.7	30.1	134.50		
	49.50	170.2	50.5	134.51		
	49.75	132.7	13.0	134.53		
	50.00	124.1	4.4	134.53		
	50.25	135.7	16.1	134.55		
	50.50	145.9	26.3	134.55		
	50.75	182.6	62.9	134.57		
	51.00	193.1	73.5	134.57		
	51.25	208.9	89.3	134.58		
	51.50	224.2	104.6	134.60		
	51.75	210.8	91.1	134.62		
	52.00	188.6	68.9	134.65		
	52.25	175.9	56.2	134.66		
	52.50	166.3	46.7	134.67		
	52.75	175.8	56.1	134.68		
	53.00	215.8	96.2	134.70		
	53.25	162.7	43.0	134.71		
	53.50	156.4	36.8	134.73		
	53.75	146.7	27.1	134.74		
***** End Flow 2	54.00	140.2	20.5	134.75		
***** Start Shutin 2	0.00	140.2	0.0	134.75	0.0000	0.020
	0.25	131.3	-8.8	134.75	340.0000	0.017
	0.50	126.3	-13.9	134.76	170.5000	0.016
	0.75	155.5	15.3	134.76	114.0000	0.024
	1.00	192.0	51.9	134.77	85.7500	0.037
	1.25	227.2	87.1	134.78	68.8000	0.052
	1.50	261.1	121.0	134.79	57.5000	0.068
	1.75	294.1	154.0	134.79	49.4286	0.087
	2.00	326.1	185.9	134.82	43.3750	0.106
	2.25	356.8	216.7	134.84	38.6667	0.127
	2.50	386.9	246.7	134.87	34.9000	0.150
	2.75	415.9	275.8	134.90	31.8182	0.173
	3.00	444.4	304.3	134.93	29.2500	0.198
	3.25	471.9	331.8	134.96	27.0769	0.223
	3.50	498.5	358.3	134.99	25.2143	0.248
	3.75	524.2	384.0	135.04	23.6000	0.275
	4.00	549.2	409.0	135.07	22.1875	0.302
	4.25	573.3	433.2	135.12	20.9412	0.329
	4.50	596.7	456.6	135.16	19.8333	0.356
	4.75	618.9	478.8	135.20	18.8421	0.383
	5.00	640.0	499.8	135.25	17.9500	0.410
	5.25	659.4	519.2	135.30	17.1429	0.435
	5.50	677.8	537.6	135.35	16.4091	0.459
	5.75	696.6	556.5	135.40	15.7391	0.485
	6.00	715.4	575.2	135.45	15.1250	0.512
	6.25	733.3	593.2	135.49	14.5600	0.538
	6.50	750.4	610.2	135.54	14.0385	0.563
	6.75	766.5	626.4	135.59	13.5556	0.588
	7.00	781.1	641.0	135.64	13.1071	0.610
	7.25	795.3	655.1	135.67	12.6897	0.632

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
7.50	809.1	669.0	135.72	12.3000	0.655
7.75	822.5	682.3	135.77	11.9355	0.677
8.00	835.3	695.2	135.81	11.5938	0.698
8.25	847.8	707.7	135.87	11.2727	0.719
8.50	860.2	720.0	135.90	10.9706	0.740
8.75	872.1	732.0	135.95	10.6857	0.761
9.00	883.5	743.3	135.99	10.4167	0.781
9.25	894.4	754.2	136.04	10.1622	0.800
9.50	904.9	764.8	136.07	9.9211	0.819
9.75	915.1	774.9	136.11	9.6923	0.837
10.00	924.9	784.8	136.16	9.4750	0.855
10.25	934.2	794.1	136.19	9.2683	0.873
10.50	943.0	802.9	136.22	9.0714	0.889
10.75	951.8	811.6	136.27	8.8837	0.906
11.00	960.3	820.2	136.30	8.7045	0.922
11.25	968.7	828.6	136.33	8.5333	0.938
11.50	976.6	836.5	136.37	8.3696	0.954
11.75	984.1	843.9	136.40	8.2128	0.968
12.00	991.1	851.0	136.42	8.0625	0.982
12.25	998.0	857.8	136.45	7.9184	0.996
12.50	1004.5	864.3	136.48	7.7800	1.009
12.75	1010.8	870.7	136.51	7.6471	1.022
13.00	1017.0	876.8	136.53	7.5192	1.034
13.25	1022.9	882.8	136.56	7.3962	1.046
13.50	1028.6	888.5	136.58	7.2778	1.058
13.75	1034.4	894.2	136.60	7.1636	1.070
14.00	1039.7	899.5	136.63	7.0536	1.081
14.25	1044.7	904.5	136.65	6.9474	1.091
14.50	1049.4	909.3	136.66	6.8448	1.101
14.75	1054.0	913.9	136.68	6.7458	1.111
15.00	1058.7	918.5	136.70	6.6500	1.121
15.25	1063.1	923.0	136.72	6.5574	1.130
15.50	1067.5	927.3	136.74	6.4677	1.139
15.75	1071.6	931.4	136.75	6.3810	1.148
16.00	1075.5	935.4	136.77	6.2969	1.157
16.25	1079.4	939.2	136.78	6.2154	1.165
16.50	1083.0	942.9	136.80	6.1364	1.173
16.75	1086.6	946.4	136.82	6.0597	1.181
17.00	1090.0	949.9	136.82	5.9853	1.188
17.25	1093.4	953.3	136.84	5.9130	1.196
17.50	1096.7	956.5	136.84	5.8429	1.203
17.75	1099.9	959.7	136.85	5.7746	1.210
18.00	1103.0	962.8	136.86	5.7083	1.217
18.25	1106.1	965.9	136.88	5.6438	1.223
18.50	1109.1	968.9	136.89	5.5811	1.230
18.75	1111.9	971.8	136.90	5.5200	1.236
19.00	1114.7	974.5	136.91	5.4605	1.242
19.25	1117.2	977.0	136.93	5.4026	1.248
19.50	1119.7	979.6	136.93	5.3462	1.254
19.75	1122.2	982.0	136.94	5.2911	1.259
20.00	1124.6	984.4	136.95	5.2375	1.265

