

WELL NAME: MLP Black 7-3
COMPANY: Hugoton Energy Corp
LOCATION: 3-30S-34W
Haskell County, Kansas
DATE: 3/23/98

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.

DATE 3-17-98

WELL NAME: MLP Black 7-3

KB 2987.00 ft

TICKET NO: 11220

DST #1

LOCATION : 3-30-34

GR 2977.00 ft

FORMATION: morrow

INTERVAL : 5182.00 To 5301.00 ft

TD 5301.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2342			PF Fr. 0225 to 0255 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0255 to 0355 hr
SF 45 Clock(hrs)	12	12 hr	alpin			SF Fr. 0355 to 0440 hr
FS 90 Depth(ft)	5298.0	5298.0	5202.0	0.0	0.0	FS Fr. 0440 to 0610 hr

	Field	1	2	3	4	
A. Init Hydro	2625.0	2606.0	2619.0	0.0	0.0	T STARTED 2310 hr
B. First Flow	66.0	117.0	47.0	0.0	0.0	T ON BOTM 0222 hr
B1. Final Flow	111.0	102.0	69.0	0.0	0.0	T OPEN 0225 hr
C. In Shut-in	895.0	875.0	881.0	0.0	0.0	T PULLED 0610 hr
D. Init Flow	122.0	131.0	73.0	0.0	0.0	T OUT 0920 hr
E. Final Flow	144.0	131.0	107.0	0.0	0.0	
F. Fl Shut-in	816.0	807.0	823.0	0.0	0.0	
G. Final Hydro	2603.0	2566.0	2518.0	0.0	0.0	TOOL DATA-----
Inside/Outside	i	I	o			Tool Wt. 5000.00 lbs
						Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 71000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.50 in
						D.C. Length 246.00 ft
						D.P. Length 5017.00 ft

RECOVERY

Tot Fluid 140.00 ft of 140.00 ft in DC and 0.00 ft in DP
 20.00 ft of slightly gassy drilling mud 5%gas 95%mud
 120.00 ft of slightly gassy drilling mud w/trace of oil
 0.00 ft of 10% gas 90% mud trace of oil
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of 400' gas in pipe
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:

Bottom of bucket in 21 minutes

Initial Shutin:

Bled off for 2 minutes no return

Final Flow:

Bottom of bucket at open

Final Shutin:

Bled off for 2 minutes no return

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	chem
Weight	9.10 lb/c
Vis.	58.00 S/L
W.L.	5.00 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Wes Hansen
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

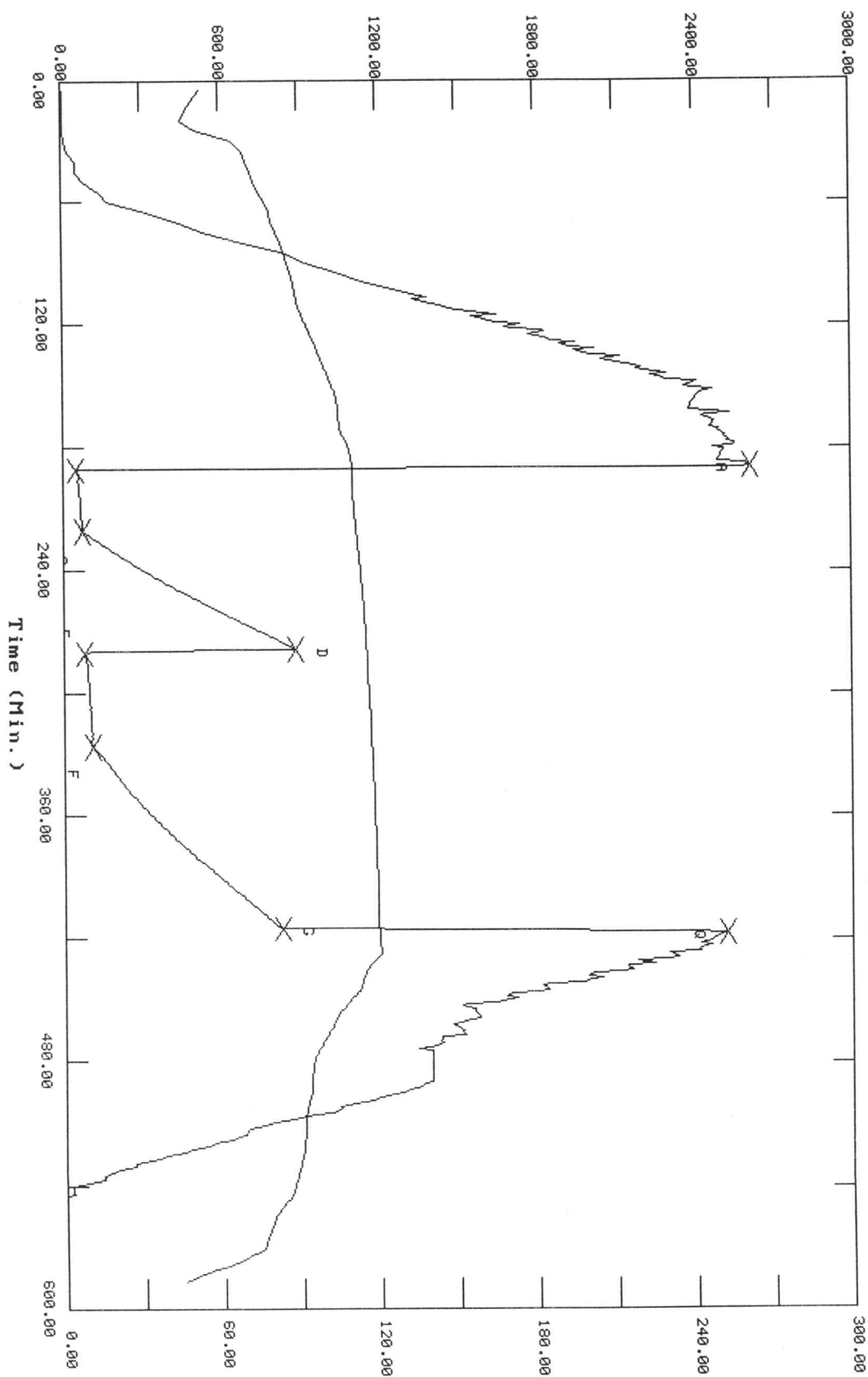
Test Successful: Y

11220 DST #1 MLP Black #7-3 Hugoton Energy Corp.

TEST HISTORY

Flag Points
t(Min.) P(PSig)

