

WELL NAME:

MLP Santala #2-28~~6~~ K6S DRL

COMPANY:

Hugoton Energy Corp.

LOCATION:

28-29S-34W

Haskell County, Kansas

DATE:

1/27/98

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.
 WELL NAME: MLP Santala #2-28
 LOCATION : 28-29s-34w CO Haskell KS
 INTERVAL : 4617.00 To 4640.00 ft

DATE 01-19-199
 KB 2889.00 ft TICKET NO: 10880 DST #1
 GR 2878.00 ft FORMATION: K.C."B"
 TD 4640.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10270	10270	3027			PF Fr. 1305 to 1335 hr
SI 60 Range(Psi)	4150.0	4150.0	4995.0	0.0	0.0	IS Fr. 1335 to 1435 hr
SF 45 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 1435 to 1520 hr
FS 90 Depth(ft)	4637.0	4637.0	4620.0	0.0	0.0	FS Fr. 1520 to 1650 hr

	Field	1	2	3	4	
A. Init Hydro	2275.0	2295.0	2284.0	0.0	0.0	T STARTED 1045 hr
B. First Flow	156.0	157.0	100.0	0.0	0.0	T ON BOTM 1300 hr
B1. Final Flow	156.0	163.0	127.0	0.0	0.0	T OPEN 1305 hr
C. In Shut-in	1309.0	1299.0	1275.0	0.0	0.0	T PULLED 1650 hr
D. Init Flow	197.0	209.0	146.0	0.0	0.0	T OUT 1915 hr
E. Final Flow	239.0	252.0	232.0	0.0	0.0	
F. Fl Shut-in	1277.0	1270.0	1252.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2264.0	2267.0	2247.0	0.0	0.0	Tool Wt. 2900.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 51000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 3.40 in
						Hole Size 7.80 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 180.00 ft
						D.P. Length 4437.00 ft

RECOVERY

Tot Fluid 690.00 ft of 180.00 ft in DC and 510.00 ft in DP
 510.00 ft of Clean Oil
 170.00 ft of Muddy Gassy Oil 15%gas 55%oil 30%mud
 10.00 ft of Water
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 61000.00 P.P.M. A.P.I. Gravity 32.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow gas surfaced in 7 min.
 Final Flow:
 Strong blow gas to surface

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type chemical
 Weight 9.00 lb/cf
 Vis. 45.00 S/L
 W.L. 8.80 in3
 F.C. 0.00 in
 Mud Drop
 Amt. of fill 0.00 ft
 Btm. H. Temp. 109.00 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 Ray Schwager
 Co. Rep. Doug Davis
 Contr. Murfin Drlg.
 Rig # 20
 Unit #
 Pump T.

Test Successful: Y

GAS RECOVERY

COMPANY: Hugoton Energy Corp.

DATE: 01-19-199

WELL NAME: MLP Santala #2-28

KB Elev: 2889.00 ft TICKET #10880 DST #1

WELL LOCATION: 28-29s-34w CO Haskell KS

GR Elev: 2878.00 ft FORMATION: K.C."B"

INTERVAL Fr.: 4617.00 To 4640.00 T.D.: 4640.00 ft TEST TYPE: CONV.

GAS RECOVERY MEASURED WITH

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	1.00	0	22	121000.0
20	1.00	0	17	106000.0
30	1.00	0	18	110000.0

***** GAS RATES FOR FLOW #2

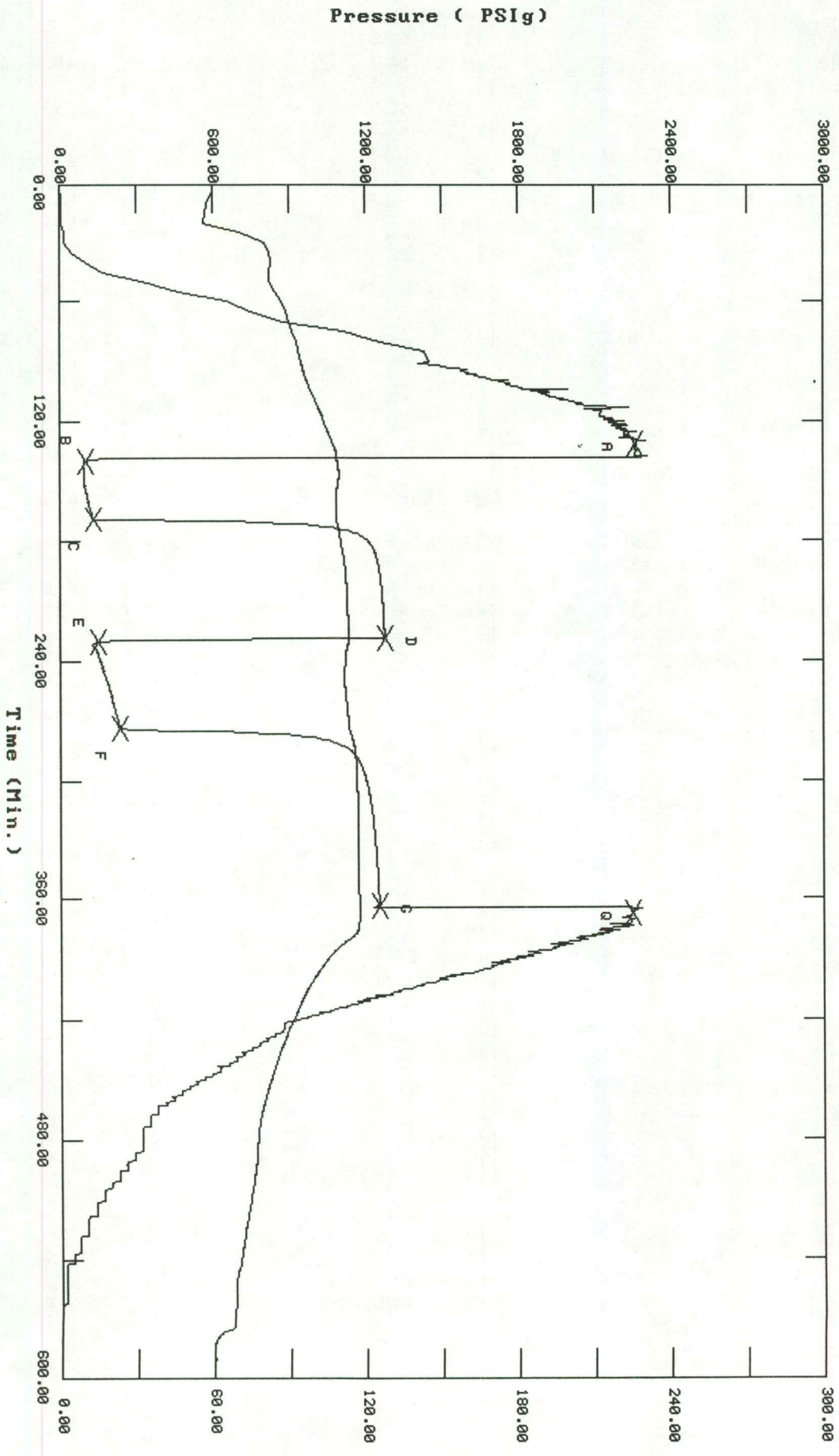
Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.00	0	26	132000.0
15	1.00	0	12	89800.0
25	1.00	0	10	81600.0
35	1.00	0	8	73100.0
45	1.00	0	7	68300.0

TKt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.

TEST HISTORY

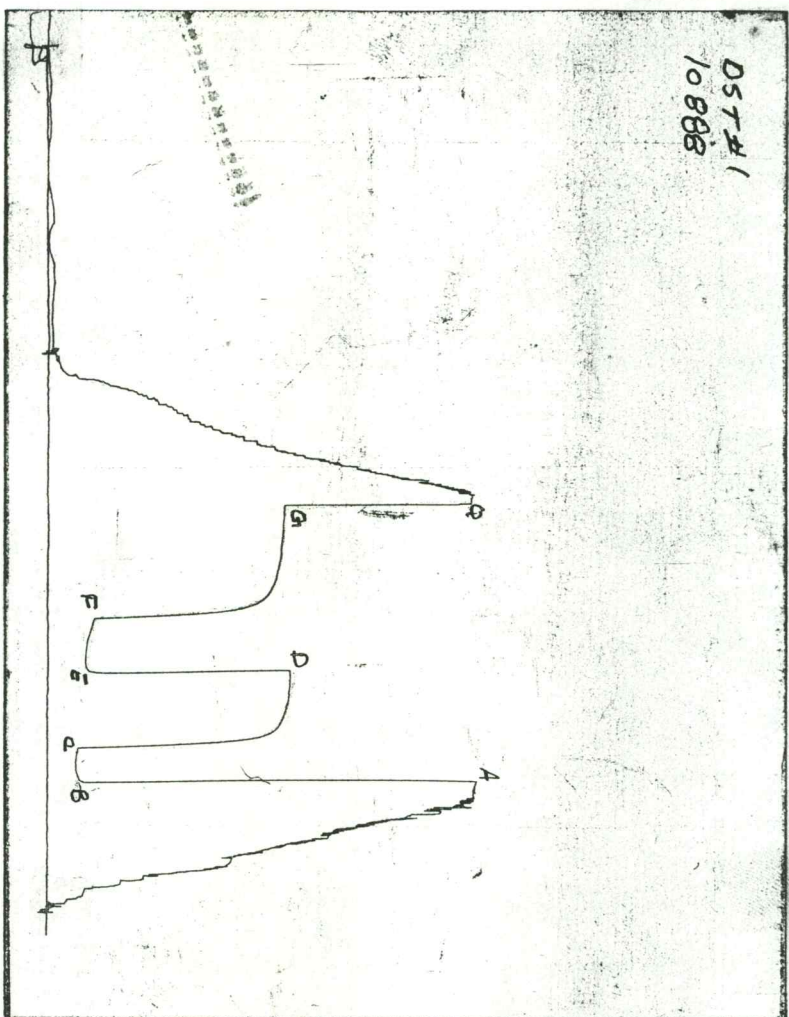
Flag Points

Flag Points	t (Min.)	P (PSig)
A:	0.00	2264.98
B:	0.00	100.06
C:	29.50	127.72
D:	60.00	1275.34
E:	0.00	146.66
F:	43.50	232.28
G:	89.50	1252.59
Q:	0.00	2247.90



Temperature (DEG F)

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.
 DATE: 01/19/98 TIME: 10:44:39

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	131.50	2265.0	0.0	107.38		
***** Start Flow 1	0.00	100.1	0.0	108.78		
	0.50	94.5	-5.6	108.87		
	1.00	95.6	-4.5	108.92		
	1.50	92.3	-7.7	109.00		
	2.00	92.5	-7.5	109.08		
	2.50	89.5	-10.6	109.18		
	3.00	90.2	-9.9	109.21		
	3.50	91.9	-8.2	109.30		
	4.00	92.2	-7.9	109.36		
	4.50	92.5	-7.5	109.38		
	5.00	92.6	-7.4	109.42		
	5.50	91.9	-8.2	109.47		
	6.00	92.4	-7.6	109.50		
	6.50	91.4	-8.7	109.52		
	7.00	90.9	-9.1	109.54		
	7.50	91.6	-8.5	109.55		
	8.00	91.4	-8.6	109.54		
	8.50	92.0	-8.0	109.51		
	9.00	92.5	-7.5	109.47		
	9.50	93.6	-6.5	109.40		
	10.00	93.7	-6.3	109.32		
	10.50	94.2	-5.9	109.23		
	11.00	95.2	-4.9	109.14		
	11.50	95.5	-4.5	109.05		
	12.00	96.0	-4.0	108.98		
	12.50	96.8	-3.3	108.92		
	13.00	96.6	-3.4	108.92		
	13.50	99.2	-0.8	108.84		
	14.00	98.9	-1.2	108.79		
	14.50	100	-0.1	108.73		
	15.00	100.5	0.4	108.68		
	15.50	100.5	0.4	108.62		
	16.00	102.0	2.0	108.59		
	16.50	103.0	3.0	108.54		
	17.00	105.4	5.3	108.53		
	17.50	104.6	4.5	108.50		
	18.00	106.0	5.9	108.49		
	18.50	105.6	5.5	108.49		
	19.00	108.0	7.9	108.46		
	19.50	107.7	7.6	108.50		
	20.00	109.9	9.8	108.50		
	20.50	108.6	8.5	108.50		
	21.00	110.9	10.9	108.52		
	21.50	110.4	10.4	108.54		
	22.00	113.2	13.1	108.55		
	22.50	112.7	12.6	108.57		
	23.00	114.6	14.6	108.57		
	23.50	115.0	14.9	108.58		
	24.00	115.7	15.6	108.59		
	24.50	119.0	19.0	108.56		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.
 DATE: 01/19/98 TIME: 10:44:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.00	116.1	16.0	108.55		
	25.50	118.5	18.5	108.56		
	26.00	121.9	21.8	108.53		
	26.50	118.9	18.8	108.53		
	27.00	121.3	21.3	108.55		
	27.50	124.2	24.2	108.55		
	28.00	123.2	23.2	108.55		
	28.50	124.4	24.4	108.56		
	29.00	125.0	24.9	108.57		
*****	End Flow 1	29.50	127.7	27.7	108.58	
*****	Start Shutin 1	0.00	127.7	0.0	108.58	0.0000
	0.50	312.7	185.0	108.61	60.0000	0.098
	1.00	508.5	380.7	108.64	30.5000	0.259
	1.50	666.8	539.1	108.68	20.6667	0.445
	2.00	788.3	660.6	108.73	15.7500	0.621
	2.50	879.7	752.0	108.83	12.8000	0.774
	3.00	947.3	819.6	108.92	10.8333	0.897
	3.50	998.4	870.7	108.98	9.4286	0.997
	4.00	1037.6	909.9	109.08	8.3750	1.077
	4.50	1068.4	940.7	109.19	7.5556	1.141
	5.00	1093.6	965.8	109.28	6.9000	1.196
	5.50	1113.7	986.0	109.36	6.3636	1.240
	6.00	1130.1	1002.4	109.45	5.9167	1.277
	6.50	1144.2	1016.4	109.54	5.5385	1.309
	7.00	1156.2	1028.5	109.62	5.2143	1.337
	7.50	1166.6	1038.8	109.71	4.9333	1.361
	8.00	1175.3	1047.6	109.77	4.6875	1.381
	8.50	1182.9	1055.2	109.86	4.4706	1.399
	9.00	1189.5	1061.8	109.93	4.2778	1.415
	9.50	1195.3	1067.6	110.00	4.1053	1.429
	10.00	1200.5	1072.8	110.08	3.9500	1.441
	10.50	1205.2	1077.4	110.13	3.8095	1.452
	11.00	1209.3	1081.6	110.22	3.6818	1.462
	11.50	1213.0	1085.3	110.27	3.5652	1.471
	12.00	1216.3	1088.6	110.35	3.4583	1.479
	12.50	1219.3	1091.6	110.41	3.3600	1.487
	13.00	1222.0	1094.3	110.48	3.2692	1.493
	13.50	1224.5	1096.8	110.54	3.1852	1.499
	14.00	1226.8	1099.1	110.57	3.1071	1.505
	14.50	1228.9	1101.1	110.68	3.0345	1.510
	15.00	1230.9	1103.1	110.76	2.9667	1.515
	15.50	1232.7	1105.0	110.83	2.9032	1.520
	16.00	1234.4	1106.7	110.91	2.8438	1.524
	16.50	1235.9	1108.2	110.98	2.7879	1.528
	17.00	1237.4	1109.7	111.05	2.7353	1.531
	17.50	1238.8	1111.1	111.15	2.6857	1.535
	18.00	1240.1	1112.4	111.19	2.6389	1.538
	18.50	1241.4	1113.7	111.27	2.5946	1.541
	19.00	1242.6	1114.9	111.37	2.5526	1.544
	19.50	1243.7	1116.0	111.40	2.5128	1.547
	20.00	1244.8	1117.1	111.40	2.4750	1.550

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/19/98

TIME: 10:44:39

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
20.50	1245.8	1118.1	111.46	2.4390	1.552
21.00	1246.8	1119.1	111.50	2.4048	1.554
21.50	1247.7	1120.0	111.56	2.3721	1.557
22.00	1248.6	1120.9	111.61	2.3409	1.559
22.50	1249.5	1121.8	111.67	2.3111	1.561
23.00	1250.3	1122.6	111.72	2.2826	1.563
23.50	1251.1	1123.4	111.77	2.2553	1.565
24.00	1251.8	1124.1	111.82	2.2292	1.567
24.50	1252.6	1124.9	111.87	2.2041	1.569
25.00	1253.3	1125.6	111.91	2.1800	1.571
25.50	1253.9	1126.2	111.95	2.1569	1.572
26.00	1254.6	1126.9	111.98	2.1346	1.574
26.50	1255.2	1127.5	112.01	2.1132	1.576
27.00	1255.9	1128.1	112.06	2.0926	1.577
27.50	1256.5	1128.8	112.09	2.0727	1.579
28.00	1257.1	1129.3	112.13	2.0536	1.580
28.50	1257.6	1129.9	112.15	2.0351	1.582
29.00	1258.1	1130.4	112.19	2.0172	1.583
29.50	1258.7	1130.9	112.23	2.0000	1.584
30.00	1259.2	1131.5	112.28	1.9833	1.586
30.50	1259.7	1132.0	112.30	1.9672	1.587
31.00	1260.2	1132.4	112.32	1.9516	1.588
31.50	1260.6	1132.9	112.30	1.9365	1.589
32.00	1261.1	1133.4	112.38	1.9219	1.590
32.50	1261.5	1133.8	112.41	1.9077	1.591
33.00	1262.0	1134.2	112.43	1.8939	1.593
33.50	1262.4	1134.7	112.47	1.8806	1.594
34.00	1262.8	1135.1	112.50	1.8676	1.595
34.50	1263.2	1135.5	112.51	1.8551	1.596
35.00	1263.6	1135.8	112.54	1.8429	1.597
35.50	1263.9	1136.2	112.56	1.8310	1.598
36.00	1264.3	1136.6	112.58	1.8194	1.598
36.50	1264.7	1136.9	112.62	1.8082	1.599
37.00	1265.0	1137.3	112.63	1.7973	1.600
37.50	1265.4	1137.6	112.64	1.7867	1.601
38.00	1265.7	1138.0	112.66	1.7763	1.602
38.50	1266.0	1138.3	112.70	1.7662	1.603
39.00	1266.3	1138.6	112.71	1.7564	1.604
39.50	1266.6	1138.9	112.74	1.7468	1.604
40.00	1267.0	1139.2	112.74	1.7375	1.605
40.50	1267.3	1139.5	112.78	1.7284	1.606
41.00	1267.6	1139.9	112.78	1.7195	1.607
41.50	1267.9	1140.2	112.80	1.7108	1.608
42.00	1268.2	1140.5	112.81	1.7024	1.608
42.50	1268.4	1140.7	112.84	1.6941	1.609
43.00	1268.7	1141.0	112.84	1.6860	1.610
43.50	1269.0	1141.3	112.87	1.6782	1.610
44.00	1269.3	1141.6	112.87	1.6705	1.611
44.50	1269.5	1141.8	112.90	1.6629	1.612
45.00	1269.8	1142.1	112.90	1.6556	1.612
45.50	1270.1	1142.3	112.92	1.6484	1.613

