

DRILL-STEM TEST DATA

Well Name: MLP CLAWSON #3-9
Company : HUGOTON ENERGY CORP
Location - Sec: 9 **Twp:** 29S **Rge:** 34W
County: HASKELL **State:** KS
Date: 07/15/95

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp. DATE 7/10/95
 WELL NAME: MLP Clawson #3-9 KB 2998.00 ft TICKET NO: 7878 DST #1
 LOCATION : 9-29S-34W, Haskell County GR 0.00 ft FORMATION: Kansas City "B"
 INTERVAL : 4574.00 To 4600.00 ft TD 4600.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	AK-1	AK-1	ALPINE			PF Fr. 30 to hr
SI 30 Range(Psi)	5075.0	5075.0	4995.0	0.0	0.0	IS Fr. 30 to hr
SF 30 Clock(hrs)	25813	25813				SF Fr. 30 to hr
FS 30 Depth(ft)	4597.0	4597.0	4582.0	0.0	0.0	FS Fr. 30 to hr

	Field	1	2	3	4	
A. Init Hydro	2336.0	2330.0	2294.0	0.0	0.0	T STARTED 2230 hr
B. First Flow	82.0	97.0	15.0	0.0	0.0	T ON BOTM 0038 hr
B1. Final Flow	82.0	97.0	22.0	0.0	0.0	T OPEN 0040 hr
C. In Shut-in	1096.0	1102.0	1087.0	0.0	0.0	T PULLED 0240 hr
D. Init Flow	95.0	120.0	25.0	0.0	0.0	T OUT 0500 hr
E. Final Flow	95.0	120.0	28.0	0.0	0.0	
F. Fl Shut-in	830.0	908.0	894.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2298.0	2293.0	2211.0	0.0	0.0	Tool Wt. 15000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 63000.00 lbs
						Unseated Str Wt 63000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 293.00 ft
						D.P. Length 4283.00 ft

RECOVERY

Tot Fluid 10.00 ft of 10.00 ft in DC and 0.00 ft in DP
 10.00 ft of Drilling mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Blow -
 Surface blow, died in 15 min.

Final Blow -
 No blow

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	CHEMICAL
Weight	9.30 lb/c
Vis.	43.00 S/L
W.L.	10.80 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

Reversed Out N

Tool Chased N
 Tester TOM HORACEK
 Co. Rep. WES HANSEN
 Contr. MURFIN Drlg.
 Rig # 20
 Unit #
 Pump T.

Test Successful: Y

TEST HISTORY

7878 DST #1 MLP Clawson #3-9 Hugoton Energy

Flag Points

t (Min.) P (PSig)

A:	0.00	2294.41
B:	0.00	15.35
C:	28.00	21.81
D:	30.00	1086.60
E:	0.00	24.83
F:	28.00	28.28
G:	30.00	893.91
Q:	0.00	2210.90