A:	0.00	2619.03
B:	0.00	47.59
C:	30.00	69.46
D:	58.00	881.52
E:	0.00	73.20
F:	45.00	107.07
G:	89.00	823.80
H:	0.00	2518.07

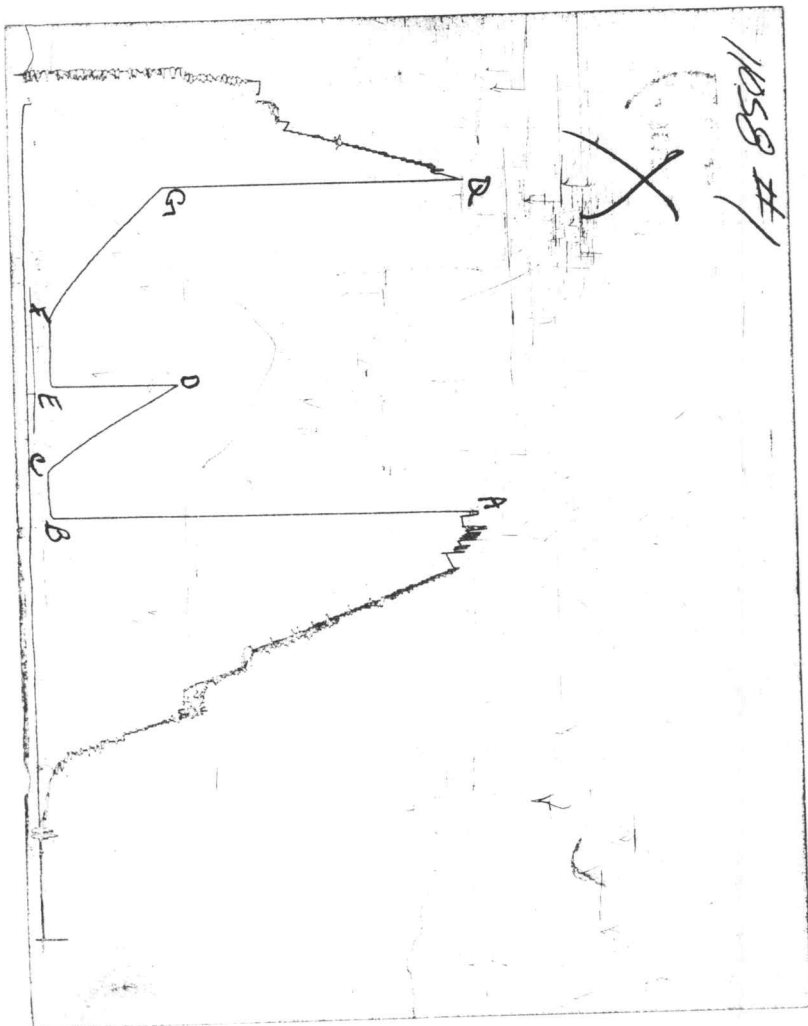


Pressure (PSig)

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: 11220 DST #1 MLP Black #7-3 Hugoton Energy Corp.

DATE: 03/17/98 TIME: 22:01:59

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	189.00	2619.0	0.0	110.12		
***** Start Flow 1	0.00	47.6	0.0	110.21		
	1.00	49.5	1.9	110.25		
	2.00	52.9	5.3	110.25		
	3.00	56.5	8.9	110.26		
	4.00	58.0	10.4	110.26		
	5.00	54.2	6.6	110.28		
	6.00	54.3	6.7	110.29		
	7.00	55.3	7.8	110.30		
	8.00	56.4	8.8	110.32		
	9.00	57.1	9.5	110.35		
	10.00	58.2	10.6	110.38		
	11.00	59.1	11.5	110.40		
	12.00	60.0	12.4	110.45		
	13.00	60.0	12.4	110.49		
	14.00	61.0	13.4	110.52		
	15.00	61.6	14.1	110.58		
	16.00	62.2	14.6	110.63		
	17.00	62.6	15.0	110.69		
	18.00	63.3	15.7	110.75		
	19.00	64.2	16.6	110.81		
	20.00	64.2	16.6	110.88		
	21.00	65.5	17.9	110.95		
	22.00	65.1	17.5	111.01		
	23.00	66.3	18.7	111.10		
	24.00	66.4	18.8	111.16		
	25.00	66.8	19.2	111.24		
	26.00	67.5	19.9	111.32		
	27.00	67.6	20.0	111.40		
	28.00	69.4	21.8	111.48		
	29.00	69.2	21.6	111.57		
***** End Flow 1	30.00	69.5	21.9	111.65		
***** Start Shutin 1	0.00	69.5	0.0	111.65	0.0000	0.005
	1.00	80.7	11.2	111.73	31.0000	0.007
	2.00	94.4	24.9	111.81	16.0000	0.009
	3.00	107.1	37.7	111.89	11.0000	0.011
	4.00	119.1	49.6	111.98	8.5000	0.014
	5.00	131.1	61.6	112.07	7.0000	0.017
	6.00	143.0	73.5	112.16	6.0000	0.020
	7.00	154.8	85.3	112.24	5.2857	0.024
	8.00	166.6	97.2	112.32	4.7500	0.028
	9.00	178.5	109.0	112.40	4.3333	0.032
	10.00	190.4	121.0	112.49	4.0000	0.036
	11.00	202.5	133.0	112.56	3.7273	0.041
	12.00	214.6	145.2	112.65	3.5000	0.046
	13.00	226.7	157.3	112.72	3.3077	0.051
	14.00	239.1	169.7	112.80	3.1429	0.057
	15.00	251.4	181.9	112.88	3.0000	0.063
	16.00	264.0	194.6	112.96	2.8750	0.070
	17.00	274.6	205.2	113.03	2.7647	0.075
	18.00	287.5	218.1	113.10	2.6667	0.083

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11220 DST #1 MLP Black #7-3 Hugoton Energy Corp.