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.
 DATE: 01/19/98 TIME: 10:44:39

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	46.00	1270.3	1142.6	112.93	1.6413	1.614
	46.50	1270.5	1142.8	112.97	1.6344	1.614
	47.00	1270.8	1143.1	112.96	1.6277	1.615
	47.50	1271.0	1143.3	113.00	1.6211	1.615
	48.00	1271.3	1143.5	113.00	1.6146	1.616
	48.50	1271.5	1143.8	113.02	1.6082	1.617
	49.00	1271.7	1144.0	113.05	1.6020	1.617
	49.50	1271.9	1144.2	113.05	1.5960	1.618
	50.00	1272.2	1144.4	113.06	1.5900	1.618
	50.50	1272.4	1144.7	113.05	1.5842	1.619
	51.00	1272.6	1144.9	113.06	1.5784	1.619
	51.50	1272.8	1145.1	113.09	1.5728	1.620
	52.00	1273.0	1145.3	113.10	1.5673	1.621
	52.50	1273.3	1145.5	113.09	1.5619	1.621
	53.00	1273.4	1145.7	113.12	1.5566	1.622
	53.50	1273.6	1145.9	113.13	1.5514	1.622
	54.00	1273.9	1146.1	113.16	1.5463	1.623
	54.50	1274.1	1146.3	113.15	1.5413	1.623
	55.00	1274.2	1146.5	113.17	1.5364	1.624
	55.50	1274.4	1146.7	113.18	1.5315	1.624
	56.00	1274.6	1146.9	113.21	1.5268	1.625
	56.50	1274.8	1147.1	113.21	1.5221	1.625
	57.00	1275.0	1147.3	113.23	1.5175	1.626
	57.50	1275.2	1147.5	113.24	1.5130	1.626
	58.00	1275.3	1147.6	113.25	1.5086	1.626
	58.50	1275.5	1147.8	113.27	1.5043	1.627
	59.00	1275.7	1148.0	113.28	1.5000	1.627
	59.50	1275.9	1148.2	113.29	1.4958	1.628
***** End Shut-in 1	60.00	1275.3	1147.6	113.30	1.4917	1.626
***** Start Flow 2	0.00	146.7	0.0	113.23		
	0.50	130.0	-16.7	113.12		
	1.00	126.2	-20.4	113.02		
	1.50	126.7	-19.9	112.87		
	2.00	132.2	-14.4	112.74		
	2.50	132.5	-14.1	112.66		
	3.00	134.8	-11.8	112.57		
	3.50	138.8	-7.9	112.50		
	4.00	140.0	-6.7	112.43		
	4.50	140.7	-5.9	112.37		
	5.00	145.3	-1.4	112.32		
	5.50	142.7	-3.9	112.26		
	6.00	146.1	-0.6	112.21		
	6.50	148.5	1.9	112.17		
	7.00	150.3	3.6	112.13		
	7.50	148.7	2.1	112.11		
	8.00	153.1	6.4	112.08		
	8.50	152.3	5.6	112.04		
	9.00	154.0	7.4	112.01		
	9.50	158.4	11.8	111.98		
	10.00	154.8	8.2	111.96		
	10.50	158.8	12.2	111.92		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.
 DATE: 01/19/98 TIME: 10:44:39

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
11.00	161.5	14.8	111.87		
11.50	159.5	12.9	111.85		
12.00	164.7	18.0	111.83		
12.50	162.0	15.4	111.78		
13.00	166.3	19.6	111.76		
13.50	165.1	18.4	111.75		
14.00	168.0	21.3	111.72		
14.50	170.6	23.9	111.68		
15.00	168.7	22.0	111.67		
15.50	171.7	25.0	111.65		
16.00	172.0	25.4	111.63		
16.50	173.0	26.3	111.61		
17.00	177.8	31.1	111.61		
17.50	174.9	28.2	111.61		
18.00	177.8	31.1	111.59		
18.50	179.3	32.6	111.60		
19.00	178.5	31.9	111.60		
19.50	183.5	36.9	111.61		
20.00	181.1	34.4	111.62		
20.50	183.4	36.7	111.65		
21.00	187.4	40.7	111.68		
21.50	184.2	37.5	111.72		
22.00	188.4	41.7	111.75		
22.50	187.5	40.8	111.80		
23.00	190.2	43.6	111.82		
23.50	190.6	43.9	111.86		
24.00	191.2	44.6	111.92		
24.50	193.9	47.3	111.94		
25.00	193.3	46.7	112.00		
25.50	197.5	50.8	112.06		
26.00	194.8	48.2	112.09		
26.50	199.1	52.5	112.13		
27.00	196.9	50.2	112.17		
27.50	201.5	54.9	112.21		
28.00	199.0	52.4	112.26		
28.50	203.2	56.5	112.30		
29.00	202.1	55.4	112.35		
29.50	204.7	58.1	112.37		
30.00	204.0	57.3	112.42		
30.50	207.0	60.4	112.47		
31.00	206.1	59.4	112.50		
31.50	209.5	62.9	112.54		
32.00	209.1	62.4	112.58		
32.50	210.4	63.7	112.63		
33.00	212.0	65.4	112.65		
33.50	212.7	66.0	112.71		
34.00	214.0	67.3	112.73		
34.50	214.6	68.0	112.78		
35.00	215.7	69.0	112.82		
35.50	216.5	69.9	112.87		
36.00	217.4	70.8	112.90		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.
 DATE: 01/19/98 TIME: 10:44:39

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	36.50	219.2	72.5	112.95		
	37.00	219.1	72.4	112.99		
	37.50	221.8	75.2	113.05		
	38.00	220.7	74.1	113.06		
	38.50	224.3	77.6	113.12		
	39.00	223.1	76.5	113.17		
	39.50	227.1	80.4	113.20		
	40.00	225.4	78.7	113.27		
	40.50	228.8	82.2	113.30		
	41.00	227.6	80.9	113.34		
	41.50	229.6	82.9	113.38		
	42.00	230.9	84.2	113.43		
	42.50	230.0	83.4	113.47		
	43.00	232.7	86.1	113.52		
***** End Flow 2	43.50	232.3	85.6	113.54		
***** Start Shutin 2	0.00	232.3	0.0	113.54	0.0000	0.054
	0.50	294.5	62.2	113.59	147.0000	0.087
	1.00	473.5	241.2	113.63	74.0000	0.224
	1.50	624.5	392.2	113.71	49.6667	0.390
	2.00	739.6	507.3	113.82	37.5000	0.547
	2.50	821.6	589.4	113.88	30.2000	0.675
	3.00	882.6	650.3	114.04	25.3333	0.779
	3.50	928.5	696.3	114.22	21.8571	0.862
	4.00	963.9	731.6	114.36	19.2500	0.929
	4.50	992.3	760.0	114.52	17.2222	0.985
	5.00	1015.3	783.0	114.65	15.6000	1.031
	5.50	1034.2	801.9	114.78	14.2727	1.070
	6.00	1050.2	817.9	114.90	13.1667	1.103
	6.50	1064.1	831.8	115.01	12.2308	1.132
	7.00	1076.4	844.2	115.12	11.4286	1.159
	7.50	1087.3	855.0	115.19	10.7333	1.182
	8.00	1097.2	864.9	115.29	10.1250	1.204
	8.50	1105.9	873.6	115.36	9.5882	1.223
	9.00	1113.6	881.3	115.44	9.1111	1.240
	9.50	1120.5	888.3	115.51	8.6842	1.256
	10.00	1126.9	894.6	115.57	8.3000	1.270
	10.50	1132.5	900.2	115.63	7.9524	1.283
	11.00	1137.7	905.4	115.69	7.6364	1.294
	11.50	1142.4	910.1	115.73	7.3478	1.305
	12.00	1146.7	914.4	115.79	7.0833	1.315
	12.50	1150.6	918.3	115.82	6.8400	1.324
	13.00	1154.3	922.0	115.87	6.6154	1.332
	13.50	1157.7	925.4	115.91	6.4074	1.340
	14.00	1160.9	928.6	115.95	6.2143	1.348
	14.50	1163.8	931.5	115.98	6.0345	1.354
	15.00	1166.6	934.3	116.01	5.8667	1.361
	15.50	1169.1	936.8	116.04	5.7097	1.367
	16.00	1171.6	939.3	116.07	5.5625	1.373
	16.50	1173.8	941.6	116.11	5.4242	1.378
	17.00	1176.0	943.7	116.13	5.2941	1.383
	17.50	1178.0	945.7	116.17	5.1714	1.388

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/19/98 TIME: 10:44:39

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
18.00	1179.9	947.6	116.18	5.0556	1.392
18.50	1181.7	949.4	116.21	4.9459	1.396
19.00	1183.5	951.2	116.25	4.8421	1.401
19.50	1185.2	952.9	116.28	4.7436	1.405
20.00	1186.8	954.5	116.32	4.6500	1.408
20.50	1188.3	956.0	116.33	4.5610	1.412
21.00	1189.8	957.5	116.32	4.4762	1.416
21.50	1191.2	958.9	116.33	4.3953	1.419
22.00	1192.5	960.2	116.32	4.3182	1.422
22.50	1193.8	961.5	116.33	4.2444	1.425
23.00	1195.1	962.8	116.34	4.1739	1.428
23.50	1196.3	964.0	116.36	4.1064	1.431
24.00	1197.5	965.2	116.38	4.0417	1.434
24.50	1198.6	966.3	116.37	3.9796	1.437
25.00	1199.7	967.4	116.40	3.9200	1.439
25.50	1200.8	968.5	116.43	3.8627	1.442
26.00	1201.9	969.6	116.45	3.8077	1.445
26.50	1202.9	970.6	116.45	3.7547	1.447
27.00	1203.9	971.6	116.49	3.7037	1.449
27.50	1204.8	972.6	116.50	3.6545	1.452
28.00	1205.8	973.5	116.50	3.6071	1.454
28.50	1206.7	974.4	116.53	3.5614	1.456
29.00	1207.6	975.3	116.54	3.5172	1.458
29.50	1208.5	976.2	116.56	3.4746	1.460
30.00	1209.3	977.0	116.56	3.4333	1.462
30.50	1210.2	977.9	116.59	3.3934	1.465
31.00	1211.0	978.7	116.60	3.3548	1.466
31.50	1211.8	979.5	116.60	3.3175	1.468
32.00	1212.5	980.2	116.62	3.2812	1.470
32.50	1213.3	981.0	116.63	3.2462	1.472
33.00	1214.0	981.7	116.64	3.2121	1.474
33.50	1214.7	982.4	116.66	3.1791	1.475
34.00	1215.3	983.1	116.67	3.1471	1.477
34.50	1216.0	983.7	116.69	3.1159	1.479
35.00	1216.6	984.3	116.68	3.0857	1.480
35.50	1217.3	985.0	116.71	3.0563	1.482
36.00	1217.9	985.6	116.71	3.0278	1.483
36.50	1218.5	986.2	116.71	3.0000	1.485
37.00	1219.1	986.8	116.71	2.9730	1.486
37.50	1219.6	987.4	116.73	2.9467	1.488
38.00	1220.2	987.9	116.76	2.9211	1.489
38.50	1220.8	988.5	116.75	2.8961	1.490
39.00	1221.4	989.1	116.77	2.8718	1.492
39.50	1221.9	989.6	116.77	2.8481	1.493
40.00	1222.4	990.1	116.77	2.8250	1.494
40.50	1222.9	990.6	116.78	2.8025	1.496
41.00	1223.4	991.1	116.80	2.7805	1.497
41.50	1223.9	991.6	116.79	2.7590	1.498
42.00	1224.4	992.2	116.79	2.7381	1.499
42.50	1224.9	992.7	116.80	2.7176	1.500
43.00	1225.4	993.2	116.81	2.6977	1.502

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/19/98 TIME: 10:44:39

Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
43.50	1225.9	993.6		116.82	2.6782	1.503
44.00	1226.4	994.1		116.83	2.6591	1.504
44.50	1226.8	994.6		116.85	2.6404	1.505
45.00	1227.3	995.0		116.83	2.6222	1.506
45.50	1227.7	995.4		116.83	2.6044	1.507
46.00	1228.2	995.9		116.85	2.5870	1.508
46.50	1228.6	996.3		116.83	2.5699	1.509
47.00	1229.0	996.7		116.85	2.5532	1.510
47.50	1229.4	997.2		116.85	2.5368	1.512
48.00	1229.9	997.6		116.85	2.5208	1.513
48.50	1230.3	998.0		116.85	2.5052	1.514
49.00	1230.7	998.4		116.87	2.4898	1.515
49.50	1231.1	998.8		116.86	2.4747	1.516
50.00	1231.5	999.2		116.87	2.4600	1.516
50.50	1231.9	999.6		116.88	2.4455	1.518
51.00	1232.2	1000		116.87	2.4314	1.518
51.50	1232.6	1000.4		116.88	2.4175	1.519
52.00	1233.0	1000.7		116.90	2.4038	1.520
52.50	1233.4	1001.1		116.90	2.3905	1.521
53.00	1233.7	1001.5		116.85	2.3774	1.522
53.50	1234.1	1001.8		116.88	2.3645	1.523
54.00	1234.5	1002.2		116.90	2.3519	1.524
54.50	1234.8	1002.5		116.90	2.3394	1.525
55.00	1235.2	1002.9		116.91	2.3273	1.526
55.50	1235.5	1003.2		116.92	2.3153	1.526
56.00	1235.8	1003.6		116.91	2.3036	1.527
56.50	1236.2	1003.9		116.94	2.2920	1.528
57.00	1236.5	1004.2		116.93	2.2807	1.529
57.50	1236.8	1004.6		116.93	2.2696	1.530
58.00	1237.2	1004.9		116.94	2.2586	1.531
58.50	1237.5	1005.2		116.92	2.2479	1.531
59.00	1237.8	1005.6		116.94	2.2373	1.532
59.50	1238.1	1005.9		116.94	2.2269	1.533
60.00	1238.5	1006.2		116.96	2.2167	1.534
60.50	1238.7	1006.5		116.94	2.2066	1.534
61.00	1239.1	1006.8		116.97	2.1967	1.535
61.50	1239.3	1007.1		116.97	2.1870	1.536
62.00	1239.6	1007.4		116.96	2.1774	1.537
62.50	1239.9	1007.7		116.97	2.1680	1.537
63.00	1240.3	1008.0		116.98	2.1587	1.538
63.50	1240.5	1008.3		116.97	2.1496	1.539
64.00	1240.8	1008.6		116.99	2.1406	1.540
64.50	1241.1	1008.8		116.99	2.1318	1.540
65.00	1241.4	1009.1		117.00	2.1231	1.541
65.50	1241.7	1009.4		116.99	2.1145	1.542
66.00	1242.0	1009.7		117.02	2.1061	1.542
66.50	1242.2	1009.9		117.01	2.0977	1.543
67.00	1242.5	1010.2		117.04	2.0896	1.544
67.50	1242.8	1010.5		117.02	2.0815	1.544
68.00	1243.0	1010.8		117.04	2.0735	1.545
68.50	1243.3	1011.0		117.04	2.0657	1.546

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10888 DST#1 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/19/98

TIME: 10:44:39

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6	
	69.00	1243.6	1011.3	117.04	2.0580	1.547	
	69.50	1243.8	1011.6	117.05	2.0504	1.547	
	70.00	1244.1	1011.8	117.05	2.0429	1.548	
	70.50	1244.4	1012.1	117.06	2.0355	1.548	
	71.00	1244.6	1012.3	117.05	2.0282	1.549	
	71.50	1244.9	1012.6	117.06	2.0210	1.550	
	72.00	1245.1	1012.8	117.07	2.0139	1.550	
	72.50	1245.3	1013.0	117.07	2.0069	1.551	
	73.00	1245.6	1013.3	117.07	2.0000	1.551	
	73.50	1245.8	1013.5	117.09	1.9932	1.552	
	74.00	1246.0	1013.8	117.09	1.9865	1.553	
	74.50	1246.3	1014.0	117.09	1.9799	1.553	
	75.00	1246.5	1014.2	117.10	1.9733	1.554	
	75.50	1246.7	1014.5	117.11	1.9669	1.554	
	76.00	1247.0	1014.7	117.13	1.9605	1.555	
	76.50	1247.2	1014.9	117.13	1.9542	1.556	
	77.00	1247.4	1015.2	117.14	1.9481	1.556	
	77.50	1247.7	1015.4	117.13	1.9419	1.557	
	78.00	1247.9	1015.6	117.14	1.9359	1.557	
	78.50	1248.1	1015.8	117.14	1.9299	1.558	
	79.00	1248.3	1016.1	117.15	1.9241	1.558	
	79.50	1248.5	1016.3	117.16	1.9182	1.559	
	80.00	1248.8	1016.5	117.15	1.9125	1.559	
	80.50	1249.0	1016.7	117.16	1.9068	1.560	
	81.00	1249.2	1016.9	117.17	1.9012	1.561	
	81.50	1249.4	1017.1	117.17	1.8957	1.561	
	82.00	1249.6	1017.4	117.17	1.8902	1.562	
	82.50	1249.8	1017.5	117.19	1.8848	1.562	
	83.00	1250.0	1017.8	117.21	1.8795	1.563	
	83.50	1250.2	1017.9	117.20	1.8743	1.563	
	84.00	1250.4	1018.1	117.22	1.8690	1.564	
	84.50	1250.6	1018.4	117.22	1.8639	1.564	
	85.00	1250.9	1018.6	117.22	1.8588	1.565	
	85.50	1251.0	1018.8	117.24	1.8538	1.565	
	86.00	1251.2	1018.9	117.24	1.8488	1.566	
	86.50	1251.4	1019.1	117.24	1.8439	1.566	
	87.00	1251.6	1019.3	117.26	1.8391	1.567	
	87.50	1251.8	1019.5	117.26	1.8343	1.567	
	88.00	1252.0	1019.7	117.26	1.8295	1.568	
	88.50	1252.2	1019.9	117.26	1.8249	1.568	
	89.00	1252.4	1020.1	117.28	1.8202	1.569	
*****	End Shut-in 2	89.50	1252.6	1020.3	117.29	1.8156	1.569
*****	Final Hydro.	367.50	2247.9	0.0	117.39		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10888