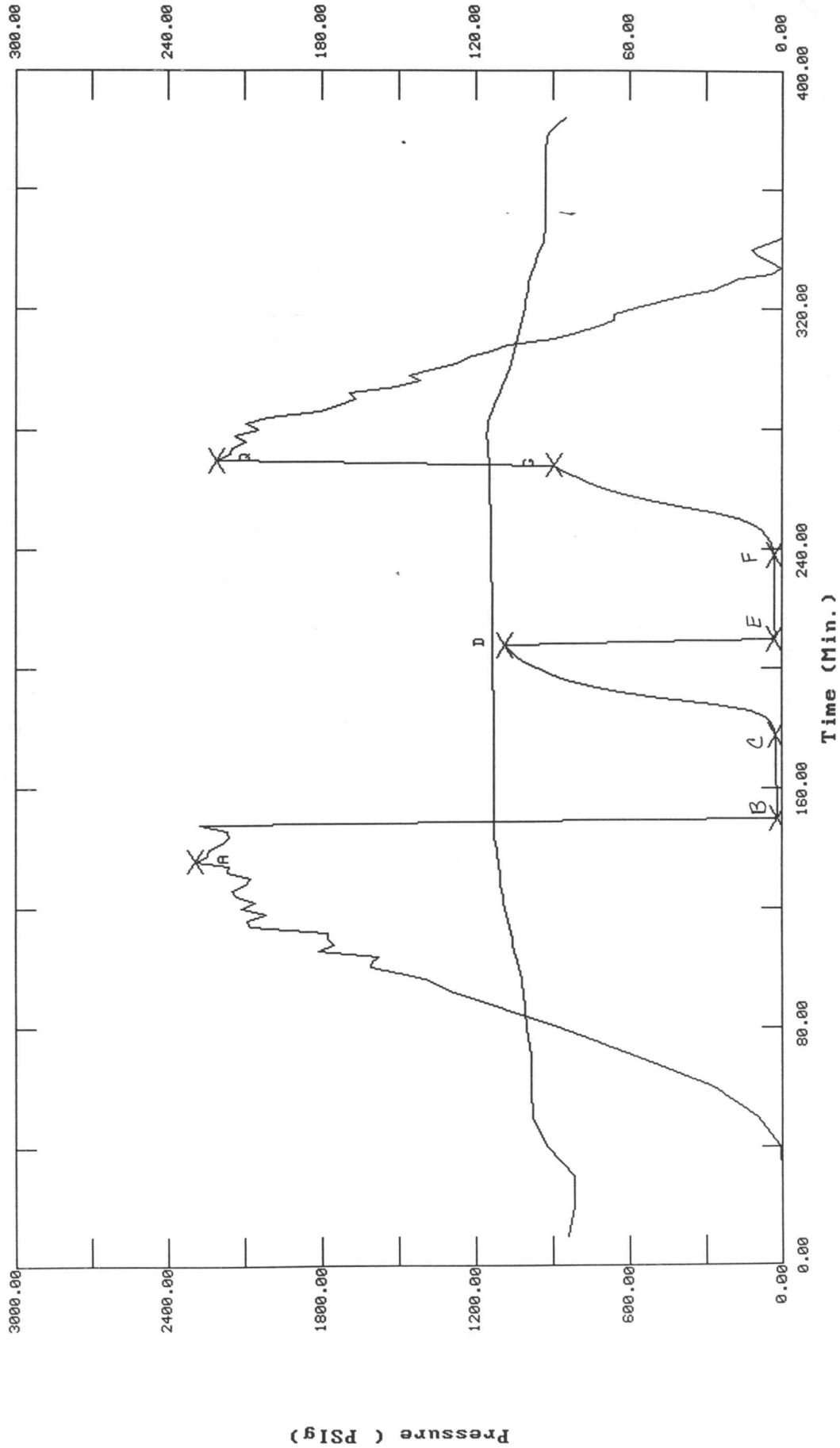
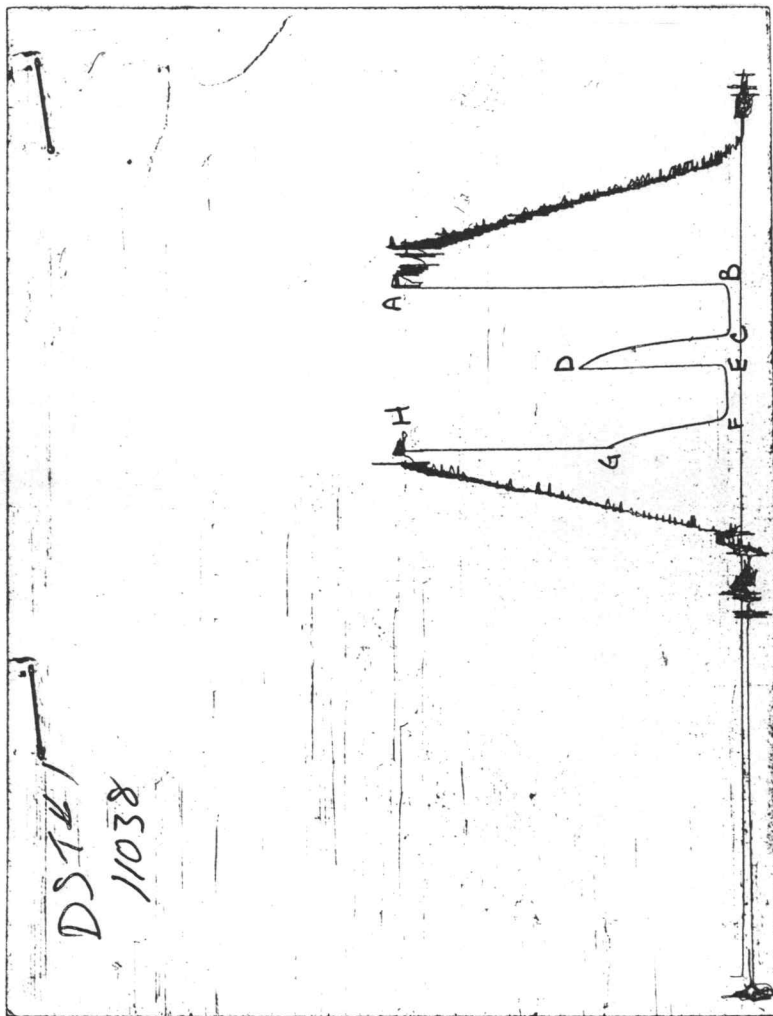


CHART PAGE



This is an actual photograph of an AK1 recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 7878 DST #1 MLP Clawson #3-9 Hugoton Energy