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.25	1126.9	986.7	136.96	5.1852	1.270
20.50	1129.1	989.0	136.97	5.1341	1.275
20.75	1131.3	991.1	136.98	5.0843	1.280
21.00	1133.5	993.3	136.98	5.0357	1.285
21.25	1135.6	995.4	137.01	4.9882	1.290
21.50	1137.6	997.4	137.00	4.9419	1.294
21.75	1139.6	999.4	137.02	4.8966	1.299
22.00	1141.5	1001.4	137.03	4.8523	1.303
22.25	1143.4	1003.3	137.04	4.8090	1.307
22.50	1145.2	1005.1	137.03	4.7667	1.312
22.75	1147.0	1006.9	137.05	4.7253	1.316
23.00	1148.7	1008.6	137.05	4.6848	1.320
23.25	1150.5	1010.3	137.05	4.6452	1.324
23.50	1152.1	1011.9	137.06	4.6064	1.327
23.75	1153.7	1013.6	137.07	4.5684	1.331
24.00	1155.3	1015.1	137.07	4.5312	1.335
24.25	1156.8	1016.6	137.08	4.4948	1.338
24.50	1158.3	1018.1	137.09	4.4592	1.342
24.75	1159.7	1019.6	137.09	4.4242	1.345
25.00	1161.2	1021.0	137.11	4.3900	1.348
25.25	1162.6	1022.4	137.11	4.3564	1.352
25.50	1163.9	1023.8	137.11	4.3235	1.355
25.75	1165.3	1025.1	137.12	4.2913	1.358
26.00	1166.5	1026.4	137.12	4.2596	1.361
26.25	1167.8	1027.6	137.12	4.2286	1.364
26.50	1169.0	1028.8	137.13	4.1981	1.366
26.75	1170.1	1029.9	137.13	4.1682	1.369
27.00	1171.2	1031.1	137.14	4.1389	1.372
27.25	1172.3	1032.1	137.14	4.1101	1.374
27.50	1173.4	1033.2	137.14	4.0818	1.377
27.75	1174.4	1034.3	137.14	4.0541	1.379
28.00	1175.5	1035.3	137.15	4.0268	1.382
28.25	1176.5	1036.3	137.15	4.0000	1.384
28.50	1177.5	1037.4	137.15	3.9737	1.387
28.75	1178.4	1038.3	137.15	3.9478	1.389
29.00	1179.4	1039.2	137.16	3.9224	1.391
29.25	1180.3	1040.1	137.17	3.8974	1.393
29.50	1181.2	1041.0	137.17	3.8729	1.395
29.75	1182.2	1042.0	137.16	3.8487	1.398
30.00	1183.1	1043.0	137.17	3.8250	1.400
30.25	1184.1	1043.9	137.17	3.8017	1.402
30.50	1185.0	1044.8	137.18	3.7787	1.404
30.75	1185.8	1045.7	137.18	3.7561	1.406
31.00	1186.7	1046.6	137.18	3.7339	1.408
31.25	1187.6	1047.4	137.19	3.7120	1.410
31.50	1188.4	1048.3	137.19	3.6905	1.412
31.75	1189.2	1049.1	137.20	3.6693	1.414
32.00	1190.0	1049.9	137.19	3.6484	1.416
32.25	1190.8	1050.7	137.19	3.6279	1.418
32.50	1191.6	1051.4	137.20	3.6077	1.420
32.75	1192.4	1052.2	137.19	3.5878	1.422