Well Name & No. MLP SANTALA #2-2B Test No. 1 Date 1-19-98
Company HUGOTAN Energy Corp. Zone Tested K.C. "B"
Address 301 N. MAIN, SUITE 1800 WICHITA, KS 67202 Elevation 2889 KB 2878 GL
Co. Rep / Geo. DOUG DAVIS Cont. MURFIN rig 20 Est. Ft. of Pay 20 Por. %
Location: Sec. 28 Twp. 29^s Rge. 34^w Co. HASKELL State Ks
No. of Copies Req Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 4617-4640 Initial Str Wt./Lbs. 51000 Unseated Str Wt./Lbs. 54000
Anchor Length 23 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 55000
Top Packer Depth 4612 Tool Weight 2900
Bottom Packer Depth 4617 Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4640 Wt. Pipe Run Drill Collar Run 180
Mud Wt. 9 LCM Vis. 45 WL B.8 Drill Pipe Size 4 1/2 XH Ft. Run 4437
Blow Description TFP - STRONG BLOW GAS SURFACED IN 7min
FFP - STRONG BLOW GAS TO SURFACE

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>690</u>		<u>180</u>	<u>510</u>				
Rec. <u>510</u>	Feet Of <u>CLEAN OIL</u>						
Rec. <u>170</u>	Feet Of <u>M.G. OIL</u>	<u>15</u>		<u>55</u>		<u>30</u>	
Rec. <u>10</u>	Feet Of <u>WATER</u>						
Rec. <u> </u>	Feet Of <u> </u>						
Rec. <u> </u>	Feet Of <u> </u>						

BHT 109 °F Gravity 32 °API D@ 60 °F Corrected Gravity 32 °API
RW .12 @ 70 °F Chlorides 61000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud	<u>2284</u> <u>2275</u> PSI	Recorder No. <u>3027</u>	T-Started <u>10:45</u>
(B) First Initial Flow Pressure	<u>100</u> <u>156</u> PSI	(depth) <u>4620</u>	T-Open <u>13:05</u>
(C) First Final Flow Pressure	<u>127</u> <u>156</u> PSI	Recorder No. <u>10270</u>	T-Pulled <u>16:50</u>
(D) Initial Shut-in Pressure	<u>1275</u> <u>1309</u> PSI	(depth) <u>4637</u>	T-Out <u>19:15</u>
(E) Second Initial Flow Pressure	<u>146</u> <u>197</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure	<u>232</u> <u>239</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure	<u>1252</u> <u>1277</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(H) Final Hydrostatic Mud	<u>2247</u> <u>2264</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
	<u>Alpine</u> <u>Kustec</u>	Final Flow <u>45</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
		Final Shut-in <u>90</u>	Straddle <u> </u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

on loc: 09:45
off loc: 19:30

Approved By Douglas Davis

Elect. Rec. 150
Other

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.
 WELL NAME: MLP Santala #2-26
 LOCATION : 28-29s-34w
 INTERVAL : 4862.00 To 4910.00 ft

DATE 01-20-199

KB 2889.00 ft TICKET NO: 10889 DST #2
 GR 2878.00 ft FORMATION: Ft.Scott
 TD 4910.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10270	10270	3027			PF Fr. 2315 to 2345 hr
SI 60	Range(Psi)	4150.0	4150.0	4995.0	0.0	0.0	IS Fr. 2345 to 0045 hr
SF 30	Clock(hrs)	12 HR	12hr.	Elec			SF Fr. 0045 to 0115 hr
FS 60	Depth(ft)	4907.0	4907.0	4877.0	0.0	0.0	FS Fr. 0115 to 0215 hr

	Field	1	2	3	4	
A. Init Hydro	2358.0	2401.0	2342.0	0.0	0.0	T STARTED 2045 hr
B. First Flow	72.0	104.0	22.0	0.0	0.0	T ON BOTM 2312 hr
B1. Final Flow	72.0	113.0	31.0	0.0	0.0	T OPEN 2315 hr
C. In Shut-in	135.0	154.0	126.0	0.0	0.0	T PULLED 0215 hr
D. Init Flow	72.0	91.0	26.0	0.0	0.0	T OUT 0515 hr
E. Final Flow	72.0	91.0	32.0	0.0	0.0	
F. Fl Shut-in	83.0	108.0	75.0	0.0	0.0	
G. Final Hydro	2358.0	2366.0	2309.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2900.00 lbs
						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 54000.00 lbs
						Bot Choke 3.40 in
						Hole Size 7.80 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 180.00 ft
						D.P. Length 4682.00 ft

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
 10.00 ft of 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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Weak blow throughout 1/4" to surface
 blow
 Final Flow:
 No blow

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	44.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Ray Schwager
Co. Rep.	Doug Davis
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

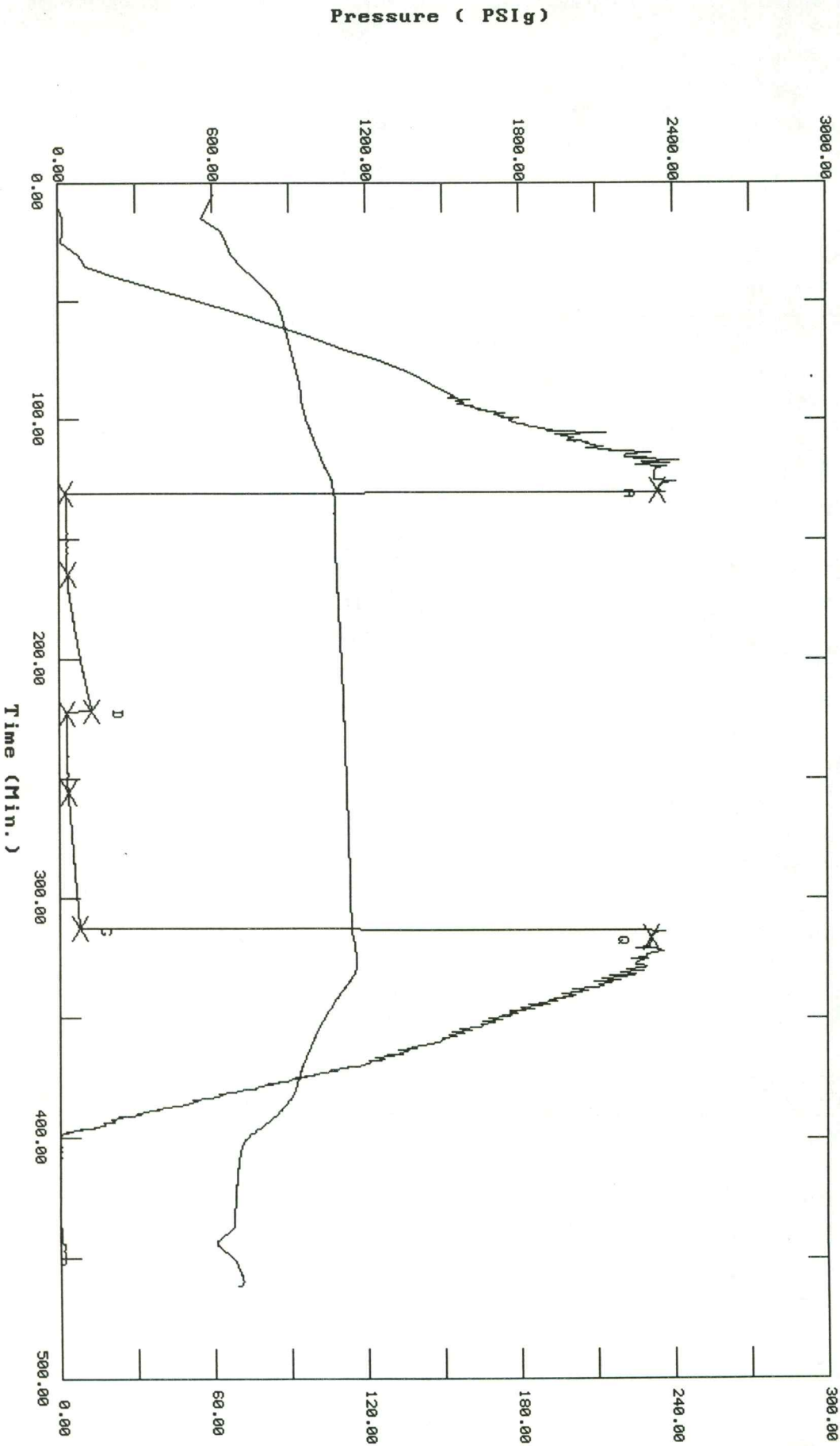
Test Successful: Y

TKT#10889 DST#2 MLP SantaIa#2-26 Hugoton Energy Corp.

TEST HISTORY

Flag Points

	t (Min.)	P (PSig)
A:	0.00	2342.27
B:	0.00	22.84
C:	33.50	31.53
D:	57.50	126.28
E:	0.00	26.14
F:	33.00	32.47
G:	56.50	75.97
Q:	0.00	2389.24

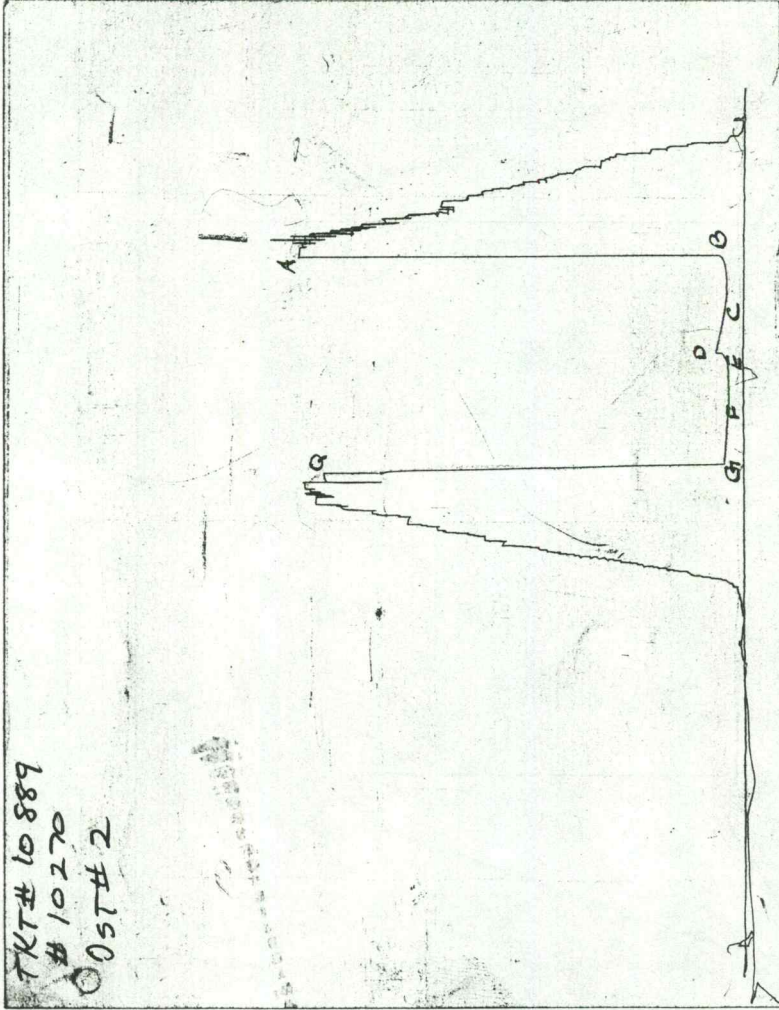


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

CHART PAGE



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

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TKT#10889 DST#2 MLP Santala#2-26 Hugoton Energy Corp.

DATE: 01/20/98 TIME: 21:02:51

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	129.50	2342.3	0.0	107.19		
***** Start Flow 1	0.00	22.8	0.0	107.36		
	0.50	24.2	1.3	107.56		
	1.00	24.9	2.0	107.62		
	1.50	25.5	2.6	107.63		
	2.00	25.9	3.1	107.66		
	2.50	26.4	3.5	107.65		
	3.00	26.7	3.9	107.65		
	3.50	27.1	4.2	107.64		
	4.00	27.2	4.4	107.65		
	4.50	28.2	5.4	107.65		
	5.00	28.2	5.4	107.63		
	5.50	28.4	5.6	107.62		
	6.00	28.7	5.8	107.61		
	6.50	29.2	6.4	107.63		
	7.00	29.2	6.4	107.62		
	7.50	27.3	4.4	107.62		
	8.00	28.1	5.3	107.61		
	8.50	26.7	3.8	107.60		
	9.00	28.4	5.6	107.61		
	9.50	29.6	6.7	107.61		
	10.00	27.7	4.8	107.62		
	10.50	27.7	4.8	107.61		
	11.00	29.3	6.5	107.62		
	11.50	27.2	4.3	107.62		
	12.00	28.9	6.0	107.64		
	12.50	26.9	4.1	107.64		
	13.00	28.2	5.3	107.65		
	13.50	29.6	6.8	107.64		
	14.00	30.5	7.7	107.67		
	14.50	28.1	5.3	107.67		
	15.00	28.3	5.4	107.68		
	15.50	29.0	6.2	107.71		
	16.00	30.0	7.1	107.71		
	16.50	31.4	8.5	107.73		
	17.00	29.2	6.4	107.73		
	17.50	28.4	5.6	107.74		
	18.00	26.8	4.0	107.78		
	18.50	28.3	5.4	107.78		
	19.00	29.6	6.7	107.79		
	19.50	30.7	7.8	107.82		
	20.00	28.3	5.5	107.83		
	20.50	28.4	5.6	107.87		
	21.00	29.0	6.2	107.88		
	21.50	30.0	7.1	107.90		
	22.00	30.9	8.1	107.91		
	22.50	30.9	8.1	107.93		
	23.00	28.7	5.9	107.95		
	23.50	29.4	6.5	107.98		
	24.00	29.9	7.1	107.99		
	24.50	30.9	8.0	108.03		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TKT#10889 DST#2 MLP Santala#2-26 Hugoton Energy Corp.

DATE: 01/20/98 TIME: 21:02:51

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	31.8	9.0	108.04		
	25.50	27.9	5.1	108.09		
	26.00	28.9	6.1	108.09		
	26.50	29.0	6.1	108.11		
	27.00	28.8	6.0	108.13		
	27.50	27.8	5.0	108.15		
	28.00	28.9	6.1	108.20		
	28.50	28.2	5.4	108.20		
	29.00	29.0	6.2	108.23		
	29.50	29.9	7.1	108.22		
	30.00	30.3	7.4	108.27		
	30.50	27.1	4.3	108.29		
	31.00	28.2	5.3	108.31		
	31.50	29.2	6.4	108.36		
	32.00	29.7	6.8	108.37		
	32.50	29.5	6.6	108.39		
	33.00	30.5	7.7	108.42		
***** End Flow 1	33.50	31.5	8.7	108.45		
***** Start Shutin 1	0.00	31.5	0.0	108.45	0.0000	0.001
	0.50	32.2	0.6	108.45	68.0000	0.001
	1.00	32.5	1.0	108.48	34.5000	0.001
	1.50	32.8	1.3	108.51	23.3333	0.001
	2.00	33.1	1.5	108.52	17.7500	0.001
	2.50	33.1	1.6	108.55	14.4000	0.001
	3.00	33.0	1.5	108.59	12.1667	0.001
	3.50	33.2	1.6	108.61	10.5714	0.001
	4.00	33.4	1.9	108.63	9.3750	0.001
	4.50	33.5	2.0	108.66	8.4444	0.001
	5.00	33.8	2.3	108.68	7.7000	0.001
	5.50	34.2	2.6	108.70	7.0909	0.001
	6.00	34.6	3.1	108.72	6.5833	0.001
	6.50	35.5	4.0	108.77	6.1538	0.001
	7.00	36.1	4.5	108.78	5.7857	0.001
	7.50	36.6	5.1	108.79	5.4667	0.001
	8.00	37.5	6.0	108.84	5.1875	0.001
	8.50	38.3	6.8	108.87	4.9412	0.001
	9.00	38.8	7.3	108.88	4.7222	0.002
	9.50	39.6	8.1	108.92	4.5263	0.002
	10.00	40.5	9.0	108.92	4.3500	0.002
	10.50	41.2	9.7	108.92	4.1905	0.002
	11.00	41.9	10.4	108.94	4.0455	0.002
	11.50	42.6	11.0	108.94	3.9130	0.002
	12.00	43.3	11.7	108.99	3.7917	0.002
	12.50	44.0	12.4	109.02	3.6800	0.002
	13.00	44.7	13.1	109.05	3.5769	0.002
	13.50	45.4	13.9	109.06	3.4815	0.002
	14.00	46.2	14.7	109.10	3.3929	0.002
	14.50	46.9	15.4	109.14	3.3103	0.002
	15.00	47.6	16.1	109.15	3.2333	0.002
	15.50	48.3	16.8	109.19	3.1613	0.002
	16.00	49.0	17.5	109.19	3.0938	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TKT#10889 DST#2 MLP Santala#2-26 Hugoton Energy Corp.