DATE: 03/17/98 TIME: 22:01:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	300.4	230.9	113.17	2.5789	0.090
	20.00	313.6	244.2	113.25	2.5000	0.098
	21.00	326.8	257.4	113.31	2.4286	0.107
	22.00	340.2	270.8	113.39	2.3636	0.116
	23.00	353.8	284.3	113.46	2.3043	0.125
	24.00	367.4	298.0	113.53	2.2500	0.135
	25.00	381.2	311.8	113.59	2.2000	0.145
	26.00	395.3	325.9	113.67	2.1538	0.156
	27.00	409.5	340.1	113.73	2.1111	0.168
	28.00	423.7	354.3	113.80	2.0714	0.180
	29.00	438.2	368.7	113.86	2.0345	0.192
	30.00	452.9	383.4	113.93	2.0000	0.205
	31.00	467.8	398.4	113.99	1.9677	0.219
	32.00	483.1	413.6	114.05	1.9375	0.233
	33.00	498.1	428.7	114.12	1.9091	0.248
	34.00	513.3	443.8	114.19	1.8824	0.263
	35.00	528.5	459.0	114.24	1.8571	0.279
	36.00	543.9	474.4	114.30	1.8333	0.296
	37.00	559.2	489.7	114.36	1.8108	0.313
	38.00	574.6	505.2	114.42	1.7895	0.330
	39.00	590.2	520.8	114.48	1.7692	0.348
	40.00	606.0	536.5	114.53	1.7500	0.367
	41.00	621.2	551.7	114.58	1.7317	0.386
	42.00	636.5	567.1	114.64	1.7143	0.405
	43.00	652.0	582.5	114.69	1.6977	0.425
	44.00	667.6	598.1	114.75	1.6818	0.446
	45.00	683.0	613.6	114.80	1.6667	0.467
	46.00	698.6	629.1	114.84	1.6522	0.488
	47.00	714.0	644.6	114.90	1.6383	0.510
	48.00	729.6	660.1	114.95	1.6250	0.532
	49.00	745.1	675.6	115.00	1.6122	0.555
	50.00	760.5	691.0	115.05	1.6000	0.578
	51.00	775.8	706.4	115.10	1.5882	0.602
	52.00	791.3	721.8	115.14	1.5769	0.626
	53.00	806.6	737.1	115.19	1.5660	0.651
	54.00	821.7	752.2	115.23	1.5556	0.675
	55.00	836.8	767.4	115.28	1.5455	0.700
	56.00	851.6	782.1	115.33	1.5357	0.725
	57.00	866.4	796.9	115.37	1.5263	0.751
***** End Shut-in 1	58.00	881.5	812.1	115.41	1.5172	0.777
***** Start Flow 2	0.00	73.2	0.0	115.47		
	1.00	75.6	2.4	115.48		
	2.00	78.8	5.5	115.47		
	3.00	80.8	7.6	115.47		
	4.00	84.2	11.0	115.46		
	5.00	84.9	11.7	115.47		
	6.00	87.5	14.3	115.47		
	7.00	86.1	12.9	115.48		
	8.00	88.5	15.3	115.50		
	9.00	88.7	15.5	115.52		
	10.00	88.2	15.0	115.56		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11220 DST #1 MLP Black #7-3 Hugoton Energy Corp.

DATE: 03/17/98 TIME: 22:01:59

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	11.00	90.6	17.4	115.61		
	12.00	90.0	16.8	115.68		
	13.00	89.5	16.3	115.76		
	14.00	91.3	18.1	115.85		
	15.00	92.0	18.8	115.95		
	16.00	93.7	20.5	116.03		
	17.00	94.4	21.2	116.11		
	18.00	92.3	19.1	116.18		
	19.00	95.0	21.8	116.24		
	20.00	95.5	22.3	116.30		
	21.00	94.4	21.2	116.34		
	22.00	96.4	23.2	116.40		
	23.00	94.2	21.0	116.44		
	24.00	95.3	22.1	116.48		
	25.00	95.6	22.4	116.52		
	26.00	97.0	23.8	116.56		
	27.00	95.0	21.8	116.60		
	28.00	98.6	25.4	116.63		
	29.00	98.9	25.7	116.67		
	30.00	99.8	26.6	116.70		
	31.00	99.9	26.7	116.74		
	32.00	101.7	28.5	116.77		
	33.00	98.9	25.7	116.80		
	34.00	99.6	26.4	116.84		
	35.00	98.9	25.7	116.87		
	36.00	101.5	28.3	116.90		
	37.00	101.3	28.1	116.94		
	38.00	98.8	25.6	116.97		
	39.00	102.8	29.6	117.01		
	40.00	99.2	26.0	117.04		
	41.00	104.5	31.3	117.07		
	42.00	102.0	28.8	117.10		
	43.00	102.2	29.0	117.14		
	44.00	102.1	28.9	117.18		
***** End Flow 2	45.00	107.1	33.9	117.21		
***** Start Shutin 2	0.00	107.1	0.0	117.21	0.0000	0.011
	1.00	114.2	7.1	117.24	76.0000	0.013
	2.00	120.6	13.5	117.27	38.5000	0.015
	3.00	126.8	19.7	117.32	26.0000	0.016
	4.00	133.0	25.9	117.35	19.7500	0.018
	5.00	139.0	31.9	117.38	16.0000	0.019
	6.00	145.1	38.0	117.42	13.5000	0.021
	7.00	151.0	43.9	117.46	11.7143	0.023
	8.00	156.9	49.8	117.49	10.3750	0.025
	9.00	162.8	55.8	117.54	9.3333	0.027
	10.00	169.0	61.9	117.58	8.5000	0.029
	11.00	174.9	67.8	117.61	7.8182	0.031
	12.00	181.0	73.9	117.65	7.2500	0.033
	13.00	187.1	80.0	117.67	6.7692	0.035
	14.00	193.2	86.1	117.71	6.3571	0.037
	15.00	199.4	92.4	117.74	6.0000	0.040

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11220 DST #1 MLP Black #7-3 Hugoton Energy Corp.