DATE: 07/10/95 TIME: 21:07:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	136.00	2294.4	0.0	111.02		
***** Start Flow 1	0.00	15.4	0.0	112.64		
	2.00	16.2	0.8	112.64		
	4.00	16.9	1.5	112.64		
	6.00	17.5	2.2	112.46		
	8.00	18.0	2.6	112.46		
	10.00	18.5	3.1	112.46		
	12.00	18.9	3.5	112.46		
	14.00	19.3	3.9	112.46		
	16.00	19.7	4.4	112.46		
	18.00	20.1	4.7	112.64		
	20.00	20.4	5.0	112.64		
	22.00	20.7	5.4	112.64		
	24.00	21.1	5.8	112.64		
	26.00	21.5	6.1	112.64		
***** End Flow 1	28.00	21.8	6.5	112.64		
***** Start Shutin 1	0.00	21.8	0.0	112.64	0.0000	0.000
	2.00	25.7	3.9	112.82	15.0000	0.001
	4.00	39.5	17.7	112.82	8.0000	0.002
	6.00	65.0	43.2	112.82	5.6667	0.004
	8.00	122.6	100.8	112.82	4.5000	0.015
	10.00	263.6	241.8	112.82	3.8000	0.069
	12.00	469.3	447.5	113.00	3.3333	0.220
	14.00	636.7	614.9	113.00	3.0000	0.405
	16.00	755.8	733.9	113.18	2.7500	0.571
	18.00	842.9	821.1	113.18	2.5556	0.710
	20.00	908.3	886.5	113.36	2.4000	0.825
	22.00	959.4	937.6	113.36	2.2727	0.920
	24.00	1000.2	978.4	113.36	2.1667	1.000
	26.00	1034.1	1012.3	113.54	2.0769	1.069
	28.00	1062.4	1040.6	113.54	2.0000	1.129
***** End Shut-in 1	30.00	1086.6	1064.8	113.54	1.9333	1.181
***** Start Flow 2	0.00	24.8	0.0	113.54		
	2.00	24.6	-0.3	113.54		
	4.00	24.9	0.1	113.54		
	6.00	25.3	0.4	113.54		
	8.00	25.6	0.8	113.54		
	10.00	25.9	1.1	113.54		
	12.00	26.3	1.5	113.54		
	14.00	26.7	1.8	113.54		
	16.00	27.0	2.2	113.54		
	18.00	27.1	2.3	113.54		
	20.00	27.4	2.5	113.72		
	22.00	27.6	2.8	113.72		
	24.00	27.9	3.1	113.72		
	26.00	28.2	3.4	113.72		
***** End Flow 2	28.00	28.3	3.4	113.72		
***** Start Shutin 2	0.00	28.3	0.0	113.72	0.0000	0.001
	2.00	32.1	3.9	113.90	29.0000	0.001
	4.00	41.8	13.5	113.90	15.0000	0.002
	6.00	55.4	27.1	113.90	10.3333	0.003

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 7878 DST #1 MLP Clawson #3-9 Hugoton Energy

DATE: 07/10/95

TIME: 21:07:56

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	8.00	76.1	47.8	113.90	8.0000	0.006
	10.00	110.4	82.1	113.90	6.6000	0.012
	12.00	170.6	142.3	114.08	5.6667	0.029
	14.00	272.4	244.1	114.08	5.0000	0.074
	16.00	403.5	375.2	114.08	4.5000	0.163
	18.00	526.3	498.0	114.26	4.1111	0.277
	20.00	624.8	596.6	114.26	3.8000	0.390
	22.00	703.2	674.9	114.26	3.5455	0.495
	24.00	766.6	738.3	114.44	3.3333	0.588
	26.00	817.4	789.1	114.44	3.1538	0.668
	28.00	859.0	830.7	114.44	3.0000	0.738
***** End Shut-in 2	30.00	893.9	865.6	114.62	2.8667	0.799
***** Final Hydro.	270.00	2210.9	0.0	114.80		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: MLP Clawson #3-9

LOCATION : 9-29S-34W, Haskell County

TICKET No. 7878 D.S.T. No. 1 DATE 7/10/95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22 ft.

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26 ft.

TOTAL TOOL 48 ft.

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 48 ft.

D.C. ABOVE TOOLS.Stands5 Single Total 293 ft.

D.P. ABOVE TOOLS.Stands68 Single 1 Total 4283 ft.

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4624 ft.

TOTAL DEPTH 4600 ft.

TOTAL DRILL PIPE ABOVE K.B. 24 ft.

REMARKS:

P.O. SUB	
C.O. SUB	4556
S.I. TOOL	4557
.	
HMV Hyd. Tool	4562
JARS	
SAFETY JOINT	4567
PACKER	4569
PACKER	4574
DEPTH 4574 ft.	
STUBB 3 ft.	4577
ANCHOR Pick up sub	4582
Alpine Rec.	4582
Perf.	4587
T.C. DEPTH	
Perf	4591
Perf	4595
A-K1 Rec.	4597
BULLNOSE	
T.D. Bull Plug	4600

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp
 WELL NAME: MLP Clawson #3-9
 LOCATION : 9-29S-34W, Haskell County
 INTERVAL : 4676.00 To 4704.00 ft

DATE 07/11/95
 KB 2998.00 ft TICKET NO: 7879 DST #2
 GR 0.00 ft FORMATION: Marmaton
 TD 4704.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF	30	Rec.	AK-1	AK-1	AK-1		PF Fr. 30 to hr
SI	60	Range(Psi)	5075.0	5075.0	4575.0	0.0	IS Fr. to 1 hr
SF	45	Clock(hrs)	25813	25813	30417		SF Fr. 45 to hr
FS	90	Depth(ft)	4701.0	4701.0	4682.0	0.0	FS Fr. to 1.5 hr

	Field	1	2	3	4	
A. Init Hydro	2336.0	2324.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	68.0	89.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	109.0	136.0	0.0	0.0	0.0	T OPEN 1725 hr
C. In Shut-in	893.0	914.0	0.0	0.0	0.0	T PULLED 2110 hr
D. Init Flow	149.0	166.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	190.0	206.0	0.0	0.0	0.0	
F. Fl Shut-in	893.0	919.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2259.0	2263.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 293.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 355.00 ft of 293.00 ft in DC and 62.00 ft in DP
 250.00 ft of Gas in Pipe
 125.00 ft of Gas & Oil Cut Mud - 20% gas, 30% oil, 5% H2O,
 0.00 ft of 45% mud
 230.00 ft of Salt Water w/ trace of oil - 3% oil, 97% H2O
 0.00 ft of
 0.00 ft of
 0.00 ft of