DATE: 01/20/98 TIME: 21:02:51

Time	Pressure PSIg	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
16.50	49.8	18.3	109.23	3.0303	0.002
17.00	50.5	19.0	109.26	2.9706	0.003
17.50	51.3	19.7	109.27	2.9143	0.003
18.00	52.0	20.5	109.31	2.8611	0.003
18.50	52.8	21.2	109.34	2.8108	0.003
19.00	53.5	21.9	109.36	2.7632	0.003
19.50	54.3	22.8	109.40	2.7179	0.003
20.00	55.0	23.5	109.40	2.6750	0.003
20.50	55.9	24.4	109.42	2.6341	0.003
21.00	56.7	25.2	109.45	2.5952	0.003
21.50	57.4	25.9	109.48	2.5581	0.003
22.00	58.2	26.7	109.49	2.5227	0.003
22.50	59.0	27.5	109.52	2.4889	0.003
23.00	59.8	28.3	109.55	2.4565	0.004
23.50	60.6	29.1	109.58	2.4255	0.004
24.00	61.4	29.9	109.58	2.3958	0.004
24.50	62.2	30.7	109.63	2.3673	0.004
25.00	63.0	31.5	109.65	2.3400	0.004
25.50	63.9	32.4	109.69	2.3137	0.004
26.00	64.7	33.2	109.69	2.2885	0.004
26.50	65.5	34.0	109.75	2.2642	0.004
27.00	66.3	34.8	109.75	2.2407	0.004
27.50	67.2	35.6	109.76	2.2182	0.005
28.00	68.0	36.4	109.78	2.1964	0.005
28.50	68.8	37.3	109.83	2.1754	0.005
29.00	69.6	38.1	109.83	2.1552	0.005
29.50	70.5	39.0	109.86	2.1356	0.005
30.00	71.3	39.8	109.89	2.1167	0.005
30.50	72.1	40.6	109.91	2.0984	0.005
31.00	73.0	41.5	109.93	2.0806	0.005
31.50	73.9	42.3	109.95	2.0635	0.005
32.00	74.7	43.2	109.97	2.0469	0.006
32.50	75.6	44.1	110.00	2.0308	0.006
33.00	76.5	44.9	110.02	2.0152	0.006
33.50	77.4	45.9	110.04	2.0000	0.006
34.00	78.3	46.7	110.06	1.9853	0.006
34.50	79.2	47.6	110.10	1.9710	0.006
35.00	80.1	48.5	110.11	1.9571	0.006
35.50	81.0	49.4	110.12	1.9437	0.007
36.00	81.9	50.3	110.16	1.9306	0.007
36.50	82.8	51.2	110.18	1.9178	0.007
37.00	83.7	52.2	110.20	1.9054	0.007
37.50	84.6	53.1	110.22	1.8933	0.007
38.00	85.5	54.0	110.18	1.8816	0.007
38.50	86.5	55.0	110.27	1.8701	0.007
39.00	87.4	55.9	110.28	1.8590	0.008
39.50	88.4	56.8	110.30	1.8481	0.008
40.00	89.3	57.8	110.33	1.8375	0.008
40.50	90.3	58.7	110.35	1.8272	0.008
41.00	91.2	59.7	110.37	1.8171	0.008
41.50	92.2	60.7	110.38	1.8072	0.008

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TKT#10889 DST#2 MLP Santala#2-26 Hugoton Energy Corp.

DATE: 01/20/98 TIME: 21:02:51

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
	42.00	93.2	61.6	110.41	1.7976	0.009	
	42.50	94.1	62.6	110.44	1.7882	0.009	
	43.00	95.1	63.5	110.45	1.7791	0.009	
	43.50	96.1	64.5	110.48	1.7701	0.009	
	44.00	97.1	65.5	110.50	1.7614	0.009	
	44.50	98.1	66.6	110.52	1.7528	0.01	
	45.00	99.1	67.6	110.54	1.7444	0.01	
	45.50	100.1	68.6	110.56	1.7363	0.010	
	46.00	101.1	69.6	110.59	1.7283	0.010	
	46.50	102.1	70.6	110.61	1.7204	0.010	
	47.00	103.1	71.6	110.62	1.7128	0.011	
	47.50	104.2	72.7	110.64	1.7053	0.011	
	48.00	105.2	73.7	110.67	1.6979	0.011	
	48.50	106.3	74.7	110.69	1.6907	0.011	
	49.00	107.3	75.8	110.71	1.6837	0.012	
	49.50	108.4	76.9	110.73	1.6768	0.012	
	50.00	109.5	77.9	110.74	1.6700	0.012	
	50.50	110.6	79.0	110.77	1.6634	0.012	
	51.00	111.6	80.1	110.80	1.6569	0.012	
	51.50	112.7	81.2	110.81	1.6505	0.013	
	52.00	113.8	82.3	110.83	1.6442	0.013	
	52.50	114.9	83.4	110.85	1.6381	0.013	
	53.00	116.0	84.5	110.87	1.6321	0.013	
	53.50	117.1	85.6	110.91	1.6262	0.014	
	54.00	118.2	86.7	110.91	1.6204	0.014	
	54.50	119.4	87.9	110.94	1.6147	0.014	
	55.00	120.5	89.0	110.96	1.6091	0.015	
	55.50	121.7	90.1	110.97	1.6036	0.015	
	56.00	122.8	91.2	110.98	1.5982	0.015	
	56.50	123.9	92.4	111.01	1.5929	0.015	
	57.00	125.1	93.6	111.04	1.5877	0.016	
*****	End Shut-in 1	57.50	126.3	94.7	111.04	1.5826	0.016
*****	Start Flow 2	0.00	26.1	0.0	111.09		
		0.50	27.0	0.9	111.11		
		1.00	27.5	1.4	111.13		
		1.50	26.8	0.6	111.17		
		2.00	26.5	0.3	111.17		
		2.50	27.0	0.8	111.18		
		3.00	27.4	1.3	111.20		
		3.50	27.9	1.7	111.21		
		4.00	26.3	0.2	111.25		
		4.50	26.9	0.7	111.26		
		5.00	27.3	1.1	111.28		
		5.50	26.4	0.3	111.30		
		6.00	26.8	0.7	111.34		
		6.50	27.3	1.2	111.35		
		7.00	27.7	1.6	111.40		
		7.50	27.4	1.2	111.40		
		8.00	26.8	0.7	111.40		
		8.50	27.3	1.2	111.40		
		9.00	27.7	1.6	111.40		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TKT#10889 DST#2 MLP Santala#2-26 Hugoton Energy Corp.

DATE: 01/20/98

TIME: 21:02:51

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
9.50	28.2	2.0	111.40		
10.00	28.8	2.7	111.41		
10.50	29.3	3.2	111.41		
11.00	29.5	3.4	111.44		
11.50	30.1	4.0	111.45		
12.00	27.8	1.7	111.46		
12.50	28.5	2.3	111.49		
13.00	29.0	2.9	111.52		
13.50	29.0	2.9	111.55		
14.00	29.6	3.5	111.56		
14.50	28.1	1.9	111.57		
15.00	28.7	2.6	111.60		
15.50	29.2	3.0	111.61		
16.00	29.6	3.4	111.63		
16.50	30.0	3.8	111.63		
17.00	30.5	4.3	111.68		
17.50	30.9	4.8	111.67		
18.00	28.0	1.9	111.70		
18.50	28.5	2.4	111.71		
19.00	28.9	2.8	111.74		
19.50	29.1	3.0	111.75		
20.00	29.2	3.1	111.77		
20.50	28.4	2.2	111.78		
21.00	28.9	2.8	111.80		
21.50	29.3	3.2	111.81		
22.00	28.2	2.1	111.84		
22.50	28.5	2.4	111.84		
23.00	29.1	3.0	111.87		
23.50	29.5	3.4	111.90		
24.00	30.1	3.9	111.91		
24.50	30.5	4.4	111.93		
25.00	30.9	4.8	111.93		
25.50	31.3	5.1	111.95		
26.00	31.8	5.6	111.97		
26.50	27.3	1.2	111.99		
27.00	28.0	1.8	112.00		
27.50	28.5	2.3	112.03		
28.00	29.0	2.8	112.04		
28.50	29.4	3.3	112.04		
29.00	29.4	3.3	112.07		
29.50	29.7	3.6	112.08		
30.00	30.2	4.1	112.10		
30.50	30.4	4.2	112.11		
31.00	31.0	4.8	112.12		
31.50	31.3	5.2	112.14		
32.00	31.7	5.5	112.17		
32.50	31.9	5.8	112.17		
33.00	32.5	6.3	112.19		
***** End Flow 2					
***** Start Shutin 2	0.00	32.5	0.0	112.19	0.0000 0.001
	0.50	32.8	0.3	112.21	134.0000 0.001
	1.00	33.3	0.9	112.22	67.5000 0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TKT#10889 DST#2 MLP Santala#2-26 Hugoton Energy Corp.

DATE: 01/20/98 TIME: 21:02:51

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
1.50	33.6	1.1	112.24	45.3333	0.001
2.00	34.1	1.6	112.25	34.2500	0.001
2.50	34.6	2.2	112.27	27.6000	0.001
3.00	35.1	2.7	112.29	23.1667	0.001
3.50	35.6	3.1	112.30	20.0000	0.001
4.00	35.9	3.4	112.32	17.6250	0.001
4.50	36.1	3.6	112.34	15.7778	0.001
5.00	36.5	4.0	112.34	14.3000	0.001
5.50	36.8	4.3	112.37	13.0909	0.001
6.00	37.3	4.8	112.39	12.0833	0.001
6.50	37.5	5.0	112.38	11.2308	0.001
7.00	37.9	5.4	112.41	10.5000	0.001
7.50	38.4	5.9	112.43	9.8667	0.001
8.00	38.8	6.3	112.44	9.3125	0.002
8.50	39.2	6.7	112.46	8.8235	0.002
9.00	39.6	7.2	112.47	8.3889	0.002
9.50	40.2	7.7	112.48	8.0000	0.002
10.00	40.6	8.2	112.50	7.6500	0.002
10.50	40.6	8.2	112.51	7.3333	0.002
11.00	40.7	8.3	112.53	7.0455	0.002
11.50	41.1	8.7	112.56	6.7826	0.002
12.00	41.5	9.1	112.56	6.5417	0.002
12.50	41.8	9.3	112.57	6.3200	0.002
13.00	42.3	9.9	112.59	6.1154	0.002
13.50	42.7	10.3	112.60	5.9259	0.002
14.00	43.2	10.8	112.63	5.7500	0.002
14.50	43.5	11.0	112.63	5.5862	0.002
15.00	43.9	11.5	112.65	5.4333	0.002
15.50	44.3	11.8	112.65	5.2903	0.002
16.00	44.8	12.3	112.67	5.1562	0.002
16.50	45.2	12.8	112.70	5.0303	0.002
17.00	45.7	13.3	112.70	4.9118	0.002
17.50	46.2	13.7	112.72	4.8000	0.002
18.00	46.7	14.2	112.74	4.6944	0.002
18.50	47.1	14.6	112.74	4.5946	0.002
19.00	47.6	15.1	112.77	4.5000	0.002
19.50	47.8	15.4	112.78	4.4103	0.002
20.00	47.9	15.5	112.80	4.3250	0.002
20.50	48.3	15.9	112.81	4.2439	0.002
21.00	48.6	16.1	112.82	4.1667	0.002
21.50	48.9	16.4	112.84	4.0930	0.002
22.00	49.2	16.7	112.85	4.0227	0.002
22.50	49.6	17.1	112.87	3.9556	0.002
23.00	50.0	17.5	112.87	3.8913	0.002
23.50	50.4	17.9	112.89	3.8298	0.003
24.00	50.8	18.4	112.89	3.7708	0.003
24.50	51.2	18.7	112.92	3.7143	0.003
25.00	51.5	19.1	112.93	3.6600	0.003
25.50	51.9	19.4	112.95	3.6078	0.003
26.00	52.3	19.8	112.98	3.5577	0.003
26.50	52.7	20.2	113.00	3.5094	0.003

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TKT#10889 DST#2 MLP Santala#2-26 Hugoton Energy Corp.

DATE: 01/20/98

TIME: 21:02:51

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
27.00	53.1	20.6	113.00	3.4630	0.003
27.50	53.5	21.0	113.02	3.4182	0.003
28.00	53.9	21.4	113.05	3.3750	0.003
28.50	54.3	21.8	113.05	3.3333	0.003
29.00	54.6	22.1	113.05	3.2931	0.003
29.50	54.9	22.5	113.06	3.2542	0.003
30.00	55.4	22.9	113.06	3.2167	0.003
30.50	55.8	23.3	113.06	3.1803	0.003
31.00	56.1	23.6	113.10	3.1452	0.003
31.50	56.4	23.9	113.10	3.1111	0.003
32.00	56.8	24.3	113.11	3.0781	0.003
32.50	57.1	24.7	113.12	3.0462	0.003
33.00	57.5	25.0	113.14	3.0152	0.003
33.50	57.9	25.4	113.15	2.9851	0.003
34.00	58.2	25.8	113.19	2.9559	0.003
34.50	58.7	26.2	113.21	2.9275	0.003
35.00	59.1	26.6	113.21	2.9000	0.003
35.50	59.5	27.0	113.23	2.8732	0.004
36.00	59.9	27.4	113.22	2.8472	0.004
36.50	60.2	27.7	113.25	2.8219	0.004
37.00	60.6	28.1	113.25	2.7973	0.004
37.50	61.0	28.5	113.26	2.7733	0.004
38.00	61.4	28.9	113.28	2.7500	0.004
38.50	61.7	29.2	113.29	2.7273	0.004
39.00	62.0	29.6	113.31	2.7051	0.004
39.50	62.4	30.0	113.32	2.6835	0.004
40.00	62.8	30.4	113.34	2.6625	0.004
40.50	63.2	30.8	113.34	2.6420	0.004
41.00	63.7	31.2	113.36	2.6220	0.004
41.50	64.0	31.6	113.38	2.6024	0.004
42.00	64.4	31.9	113.40	2.5833	0.004
42.50	64.8	32.3	113.40	2.5647	0.004
43.00	65.2	32.7	113.42	2.5465	0.004
43.50	65.6	33.1	113.43	2.5287	0.004
44.00	65.9	33.4	113.44	2.5114	0.004
44.50	66.4	33.9	113.47	2.4944	0.004
45.00	66.7	34.2	113.48	2.4778	0.004
45.50	67.1	34.6	113.49	2.4615	0.005
46.00	67.6	35.1	113.51	2.4457	0.005
46.50	68.0	35.5	113.51	2.4301	0.005
47.00	68.4	35.9	113.53	2.4149	0.005
47.50	68.8	36.3	113.54	2.4000	0.005
48.00	69.2	36.7	113.55	2.3854	0.005
48.50	69.6	37.1	113.56	2.3711	0.005
49.00	70.0	37.5	113.56	2.3571	0.005
49.50	70.4	37.9	113.58	2.3434	0.005
50.00	70.8	38.3	113.62	2.3300	0.005
50.50	71.2	38.8	113.62	2.3168	0.005
51.00	71.7	39.2	113.64	2.3039	0.005
51.50	72.0	39.6	113.64	2.2913	0.005
52.00	72.4	39.9	113.66	2.2788	0.005

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TKT#10889 DST#2 MLP Santala#2-26 Hugoton Energy Corp.

DATE: 01/20/98 TIME: 21:02:51

	Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
	52.50	72.7	40.3		113.68	2.2667	0.005
	53.00	73.2	40.7		113.68	2.2547	0.005
	53.50	73.6	41.1		113.71	2.2430	0.005
	54.00	74.0	41.5		113.71	2.2315	0.005
	54.50	74.3	41.9		113.71	2.2202	0.006
	55.00	74.7	42.2		113.74	2.2091	0.006
	55.50	75.1	42.7		113.76	2.1982	0.006
	56.00	75.5	43.1		113.77	2.1875	0.006
***** End Shut-in 2	56.50	76.0	43.5		113.80	2.1770	0.006
***** Final Hydro.	316.50	2309.2	0.0		114.55		

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.
 WELL NAME: MLP Santala #2-26
 LOCATION : 28-29s-34w CO Haskell KS
 INTERVAL : 5190.00 To 5304.00 ft

DATE 01-22-199
 KB 2889.00 ft TICKET NO: 10890 DST #3
 GR 2878.00 ft FORMATION: Morrow
 TD 5304.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10270	3 10270	3027			PF Fr. 1520 to 1550 hr
SI 60	Range(Psi)	4150.0	4150.0	4995.0	0.0	0.0	IS Fr. 1550 to 1650 hr
SF 45	Clock(hrs)	12 HR	12hr	Elec			SF Fr. 1650 to 1735 hr
FS 90	Depth(ft)	5301.0	5301.0	5196.0	0.0	0.0	FS Fr. 1735 to 1905 hr

	Field	1	2	3	4	
A. Init Hydro	2504.0	2562.0	2505.0	0.0	0.0	T STARTED 1300 hr
B. First Flow	104.0	115.0	47.0	0.0	0.0	T ON BOTM 1517 hr
B1. Final Flow	104.0	115.0	65.0	0.0	0.0	T OPEN 1520 hr
C. In Shut-in	406.0	418.0	408.0	0.0	0.0	T PULLED 1905 hr
D. Init Flow	124.0	142.0	62.0	0.0	0.0	T OUT 2130 hr
E. Final Flow	104.0	133.0	75.0	0.0	0.0	
F. Fl Shut-in	551.0	560.0	556.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2472.0	2458.0	2417.0	0.0	0.0	Tool Wt. 2900.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 110000.00 lbs
						Initial Str Wt 55000.00 lbs
						Unseated Str Wt 60000.00 lbs
						Bot Choke 3.40 in
						Hole Size 7.80 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 180.00 ft
						D.P. Length 5010.00 ft

RECOVERY

Tot Fluid 80.00 ft of 80.00 ft in DC and 0.00 ft in DP
 240.00 ft of gas in pipe
 20.00 ft of mud
 60.00 ft of slight oil & gas cut mud
 0.00 ft of 5%gas 3%oil 92%mud
 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:
 Weak building to a strong blow in 15 min.
 Final Flow:
 Fair building to a strong blow in 8 min.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	59.00 S/L
W.L.	6.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Ray Schwager
Co. Rep.	Doug Davis
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