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
16.00	205.7	98.7	117.78	5.6875	0.042
17.00	212.1	105.0	117.81	5.4118	0.045
18.00	218.4	111.4	117.85	5.1667	0.048
19.00	224.9	117.8	117.88	4.9474	0.051
20.00	231.5	124.4	117.91	4.7500	0.054
21.00	238.2	131.1	117.94	4.5714	0.057
22.00	244.8	137.8	117.99	4.4091	0.060
23.00	251.7	144.6	118.03	4.2609	0.063
24.00	258.5	151.4	118.05	4.1250	0.067
25.00	265.6	158.5	118.08	4.0000	0.071
26.00	272.6	165.5	118.10	3.8846	0.074
27.00	279.7	172.7	118.14	3.7778	0.078
28.00	287.0	179.9	118.17	3.6786	0.082
29.00	294.1	187.1	118.19	3.5862	0.087
30.00	301.6	194.5	118.23	3.5000	0.091
31.00	309.0	201.9	118.24	3.4194	0.095
32.00	316.5	209.4	118.28	3.3438	0.100
33.00	324.1	217.0	118.31	3.2727	0.105
34.00	331.8	224.8	118.36	3.2059	0.110
35.00	339.5	232.5	118.40	3.1429	0.115
36.00	347.4	240.3	118.41	3.0833	0.121
37.00	355.2	248.1	118.42	3.0270	0.126
38.00	363.2	256.1	118.42	2.9737	0.132
39.00	371.2	264.1	118.43	2.9231	0.138
40.00	379.3	272.2	118.48	2.8750	0.144
41.00	387.5	280.4	118.51	2.8293	0.150
42.00	395.8	288.7	118.54	2.7857	0.157
43.00	404.0	296.9	118.57	2.7442	0.163
44.00	412.5	305.4	118.60	2.7045	0.170
45.00	421.0	313.9	118.63	2.6667	0.177
46.00	429.3	322.2	118.66	2.6304	0.184
47.00	437.9	330.9	118.68	2.5957	0.192
48.00	446.5	339.4	118.71	2.5625	0.199
49.00	455.1	348.1	118.73	2.5306	0.207
50.00	464.0	356.9	118.76	2.5000	0.215
51.00	472.6	365.5	118.79	2.4706	0.223
52.00	481.3	374.3	118.80	2.4423	0.232
53.00	490.1	383.1	118.83	2.4151	0.240
54.00	499.0	391.9	118.86	2.3889	0.249
55.00	508.1	401.0	118.88	2.3636	0.258
56.00	517.2	410.2	118.91	2.3393	0.268
57.00	526.3	419.3	118.93	2.3158	0.277
58.00	535.4	428.3	118.95	2.2931	0.287
59.00	544.4	437.3	118.98	2.2712	0.296
60.00	553.6	446.6	119.00	2.2500	0.307
61.00	562.6	455.6	119.02	2.2295	0.317
62.00	572.0	465.0	119.04	2.2097	0.327
63.00	581.4	474.3	119.06	2.1905	0.338
64.00	590.5	483.5	119.09	2.1719	0.349
65.00	599.9	492.8	119.11	2.1538	0.360
66.00	609.0	501.9	119.12	2.1364	0.371

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11220 DST #1 MLP Black #7-3 Hugoton Energy Corp.

DATE: 03/17/98

TIME: 22:01:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	67.00	618.3	511.2	119.15	2.1194	0.382
	68.00	627.8	520.7	119.18	2.1029	0.394
	69.00	637.2	530.1	119.19	2.0870	0.406
	70.00	646.6	539.5	119.23	2.0714	0.418
	71.00	656.0	548.9	119.25	2.0563	0.430
	72.00	665.5	558.4	119.27	2.0417	0.443
	73.00	674.9	567.8	119.29	2.0274	0.455
	74.00	684.4	577.3	119.31	2.0135	0.468
	75.00	693.8	586.7	119.32	2.0000	0.481
	76.00	703.3	596.2	119.37	1.9868	0.495
	77.00	712.6	605.5	119.37	1.9740	0.508
	78.00	721.8	614.8	119.40	1.9615	0.521
	79.00	731.0	623.9	119.41	1.9494	0.534
	80.00	740.1	633.0	119.43	1.9375	0.548
	81.00	749.2	642.1	119.45	1.9259	0.561
	82.00	758.7	651.6	119.48	1.9146	0.576
	83.00	768.0	661.0	119.50	1.9036	0.590
	84.00	777.4	670.4	119.52	1.8929	0.604
	85.00	786.9	679.8	119.55	1.8824	0.619
	86.00	796.0	688.9	119.55	1.8721	0.634
	87.00	805.4	698.3	119.57	1.8621	0.649
	88.00	815.0	707.9	119.60	1.8523	0.664
***** End Shut-in 2	89.00	823.8	716.7	119.62	1.8427	0.679
***** Final Hydro.	417.00	2518.1	0.0	119.71		

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.

DATE 3-18-98

WELL NAME: MLP Black 7-3

KB 2987.00 ft

TICKET NO: 11221 DST #2

LOCATION : 3-30-34

GR 2977.00 ft

FORMATION: chester

INTERVAL : 53180.00 To 5384.00 ft

TD 5384.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2346			PF Fr. 0255 to 0325 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0325 to 0425 hr
SF 45 Clock(hrs)	12	12 hr	alpin			SF Fr. 0425 to 0510 hr
FS 90 Depth(ft)	5381.0	5381.0	5347.0	0.0	0.0	FS Fr. 0510 to 0640 hr

	Field	1	2	3	4	
A. Init Hydro	2502.0	2640.0	2591.0	0.0	0.0	T STARTED 2245 hr
B. First Flow	322.0	400.0	400.0	0.0	0.0	T ON BOTM 0252 hr
B1. Final Flow	590.0	565.0	609.0	0.0	0.0	T OPEN 0255 hr
C. In Shut-in	1120.0	1083.0	1120.0	0.0	0.0	T PULLED 0640 hr
D. Init Flow	556.0	513.0	493.0	0.0	0.0	T OUT 1010 hr
E. Final Flow	703.0	659.0	693.0	0.0	0.0	
F. Fl Shut-in	1120.0	1070.0	1116.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2479.0	2593.0	2572.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	i	I	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 106000.00 lbs
						Initial Str Wt 70000.00 lbs
						Unseated Str Wt 70000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.50 in
						D.C. Length 246.00 ft
						D.P. Length 5117.00 ft

RECOVERY

Tot Fluid 371.00 ft of 246.00 ft in DC and 125.00 ft in DP

371.00 ft of gassy drilling mud 40% gas 60% mud

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of gas to surface 5 min. into first flow.