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
33.00	1193.1	1053.0	137.21	3.5682	1.424
33.25	1193.8	1053.7	137.20	3.5489	1.425
33.50	1194.6	1054.4	137.21	3.5299	1.427
33.75	1195.3	1055.2	137.21	3.5111	1.429
34.00	1196.0	1055.9	137.21	3.4926	1.430
34.25	1196.7	1056.6	137.22	3.4745	1.432
34.50	1197.5	1057.3	137.22	3.4565	1.434
34.75	1198.1	1058.0	137.22	3.4388	1.436
35.00	1198.8	1058.6	137.22	3.4214	1.437
35.25	1199.5	1059.3	137.23	3.4043	1.439
35.50	1200.1	1059.9	137.22	3.3873	1.440
35.75	1200.7	1060.6	137.23	3.3706	1.442
36.00	1201.4	1061.2	137.23	3.3542	1.443
36.25	1202.0	1061.9	137.24	3.3379	1.445
36.50	1202.6	1062.5	137.23	3.3219	1.446
36.75	1203.2	1063.1	137.24	3.3061	1.448
37.00	1203.8	1063.6	137.24	3.2905	1.449
37.25	1204.4	1064.2	137.24	3.2752	1.451
37.50	1205.0	1064.8	137.24	3.2600	1.452
37.75	1205.5	1065.4	137.24	3.2450	1.453
38.00	1206.1	1065.9	137.25	3.2303	1.455
38.25	1206.6	1066.5	137.25	3.2157	1.456
38.50	1207.2	1067.1	137.25	3.2013	1.457
38.75	1207.8	1067.6	137.24	3.1871	1.459
39.00	1208.3	1068.2	137.25	3.1731	1.460
39.25	1208.9	1068.7	137.25	3.1592	1.461
39.50	1209.4	1069.2	137.25	3.1456	1.463
39.75	1209.9	1069.8	137.25	3.1321	1.464
40.00	1210.5	1070.3	137.26	3.1187	1.465
40.25	1211.0	1070.8	137.26	3.1056	1.466
40.50	1211.5	1071.3	137.26	3.0926	1.468
40.75	1212.0	1071.8	137.26	3.0798	1.469
41.00	1212.4	1072.3	137.26	3.0671	1.470
41.25	1212.9	1072.8	137.31	3.0545	1.471
41.50	1213.3	1073.1	137.23	3.0422	1.472
41.75	1213.6	1073.5	137.17	3.0299	1.473
42.00	1214.2	1074.0	137.26	3.0179	1.474
42.25	1214.6	1074.5	137.27	3.0059	1.475
42.50	1215.1	1074.9	137.26	2.9941	1.476
42.75	1215.5	1075.4	137.26	2.9825	1.477
43.00	1215.9	1075.8	137.26	2.9709	1.479
43.25	1216.4	1076.2	137.27	2.9595	1.480
43.50	1216.8	1076.7	137.28	2.9483	1.481
43.75	1217.3	1077.1	137.26	2.9371	1.482
44.00	1217.7	1077.5	137.27	2.9261	1.483
44.25	1218.1	1077.9	137.26	2.9153	1.484
44.50	1218.4	1078.3	137.28	2.9045	1.485
44.75	1218.8	1078.6	137.27	2.8939	1.485
45.00	1219.2	1079.0	137.27	2.8833	1.486
45.25	1219.6	1079.4	137.27	2.8729	1.487
45.50	1219.9	1079.8	137.28	2.8626	1.488

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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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>
45.75	1220.3	1080.2	137.28	137.28	2.8525	1.489
46.00	1220.7	1080.5	137.27	137.27	2.8424	1.490
46.25	1221.1	1080.9	137.29	137.29	2.8324	1.491
46.50	1221.5	1081.3	137.28	137.28	2.8226	1.492
46.75	1221.8	1081.7	137.28	137.28	2.8128	1.493
47.00	1222.2	1082.0	137.28	137.28	2.8032	1.494
47.25	1222.5	1082.4	137.28	137.28	2.7937	1.495
47.50	1222.9	1082.7	137.27	137.27	2.7842	1.495
47.75	1223.2	1083.1	137.29	137.29	2.7749	1.496
48.00	1223.6	1083.4	137.28	137.28	2.7656	1.497
48.25	1223.9	1083.8	137.29	137.29	2.7565	1.498
48.50	1224.3	1084.1	137.29	137.29	2.7474	1.499
48.75	1224.6	1084.5	137.29	137.29	2.7385	1.500
49.00	1224.9	1084.8	137.29	137.29	2.7296	1.500
49.25	1225.3	1085.1	137.29	137.29	2.7208	1.501
49.50	1225.6	1085.4	137.29	137.29	2.7121	1.502
49.75	1225.9	1085.7	137.30	137.30	2.7035	1.503
50.00	1226.2	1086.1	137.30	137.30	2.6950	1.504
50.25	1226.5	1086.4	137.31	137.31	2.6866	1.504
50.50	1226.8	1086.6	137.30	137.30	2.6782	1.505
50.75	1227.1	1087.0	137.31	137.31	2.6700	1.506
51.00	1227.4	1087.3	137.31	137.31	2.6618	1.507
51.25	1227.7	1087.6	137.30	137.30	2.6537	1.507
51.50	1228.0	1087.9	137.32	137.32	2.6456	1.508
51.75	1228.3	1088.2	137.31	137.31	2.6377	1.509
52.00	1228.7	1088.5	137.33	137.33	2.6298	1.510
52.25	1229.0	1088.8	137.33	137.33	2.6220	1.510
52.50	1229.2	1089.1	137.33	137.33	2.6143	1.511
52.75	1229.5	1089.3	137.33	137.33	2.6066	1.512
53.00	1229.8	1089.6	137.33	137.33	2.5991	1.512
53.25	1230.1	1089.9	137.34	137.34	2.5915	1.513
53.50	1230.3	1090.2	137.33	137.33	2.5841	1.514
53.75	1230.6	1090.5	137.34	137.34	2.5767	1.514
54.00	1230.9	1090.7	137.34	137.34	2.5694	1.515
54.25	1231.1	1091.0	137.34	137.34	2.5622	1.516
54.50	1231.4	1091.2	137.35	137.35	2.5550	1.516
54.75	1231.7	1091.5	137.34	137.34	2.5479	1.517
55.00	1231.9	1091.8	137.35	137.35	2.5409	1.518
55.25	1232.2	1092.0	137.35	137.35	2.5339	1.518
55.50	1232.4	1092.3	137.35	137.35	2.5270	1.519
55.75	1232.7	1092.5	137.35	137.35	2.5202	1.520
56.00	1233.0	1092.8	137.37	137.37	2.5134	1.520
56.25	1233.2	1093.0	137.35	137.35	2.5067	1.521
56.50	1233.4	1093.3	137.37	137.37	2.5000	1.521
56.75	1233.7	1093.5	137.36	137.36	2.4934	1.522
57.00	1233.9	1093.8	137.37	137.37	2.4868	1.523
57.25	1234.2	1094.0	137.37	137.37	2.4803	1.523
57.50	1234.4	1094.2	137.37	137.37	2.4739	1.524
57.75	1234.6	1094.5	137.38	137.38	2.4675	1.524
58.00	1234.9	1094.7	137.38	137.38	2.4612	1.525
58.25	1235.1	1094.9	137.39	137.39	2.4549	1.525