RW .122 @ 76 F

SALINITY 62000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Blow -
 Fair blow, built to bottom of bucket
 in 10 min

Initial Shutin -
 Bled off blow, weak blow throughout

Final Blow -
 Weak blow, built to bottom of bucket
 in 15 min

Final Shutin -
 Bled off blow, surface blow throughout

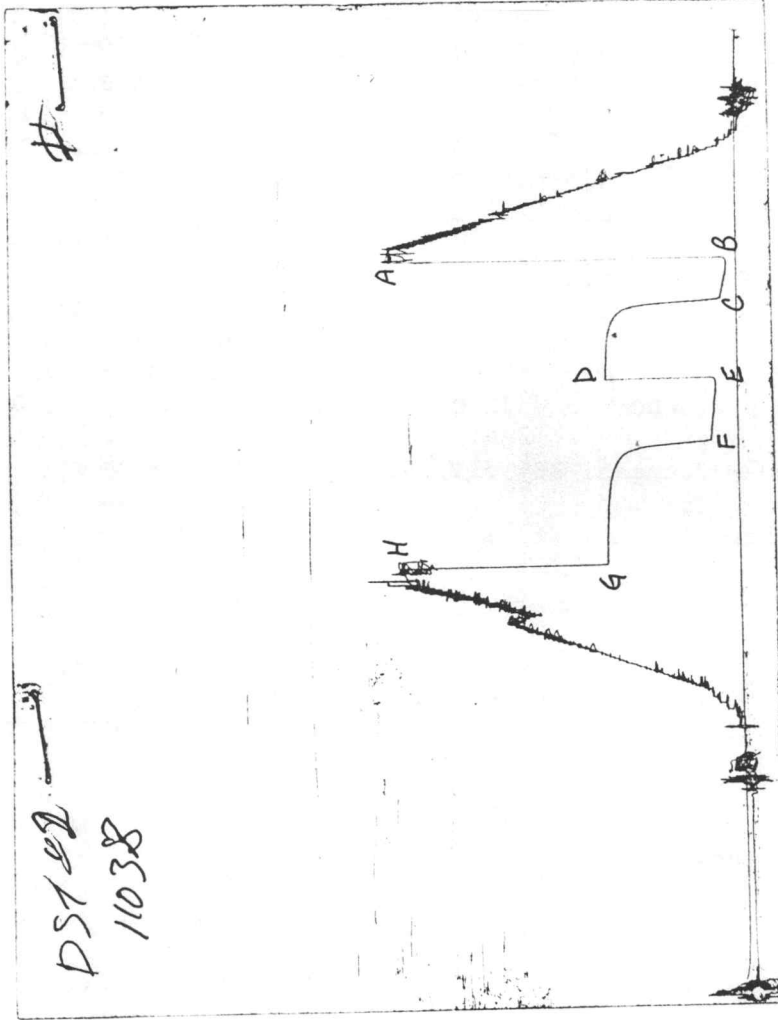
SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	44.00 S/L
W.L.	10.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	117.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Tom Horacek
Co. Rep.	Wes Hansen
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



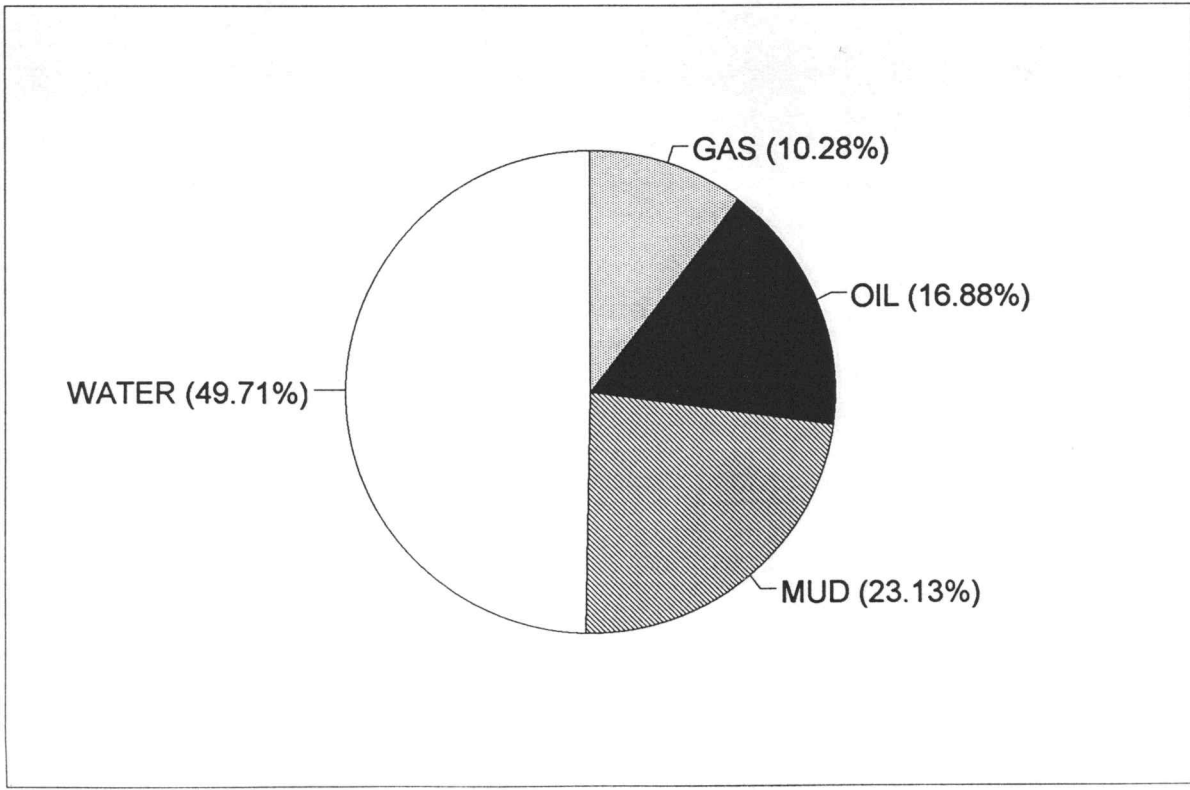
This is an actual photograph of an AK1 recorder chart