0.00 ft of

0.00 ft of

SALINITY 1600.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Bottom of bucket in 1/2 minute

Gas to surface in 5 minutes

Gauging gas

Initial Shutin:

Bled off for 42 minutes - weak

surface return in 5 minutes

Final Flow:

Bottom of bucket at open -

gauging gas

Final Shutin:

Bled off for 48 minutes - no return

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	chem
Weight	9.20 lb/c
Vis.	46.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill 0.00 ft

Btm. H. Temp. 128.00 F

Hole Condition good

% Porosity 0.00

Packer Size 6.75 in

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out N

Tool Chased N

Tester Shane McBride

Co. Rep. Wes Hansen

Contr. Murfin

Rig # 20

Unit #

Pump T.

Test Successful: Y

GAS RECOVERY

COMPANY: Hugoton Energy Corp.

DATE: 3-18-98

ELL NAME: MLP Black 7-3

KB Elev: 2987.00 ft TICKET #11221 DST #2

ELL LOCATION: 3-30-34

GR Elev: 2977.00 ft FORMATION: chester

INTERVAL Fr.: 53180.00 To 5384.00 T.D.: 5384.00 ft TEST TYPE: CONV.

AS RECOVERY MEASURED WITH merla

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	75	0	1046.0
10	1.00	60	0	1596.0
20	1.00	65	0	1705.0
25	1.00	75	0	1922.0
30	1.00	80	0	2030.0

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.25	28	0	1539.0
10	1.25	40	0	1980.0
15	1.25	50	0	2341.0
20	1.25	55	0	2522.0
25	1.25	65	0	2883.0
30	1.25	70	0	3063.0
35	1.25	75	0	3244.0
40	1.25	75	0	3244.0
45	1.25	75	0	3244.0

*** TOOL DIAGRAM *** CONV.

WELL NAME: MLP Black 7-3

LOCATION : 3-30-34

TICKET No. 11221 D.S.T. No. 2 DATE 3-18-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 35

TOTAL TOOL 62

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 93

D.C. ABOVE TOOLS.Stands4 Single Total 246

D.P. ABOVE TOOLS.Stands82 Single 1 Total 5076

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5415

TOTAL DEPTH 5384

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

P.O. SUB	
C.O. SUB 1'	5290
S.I. TOOL 5'	5296
HMV 5'	5301
JARS 5'	5306
SAFETY JOINT 2'	5308
PACKER top	5313
PACKER bottom	5318
DEPTH 5318	
STUBB 1'	5319
ANCHOR 27' perf	5346
1' c.o.	5347
alpine recorder	5347
31' drillpipe	5378
T.C.	
DEPTH	
1' c.o.	5379
ak-1 recorder	5381
BULLNOSE 5' bullplug	5384
T.D.	5384

TEST HISTORY 11221 DST #2 MLP Black 7-3 Hugoton Energy Corp.