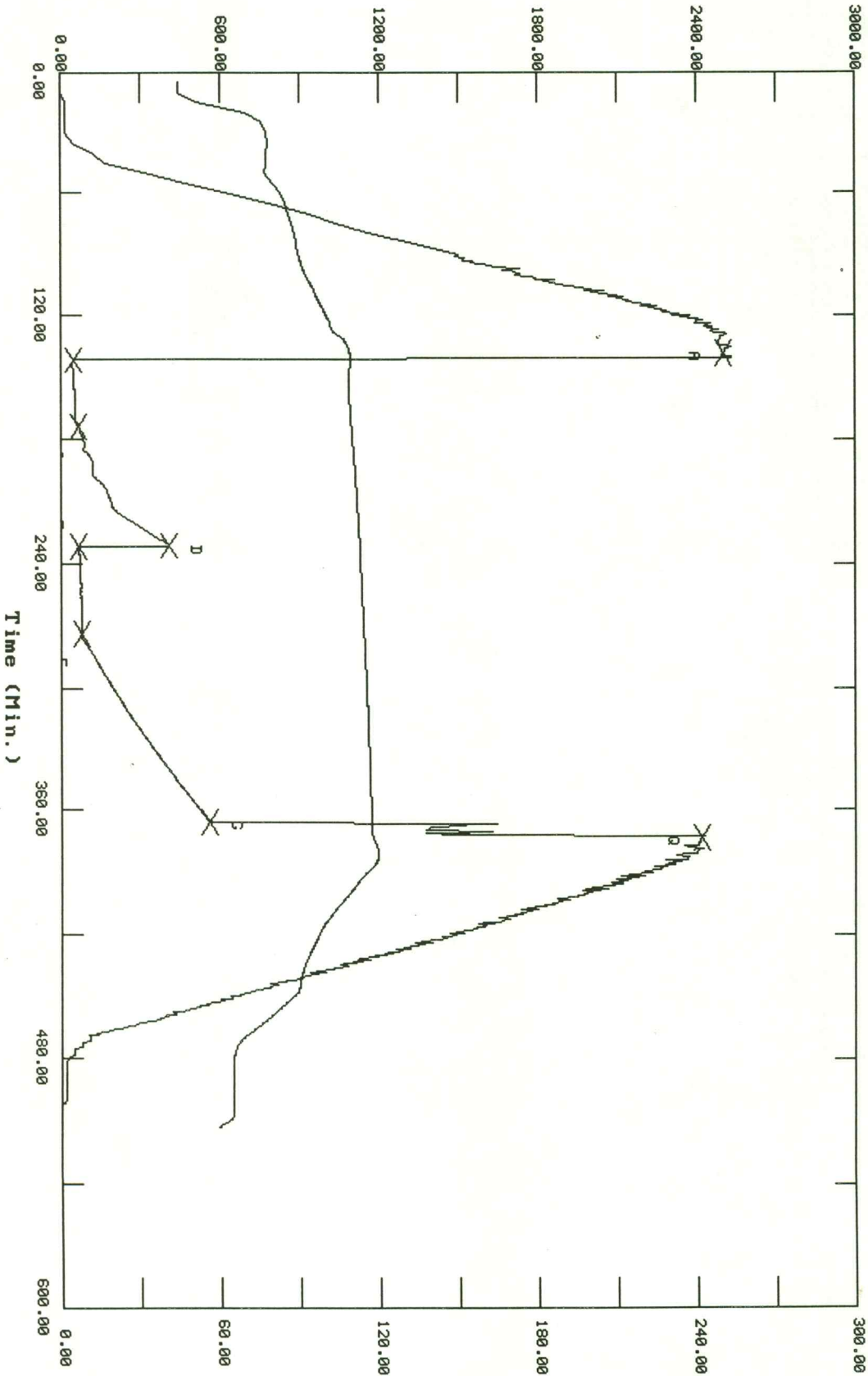
Test Successful: Y

10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

TEST HISTORY

Flag Points
 t(Min.) P(PSig)

A:	0.00	2505.33
B:	0.00	47.97
C:	32.50	65.11
D:	57.50	408.88
E:	0.00	62.75
F:	42.00	75.49
G:	92.00	556.72
Q:	0.00	2417.43

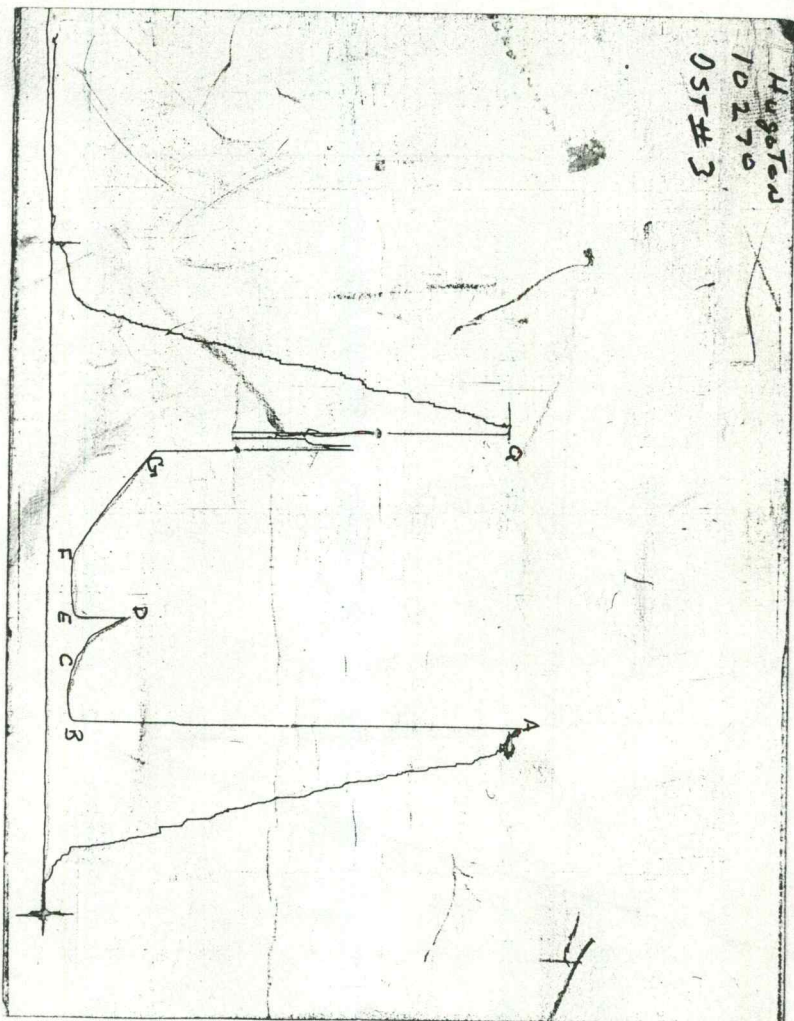


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98 TIME: 12:55:55

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	138.00	2505.3	0.0	108.73		
***** Start Flow 1	0.00	48.0	0.0	109.07		
	0.50	45.0	-2.9	109.06		
	1.00	40.8	-7.2	109.04		
	1.50	41.6	-6.4	108.97		
	2.00	41.3	-6.6	108.92		
	2.50	41.7	-6.3	108.92		
	3.00	42.3	-5.7	108.89		
	3.50	42.5	-5.4	108.83		
	4.00	43.6	-4.4	108.79		
	4.50	43.9	-4.0	108.75		
	5.00	44.2	-3.8	108.72		
	5.50	44.3	-3.7	108.69		
	6.00	44.1	-3.9	108.65		
	6.50	44.7	-3.3	108.63		
	7.00	45.2	-2.8	108.61		
	7.50	45.4	-2.6	108.60		
	8.00	45.8	-2.1	108.60		
	8.50	46.2	-1.7	108.58		
	9.00	46.4	-1.6	108.57		
	9.50	46.6	-1.4	108.55		
	10.00	46.7	-1.3	108.53		
	10.50	47.1	-0.8	108.55		
	11.00	47.2	-0.8	108.53		
	11.50	47.6	-0.3	108.53		
	12.00	47.8	-0.2	108.54		
	12.50	48.0	0.0	108.55		
	13.00	48.2	0.2	108.55		
	13.50	48.4	0.5	108.55		
	14.00	48.6	0.7	108.57		
	14.50	48.9	0.9	108.57		
	15.00	49.2	1.3	108.60		
	15.50	49.4	1.4	108.59		
	16.00	49.8	1.8	108.61		
	16.50	49.8	1.8	108.61		
	17.00	50.0	2.0	108.64		
	17.50	50.2	2.2	108.65		
	18.00	50.2	2.2	108.68		
	18.50	50.5	2.5	108.69		
	19.00	50.5	2.5	108.71		
	19.50	51.0	3.0	108.73		
	20.00	51.2	3.2	108.75		
	20.50	51.4	3.4	108.78		
	21.00	51.3	3.3	108.80		
	21.50	51.4	3.5	108.83		
	22.00	51.8	3.8	108.86		
	22.50	52.0	4.0	108.88		
	23.00	52.2	4.2	108.92		
	23.50	52.8	4.8	108.92		
	24.00	52.9	5.0	108.92		
	24.50	52.8	4.8	108.94		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98 TIME: 12:55:55

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.00	53.1	5.1	108.94		
	25.50	53.3	5.3	108.99		
	26.00	53.2	5.2	109.01		
	26.50	53.5	5.5	109.06		
	27.00	53.5	5.5	109.08		
	27.50	53.8	5.8	109.10		
	28.00	54.0	6.0	109.13		
	28.50	54.1	6.1	109.18		
	29.00	54.2	6.3	109.20		
	29.50	54.3	6.3	109.23		
	30.00	56.8	8.8	109.27		
	30.50	60.0	12.0	109.30		
	31.00	62.1	14.2	109.34		
	31.50	63.0	15.0	109.36		
	32.00	64.2	16.2	109.40		
***** End Flow 1	32.50	65.1	17.1	109.43		
***** Start Shutin 1	0.00	65.1	0.0	109.43	0.0000	0.004
	0.50	66.8	1.6	109.44	66.0000	0.004
	1.00	68.0	2.9	109.48	33.5000	0.005
	1.50	69.0	3.9	109.52	22.6667	0.005
	2.00	69.6	4.5	109.55	17.2500	0.005
	2.50	69.6	4.4	109.59	14.0000	0.005
	3.00	69.7	4.6	109.60	11.8333	0.005
	3.50	74.5	9.4	109.64	10.2857	0.006
	4.00	76.8	11.7	109.66	9.1250	0.006
	4.50	78.5	13.4	109.70	8.2222	0.006
	5.00	79.9	14.8	109.75	7.5000	0.006
	5.50	81.3	16.2	109.76	6.9091	0.007
	6.00	82.9	17.8	109.80	6.4167	0.007
	6.50	83.9	18.7	109.82	6.0000	0.007
	7.00	84.5	19.3	109.87	5.6429	0.007
	7.50	84.9	19.8	109.88	5.3333	0.007
	8.00	85.0	19.9	109.93	5.0625	0.007
	8.50	85.1	20.0	109.97	4.8235	0.007
	9.00	85.1	20.0	110.00	4.6111	0.007
	9.50	85.1	19.9	110.03	4.4211	0.007
	10.00	84.8	19.6	110.06	4.2500	0.007
	10.50	84.6	19.5	110.09	4.0952	0.007
	11.00	84.5	19.4	110.12	3.9545	0.007
	11.50	84.4	19.3	110.16	3.8261	0.007
	12.00	88.3	23.2	110.17	3.7083	0.008
	12.50	93.6	28.4	110.22	3.6000	0.009
	13.00	97.9	32.8	110.25	3.5000	0.01
	13.50	101.7	36.6	110.28	3.4074	0.010
	14.00	105.2	40.1	110.31	3.3214	0.011
	14.50	108.3	43.2	110.34	3.2414	0.012
	15.00	111.1	46.0	110.36	3.1667	0.012
	15.50	113.1	48.0	110.40	3.0968	0.013
	16.00	114.5	49.3	110.43	3.0312	0.013
	16.50	115.7	50.5	110.45	2.9697	0.013
	17.00	116.7	51.6	110.50	2.9118	0.014

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98

TIME: 12:55:55

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
17.50	117.6	52.5	110.52	2.8571	0.014
18.00	118.0	52.9	110.56	2.8056	0.014
18.50	118.4	53.3	110.59	2.7568	0.014
19.00	118.7	53.6	110.63	2.7105	0.014
19.50	119.0	53.9	110.65	2.6667	0.014
20.00	119.2	54.1	110.69	2.6250	0.014
20.50	119.4	54.3	110.71	2.5854	0.014
21.00	119.5	54.4	110.74	2.5476	0.014
21.50	119.5	54.4	110.76	2.5116	0.014
22.00	119.7	54.5	110.80	2.4773	0.014
22.50	119.7	54.5	110.83	2.4444	0.014
23.00	119.7	54.6	110.87	2.4130	0.014
23.50	119.7	54.6	110.89	2.3830	0.014
24.00	123.6	58.5	110.91	2.3542	0.015
24.50	128.4	63.2	110.94	2.3265	0.016
25.00	132.7	67.6	110.97	2.3000	0.018
25.50	136.6	71.5	110.98	2.2745	0.019
26.00	140.4	75.3	111.04	2.2500	0.020
26.50	145.4	80.3	111.06	2.2264	0.021
27.00	150.7	85.6	111.09	2.2037	0.023
27.50	155.6	90.5	111.12	2.1818	0.024
28.00	158.8	93.6	111.15	2.1607	0.025
28.50	159.1	94.0	111.17	2.1404	0.025
29.00	162.1	97.0	111.20	2.1207	0.026
29.50	164.7	99.6	111.26	2.1017	0.027
30.00	167.0	101.9	111.28	2.0833	0.028
30.50	169.2	104.1	111.34	2.0656	0.029
31.00	171.2	106.0	111.36	2.0484	0.029
31.50	172.9	107.7	111.40	2.0317	0.030
32.00	174.6	109.4	111.40	2.0156	0.030
32.50	176.1	111.0	111.40	2.0000	0.031
33.00	177.7	112.6	111.40	1.9848	0.032
33.50	179.2	114.1	111.41	1.9701	0.032
34.00	180.5	115.4	111.43	1.9559	0.033
34.50	182.0	116.9	111.44	1.9420	0.033
35.00	183.5	118.4	111.49	1.9286	0.034
35.50	184.8	119.7	111.51	1.9155	0.034
36.00	186.0	120.8	111.55	1.9028	0.035
36.50	187.3	122.1	111.56	1.8904	0.035
37.00	188.8	123.6	111.60	1.8784	0.036
37.50	190.1	124.9	111.63	1.8667	0.036
38.00	191.4	126.3	111.66	1.8553	0.037
38.50	192.8	127.7	111.67	1.8442	0.037
39.00	193.9	128.8	111.70	1.8333	0.038
39.50	195.2	130.1	111.73	1.8228	0.038
40.00	199.7	134.6	111.76	1.8125	0.040
40.50	205.4	140.3	111.77	1.8025	0.042
41.00	210.5	145.4	111.80	1.7927	0.044
41.50	215.3	150.2	111.83	1.7831	0.046
42.00	220.2	155.1	111.85	1.7738	0.049
42.50	226.7	161.6	111.87	1.7647	0.051

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98 TIME: 12:55:55

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	43.00	233.0	167.8	111.91	1.7558	0.054
	43.50	239.1	174.0	111.92	1.7471	0.057
	44.00	245.2	180.1	111.94	1.7386	0.060
	44.50	251.4	186.3	111.95	1.7303	0.063
	45.00	257.6	192.4	112.00	1.7222	0.066
	45.50	263.6	198.5	112.02	1.7143	0.069
	46.00	269.6	204.5	112.04	1.7065	0.073
	46.50	275.6	210.5	112.08	1.6989	0.076
	47.00	281.6	216.5	112.08	1.6915	0.079
	47.50	287.7	222.5	112.10	1.6842	0.083
	48.00	293.6	228.5	112.13	1.6771	0.086
	48.50	299.6	234.5	112.15	1.6701	0.090
	49.00	305.8	240.7	112.19	1.6633	0.094
	49.50	311.9	246.8	112.21	1.6566	0.097
	50.00	317.9	252.8	112.21	1.6500	0.101
	50.50	324.0	258.9	112.27	1.6436	0.105
	51.00	330.0	264.9	112.28	1.6373	0.109
	51.50	336.0	270.9	112.30	1.6311	0.113
	52.00	342.2	277.1	112.32	1.6250	0.117
	52.50	348.6	283.4	112.36	1.6190	0.121
	53.00	354.6	289.5	112.38	1.6132	0.126
	53.50	360.8	295.7	112.39	1.6075	0.130
	54.00	367.1	302.0	112.43	1.6019	0.135
	54.50	373.3	308.2	112.45	1.5963	0.139
	55.00	379.5	314.4	112.46	1.5909	0.144
	55.50	385.7	320.6	112.48	1.5856	0.149
	56.00	391.9	326.8	112.50	1.5804	0.154
	56.50	398.1	333.0	112.54	1.5752	0.158
	57.00	404.4	339.3	112.55	1.5702	0.164
***** End Shut-in 1	57.50	408.9	343.8	112.58	1.5652	0.167
***** Start Flow 2	0.00	62.7	0.0	112.61		
	0.50	61.8	-0.9	112.62		
	1.00	62.7	-0.1	112.64		
	1.50	63.0	0.3	112.64		
	2.00	63.9	1.1	112.66		
	2.50	64.8	2.0	112.67		
	3.00	65.5	2.8	112.69		
	3.50	66.3	3.5	112.71		
	4.00	66.7	4.0	112.71		
	4.50	66.9	4.1	112.73		
	5.00	67.4	4.6	112.73		
	5.50	67.4	4.7	112.74		
	6.00	67.6	4.9	112.76		
	6.50	67.9	5.1	112.78		
	7.00	68.4	5.6	112.80		
	7.50	68.0	5.2	112.82		
	8.00	68.1	5.4	112.84		
	8.50	68.3	5.6	112.84		
	9.00	68.8	6.0	112.87		
	9.50	68.9	6.1	112.89		
	10.00	69.3	6.6	112.91		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98

TIME: 12:55:55

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
10.50	69.3	6.5	112.93		
11.00	69.4	6.7	112.95		
11.50	70.0	7.3	112.97		
12.00	69.6	6.9	112.99		
12.50	70.0	7.2	113.02		
13.00	70.3	7.5	113.05		
13.50	70.0	7.3	113.05		
14.00	70.3	7.6	113.06		
14.50	70.5	7.7	113.08		
15.00	70.5	7.7	113.09		
15.50	70.7	8.0	113.14		
16.00	70.8	8.1	113.13		
16.50	71.0	8.3	113.15		
17.00	74.0	11.2	113.17		
17.50	71.8	9.1	113.17		
18.00	75.9	13.1	113.21		
18.50	73.5	10.7	113.22		
19.00	73.5	10.8	113.25		
19.50	71.9	9.2	113.27		
20.00	75.1	12.3	113.28		
20.50	72.5	9.8	113.30		
21.00	73.0	10.2	113.32		
21.50	72.0	9.2	113.34		
22.00	72.2	9.4	113.36		
22.50	72.2	9.4	113.38		
23.00	72.4	9.6	113.39		
23.50	72.8	10.0	113.42		
24.00	72.4	9.7	113.44		
24.50	72.8	10.0	113.46		
25.00	72.8	10.0	113.48		
25.50	72.8	10.1	113.51		
26.00	73.1	10.4	113.51		
26.50	73.2	10.5	113.54		
27.00	73.0	10.2	113.55		
27.50	73.3	10.5	113.57		
28.00	73.2	10.5	113.60		
28.50	73.7	10.9	113.62		
29.00	73.4	10.6	113.64		
29.50	73.6	10.9	113.66		
30.00	73.9	11.1	113.69		
30.50	74.0	11.2	113.71		
31.00	73.7	10.9	113.73		
31.50	73.9	11.1	113.75		
32.00	74.0	11.2	113.76		
32.50	74.1	11.4	113.79		
33.00	74.1	11.4	113.81		
33.50	74.2	11.5	113.83		
34.00	74.1	11.4	113.88		
34.50	74.4	11.6	113.88		
35.00	74.4	11.7	113.87		
35.50	74.5	11.8	113.88		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98 TIME: 12:55:55