CALCULATED RECOVERY ANALYSIS

DST # 2

TICKET # 7879

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		%	
		%	FEET	%	FEET	%	FEET		
DRILL PIPE 1	62	20	12.4	30	18.6	5	3.1	45	
2			0		0		0		
3			0		0		0		
4			0		0		0		
5			0		0		0		
6			0		0		0		
WEIGHT PIPE 1			0		0		0		
2			0		0		0		
3			0		0		0		
4			0		0		0		
DRL COLLAR 1	63	20	12.6	30	18.9	5	3.15	45	
2	230		0	3	6.9	97	223.1		
3			0		0		0		
4			0		0		0		
5			0		0		0		
TOTAL	355	7.042254	25	12.50704	44.4	64.60563	229.35	15.84507	
		HRS OPE		BBL/DAY					
BBL OIL=	0.390654	*	1.25	7.500557					
BBL WATER=	1.150445	*		22.08853					
BBL MUD=	0.53537								
BBL GAS =	0.237942								



TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp
 WELL NAME: MLP Clawson #3-9
 LOCATION : 9-29S-34W, Haskell County
 INTERVAL : 4780.00 To 4848.00 ft

DATE 07/12/95
 KB 2998.00 ft TICKET NO: 7880 DST #3
 GR 0.00 ft FORMATION: Marmaton
 TD 4848.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	AK-1	AK-1	AK-1			PF Fr. 30 to hr
SI 60	Range(Psi)	5075.0	5075.0	4575.0	0.0	0.0	IS Fr. to 1 hr
SF 45	Clock(hrs)	25813	25813	30417			SF Fr. 45 to hr
FS 90	Depth(ft)	4845.0	4845.0	4785.0	0.0	0.0	FS Fr. to 1.5 hr

	Field	1	2	3	4	
A. Init Hydro	2323.0	2312.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	95.0	96.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	95.0	96.0	0.0	0.0	0.0	T OPEN 1740 hr
C. In Shut-in	906.0	900.0	0.0	0.0	0.0	T PULLED 2125 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2285.0	2299.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 293.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
 70.00 ft of Drilling mud w/ spots of oil
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Blow -
 Weak blow, built to 2 1/2"

Initial Shutin -
 No blow back

Final Blow -
 Weak blow, built to 4"

Final Shutin -
 No blow back

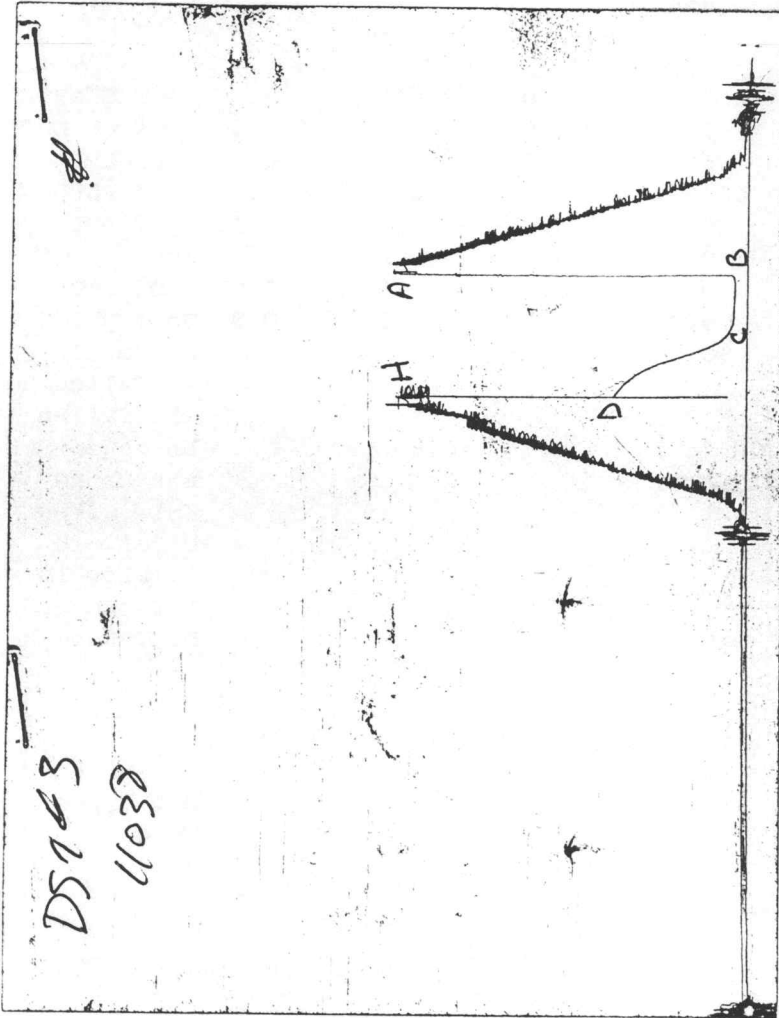
SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	43.00 S/L
W.L.	10.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Tom Horacek
Co. Rep.	Wes Hansen
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp DATE 07/14/95
 WELL NAME: MLP Clawson #3-9 KB 2998.00 ft TICKET NO: 7881 DST #4
 LOCATION : 9-29S-34W, Haskell County GR 0.00 ft FORMATION: Morrow
 INTERVAL : 5140.00 To 5315.00 ft TD 5315.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	AK-1	AK-1	AK-1			PF Fr. 30 to hr
SI 30	Range(Psi)	5075.0	5075.0	4575.0	0.0	0.0	IS Fr. 30 to hr
SF 45	Clock(hrs)	20518	20518	25113			SF Fr. 45 to hr
FS 90	Depth(ft)	5312.0	5312.0	5150.0	0.0	0.0	FS Fr. to 1.5 hr