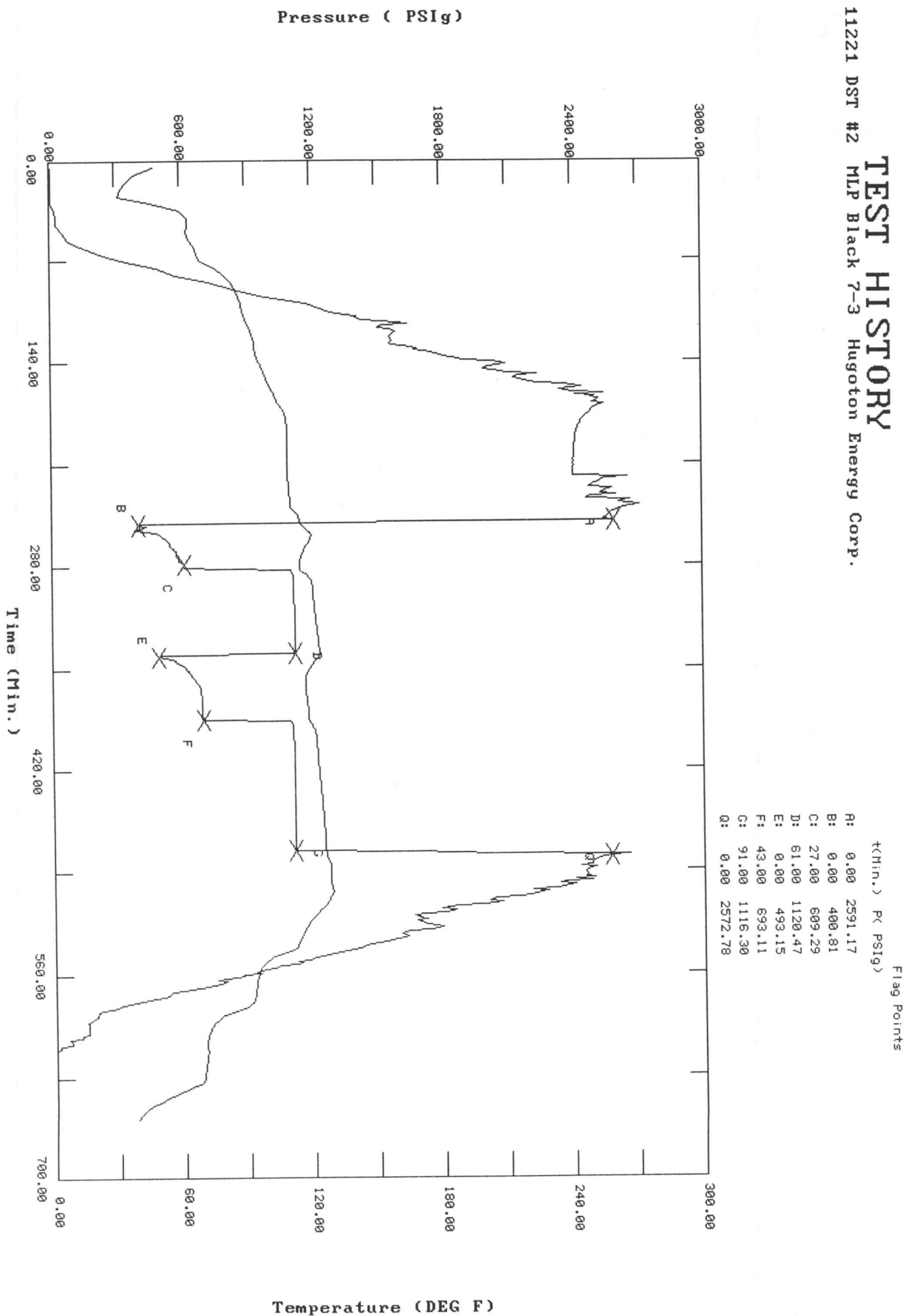
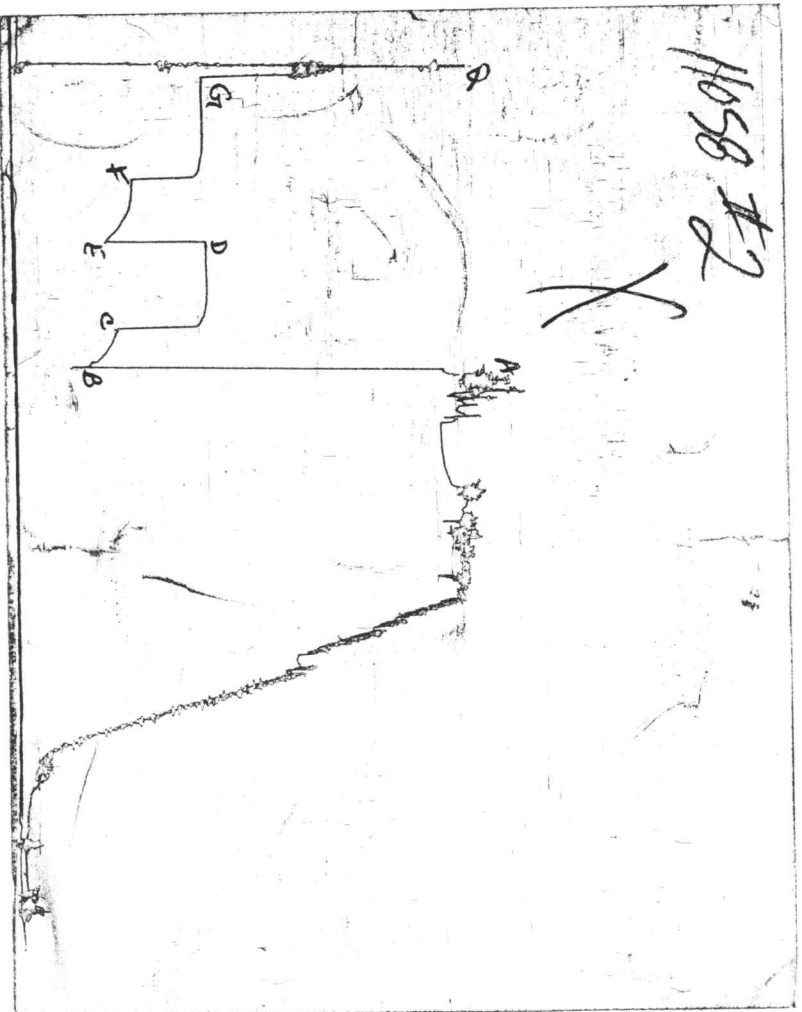


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11221 DST #2 MLP Black 7-3 Hugoton Energy Corp.

DATE: 03/18/98

TIME: 21:32:26

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	250.00	2591.2	0.0	114.81		
***** Start Flow 1	0.00	400.8	0.0	115.16		
	1.00	438.2	37.4	115.71		
	2.00	423.9	23.1	116.57		
	3.00	384.8	-16.0	117.54		
	4.00	441.1	40.3	118.41		
	5.00	475.5	74.7	119.03		
	6.00	493.3	92.5	119.46		
	7.00	501.5	100.7	119.68		
	8.00	507.7	106.9	119.69		
	9.00	519.8	119.0	119.54		
	10.00	527.8	127.0	119.26		
	11.00	540.4	139.6	118.89		
	12.00	542.5	141.7	118.45		
	13.00	546.2	145.4	118.06		
	14.00	545.2	144.4	117.62		
	15.00	553.0	152.2	117.19		
	16.00	563.0	162.2	116.79		
	17.00	564.6	163.8	116.42		
	18.00	572.8	172.0	116.08		
	19.00	572.2	171.4	115.77		
	20.00	574.2	173.4	115.49		
	21.00	576.7	175.9	115.24		
	22.00	582.1	181.3	115.04		
	23.00	587.4	186.6	114.86		
	24.00	585.5	184.7	114.73		
	25.00	588.3	187.5	114.61		
	26.00	603.0	202.2	114.53		
***** End Flow 1	27.00	609.3	208.5	114.47		
***** Start Shutin 1	0.00	609.3	0.0	114.47	0.0000	0.371
	1.00	606.1	-3.2	114.43	28.0000	0.367
	2.00	607.5	-1.8	114.39	14.5000	0.369
	3.00	801.6	192.3	114.36	10.0000	0.643
	4.00	1100.2	490.9	114.56	7.7500	1.210
	5.00	1105.8	496.5	115.40	6.4000	1.223
	6.00	1108.5	499.2	116.51	5.5000	1.229
	7.00	1110.6	501.3	117.52	4.8571	1.234
	8.00	1112.1	502.8	118.35	4.3750	1.237
	9.00	1113.1	503.8	118.92	4.0000	1.239
	10.00	1113.9	504.6	119.35	3.7000	1.241
	11.00	1114.4	505.1	119.68	3.4545	1.242
	12.00	1114.9	505.6	119.94	3.2500	1.243
	13.00	1115.3	506.0	120.05	3.0769	1.244
	14.00	1115.6	506.3	120.17	2.9286	1.245
	15.00	1116.0	506.7	120.28	2.8000	1.245
	16.00	1116.2	506.9	120.36	2.6875	1.246
	17.00	1116.4	507.1	120.43	2.5882	1.246
	18.00	1116.6	507.3	120.49	2.5000	1.247
	19.00	1116.9	507.6	120.54	2.4211	1.247
	20.00	1116.9	507.7	120.58	2.3500	1.248
	21.00	1117.1	507.9	120.63	2.2857	1.248