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01  
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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
58.50	1235.3	1095.2	137.38	2.4487	1.526
58.75	1235.6	1095.4	137.39	2.4426	1.527
59.00	1235.8	1095.7	137.40	2.4364	1.527
59.25	1236.0	1095.9	137.40	2.4304	1.528
59.50	1236.3	1096.1	137.39	2.4244	1.528
59.75	1236.5	1096.4	137.39	2.4184	1.529
60.00	1236.7	1096.6	137.40	2.4125	1.529
60.25	1236.9	1096.8	137.41	2.4066	1.530
60.50	1237.1	1097.0	137.41	2.4008	1.531
60.75	1237.3	1097.2	137.40	2.3951	1.531
61.00	1237.6	1097.4	137.42	2.3893	1.532
61.25	1237.8	1097.6	137.42	2.3837	1.532
61.50	1238.0	1097.8	137.42	2.3780	1.533
61.75	1238.2	1098.0	137.43	2.3725	1.533
62.00	1238.4	1098.2	137.42	2.3669	1.534
62.25	1238.6	1098.5	137.43	2.3614	1.534
62.50	1238.8	1098.6	137.43	2.3560	1.535
62.75	1239.0	1098.9	137.44	2.3506	1.535
63.00	1239.2	1099.0	137.44	2.3452	1.536
63.25	1239.4	1099.3	137.44	2.3399	1.536
63.50	1239.6	1099.4	137.44	2.3346	1.537
63.75	1239.8	1099.6	137.45	2.3294	1.537
64.00	1240.0	1099.8	137.44	2.3242	1.537
64.25	1240.2	1100.0	137.45	2.3191	1.538
64.50	1240.3	1100.2	137.45	2.3140	1.538
64.75	1240.5	1100.4	137.45	2.3089	1.539
65.00	1240.7	1100.6	137.46	2.3038	1.539
65.25	1240.9	1100.7	137.46	2.2989	1.540
65.50	1241.1	1100.9	137.46	2.2939	1.540
65.75	1241.3	1101.1	137.46	2.2890	1.541
66.00	1241.5	1101.3	137.46	2.2841	1.541
66.25	1241.6	1101.5	137.47	2.2792	1.542
66.50	1241.8	1101.7	137.48	2.2744	1.542
66.75	1242.0	1101.8	137.48	2.2697	1.543
67.00	1242.2	1102.0	137.48	2.2649	1.543
67.25	1242.4	1102.2	137.47	2.2602	1.543
67.50	1242.5	1102.4	137.47	2.2556	1.544
67.75	1242.7	1102.6	137.48	2.2509	1.544
68.00	1242.9	1102.7	137.48	2.2463	1.545
68.25	1243.1	1102.9	137.48	2.2418	1.545
68.50	1243.2	1103.1	137.49	2.2372	1.546
68.75	1243.4	1103.2	137.49	2.2327	1.546
69.00	1243.6	1103.4	137.49	2.2283	1.546
69.25	1243.7	1103.6	137.50	2.2238	1.547
69.50	1243.9	1103.7	137.50	2.2194	1.547
69.75	1244.1	1103.9	137.51	2.2151	1.548
70.00	1244.2	1104.1	137.50	2.2107	1.548
70.25	1244.3	1104.2	137.50	2.2064	1.548
70.50	1244.5	1104.4	137.51	2.2021	1.549
70.75	1244.7	1104.5	137.51	2.1979	1.549
71.00	1244.8	1104.7	137.51	2.1937	1.550