	Field	1	2	3	4	
A. Init Hydro	2585.0	2588.0	0.0	0.0	0.0	T STARTED hr
B. First Flow	90.0	144.0	0.0	0.0	0.0	T ON BOTM hr
Bl. Final Flow	90.0	144.0	0.0	0.0	0.0	T OPEN 1115 hr
C. In Shut-in	204.0	193.0	0.0	0.0	0.0	T PULLED 1430 hr
D. Init Flow	147.0	136.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	147.0	136.0	0.0	0.0	0.0	
F. Fl Shut-in	239.0	231.0	0.0	0.0	0.0	
G. Final Hydro	2539.0	2553.0	0.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 0.00 lbs
						Wt Set On Packer 0.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 0.00 lbs
						Unseated Str Wt 0.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 150.00 ft
						D.P. Length 0.00 ft

RECOVERY

Tot Fluid	80.00 ft of	80.00 ft in DC and	0.00 ft in DP
80.00	ft of Drilling Mud		
0.00	ft of		
0.00	ft of		
0.00	ft of		
0.00	ft of		
0.00	ft of		
0.00	ft of		
0.00	ft of		
SALINITY	0.00 P.P.M.	A.P.I. Gravity	0.00

BLOW DESCRIPTION

Initial Blow -
 Weak blow, died in 25 min

Final Blow -
 Weak blow, built to 2 1/2"

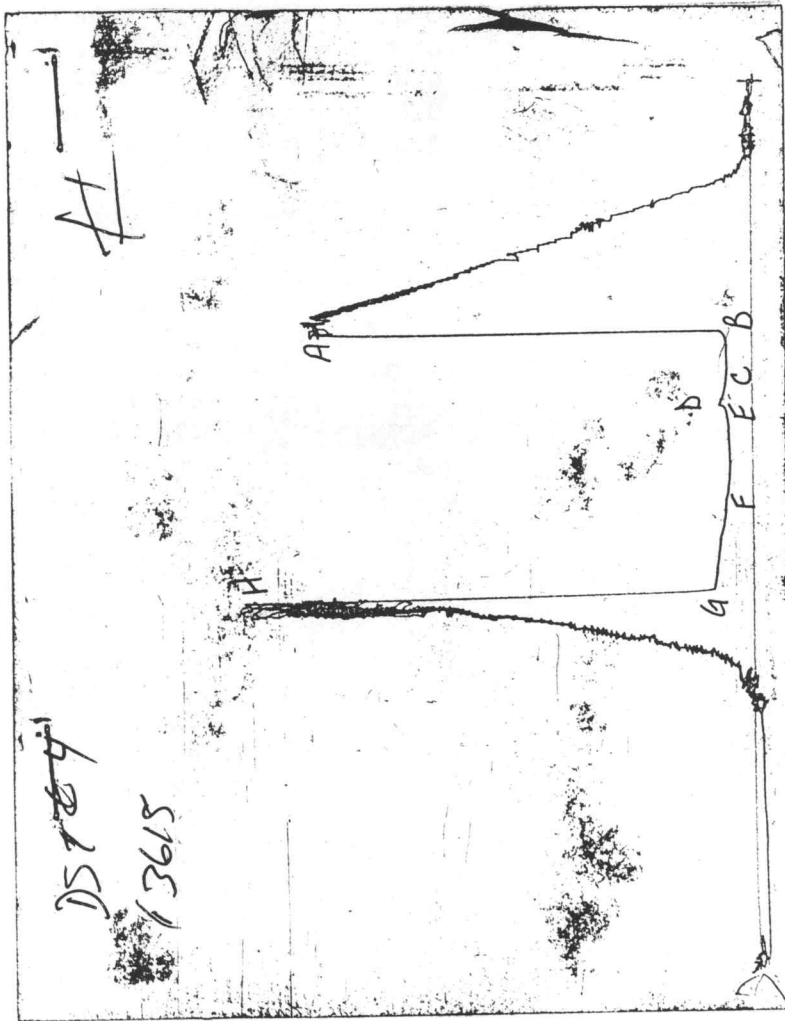
MUD DATA-----

Mud Type	Chemical
Weight	0.00 lb/c
Vis.	0.00 S/L
W.L.	0.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Tom Horacek
Co. Rep.	Wes Hansen
Contr.	Murfin
Rig #	20
Unit #	
Pump T.	