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 11221 DST #2 MLP Black 7-3 Hugoton Energy Corp.
 DATE: 03/18/98 TIME: 21:32:26

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	22.00	1117.3	508.1	120.68	2.2273	1.248
	23.00	1117.4	508.1	120.73	2.1739	1.249
	24.00	1117.5	508.3	120.78	2.1250	1.249
	25.00	1117.7	508.4	120.84	2.0800	1.249
	26.00	1117.8	508.6	120.89	2.0385	1.250
	27.00	1118.0	508.7	120.95	2.0000	1.250
	28.00	1118.1	508.8	121.02	1.9643	1.250
	29.00	1118.2	509.0	121.08	1.9310	1.250
	30.00	1118.3	509.0	121.15	1.9000	1.251
	31.00	1118.4	509.1	121.23	1.8710	1.251
	32.00	1118.6	509.3	121.30	1.8438	1.251
	33.00	1118.7	509.4	121.36	1.8182	1.252
	34.00	1118.8	509.5	121.43	1.7941	1.252
	35.00	1118.9	509.6	121.51	1.7714	1.252
	36.00	1119.0	509.7	121.60	1.7500	1.252
	37.00	1119.1	509.8	121.67	1.7297	1.252
	38.00	1119.2	509.9	121.75	1.7105	1.253
	39.00	1119.3	510.0	121.83	1.6923	1.253
	40.00	1119.3	510.0	121.91	1.6750	1.253
	41.00	1119.5	510.2	122.00	1.6585	1.253
	42.00	1119.5	510.2	122.07	1.6429	1.253
	43.00	1119.5	510.3	122.15	1.6279	1.253
	44.00	1119.6	510.3	122.24	1.6136	1.254
	45.00	1119.6	510.4	122.32	1.6000	1.254
	46.00	1119.9	510.6	122.40	1.5870	1.254
	47.00	1119.9	510.6	122.48	1.5745	1.254
	48.00	1119.9	510.6	122.56	1.5625	1.254
	49.00	1120.0	510.7	122.64	1.5510	1.254
	50.00	1120.0	510.7	122.72	1.5400	1.254
	51.00	1120.1	510.8	122.80	1.5294	1.255
	52.00	1120.2	510.9	122.87	1.5192	1.255
	53.00	1120.2	510.9	122.95	1.5094	1.255
	54.00	1120.2	510.9	123.02	1.5000	1.255
	55.00	1120.3	511.0	123.09	1.4909	1.255
	56.00	1120.3	511.0	123.17	1.4821	1.255
	57.00	1120.4	511.1	123.25	1.4737	1.255
	58.00	1120.5	511.2	123.32	1.4655	1.255
	59.00	1120.4	511.1	123.39	1.4576	1.255
	60.00	1120.5	511.2	123.46	1.4500	1.255
***** End Shut-in 1	61.00	1120.5	511.2	123.53	1.4426	1.255
***** Start Flow 2	0.00	493.2	0.0	123.18		
	1.00	548.1	54.9	122.54		
	2.00	568.1	74.9	121.94		
	3.00	569.3	76.2	121.36		
	4.00	579.6	86.4	120.80		
	5.00	591.1	97.9	120.25		
	6.00	602.3	109.1	119.71		
	7.00	611.6	118.5	119.18		
	8.00	619.1	125.9	118.69		
	9.00	625.7	132.5	118.26		
	10.00	630.6	137.5	117.90		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11221 DST #2 MLP Black 7-3 Hugoton Energy Corp.

DATE: 03/18/98 TIME: 21:32:26

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	11.00	635.2	142.1	117.59		
	12.00	638.7	145.6	117.36		
	13.00	642.5	149.3	117.15		
	14.00	645.7	152.6	116.99		
	15.00	651.9	158.8	116.87		
	16.00	660.1	166.9	116.79		
	17.00	666.8	173.6	116.75		
	18.00	671.8	178.7	116.72		
	19.00	676.1	183.0	116.72		
	20.00	678.9	185.8	116.75		
	21.00	680.9	187.8	116.80		
	22.00	683.2	190.0	116.86		
	23.00	684.1	190.9	116.93		
	24.00	684.8	191.6	117.02		
	25.00	685.4	192.2	117.09		
	26.00	685.8	192.7	117.17		
	27.00	686.7	193.6	117.26		
	28.00	687.0	193.9	117.33		
	29.00	687.5	194.4	117.43		
	30.00	687.0	193.9	117.50		
	31.00	686.7	193.5	117.59		
	32.00	687.8	194.6	117.66		
	33.00	688.2	195.0	117.75		
	34.00	687.9	194.8	117.82		
	35.00	688.0	194.8	117.90		
	36.00	689.0	195.8	117.96		
	37.00	689.8	196.7	118.04		
	38.00	689.8	196.7	118.10		
	39.00	690.5	197.3	118.17		
	40.00	691.3	198.1	118.23		
	41.00	692.1	199.0	118.29		
	42.00	692.8	199.7	118.35		
***** End Flow 2	43.00	693.1	200.0	118.41		
***** Start Shutin 2	0.00	693.1	0.0	118.41	0.0000	0.480
	1.00	1094.6	401.5	118.43	71.0000	1.198
	2.00	1100.8	407.7	118.79	36.0000	1.212
	3.00	1103.9	410.8	119.28	24.3333	1.219
	4.00	1106.2	413.1	119.78	18.5000	1.224
	5.00	1107.6	414.5	120.21	15.0000	1.227
	6.00	1108.7	415.5	120.57	12.6667	1.229
	7.00	1109.4	416.3	120.85	11.0000	1.231
	8.00	1110.1	417.0	121.08	9.7500	1.232
	9.00	1110.6	417.5	121.24	8.7778	1.233
	10.00	1110.9	417.8	121.27	8.0000	1.234
	11.00	1111.3	418.2	121.47	7.3636	1.235
	12.00	1111.6	418.5	121.56	6.8333	1.236
	13.00	1111.8	418.7	121.64	6.3846	1.236
	14.00	1112.1	419.0	121.71	6.0000	1.237
	15.00	1112.2	419.1	121.77	5.6667	1.237
	16.00	1112.5	419.4	121.82	5.3750	1.238
	17.00	1112.6	419.5	121.87	5.1176	1.238