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
71.25	1245.0	1104.8	137.52	2.1895	1.550
71.50	1245.2	1105.0	137.52	2.1853	1.550
71.75	1245.3	1105.1	137.52	2.1812	1.551
72.00	1245.4	1105.3	137.52	2.1771	1.551
72.25	1245.6	1105.4	137.53	2.1730	1.551
72.50	1245.7	1105.6	137.53	2.1690	1.552
72.75	1245.9	1105.7	137.53	2.1649	1.552
73.00	1246.0	1105.9	137.54	2.1610	1.553
73.25	1246.2	1106.0	137.54	2.1570	1.553
73.50	1246.3	1106.2	137.54	2.1531	1.553
73.75	1246.5	1106.3	137.55	2.1492	1.554
74.00	1246.6	1106.4	137.56	2.1453	1.554
74.25	1246.7	1106.6	137.55	2.1414	1.554
74.50	1246.9	1106.7	137.55	2.1376	1.555
74.75	1247.0	1106.8	137.55	2.1338	1.555
75.00	1247.1	1107.0	137.56	2.1300	1.555
75.25	1247.3	1107.1	137.56	2.1262	1.556
75.50	1247.4	1107.3	137.57	2.1225	1.556
75.75	1247.6	1107.4	137.57	2.1188	1.556
76.00	1247.7	1107.6	137.57	2.1151	1.557
76.25	1247.9	1107.7	137.57	2.1115	1.557
76.50	1248.0	1107.8	137.58	2.1078	1.558
76.75	1248.1	1107.9	137.58	2.1042	1.558
77.00	1248.2	1108.1	137.59	2.1006	1.558
77.25	1248.4	1108.2	137.58	2.0971	1.558
77.50	1248.5	1108.3	137.59	2.0935	1.559
77.75	1248.6	1108.4	137.59	2.0900	1.559
78.00	1248.7	1108.6	137.60	2.0865	1.559
78.25	1248.9	1108.7	137.60	2.0831	1.560
78.50	1249.0	1108.8	137.60	2.0796	1.560
78.75	1249.1	1109.0	137.61	2.0762	1.560
79.00	1249.2	1109.1	137.61	2.0728	1.561
79.25	1249.4	1109.2	137.61	2.0694	1.561
79.50	1249.5	1109.3	137.61	2.0660	1.561
79.75	1249.6	1109.5	137.61	2.0627	1.562
80.00	1249.7	1109.6	137.62	2.0594	1.562
80.25	1249.8	1109.7	137.62	2.0561	1.562
80.50	1249.9	1109.8	137.61	2.0528	1.562
80.75	1250.1	1109.9	137.63	2.0495	1.563
81.00	1250.2	1110.0	137.63	2.0463	1.563
81.25	1250.3	1110.1	137.63	2.0431	1.563
81.50	1250.4	1110.2	137.65	2.0399	1.564
81.75	1250.5	1110.4	137.64	2.0367	1.564
82.00	1250.6	1110.5	137.64	2.0335	1.564
82.25	1250.7	1110.6	137.64	2.0304	1.564
82.50	1250.9	1110.7	137.65	2.0273	1.565
82.75	1251.0	1110.8	137.65	2.0242	1.565
83.00	1251.1	1110.9	137.66	2.0211	1.565
83.25	1251.1	1111.0	137.65	2.0180	1.565
83.50	1251.3	1111.1	137.65	2.0150	1.566
83.75	1251.4	1111.2	137.65	2.0119	1.566

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
84.00	1251.5	1111.3	137.66	137.66	2.0089	1.566
84.25	1251.6	1111.4	137.66	137.66	2.0059	1.566
84.50	1251.7	1111.6	137.66	137.66	2.0030	1.567
84.75	1251.8	1111.7	137.67	137.67	2.0000	1.567
85.00	1251.9	1111.8	137.68	137.68	1.9971	1.567
85.25	1252.0	1111.9	137.67	137.67	1.9941	1.568
85.50	1252.1	1112.0	137.68	137.68	1.9912	1.568
85.75	1252.2	1112.1	137.68	137.68	1.9883	1.568
86.00	1252.3	1112.2	137.68	137.68	1.9855	1.568
86.25	1252.4	1112.3	137.69	137.69	1.9826	1.569
86.50	1252.5	1112.4	137.69	137.69	1.9798	1.569
86.75	1252.6	1112.5	137.70	137.70	1.9769	1.569
87.00	1252.7	1112.6	137.71	137.71	1.9741	1.569
87.25	1252.8	1112.7	137.71	137.71	1.9713	1.570
87.50	1252.9	1112.8	137.70	137.70	1.9686	1.570
87.75	1253.0	1112.9	137.71	137.71	1.9658	1.570
88.00	1253.1	1113.0	137.71	137.71	1.9631	1.570
88.25	1253.2	1113.1	137.71	137.71	1.9603	1.571
88.50	1253.3	1113.2	137.72	137.72	1.9576	1.571
88.75	1253.4	1113.3	137.73	137.73	1.9549	1.571
89.00	1253.5	1113.4	137.73	137.73	1.9522	1.571
89.25	1253.6	1113.5	137.72	137.72	1.9496	1.572
89.50	1253.7	1113.5	137.72	137.72	1.9469	1.572
89.75	1253.8	1113.6	137.73	137.73	1.9443	1.572
90.00	1253.9	1113.8	137.74	137.74	1.9417	1.572
90.25	1254.0	1113.8	137.74	137.74	1.9391	1.572
90.50	1254.1	1113.9	137.74	137.74	1.9365	1.573
90.75	1254.2	1114.0	137.74	137.74	1.9339	1.573
91.00	1254.2	1114.1	137.74	137.74	1.9313	1.573
91.25	1254.3	1114.2	137.75	137.75	1.9288	1.573
91.50	1254.4	1114.3	137.75	137.75	1.9262	1.574
91.75	1254.5	1114.4	137.75	137.75	1.9237	1.574
92.00	1254.6	1114.5	137.75	137.75	1.9212	1.574
92.25	1254.7	1114.6	137.76	137.76	1.9187	1.574
92.50	1254.8	1114.7	137.77	137.77	1.9162	1.575
92.75	1254.9	1114.7	137.76	137.76	1.9137	1.575
93.00	1255.0	1114.8	137.76	137.76	1.9113	1.575
93.25	1255.0	1114.9	137.78	137.78	1.9088	1.575
93.50	1255.1	1115.0	137.78	137.78	1.9064	1.575
93.75	1255.2	1115.1	137.78	137.78	1.9040	1.576
94.00	1255.3	1115.1	137.78	137.78	1.9016	1.576
94.25	1255.4	1115.2	137.79	137.79	1.8992	1.576
94.50	1255.5	1115.3	137.78	137.78	1.8968	1.576
94.75	1255.6	1115.4	137.79	137.79	1.8945	1.576
95.00	1255.6	1115.5	137.79	137.79	1.8921	1.577
95.25	1255.7	1115.6	137.79	137.79	1.8898	1.577
95.50	1255.8	1115.6	137.79	137.79	1.8874	1.577
95.75	1255.9	1115.7	137.80	137.80	1.8851	1.577
96.00	1256.0	1115.8	137.79	137.79	1.8828	1.577
96.25	1256.0	1115.9	137.80	137.80	1.8805	1.578
96.50	1256.1	1115.9	137.80	137.80	1.8782	1.578