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	36.00	74.6	11.9	113.88		
	36.50	74.7	12.0	113.89		
	37.00	75.0	12.2	113.91		
	37.50	74.8	12.1	113.96		
	38.00	75.0	12.2	113.98		
	38.50	75.0	12.3	114.00		
	39.00	75.1	12.3	114.03		
	39.50	75.1	12.4	114.05		
	40.00	75.4	12.6	114.09		
	40.50	75.3	12.6	114.10		
	41.00	75.4	12.6	114.11		
	41.50	75.5	12.7	114.12		
*****	End Flow 2	42.00	75.5	12.7	114.14	
*****	Start Shutin 2	0.00	75.5	0.0	114.14	0.0000
		0.50	75.6	0.1	114.16	150.0000
		1.00	75.7	0.3	114.20	75.5000
		1.50	75.7	0.3	114.20	50.6667
		2.00	77.3	1.8	114.22	38.2500
		2.50	80.6	5.1	114.25	30.8000
		3.00	83.4	7.9	114.27	25.8333
		3.50	86.3	10.9	114.29	22.2857
		4.00	89.0	13.6	114.32	19.6250
		4.50	91.8	16.3	114.33	17.5556
		5.00	94.4	18.9	114.35	15.9000
		5.50	96.9	21.4	114.36	14.5455
		6.00	99.5	24.0	114.40	13.4167
		6.50	102.0	26.5	114.41	12.4615
		7.00	104.4	28.9	114.42	11.6429
		7.50	106.7	31.3	114.45	10.9333
		8.00	109.2	33.7	114.47	10.3125
		8.50	111.5	36.0	114.48	9.7647
		9.00	113.9	38.4	114.51	9.2778
		9.50	116.2	40.8	114.53	8.8421
		10.00	118.5	43.1	114.54	8.4500
		10.50	120.9	45.4	114.57	8.0952
		11.00	123.2	47.7	114.58	7.7727
		11.50	125.6	50.1	114.59	7.4783
		12.00	127.9	52.4	114.62	7.2083
		12.50	130.2	54.7	114.65	6.9600
		13.00	132.5	57.0	114.65	6.7308
		13.50	134.8	59.3	114.67	6.5185
		14.00	137.1	61.6	114.70	6.3214
		14.50	139.4	63.9	114.72	6.1379
		15.00	141.7	66.2	114.72	5.9667
		15.50	144.0	68.5	114.75	5.8065
		16.00	146.4	70.9	114.76	5.6562
		16.50	148.6	73.1	114.79	5.5152
		17.00	151.0	75.5	114.82	5.3824
		17.50	153.3	77.8	114.82	5.2571
		18.00	155.6	80.1	114.84	5.1389
		18.50	157.9	82.5	114.87	5.0270

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98

TIME: 12:55:55

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
19.00	160.2	84.8	114.87	4.9211	0.026
19.50	162.6	87.1	114.89	4.8205	0.026
20.00	164.9	89.5	114.91	4.7250	0.027
20.50	167.2	91.7	114.93	4.6341	0.028
21.00	169.6	94.1	114.95	4.5476	0.029
21.50	171.9	96.4	114.97	4.4651	0.030
22.00	174.2	98.7	115.00	4.3864	0.030
22.50	176.5	101.1	115.02	4.3111	0.031
23.00	178.9	103.4	115.04	4.2391	0.032
23.50	181.3	105.8	115.04	4.1702	0.033
24.00	183.6	108.1	115.08	4.1042	0.034
24.50	185.9	110.4	115.08	4.0408	0.035
25.00	188.3	112.8	115.10	3.9800	0.035
25.50	190.7	115.2	115.07	3.9216	0.036
26.00	193.0	117.6	115.14	3.8654	0.037
26.50	195.4	119.9	115.14	3.8113	0.038
27.00	197.9	122.4	115.17	3.7593	0.039
27.50	200.2	124.7	115.18	3.7091	0.040
28.00	202.6	127.2	115.19	3.6607	0.041
28.50	205.0	129.5	115.21	3.6140	0.042
29.00	207.4	132.0	115.24	3.5690	0.043
29.50	209.9	134.4	115.25	3.5254	0.044
30.00	212.3	136.8	115.27	3.4833	0.045
30.50	214.6	139.1	115.29	3.4426	0.046
31.00	217.1	141.6	115.30	3.4032	0.047
31.50	219.5	144.0	115.32	3.3651	0.048
32.00	221.9	146.5	115.34	3.3281	0.049
32.50	224.4	148.9	115.35	3.2923	0.050
33.00	226.9	151.4	115.36	3.2576	0.051
33.50	229.3	153.8	115.38	3.2239	0.053
34.00	231.8	156.3	115.40	3.1912	0.054
34.50	234.2	158.7	115.41	3.1594	0.055
35.00	236.7	161.2	115.42	3.1286	0.056
35.50	239.1	163.6	115.45	3.0986	0.057
36.00	241.6	166.1	115.48	3.0694	0.058
36.50	244.1	168.6	115.49	3.0411	0.060
37.00	246.6	171.1	115.50	3.0135	0.061
37.50	249.1	173.6	115.51	2.9867	0.062
38.00	251.5	176.0	115.53	2.9605	0.063
38.50	254.1	178.6	115.55	2.9351	0.065
39.00	256.7	181.2	115.57	2.9103	0.066
39.50	259.2	183.7	115.59	2.8861	0.067
40.00	261.8	186.3	115.60	2.8625	0.069
40.50	264.4	188.9	115.62	2.8395	0.070
41.00	266.8	191.3	115.62	2.8171	0.071
41.50	269.5	194.0	115.64	2.7952	0.073
42.00	272.1	196.6	115.66	2.7738	0.074
42.50	274.6	199.2	115.68	2.7529	0.075
43.00	277.2	201.8	115.68	2.7326	0.077
43.50	279.9	204.4	115.70	2.7126	0.078
44.00	282.5	207.0	115.72	2.6932	0.080

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98 TIME: 12:55:55

Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
44.50	285.1	209.6	115.74	115.74	2.6742	0.081
45.00	287.8	212.3	115.76	115.76	2.6556	0.083
45.50	290.4	214.9	115.77	115.77	2.6374	0.084
46.00	293.1	217.6	115.79	115.79	2.6196	0.086
46.50	295.7	220.2	115.79	115.79	2.6022	0.087
47.00	298.3	222.8	115.80	115.80	2.5851	0.089
47.50	301.1	225.6	115.82	115.82	2.5684	0.091
48.00	303.7	228.2	115.84	115.84	2.5521	0.092
48.50	306.4	230.9	115.84	115.84	2.5361	0.094
49.00	309.1	233.6	115.86	115.86	2.5204	0.096
49.50	311.8	236.3	115.88	115.88	2.5051	0.097
50.00	314.7	239.2	115.87	115.87	2.4900	0.099
50.50	317.4	241.9	115.89	115.89	2.4752	0.101
51.00	320.1	244.6	115.91	115.91	2.4608	0.102
51.50	322.8	247.3	115.92	115.92	2.4466	0.104
52.00	325.6	250.1	115.93	115.93	2.4327	0.106
52.50	328.3	252.8	115.96	115.96	2.4190	0.108
53.00	331.1	255.6	115.96	115.96	2.4057	0.110
53.50	333.8	258.3	115.98	115.98	2.3925	0.111
54.00	336.6	261.1	116.00	116.00	2.3796	0.113
54.50	339.4	263.9	116.01	116.01	2.3670	0.115
55.00	342.2	266.7	116.02	116.02	2.3545	0.117
55.50	345.1	269.6	116.04	116.04	2.3423	0.119
56.00	347.7	272.2	116.05	116.05	2.3304	0.121
56.50	350.6	275.1	116.06	116.06	2.3186	0.123
57.00	353.3	277.8	116.07	116.07	2.3070	0.125
57.50	356.0	280.6	116.10	116.10	2.2957	0.127
58.00	358.9	283.4	116.10	116.10	2.2845	0.129
58.50	361.7	286.2	116.11	116.11	2.2735	0.131
59.00	364.5	289.1	116.13	116.13	2.2627	0.133
59.50	367.3	291.8	116.17	116.17	2.2521	0.135
60.00	370.1	294.7	116.17	116.17	2.2417	0.137
60.50	373.0	297.5	116.18	116.18	2.2314	0.139
61.00	375.8	300.3	116.21	116.21	2.2213	0.141
61.50	378.6	303.1	116.23	116.23	2.2114	0.143
62.00	381.4	305.9	116.24	116.24	2.2016	0.145
62.50	384.2	308.8	116.27	116.27	2.1920	0.148
63.00	387.1	311.6	116.28	116.28	2.1825	0.150
63.50	389.9	314.4	116.30	116.30	2.1732	0.152
64.00	392.7	317.2	116.30	116.30	2.1641	0.154
64.50	395.5	320.1	116.32	116.32	2.1550	0.156
65.00	398.4	322.9	116.32	116.32	2.1462	0.159
65.50	401.2	325.7	116.33	116.33	2.1374	0.161
66.00	404.0	328.5	116.33	116.33	2.1288	0.163
66.50	406.8	331.4	116.33	116.33	2.1203	0.166
67.00	409.7	334.2	116.33	116.33	2.1119	0.168
67.50	412.6	337.1	116.33	116.33	2.1037	0.170
68.00	415.5	340.0	116.33	116.33	2.0956	0.173
68.50	418.5	343.0	116.34	116.34	2.0876	0.175
69.00	421.4	345.9	116.34	116.34	2.0797	0.178
69.50	424.3	348.8	116.38	116.38	2.0719	0.180

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10890 DST#3 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/22/98 TIME: 12:55:55

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
70.00	427.2	351.7	116.38	2.0643	0.183	
70.50	430.1	354.7	116.38	2.0567	0.185	
71.00	433.1	357.6	116.38	2.0493	0.188	
71.50	436.0	360.6	116.38	2.0420	0.190	
72.00	439.1	363.6	116.38	2.0347	0.193	
72.50	441.9	366.4	116.38	2.0276	0.195	
73.00	444.9	369.4	116.41	2.0205	0.198	
73.50	447.8	372.3	116.43	2.0136	0.201	
74.00	450.8	375.3	116.46	2.0068	0.203	
74.50	453.8	378.3	116.49	2.0000	0.206	
75.00	456.8	381.3	116.49	1.9933	0.209	
75.50	459.7	384.3	116.50	1.9868	0.211	
76.00	462.7	387.2	116.53	1.9803	0.214	
76.50	465.7	390.2	116.54	1.9739	0.217	
77.00	468.6	393.1	116.55	1.9675	0.220	
77.50	471.5	396.0	116.56	1.9613	0.222	
78.00	474.4	398.9	116.57	1.9551	0.225	
78.50	477.3	401.8	116.59	1.9490	0.228	
79.00	480.2	404.8	116.60	1.9430	0.231	
79.50	483.2	407.7	116.63	1.9371	0.233	
80.00	486.1	410.6	116.62	1.9312	0.236	
80.50	489.1	413.6	116.62	1.9255	0.239	
81.00	492.0	416.5	116.65	1.9198	0.242	
81.50	495.0	419.5	116.64	1.9141	0.245	
82.00	497.9	422.5	116.68	1.9085	0.248	
82.50	500.9	425.4	116.69	1.9030	0.251	
83.00	503.9	428.4	116.70	1.8976	0.254	
83.50	506.9	431.4	116.71	1.8922	0.257	
84.00	509.8	434.3	116.72	1.8869	0.260	
84.50	512.7	437.2	116.73	1.8817	0.263	
85.00	515.6	440.1	116.75	1.8765	0.266	
85.50	518.5	443.1	116.75	1.8713	0.269	
86.00	521.5	446.0	116.77	1.8663	0.272	
86.50	524.5	449.0	116.77	1.8613	0.275	
87.00	527.4	451.9	116.81	1.8563	0.278	
87.50	530.3	454.8	116.82	1.8514	0.281	
88.00	533.2	457.7	116.81	1.8466	0.284	
88.50	536.1	460.6	116.83	1.8418	0.287	
89.00	539.1	463.6	116.85	1.8371	0.291	
89.50	542.0	466.5	116.86	1.8324	0.294	
90.00	545.0	469.5	116.87	1.8278	0.297	
90.50	547.9	472.4	116.87	1.8232	0.300	
91.00	550.8	475.3	116.88	1.8187	0.303	
91.50	553.8	478.3	116.89	1.8142	0.307	
***** End Shut-in 2	92.00	556.7	481.2	116.89	1.8098	0.310
***** Final Hydro.	373.50	2417.4	0.0	117.38		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10890

Well Name & No.	<u>MLP SANTALA # 2-26</u>	Test No.	<u>3</u>	Date	<u>1-22-98</u>
Company	<u>HUGOTON Energy Corp.</u>	Zone Tested	<u>MORROW</u>		
Address	<u>301 N. MAIN, SUITE 1800 WICHITA, KS 67202</u>	Elevation	<u>2889</u>	KB	<u>2878</u> GL
Co. Rep / Geo.	<u>DOUG DAVIS</u>	Cont.	<u>MURFIN rig 20</u>	Est. Ft. of Pay	___ Por. ___ %
Location: Sec.	<u>28</u>	Twp.	<u>29^s</u>	Rge.	<u>34^w</u>
			Co.	<u>HASKELL</u>	State <u>Ks</u>
No. of Copies	<u>Req</u>	Distribution Sheet (Y, N)	___	Turnkey (Y, N)	<u>N</u>
		Evaluation (Y, N)	___		

Interval Tested	<u>5190 - 5304</u>	Initial Str Wt./Lbs.	<u>55000</u>	Unseated Str Wt./Lbs.	<u>60000</u>
Anchor Length	<u>114</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>110000</u>
Top Packer Depth	<u>5185</u>	Tool Weight	<u>2900</u>		
Bottom Packer Depth	<u>5190</u>	Hole Size — 7 7/8"	___	Rubber Size — 6 3/4"	___
Total Depth	<u>5304</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>180</u>
Mud Wt.	<u>9</u>	LCM	<u>3</u>	Vis.	<u>59</u>
		WL	<u>6.4</u>	Drill Pipe Size	<u>4 1/2 X P</u>
				Ft. Run	<u>5010</u>

Blow Description

IFP - WEAK building TO A STRONG Blow in 15 min
FFP - FAIR building TO A STRONG Blow in 8 min

Recovery — Total Feet	<u>80</u>	GIP	<u>240</u>	Ft. in DC	<u>80</u>	Ft. in DP	___
Rec.	<u>20</u>	Feet Of	<u>Mud</u>	%gas	___	%oil	___
				%water	___	%mud	___
Rec.	___	Feet Of	___	%gas	___	%oil	___
				%water	___	%mud	___
Rec.	<u>60</u>	Feet Of	<u>50+6CM</u>	<u>5</u> %gas	<u>3</u> %oil	%water	<u>92</u> %mud
Rec.	___	Feet Of	___	%gas	___	%oil	___
				%water	___	%mud	___
Rec.	___	Feet Of	___	%gas	___	%oil	___
				%water	___	%mud	___
BHT	<u>119°</u>	°F Gravity	___	°API D@	___	°F Corrected Gravity	___
				°API	___		___
RW	___	@	___	°F Chlorides	___	ppm Recovery	<u>2000</u>
				ppm System	___		___

(A) Initial Hydrostatic Mud	<u>2505</u>	<u>2504</u>	PSI	Recorder No.	<u>3027</u>	T-Started	<u>1:00 pm</u>
(B) First Initial Flow Pressure	<u>47</u>	<u>104</u>	PSI	(depth)	<u>5196</u>	T-Open	<u>3:20 pm</u>
(C) First Final Flow Pressure	<u>65</u>	<u>104</u>	PSI	Recorder No.	<u>10270</u>	T-Pulled	<u>7:05 pm</u>
(D) Initial Shut-in Pressure	<u>408</u>	<u>406</u>	PSI	(depth)	<u>5301</u>	T-Out	<u>9:30 pm</u>
(E) Second Initial Flow Pressure	<u>62</u>	<u>124</u>	PSI	Recorder No.	___		
(F) Second Final Flow Pressure	<u>75</u>	<u>104</u>	PSI	(depth)	___		
(G) Final Shut-in Pressure	<u>556</u>	<u>551</u>	PSI	Initial Opening	<u>30</u>	Test	<input checked="" type="checkbox"/> <u>800</u>
(H) Final Hydrostatic Mud	<u>2417</u>	<u>2472</u>	PSI	Initial Shut-in	<u>60</u>	Jars	<input checked="" type="checkbox"/> <u>200</u>
	<u>Alpine</u>	<u>AK-1</u>		Final Flow	<u>45</u>	Safety Joint	<input checked="" type="checkbox"/> <u>50</u>
				Final Shut-in	<u>90</u>	Straddle	___

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

onloc - 11:15 am
offloc - 10:20 pm

Circ. Sub ___
Sampler ___

Approved By Douglas Davis
Our Representative Ray Schwager Thankyou

Extra Packer ___
Elect. Rec. 150
Other ___
TOTAL PRICE \$ 1200

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.
 WELL NAME: MLP Santala #2-26
 LOCATION : 28-29s-34w CO Haskell KS
 INTERVAL : 5300.00 To 5428.00 ft

DATE 01-23-199
 KB 2889.00 ft TICKET NO: 10891 DST #4
 GR 2878.00 ft FORMATION: Chester
 TD 5428.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10270	10270	3027			PF Fr. 1350 to 1420 hr
SI 60	Range(Psi)	4150.0	4150.0	4995.0	0.0	0.0	IS Fr. 1420 to 1520 hr
SF 45	Clock(hrs)	12 HR	12hr	Elec			SF Fr. 1520 to 1605 hr
FS 90	Depth(ft)	5310.0	5310.0	5305.0	0.0	0.0	FS Fr. 1605 to 1735 hr

	Field	1	2	3	4	
A. Init Hydro	2546.0	2577.0	2566.0	0.0	0.0	T STARTED 1125 hr
B. First Flow	728.0	753.0	745.0	0.0	0.0	T ON BOTM 1347 hr
B1. Final Flow	759.0	774.0	769.0	0.0	0.0	T. OPEN 1350 hr
C. In Shut-in	1506.0	1495.0	1510.0	0.0	0.0	T PULLED 1735 hr
D. Init Flow	790.0	799.0	724.0	0.0	0.0	T OUT 1915 hr
E. Final Flow	800.0	806.0	785.0	0.0	0.0	
F. Fl Shut-in	1506.0	1509.0	1507.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2441.0	2432.0	2425.0	0.0	0.0	Tool Wt. 2900.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 105000.00 lbs
						Initial Str Wt 58000.00 lbs
						Unseated Str Wt 58000.00 lbs
						Bot Choke 3.40 in
						Hole Size 7.80 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 180.00 ft
						D.P. Length 5120.00 ft