SAMPLES:
 SENT TO:

Test Successful: Y

CHART PAGE



This is an actual photograph of an AK1 recorder chart

TRILOBITE TESTING L.L.C.

OPERATOR : Hugoton Energy Corp.

DATE 07/15/95

WELL NAME: MLP Clawson #3-9
 LOCATION : 9-29S-34W, Haskell County
 INTERVAL : 5400.00 To 5440.00 ft

KB 2998.00 ft TICKET NO: 8167 DST #5
 GR 0.00 ft FORMATION: Chester sand
 TD 5440.00 ft TEST TYPE: CONVENTIAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30	Rec. AK-1	AK-1	ALPINE			PF Fr. 30 to hr
SI 60	Range(Psi)	6300.0	6300.0	4995.0	0.0	0.0 IS Fr. to 1 hr
SF 45	Clock(hrs)	30416	30416			SF Fr. 45 to hr
FS 90	Depth(ft)	5437.0	5437.0	5404.0	0.0	0.0 FS Fr. to 1.5 hr

	Field	1	2	3	4	
A. Init Hydro	2738.0	2723.0	2687.0	0.0	0.0	T STARTED 9:45 hr
B. First Flow	200.0	188.0	3.0	0.0	0.0	T ON BOTM 12:1 hr
Bl. Final Flow	184.0	165.0	13.0	0.0	0.0	T OPEN 12:1 hr
C. In Shut-in	615.0	608.0	611.0	0.0	0.0	T PULLED 15:5 hr
D. Init Flow	184.0	163.0	16.0	0.0	0.0	T OUT 18:1 hr
E. Final Flow	153.0	146.0	23.0	0.0	0.0	
F. Fl Shut-in	615.0	608.0	610.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2393.0	2409.0	2641.0	0.0	0.0	Tool Wt. 18000.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 95000.00 lbs
						Initial Str Wt 66000.00 lbs
						Unseated Str Wt 46000.00 lbs
						Bot Choke 7.50 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 293.00 ft
						D.P. Length 5101.00 ft

RECOVERY

Tot Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
 10.00 ft of Oil Cut Mud - 10% oil, 90% mud
 60.00 ft of Gassy Oil Cut Mud - 10% gas, 15% oil, 75% 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

MUD DATA-----

Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 47.00 S/L
 W.L. 9.60 in3
 F.C. 0.00 in
 Mud Drop Y 25.0 ft
 Amt. of fill 0.00 ft
 Btm. H. Temp. 123.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Mike Colantonio
 Co. Rep. Wes Hansen
 Contr. Murfin Drlg.
 Rig # 20
 Unit #
 Pump T.

BLOW DESCRIPTION

Initial Blow -
 Fair blow, built to 9 1/2"

Initial Shutin -
 Bled off 2", no blow back

Final Blow -
 Strong blow, bottom of bucket as soon
 as tool open

Final Shutin -
 Bled off 2", no blow back

SAMPLES: None

SENT TO:

Test Successful: Y

TEST HISTORY

#8167 DST. #5 M.L.P. Clausen #3-9 Hugoton Energy Corp.

Flag Points

t (Min.)	P (PSig)
A: 0.00	2687.11
B: 0.00	2.68
C: 24.00	13.25
D: 58.00	611.07
E: 0.00	16.02
F: 42.00	23.16
G: 92.00	609.56
Q: 0.00	2640.53