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 11221 DST #2 MLP Black 7-3 Hugoton Energy Corp.
 DATE: 03/18/98 TIME: 21:32:26

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
18.00	1112.7	419.6	121.92	4.8889	1.238
19.00	1112.8	419.7	121.96	4.6842	1.238
20.00	1112.9	419.8	122.01	4.5000	1.239
21.00	1113.1	420.0	122.05	4.3333	1.239
22.00	1113.2	420.1	122.10	4.1818	1.239
23.00	1113.3	420.2	122.14	4.0435	1.239
24.00	1113.4	420.3	122.19	3.9167	1.240
25.00	1113.6	420.5	122.24	3.8000	1.240
26.00	1113.7	420.6	122.28	3.6923	1.240
27.00	1113.8	420.7	122.35	3.5926	1.241
28.00	1113.9	420.8	122.39	3.5000	1.241
29.00	1114.0	420.9	122.43	3.4138	1.241
30.00	1114.1	421.0	122.49	3.3333	1.241
31.00	1114.1	421.0	122.55	3.2581	1.241
32.00	1114.2	421.1	122.61	3.1875	1.241
33.00	1114.2	421.1	122.65	3.1212	1.242
34.00	1114.3	421.2	122.72	3.0588	1.242
35.00	1114.4	421.3	122.78	3.0000	1.242
36.00	1114.5	421.4	122.84	2.9444	1.242
37.00	1114.6	421.5	122.90	2.8919	1.242
38.00	1114.6	421.5	122.95	2.8421	1.242
39.00	1114.7	421.6	123.01	2.7949	1.243
40.00	1114.8	421.7	123.08	2.7500	1.243
41.00	1114.8	421.7	123.13	2.7073	1.243
42.00	1114.8	421.7	123.19	2.6667	1.243
43.00	1115.0	421.9	123.25	2.6279	1.243
44.00	1115.0	421.9	123.31	2.5909	1.243
45.00	1115.0	421.9	123.37	2.5556	1.243
46.00	1115.1	422.0	123.44	2.5217	1.243
47.00	1115.2	422.1	123.50	2.4894	1.244
48.00	1115.2	422.1	123.55	2.4583	1.244
49.00	1115.3	422.2	123.62	2.4286	1.244
50.00	1115.3	422.2	123.67	2.4000	1.244
51.00	1115.3	422.2	123.74	2.3725	1.244
52.00	1115.4	422.3	123.79	2.3462	1.244
53.00	1115.4	422.3	123.85	2.3208	1.244
54.00	1115.4	422.3	123.90	2.2963	1.244
55.00	1115.5	422.4	123.96	2.2727	1.244
56.00	1115.5	422.4	124.01	2.2500	1.244
57.00	1115.5	422.4	124.08	2.2281	1.244
58.00	1115.6	422.5	124.13	2.2069	1.245
59.00	1115.6	422.5	124.18	2.1864	1.245
60.00	1115.6	422.5	124.24	2.1667	1.245
61.00	1115.8	422.7	124.29	2.1475	1.245
62.00	1115.7	422.6	124.34	2.1290	1.245
63.00	1115.8	422.7	124.40	2.1111	1.245
64.00	1115.8	422.7	124.44	2.0938	1.245
65.00	1115.8	422.7	124.50	2.0769	1.245
66.00	1116.0	422.9	124.55	2.0606	1.245
67.00	1115.9	422.8	124.60	2.0448	1.245
68.00	1115.9	422.8	124.66	2.0294	1.245

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11221 DST #2 MLP Black 7-3 Hugoton Energy Corp.
 DATE: 03/18/98 TIME: 21:32:26

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	69.00	1115.9	422.8	124.71	2.0145	1.245
	70.00	1115.9	422.8	124.76	2.0000	1.245
	71.00	1116.0	422.9	124.80	1.9859	1.246
	72.00	1116.0	422.9	124.85	1.9722	1.245
	73.00	1116.0	422.9	124.90	1.9589	1.246
	74.00	1116.0	422.9	124.95	1.9459	1.245
	75.00	1116.0	422.9	125.00	1.9333	1.245
	76.00	1116.0	422.9	125.05	1.9211	1.246
	77.00	1116.1	423.0	125.09	1.9091	1.246
	78.00	1116.0	422.9	125.13	1.8974	1.246
	79.00	1116.1	423.0	125.18	1.8861	1.246
	80.00	1116.1	423.0	125.23	1.8750	1.246
	81.00	1116.2	423.0	125.27	1.8642	1.246
	82.00	1116.2	423.0	125.31	1.8537	1.246
	83.00	1116.2	423.0	125.34	1.8434	1.246
	84.00	1116.3	423.2	125.39	1.8333	1.246
	85.00	1116.3	423.1	125.43	1.8235	1.246
	86.00	1116.3	423.1	125.48	1.8140	1.246
	87.00	1116.2	423.1	125.52	1.8046	1.246
	88.00	1116.3	423.2	125.57	1.7955	1.246
	89.00	1116.3	423.2	125.62	1.7865	1.246
	90.00	1116.4	423.3	125.63	1.7778	1.246
***** End Shut-in 2	91.00	1116.3	423.2	125.67	1.7692	1.246
***** Final Hydro.	480.00	2572.8	0.0	126.07		