RECOVERY

Tot Fluid 190.00 ft of 180.00 ft in DC and 10.00 ft in DP
 190.00 ft of gas cut mud
 0.00 ft of 15%gas 85%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 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow gas to surface in 3 min.
 Final flow:
 Strong gas to surface

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	60.00 S/L
W.L.	8.40 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 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	Ray Schwager
Co. Rep.	Doug Davis
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: MLP Santala #2-26

LOCATION : 28-29s-34w CO Haskell KS

TICKET No. 10891 D.S.T. No. 4 DATE 01-23-199

TOTAL TOOL TO BOTTOM OF TOP PACKERS 28

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 34

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 94

TOTAL ASSEMBLY 156

D.C. ABOVE TOOLS.Stands3 Single Total 180

D.P. ABOVE TOOLS.Stands Single Total 5118

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5454

TOTAL DEPTH 5428

TOTAL DRILL PIPE ABOVE K.B. 26

REMARKS:

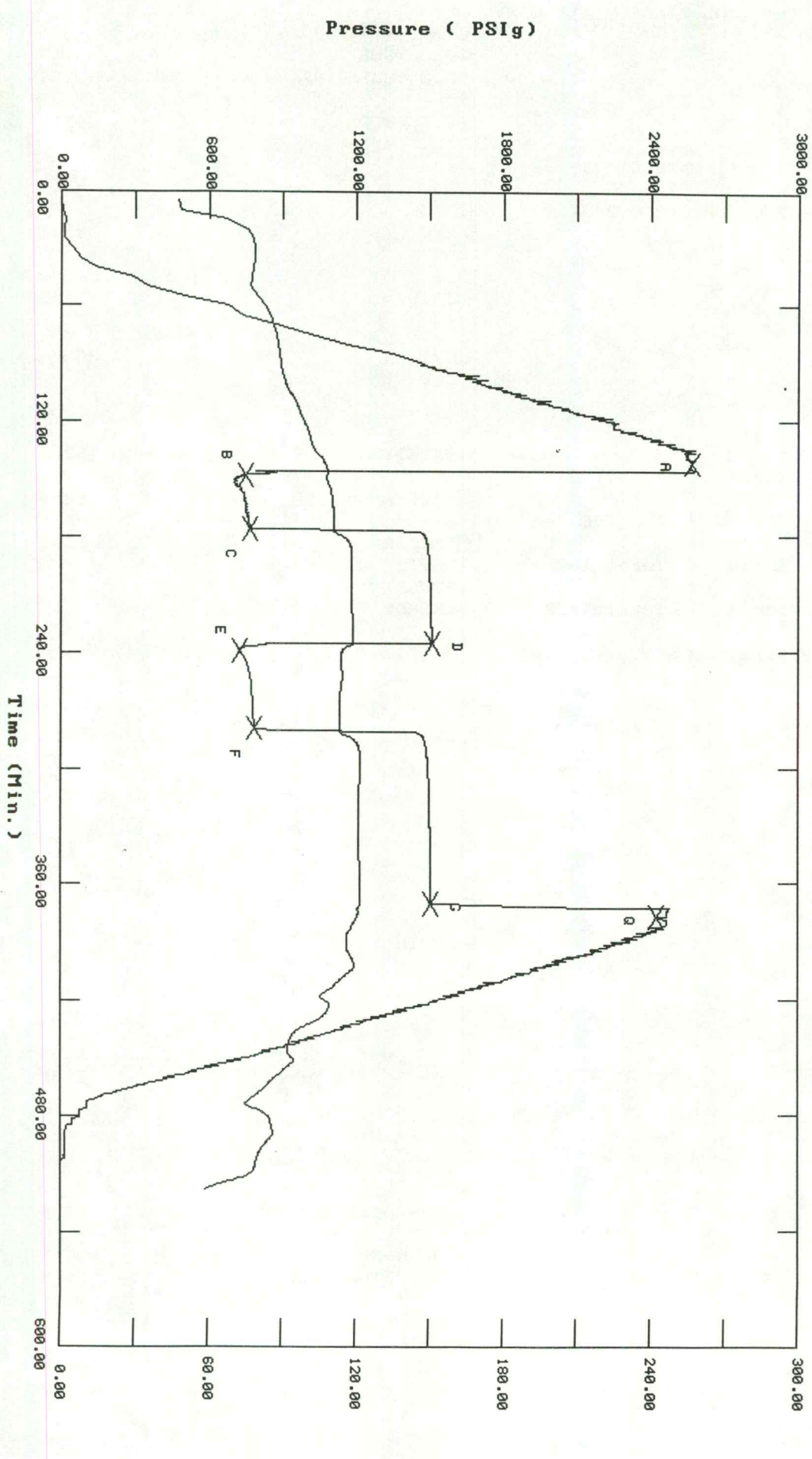
P.O. SUB	
C.O. SUB	5154
S.I. TOOL	5276
HMV	5281
JARS	5286
SAFETY JOINT	5291
PACKER	5295
PACKER	5300
DEPTH	
STUBB	
ANCHOR	
T.C. DEPTH	
6'perf anchor	5306
94'drill pipe	5400
26'perf anchor	5426
BULLNOSE	
T.D. 2'bullplug	5428

TEST HISTORY

10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

Flag Points

t (Min.)	P (PSig)
R: 0.00	2566.51
B: 0.00	745.90
C: 28.00	769.17
D: 59.50	1510.42
E: 0.00	724.29
F: 40.00	785.49
G: 91.00	1507.33
Q: 0.00	2425.82

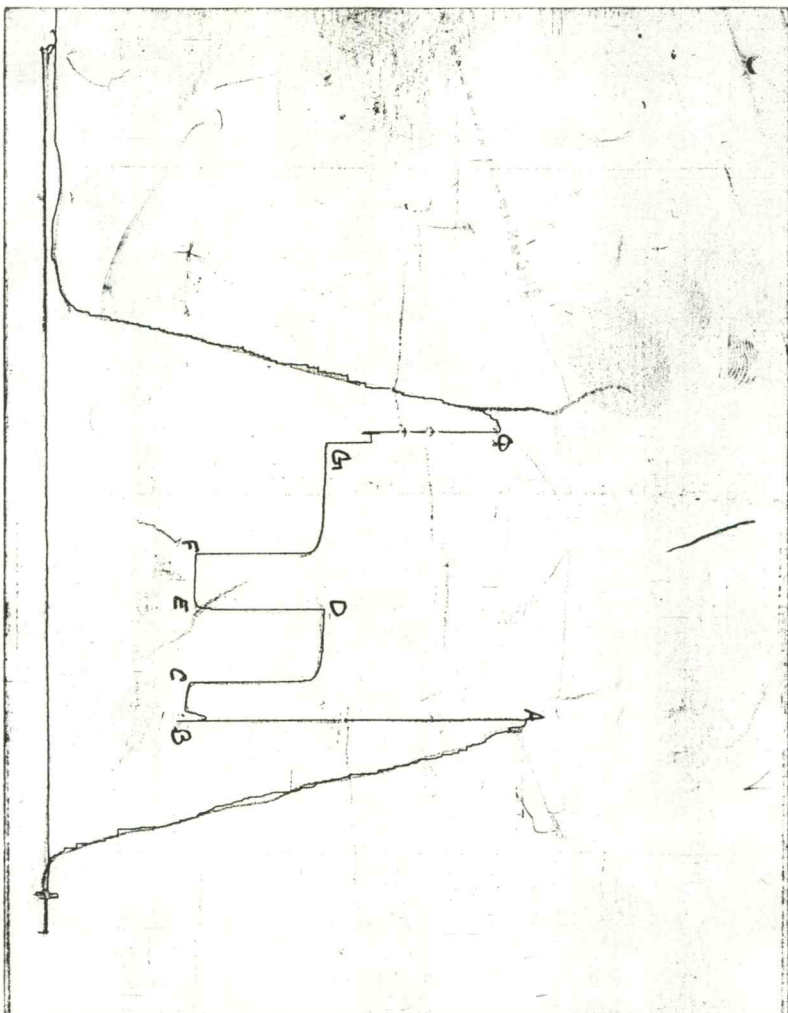


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/23/98 TIME: 11:22:11

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	141.50	2566.5	0.0	107.24		
***** Start Flow 1	0.00	745.9	0.0	108.19		
	0.50	712.5	-33.4	108.06		
	1.00	727.6	-18.3	108.01		
	1.50	715.5	-30.4	108.00		
	2.00	700.1	-45.8	108.06		
	2.50	709.5	-36.4	108.16		
	3.00	709.6	-36.3	108.30		
	3.50	701.5	-44.4	108.43		
	4.00	702.2	-43.7	108.60		
	4.50	710.4	-35.5	108.75		
	5.00	711.2	-34.7	108.92		
	5.50	709.1	-36.8	109.04		
	6.00	719.5	-26.4	109.19		
	6.50	722.6	-23.3	109.32		
	7.00	729.3	-16.6	109.45		
	7.50	731.7	-14.2	109.56		
	8.00	722.2	-23.7	109.66		
	8.50	732.3	-13.6	109.75		
	9.00	736.9	-9.0	109.81		
	9.50	740.0	-5.9	109.91		
	10.00	740.5	-5.4	110.00		
	10.50	739.8	-6.1	110.06		
	11.00	740.7	-5.2	110.12		
	11.50	744.9	-1.0	110.19		
	12.00	742.7	-3.2	110.24		
	12.50	748.1	2.2	110.28		
	13.00	742.9	-3.0	110.33		
	13.50	748.6	2.7	110.37		
	14.00	744.7	-1.2	110.42		
	14.50	746.0	0.1	110.45		
	15.00	746.7	0.8	110.49		
	15.50	752.3	6.4	110.53		
	16.00	748.3	2.4	110.55		
	16.50	754.3	8.4	110.60		
	17.00	751.4	5.5	110.63		
	17.50	748.5	2.6	110.65		
	18.00	749.5	3.6	110.68		
	18.50	757.2	11.3	110.70		
	19.00	751.4	5.5	110.71		
	19.50	758.0	12.1	110.74		
	20.00	751.0	5.1	110.73		
	20.50	754.7	8.8	110.75		
	21.00	761.6	15.7	110.76		
	21.50	754.1	8.2	110.77		
	22.00	756.1	10.2	110.78		
	22.50	759.1	13.2	110.78		
	23.00	758.4	12.5	110.78		
	23.50	759.0	13.1	110.79		
	24.00	763.4	17.5	110.78		
	24.50	761.1	15.2	110.78		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/23/98

TIME: 11:22:11

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.00	760.7	14.8	110.79		
	25.50	763.5	17.6	110.78		
	26.00	763.9	18.0	110.78		
	26.50	763.7	17.8	110.76		
	27.00	768.1	22.2	110.76		
	27.50	766.9	21.0	110.75		
***** End Flow 1	28.00	769.2	23.3	110.74		
***** Start Shutin 1	0.00	769.2	0.0	110.74	0.0000	0.592
	0.50	766.7	-2.5	110.73	57.0000	0.588
	1.00	1346.3	577.1	110.74	29.0000	1.813
	1.50	1450.4	681.2	110.95	19.6667	2.104
	2.00	1466.1	697.0	111.46	15.0000	2.150
	2.50	1472.6	703.5	112.22	12.2000	2.169
	3.00	1476.7	707.5	113.05	10.3333	2.181
	3.50	1479.5	710.3	113.85	9.0000	2.189
	4.00	1481.8	712.6	114.52	8.0000	2.196
	4.50	1483.6	714.4	115.14	7.2222	2.201
	5.00	1485.1	716.0	115.66	6.6000	2.206
	5.50	1486.5	717.3	116.11	6.0909	2.210
	6.00	1487.6	718.5	116.45	5.6667	2.213
	6.50	1488.7	719.5	116.77	5.3077	2.216
	7.00	1489.6	720.4	117.03	5.0000	2.219
	7.50	1490.4	721.2	117.25	4.7333	2.221
	8.00	1491.1	722.0	117.45	4.5000	2.223
	8.50	1491.8	722.6	117.60	4.2941	2.226
	9.00	1492.4	723.3	117.76	4.1111	2.227
	9.50	1493.1	723.9	117.87	3.9474	2.229
	10.00	1493.6	724.4	117.97	3.8000	2.231
	10.50	1494.1	724.9	118.06	3.6667	2.232
	11.00	1494.6	725.4	118.13	3.5455	2.234
	11.50	1495.0	725.8	118.19	3.4348	2.235
	12.00	1495.4	726.2	118.23	3.3333	2.236
	12.50	1495.8	726.6	118.27	3.2400	2.237
	13.00	1496.2	727.0	118.28	3.1538	2.239
	13.50	1496.5	727.3	118.32	3.0741	2.240
	14.00	1496.8	727.7	118.34	3.0000	2.241
	14.50	1497.2	728.0	118.32	2.9310	2.241
	15.00	1497.5	728.3	118.34	2.8667	2.242
	15.50	1497.8	728.6	118.34	2.8065	2.243
	16.00	1498.0	728.9	118.34	2.7500	2.244
	16.50	1498.3	729.1	118.34	2.6970	2.245
	17.00	1498.5	729.4	118.34	2.6471	2.246
	17.50	1498.8	729.6	118.34	2.6000	2.246
	18.00	1499.0	729.9	118.33	2.5556	2.247
	18.50	1499.3	730.1	118.33	2.5135	2.248
	19.00	1499.5	730.3	118.34	2.4737	2.249
	19.50	1499.7	730.6	118.30	2.4359	2.249
	20.00	1500.0	730.8	118.30	2.4000	2.250
	20.50	1500.1	731.0	118.31	2.3659	2.250
	21.00	1500.3	731.2	118.28	2.3333	2.251
	21.50	1500.5	731.4	118.30	2.3023	2.252

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/23/98 TIME: 11:22:11

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
22.00	1500.7	731.6	118.27	2.2727	2.252
22.50	1500.9	731.7	118.28	2.2444	2.253
23.00	1501.1	731.9	118.25	2.2174	2.253
23.50	1501.2	732.1	118.27	2.1915	2.254
24.00	1501.4	732.2	118.26	2.1667	2.254
24.50	1501.6	732.4	118.26	2.1429	2.255
25.00	1501.7	732.6	118.25	2.1200	2.255
25.50	1501.9	732.7	118.23	2.0980	2.256
26.00	1502.0	732.9	118.23	2.0769	2.256
26.50	1502.1	733.0	118.23	2.0566	2.256
27.00	1502.3	733.1	118.24	2.0370	2.257
27.50	1502.4	733.2	118.23	2.0182	2.257
28.00	1502.5	733.4	118.23	2.0000	2.258
28.50	1502.6	733.5	118.23	1.9825	2.258
29.00	1502.8	733.6	118.23	1.9655	2.258
29.50	1502.9	733.7	118.22	1.9492	2.259
30.00	1503.0	733.8	118.21	1.9333	2.259
30.50	1503.1	733.9	118.21	1.9180	2.259
31.00	1503.3	734.1	118.21	1.9032	2.260
31.50	1503.4	734.2	118.21	1.8889	2.260
32.00	1503.5	734.3	118.23	1.8750	2.261
32.50	1503.7	734.5	118.21	1.8615	2.261
33.00	1503.8	734.6	118.22	1.8485	2.261
33.50	1503.9	734.8	118.23	1.8358	2.262
34.00	1504.1	734.9	118.23	1.8235	2.262
34.50	1504.2	735.1	118.24	1.8116	2.263
35.00	1504.3	735.2	118.24	1.8000	2.263
35.50	1504.5	735.3	118.26	1.7887	2.263
36.00	1504.6	735.5	118.24	1.7778	2.264
36.50	1504.8	735.6	118.26	1.7671	2.264
37.00	1504.9	735.7	118.27	1.7568	2.265
37.50	1505.1	735.9	118.27	1.7467	2.265
38.00	1505.2	736.0	118.29	1.7368	2.266
38.50	1505.4	736.2	118.29	1.7273	2.266
39.00	1505.5	736.3	118.30	1.7179	2.266
39.50	1505.6	736.4	118.32	1.7089	2.267
40.00	1505.7	736.6	118.32	1.7000	2.267
40.50	1505.9	736.7	118.34	1.6914	2.268
41.00	1506.0	736.9	118.34	1.6829	2.268
41.50	1506.2	737.0	118.36	1.6747	2.268
42.00	1506.3	737.1	118.38	1.6667	2.269
42.50	1506.4	737.2	118.39	1.6588	2.269
43.00	1506.5	737.4	118.42	1.6512	2.270
43.50	1506.7	737.5	118.42	1.6437	2.270
44.00	1506.8	737.6	118.42	1.6364	2.270
44.50	1506.9	737.8	118.44	1.6292	2.271
45.00	1507.1	737.9	118.45	1.6222	2.271
45.50	1507.2	738.0	118.47	1.6154	2.272
46.00	1507.3	738.2	118.49	1.6087	2.272
46.50	1507.5	738.3	118.51	1.6022	2.272
47.00	1507.6	738.4	118.51	1.5957	2.273

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/23/98

TIME: 11:22:11

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
47.50	1507.7	738.5	118.53	1.5895	2.273
48.00	1507.8	738.6	118.53	1.5833	2.274
48.50	1508.0	738.8	118.55	1.5773	2.274
49.00	1508.1	738.9	118.57	1.5714	2.274
49.50	1508.2	739.0	118.58	1.5657	2.275
50.00	1508.3	739.2	118.60	1.5600	2.275
50.50	1508.4	739.3	118.61	1.5545	2.275
51.00	1508.6	739.4	118.63	1.5490	2.276
51.50	1508.7	739.5	118.66	1.5437	2.276
52.00	1508.8	739.6	118.66	1.5385	2.277
52.50	1508.9	739.8	118.70	1.5333	2.277
53.00	1509.1	739.9	118.72	1.5283	2.277
53.50	1509.2	740.0	118.77	1.5234	2.278
54.00	1509.3	740.1	118.77	1.5185	2.278
54.50	1509.4	740.2	118.80	1.5138	2.278
55.00	1509.5	740.3	118.81	1.5091	2.279
55.50	1509.7	740.5	118.81	1.5045	2.279
56.00	1509.8	740.6	118.81	1.5000	2.279
56.50	1509.9	740.7	118.81	1.4956	2.280
57.00	1510.0	740.8	118.85	1.4912	2.280
57.50	1510.1	740.9	118.87	1.4870	2.280
58.00	1510.2	741.1	118.91	1.4828	2.281
58.50	1510.4	741.2	118.92	1.4786	2.281
59.00	1510.5	741.3	118.91	1.4746	2.281
59.50	1510.4	741.2	118.93	1.4706	2.281
***** End Shut-in 1					
***** Start Flow 2					
0.00	724.3	0.0	114.46		
0.50	726.3	2.0	114.24		
1.00	728.8	4.5	114.10		
1.50	731.4	7.1	113.97		
2.00	734.4	10.1	113.92		
2.50	736.8	12.5	113.87		
3.00	740.4	16.1	113.88		
3.50	742.4	18.1	113.88		
4.00	745.3	21.0	113.88		
4.50	747.7	23.4	113.88		
5.00	749.7	25.5	113.90		
5.50	751.5	27.2	113.94		
6.00	753.1	28.9	113.96		
6.50	754.8	30.5	114.00		
7.00	755.8	31.5	114.01		
7.50	757.2	32.9	114.04		
8.00	758.2	33.9	114.06		
8.50	759.1	34.8	114.10		
9.00	760.2	35.9	114.13		
9.50	761.4	37.2	114.16		
10.00	762.4	38.1	114.20		
10.50	763.0	38.7	114.22		
11.00	764.5	40.2	114.24		
11.50	764.7	40.4	114.27		
12.00	765.1	40.8	114.28		
12.50	765.8	41.6	114.30		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/23/98