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
96.75	1256.2	1116.0	137.81	1.8760	1.578
97.00	1256.3	1116.1	137.81	1.8737	1.578
97.25	1256.3	1116.2	137.81	1.8715	1.578
97.50	1256.4	1116.3	137.81	1.8692	1.579
97.75	1256.5	1116.3	137.81	1.8670	1.579
98.00	1256.5	1116.4	137.81	1.8648	1.579
98.25	1256.6	1116.4	137.81	1.8626	1.579
98.50	1256.7	1116.5	137.82	1.8604	1.579
98.75	1256.8	1116.6	137.81	1.8582	1.579
99.00	1256.8	1116.7	137.82	1.8561	1.580
99.25	1256.9	1116.7	137.83	1.8539	1.580
99.50	1257.0	1116.8	137.83	1.8518	1.580
99.75	1257.1	1116.9	137.84	1.8496	1.580
100.00	1257.1	1117.0	137.84	1.8475	1.580
100.25	1257.2	1117.0	137.85	1.8454	1.581
100.50	1257.3	1117.1	137.84	1.8433	1.581
100.75	1257.4	1117.2	137.85	1.8412	1.581
101.00	1257.4	1117.3	137.85	1.8391	1.581
101.25	1257.5	1117.3	137.85	1.8370	1.581
101.50	1257.6	1117.4	137.85	1.8350	1.581
101.75	1257.6	1117.5	137.85	1.8329	1.582
102.00	1257.7	1117.5	137.86	1.8309	1.582
102.25	1257.8	1117.6	137.86	1.8289	1.582
102.50	1257.8	1117.7	137.87	1.8268	1.582
102.75	1257.9	1117.7	137.87	1.8248	1.582
103.00	1257.9	1117.8	137.87	1.8228	1.582
103.25	1258.0	1117.9	137.87	1.8208	1.583
103.50	1258.1	1117.9	137.88	1.8188	1.583
103.75	1258.2	1118.0	137.88	1.8169	1.583
104.00	1258.2	1118.1	137.88	1.8149	1.583
104.25	1258.3	1118.1	137.88	1.8129	1.583
104.50	1258.3	1118.2	137.90	1.8110	1.583
104.75	1258.4	1118.2	137.89	1.8091	1.584
105.00	1258.5	1118.3	137.90	1.8071	1.584
105.25	1258.5	1118.4	137.90	1.8052	1.584
105.50	1258.6	1118.4	137.89	1.8033	1.584
105.75	1258.7	1118.5	137.90	1.8014	1.584
106.00	1258.7	1118.6	137.90	1.7995	1.584
106.25	1258.8	1118.6	137.92	1.7976	1.585
106.50	1258.9	1118.7	137.92	1.7958	1.585
106.75	1258.9	1118.8	137.92	1.7939	1.585
107.00	1259.0	1118.8	137.92	1.7921	1.585
107.25	1259.0	1118.9	137.92	1.7902	1.585
107.50	1259.1	1118.9	137.92	1.7884	1.585
107.75	1259.1	1119.0	137.93	1.7865	1.585
108.00	1259.2	1119.0	137.92	1.7847	1.586
108.25	1259.2	1119.1	137.92	1.7829	1.586
108.50	1259.3	1119.1	137.93	1.7811	1.586
108.75	1259.4	1119.2	137.94	1.7793	1.586
109.00	1259.4	1119.2	137.93	1.7775	1.586
109.25	1259.5	1119.3	137.94	1.7757	1.586

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9145 DST#4 MLP Younggren #A-2 OXY USA INC.