TIME: 11:22:11

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
13.00	766.7	42.4	114.33		
13.50	767.0	42.7	114.36		
14.00	767.2	42.9	114.36		
14.50	768.2	44.0	114.35		
15.00	769.8	45.5	114.32		
15.50	770.2	45.9	114.26		
16.00	770.3	46.0	114.21		
16.50	770.8	46.5	114.13		
17.00	771.0	46.7	114.08		
17.50	771.5	47.2	113.99		
18.00	771.5	47.2	113.91		
18.50	772.0	47.7	113.88		
19.00	773.1	48.8	113.82		
19.50	773.4	49.1	113.75		
20.00	773.3	49.0	113.69		
20.50	773.4	49.1	113.64		
21.00	774.3	50.0	113.58		
21.50	774.5	50.2	113.54		
22.00	774.6	50.3	113.49		
22.50	775.5	51.2	113.45		
23.00	775.6	51.3	113.42		
23.50	775.7	51.4	113.40		
24.00	775.9	51.6	113.36		
24.50	776.0	51.7	113.34		
25.00	776.3	52.0	113.30		
25.50	776.7	52.4	113.30		
26.00	777.1	52.8	113.27		
26.50	777.4	53.2	113.25		
27.00	777.4	53.1	113.21		
27.50	777.7	53.4	113.22		
28.00	778.0	53.7	113.19		
28.50	779.1	54.8	113.19		
29.00	779.2	54.9	113.17		
29.50	779.8	55.5	113.17		
30.00	779.9	55.7	113.14		
30.50	779.9	55.7	113.14		
31.00	780.0	55.7	113.13		
31.50	780.1	55.8	113.13		
32.00	780.1	55.8	113.12		
32.50	780.2	55.9	113.11		
33.00	780.3	56.0	113.11		
33.50	780.6	56.4	113.11		
34.00	780.6	56.3	113.08		
34.50	780.7	56.5	113.08		
35.00	781.5	57.3	113.08		
35.50	782.0	57.7	113.08		
36.00	782.1	57.8	113.06		
36.50	782.1	57.8	113.07		
37.00	782.5	58.2	113.07		
37.50	782.3	58.0	113.06		
38.00	782.3	58.0	113.06		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/23/98

TIME: 11:22:11

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	38.50	782.7	58.4	113.06		
	39.00	783.3	59.0	113.06		
	39.50	783.9	59.6	113.06		
***** End Flow 2	40.00	785.5	61.2	113.06		
***** Start Shutin 2	0.00	785.5	0.0	113.06	0.0000	0.617
	0.50	787.1	1.6	113.06	137.0000	0.620
	1.00	889.3	103.8	113.08	69.0000	0.791
	1.50	1401.4	615.9	113.12	46.3333	1.964
	2.00	1448.0	662.5	113.45	35.0000	2.097
	2.50	1458.0	672.5	114.10	28.2000	2.126
	3.00	1463.7	678.2	114.99	23.6667	2.142
	3.50	1467.5	682.0	115.87	20.4286	2.154
	4.00	1470.4	684.9	116.70	18.0000	2.162
	4.50	1472.7	687.2	117.46	16.1111	2.169
	5.00	1474.7	689.3	118.11	14.6000	2.175
	5.50	1476.4	690.9	118.72	13.3636	2.180
	6.00	1477.9	692.4	119.17	12.3333	2.184
	6.50	1479.2	693.7	119.58	11.4615	2.188
	7.00	1480.4	694.9	119.94	10.7143	2.191
	7.50	1481.4	695.9	120.24	10.0667	2.195
	8.00	1482.4	696.9	120.49	9.5000	2.197
	8.50	1483.3	697.8	120.71	9.0000	2.200
	9.00	1484.1	698.6	120.91	8.5556	2.203
	9.50	1484.8	699.3	121.08	8.1579	2.205
	10.00	1485.5	700.0	121.27	7.8000	2.207
	10.50	1486.2	700.7	121.29	7.4762	2.209
	11.00	1486.7	701.3	121.39	7.1818	2.210
	11.50	1487.3	701.9	121.49	6.9130	2.212
	12.00	1487.9	702.4	121.57	6.6667	2.214
	12.50	1488.4	702.9	121.64	6.4400	2.215
	13.00	1488.8	703.4	121.68	6.2308	2.217
	13.50	1489.3	703.8	121.73	6.0370	2.218
	14.00	1489.8	704.3	121.76	5.8571	2.219
	14.50	1490.2	704.7	121.80	5.6897	2.221
	15.00	1490.6	705.1	121.83	5.5333	2.222
	15.50	1491.0	705.5	121.82	5.3871	2.223
	16.00	1491.4	705.9	121.83	5.2500	2.224
	16.50	1491.7	706.2	121.84	5.1212	2.225
	17.00	1492.1	706.6	121.86	5.0000	2.226
	17.50	1492.4	706.9	121.85	4.8857	2.227
	18.00	1492.7	707.2	121.84	4.7778	2.228
	18.50	1493.0	707.5	121.84	4.6757	2.229
	19.00	1493.3	707.8	121.81	4.5789	2.230
	19.50	1493.6	708.1	121.81	4.4872	2.231
	20.00	1493.8	708.3	121.78	4.4000	2.232
	20.50	1494.1	708.6	121.76	4.3171	2.232
	21.00	1494.4	708.9	121.74	4.2381	2.233
	21.50	1494.6	709.1	121.71	4.1628	2.234
	22.00	1494.9	709.4	121.70	4.0909	2.235
	22.50	1495.1	709.6	121.68	4.0222	2.235
	23.00	1495.3	709.8	121.66	3.9565	2.236

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/23/98 TIME: 11:22:11

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
23.50	1495.6	710.1	121.64	3.8936	2.237
24.00	1495.8	710.3	121.62	3.8333	2.237
24.50	1496.0	710.5	121.60	3.7755	2.238
25.00	1496.2	710.7	121.57	3.7200	2.239
25.50	1496.4	710.9	121.55	3.6667	2.239
26.00	1496.6	711.1	121.54	3.6154	2.240
26.50	1496.8	711.3	121.50	3.5660	2.240
27.00	1497.0	711.5	121.49	3.5185	2.241
27.50	1497.1	711.6	121.47	3.4727	2.241
28.00	1497.3	711.8	121.44	3.4286	2.242
28.50	1497.5	712.0	121.43	3.3860	2.243
29.00	1497.6	712.1	121.42	3.3448	2.243
29.50	1497.8	712.3	121.37	3.3051	2.243
30.00	1497.9	712.4	121.36	3.2667	2.244
30.50	1498.1	712.6	121.34	3.2295	2.244
31.00	1498.3	712.8	121.32	3.1935	2.245
31.50	1498.4	712.9	121.30	3.1587	2.245
32.00	1498.6	713.1	121.28	3.1250	2.246
32.50	1498.7	713.2	121.28	3.0923	2.246
33.00	1498.9	713.4	121.28	3.0606	2.247
33.50	1499.0	713.5	121.28	3.0299	2.247
34.00	1499.1	713.6	121.28	3.0000	2.247
34.50	1499.2	713.7	121.28	2.9710	2.248
35.00	1499.4	713.9	121.28	2.9429	2.248
35.50	1499.5	714.0	121.28	2.9155	2.248
36.00	1499.6	714.1	121.28	2.8889	2.249
36.50	1499.7	714.3	121.27	2.8630	2.249
37.00	1499.8	714.4	121.28	2.8378	2.250
37.50	1500.0	714.5	121.28	2.8133	2.250
38.00	1500.1	714.6	121.27	2.7895	2.250
38.50	1500.2	714.7	121.27	2.7662	2.251
39.00	1500.3	714.8	121.28	2.7436	2.251
39.50	1500.4	714.9	121.24	2.7215	2.251
40.00	1500.5	715.0	121.24	2.7000	2.252
40.50	1500.7	715.2	121.24	2.6790	2.252
41.00	1500.7	715.3	121.22	2.6585	2.252
41.50	1500.8	715.4	121.22	2.6386	2.253
42.00	1500.9	715.4	121.21	2.6190	2.253
42.50	1501.0	715.5	121.22	2.6000	2.253
43.00	1501.1	715.6	121.21	2.5814	2.253
43.50	1501.2	715.7	121.20	2.5632	2.254
44.00	1501.3	715.8	121.22	2.5455	2.254
44.50	1501.4	715.9	121.19	2.5281	2.254
45.00	1501.5	716.0	121.22	2.5111	2.254
45.50	1501.6	716.1	121.22	2.4945	2.255
46.00	1501.7	716.2	121.18	2.4783	2.255
46.50	1501.8	716.3	121.20	2.4624	2.255
47.00	1501.9	716.4	121.26	2.4468	2.256
47.50	1502.0	716.5	121.24	2.4316	2.256
48.00	1502.0	716.5	121.22	2.4167	2.256
48.50	1502.1	716.6	121.22	2.4021	2.256

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.

DATE: 01/23/98

TIME: 11:22:11

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
49.00	1502.2	716.7	121.24	2.3878	2.257
49.50	1502.3	716.8	121.24	2.3737	2.257
50.00	1502.4	716.9	121.23	2.3600	2.257
50.50	1502.4	717.0	121.24	2.3465	2.257
51.00	1502.5	717.1	121.22	2.3333	2.258
51.50	1502.6	717.1	121.25	2.3204	2.258
52.00	1502.7	717.2	121.26	2.3077	2.258
52.50	1502.8	717.3	121.25	2.2952	2.258
53.00	1502.9	717.4	121.28	2.2830	2.259
53.50	1502.9	717.5	121.28	2.2710	2.259
54.00	1503.0	717.5	121.28	2.2593	2.259
54.50	1503.1	717.6	121.27	2.2477	2.259
55.00	1503.1	717.7	121.28	2.2364	2.259
55.50	1503.2	717.7	121.28	2.2252	2.260
56.00	1503.3	717.8	121.28	2.2143	2.260
56.50	1503.4	717.9	121.28	2.2035	2.260
57.00	1503.4	718.0	121.28	2.1930	2.260
57.50	1503.5	718.0	121.28	2.1826	2.261
58.00	1503.6	718.1	121.28	2.1724	2.261
58.50	1503.7	718.2	121.28	2.1624	2.261
59.00	1503.7	718.2	121.28	2.1525	2.261
59.50	1503.8	718.3	121.28	2.1429	2.261
60.00	1503.9	718.4	121.28	2.1333	2.262
60.50	1503.9	718.5	121.28	2.1240	2.262
61.00	1504.0	718.5	121.28	2.1148	2.262
61.50	1504.1	718.6	121.28	2.1057	2.262
62.00	1504.2	718.7	121.28	2.0968	2.263
62.50	1504.3	718.8	121.28	2.0880	2.263
63.00	1504.3	718.8	121.30	2.0794	2.263
63.50	1504.4	718.9	121.32	2.0709	2.263
64.00	1504.5	719.0	121.30	2.0625	2.264
64.50	1504.6	719.1	121.33	2.0543	2.264
65.00	1504.6	719.1	121.34	2.0462	2.264
65.50	1504.7	719.2	121.35	2.0382	2.264
66.00	1504.8	719.3	121.35	2.0303	2.264
66.50	1504.9	719.4	121.40	2.0226	2.265
67.00	1504.9	719.4	121.39	2.0149	2.265
67.50	1505.0	719.5	121.41	2.0074	2.265
68.00	1505.1	719.6	121.41	2.0000	2.265
68.50	1505.1	719.6	121.43	1.9927	2.265
69.00	1505.2	719.7	121.45	1.9855	2.266
69.50	1505.3	719.8	121.47	1.9784	2.266
70.00	1505.4	719.9	121.48	1.9714	2.266
70.50	1505.5	720.0	121.49	1.9645	2.266
71.00	1505.5	720.0	121.50	1.9577	2.267
71.50	1505.6	720.1	121.51	1.9510	2.267
72.00	1505.7	720.2	121.50	1.9444	2.267
72.50	1505.7	720.2	121.53	1.9379	2.267
73.00	1505.8	720.3	121.55	1.9315	2.267
73.50	1505.9	720.4	121.56	1.9252	2.268
74.00	1505.9	720.4	121.58	1.9189	2.268

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10891 DST#4 MLP Santala #2-26 Hugoton Energy Corp.
 DATE: 01/23/98 TIME: 11:22:11

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
74.50	1506.0	720.5	121.58	1.9128	2.268
75.00	1506.1	720.6	121.61	1.9067	2.268
75.50	1506.2	720.7	121.61	1.9007	2.269
76.00	1506.3	720.8	121.63	1.8947	2.269
76.50	1506.3	720.8	121.64	1.8889	2.269
77.00	1506.4	720.9	121.64	1.8831	2.269
77.50	1506.5	721.0	121.66	1.8774	2.270
78.00	1506.6	721.1	121.68	1.8718	2.270
78.50	1506.6	721.1	121.69	1.8662	2.270
79.00	1506.7	721.2	121.70	1.8608	2.270
79.50	1506.8	721.3	121.70	1.8553	2.270
80.00	1506.9	721.4	121.72	1.8500	2.271
80.50	1506.9	721.4	121.73	1.8447	2.271
81.00	1507.0	721.5	121.75	1.8395	2.271
81.50	1507.1	721.6	121.75	1.8344	2.271
82.00	1507.1	721.6	121.77	1.8293	2.271
82.50	1507.2	721.7	121.77	1.8242	2.272
83.00	1507.3	721.8	121.80	1.8193	2.272
83.50	1507.3	721.8	121.81	1.8144	2.272
84.00	1507.4	721.9	121.83	1.8095	2.272
84.50	1507.5	722.0	121.81	1.8047	2.272
85.00	1507.5	722.0	121.83	1.8000	2.273
85.50	1507.6	722.1	121.85	1.7953	2.273
86.00	1507.7	722.2	121.85	1.7907	2.273
86.50	1507.8	722.3	121.89	1.7861	2.273
87.00	1507.8	722.3	121.88	1.7816	2.273
87.50	1507.9	722.4	121.90	1.7771	2.274
88.00	1508.0	722.5	121.92	1.7727	2.274
88.50	1508.0	722.5	121.93	1.7684	2.274
89.00	1508.1	722.6	121.95	1.7640	2.274
89.50	1508.2	722.7	121.95	1.7598	2.275
90.00	1508.2	722.7	121.96	1.7556	2.275
90.50	1508.3	722.8	121.98	1.7514	2.275
91.00	1507.3	721.8	121.99	1.7473	2.272
***** End Shut-in 2					
***** Final Hydro.	377.50	2425.8	0.0	120.27	

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10891

Well Name & No. MLP SANTALA #2-26 Test No. 4 Date 1-23-98
 Company Hugo Tom Energy Corp. Zone Tested Chester
 Address 301 N. MAIN, Suite 1800 Wichita, Ks 67202 Elevation 2889 KB 2878 GL
 Co. Rep / Geo. Doug Davis Cont. Murfin rig 20 Est. Ft. of Pay Por. %
 Location: Sec. 28 Twp. 29 Rge. 34 Co. Haskell State Ks
 No. of Copies Reg Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 5300 - 5428 Initial Str Wt./Lbs. 58000 Unseated Str Wt./Lbs. 58000
 Anchor Length 128 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 105000
 Top Packer Depth 5295 Tool Weight 2900
 Bottom Packer Depth 5300 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5428 Wt. Pipe Run Drill Collar Run 180
 Mud Wt. 9.1 LCM 4 Vis. 60 WL 8.4 Drill Pipe Size 4 1/2 XH Ft. Run 5120
 Blow Description IFF - Strong Blow gas to surface in 3 min
FFP - Strong gas to surface

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>190</u>	<u> </u>	<u>180</u>	<u>10</u>
Rec. <u>190</u> Feet Of <u>Gas cut mud</u>		15 %gas	%oil
Rec. <u> </u> Feet Of <u> </u>		%gas	%oil
Rec. <u> </u> Feet Of <u> </u>		%gas	%oil
Rec. <u> </u> Feet Of <u> </u>		%gas	%oil
Rec. <u> </u> Feet Of <u> </u>		%gas	%oil
BHT <u> </u> °F Gravity <u> </u>		%gas	%oil
RW <u> </u> @ <u> </u> °F Chlorides <u> </u>		%gas	%oil
		%water	%mud

°F Corrected Gravity °API
 (A) Initial Hydrostatic Mud 2566 | 2546 PSI Recorder No. 3027 Chlorides 1400 ppm System
 (B) First Initial Flow Pressure 745 | 728 PSI (depth) 5305 T-Started 11:25 AM
 (C) First Final Flow Pressure 769 | 759 PSI Recorder No. 10270 T-Open 1:50 pm
 (D) Initial Shut-in Pressure 1510 | 1506 PSI (depth) 5310 T-Pulled 5:35 pm
 (E) Second Initial Flow Pressure 724 | 790 PSI Recorder No. T-Out 8:15 pm
 (F) Second Final Flow Pressure 785 | 800 PSI (depth)
 (G) Final Shut-in Pressure 1507 | 1506 PSI Initial Opening 30 Test 800
 (H) Final Hydrostatic Mud 2425 | 2441 PSI Initial Shut-in 60 Jars 200
Alpine AK-1 Final Flow 45 Safety Joint 50
 Final Shut-in 90 Straddle
 Circ. Sub
 Sampler
 Extra Packer
 Elect. Rec. 150
 Other
 TOTAL PRICE \$ 1200

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND TO THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Douglas Davis
 Representative Ray Schwager Thank you

on loc: 10:40 AM
 off loc: 9:15 PM