DATE: 07/02/97

TIME: 04:51:01  
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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
109.50	1259.5	1119.4	137.95	1.7740	1.586	
109.75	1259.6	1119.4	137.95	1.7722	1.587	
110.00	1259.6	1119.5	137.95	1.7705	1.587	
110.25	1259.7	1119.5	137.95	1.7687	1.587	
110.50	1259.8	1119.6	137.96	1.7670	1.587	
110.75	1259.8	1119.6	137.97	1.7652	1.587	
111.00	1259.9	1119.7	137.96	1.7635	1.587	
111.25	1259.9	1119.8	137.97	1.7618	1.587	
111.50	1260.0	1119.8	137.98	1.7601	1.588	
111.75	1260.0	1119.9	137.98	1.7584	1.588	
112.00	1260.1	1119.9	137.97	1.7567	1.588	
112.25	1260.1	1119.9	137.98	1.7550	1.588	
112.50	1260.2	1120.0	137.98	1.7533	1.588	
112.75	1260.2	1120.1	137.99	1.7517	1.588	
113.00	1260.3	1120.1	137.98	1.7500	1.588	
113.25	1260.3	1120.1	137.99	1.7483	1.588	
113.50	1260.4	1120.2	137.99	1.7467	1.589	
113.75	1260.4	1120.3	138.00	1.7451	1.589	
114.00	1260.5	1120.3	138.00	1.7434	1.589	
114.25	1260.5	1120.3	138.00	1.7418	1.589	
114.50	1260.6	1120.4	138.00	1.7402	1.589	
114.75	1260.6	1120.5	138.00	1.7386	1.589	
115.00	1260.7	1120.5	138.00	1.7370	1.589	
115.25	1260.7	1120.6	138.01	1.7354	1.589	
115.50	1260.7	1120.6	138.01	1.7338	1.589	
115.75	1260.8	1120.6	138.01	1.7322	1.590	
116.00	1260.8	1120.7	138.01	1.7306	1.590	
116.25	1260.9	1120.7	138.01	1.7290	1.590	
116.50	1260.9	1120.7	138.01	1.7275	1.590	
116.75	1261.0	1120.8	138.02	1.7259	1.590	
117.00	1261.0	1120.8	138.01	1.7244	1.590	
117.25	1261.0	1120.9	138.02	1.7228	1.590	
117.50	1261.1	1120.9	138.03	1.7213	1.590	
117.75	1261.1	1121.0	138.03	1.7197	1.590	
118.00	1261.2	1121.0	138.03	1.7182	1.591	
118.25	1261.2	1121.0	138.03	1.7167	1.591	
118.50	1261.3	1121.1	138.04	1.7152	1.591	
118.75	1261.3	1121.1	138.03	1.7137	1.591	
119.00	1261.3	1121.2	138.03	1.7122	1.591	
119.25	1261.4	1121.2	138.04	1.7107	1.591	
119.50	1261.4	1121.3	138.04	1.7092	1.591	
119.75	1261.5	1121.3	138.04	1.7077	1.591	
120.00	1261.5	1121.4	138.05	1.7063	1.591	
120.25	1261.6	1121.4	138.05	1.7048	1.592	
***** End Shut-in 2	120.50	1261.1	1121.0	138.05	1.7033	1.590
***** Final Hydro.	411.50	2757.4	0.0	138.30		

# TEST HISTORY

9145 DST#4 MLP Younggren #A-2 OXY USA INC.

## Flag Points

t (Min.) PK PSIG

- A: 0.00 2807.70
- B: 0.00 84.04
- C: 30.75 109.73
- D: 59.75 1135.33
- E: 0.00 119.65
- F: 54.00 140.15
- G: 120.50 1261.12
- Q: 0.00 2757.39

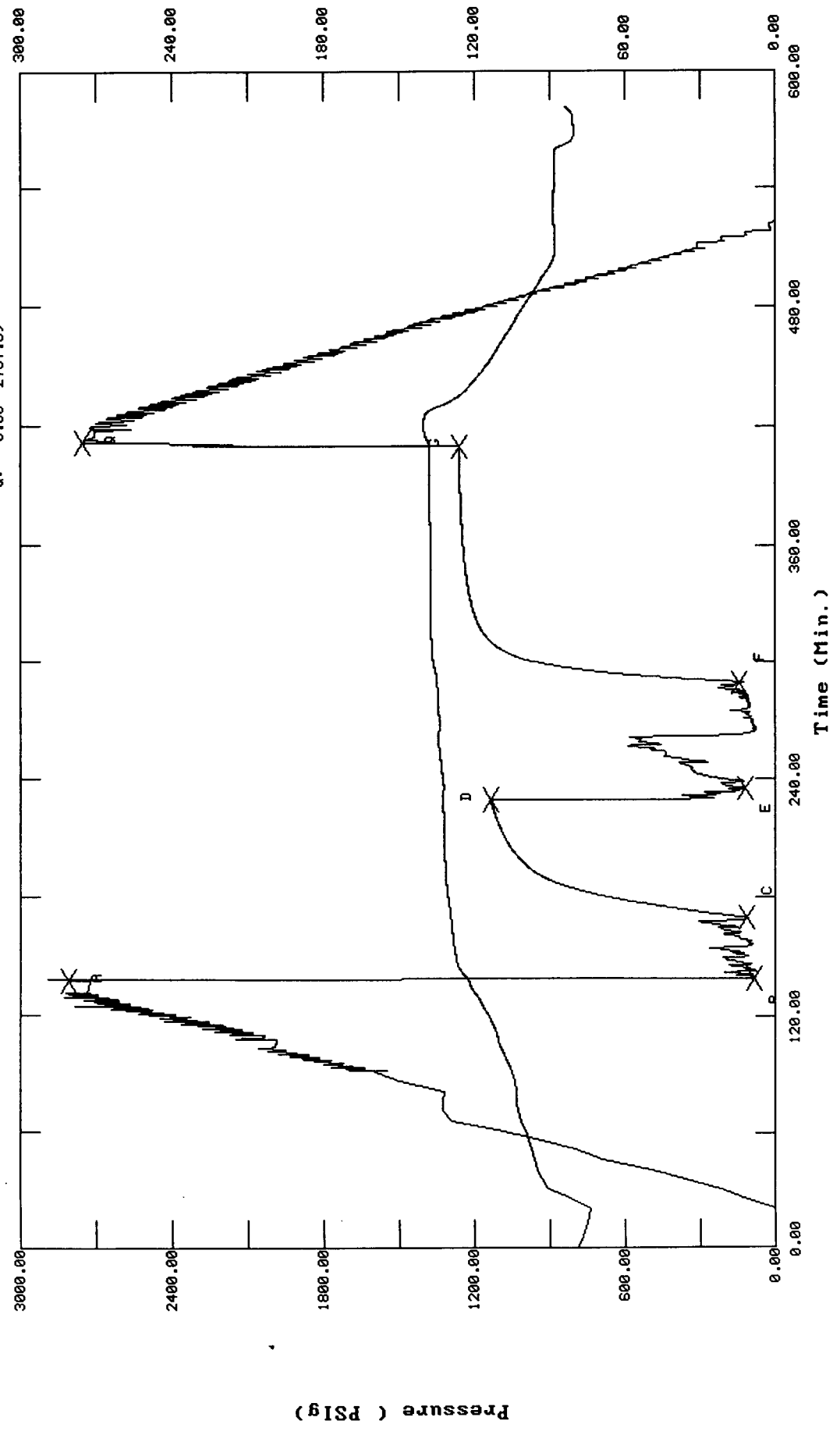
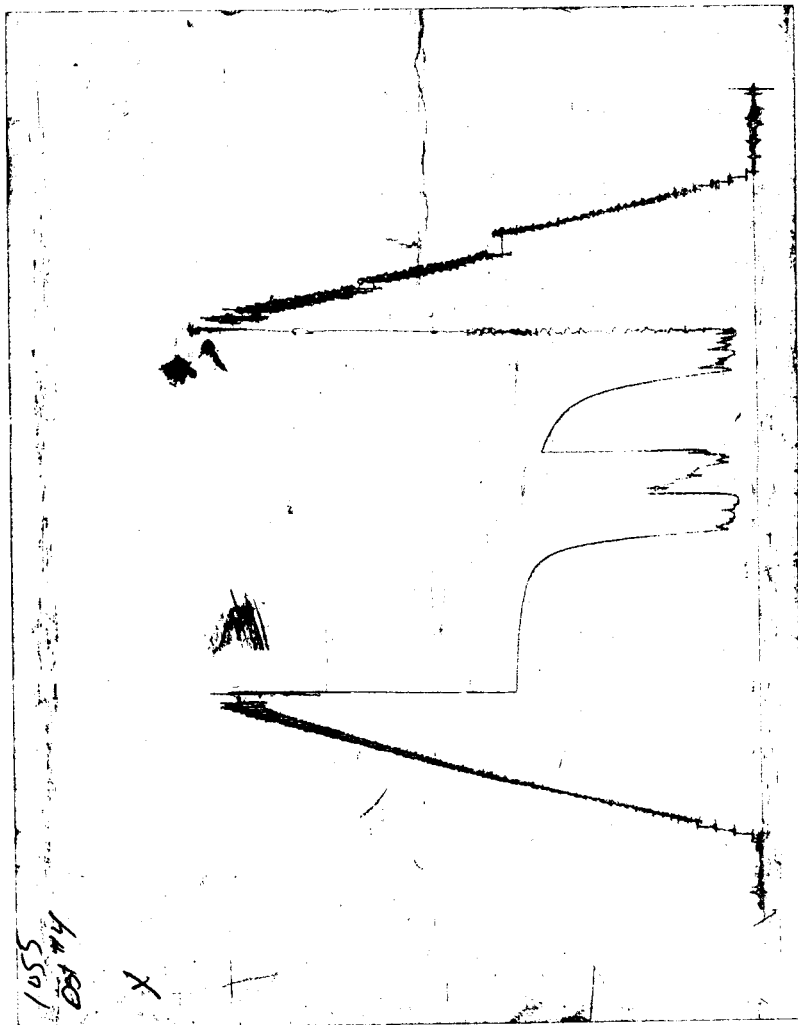


CHART PAGE



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



# TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

## FLUID SAMPLER DATA

Ticket No. 9145 Date 7-2-97  
Company Name Oxy USA Inc  
Lease MLP Younggren Test No. DST #4  
County Monter Sec. 3 Twp. 32S Rng. 39W

### SAMPLER RECOVERY

Gas 11.2 cubic Ft Gas ML  
Oil 50 ML  
Mud 250 ML  
Water 50 ML  
Other \_\_\_\_\_ ML  
Pressure 1100 PSI  
Total 4000 ML

### PIT MUD ANALYSIS

Chlorides 1600 ppm.  
Resistivity \_\_\_\_\_ ohms @ \_\_\_\_\_ F  
Viscosity 69  
Mud Weight 9.0  
Filtrate 6.4  
Other KCM 4<sup>th</sup>

### SAMPLER ANALYSIS

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

### PIPE RECOVERY

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

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

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