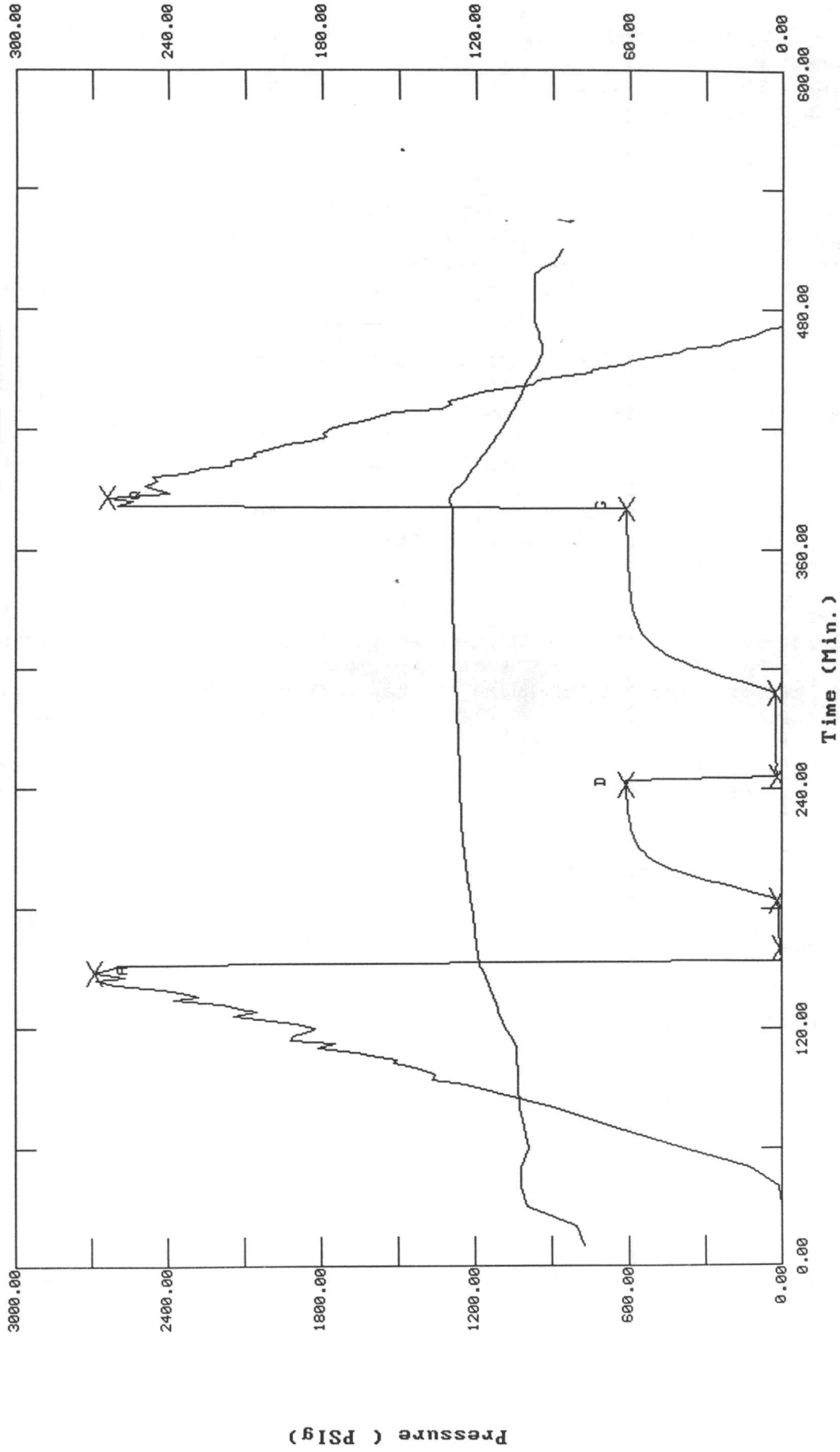
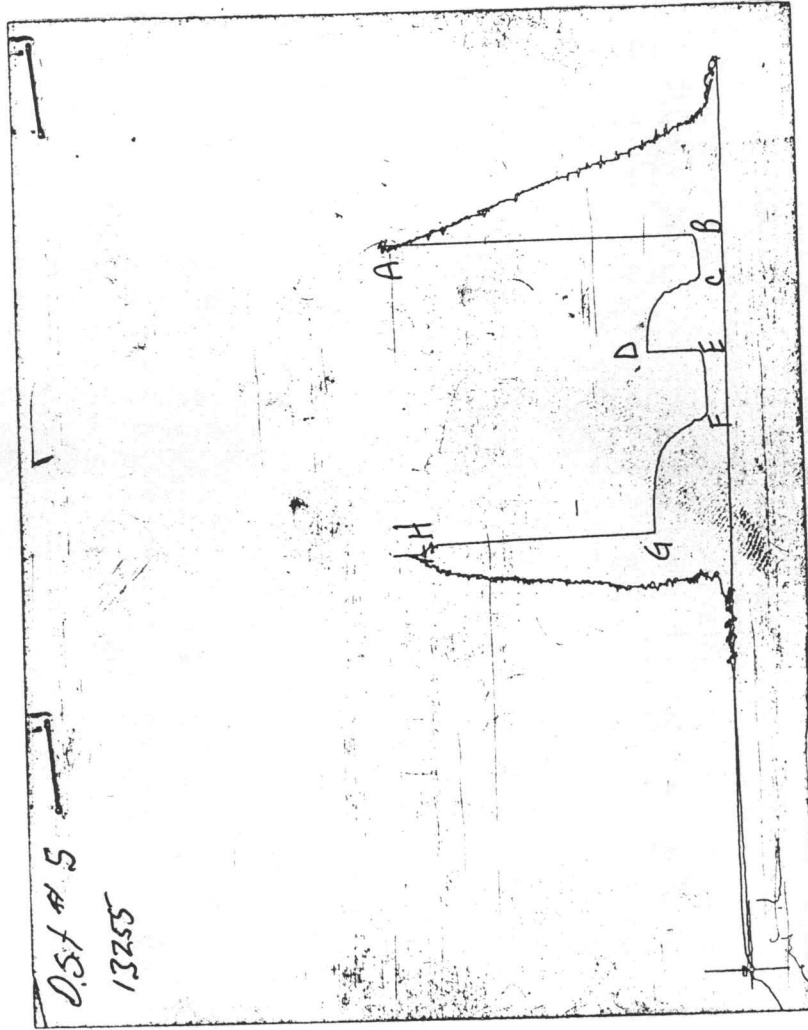


CHART PAGE



This is an actual photograph of an AK1 recorder chart

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: #8167 DST.#5 M.L.P. Clawson #3-9 Hugoton Energy Corp.

DATE: 07/15/95

TIME: 08:39:00

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
**** Initial Hydro.	148.00	2687.1	0.0	116.42		
**** Start Flow 1	0.00	2.7	0.0	119.12		
	2.00	4.9	2.2	119.30		
	4.00	6.2	3.5	119.48		
	6.00	7.5	4.8	119.66		
	8.00	8.7	6.0	119.84		
	10.00	9.6	7.0	120.02		
	12.00	10	7.3	120.20		
	14.00	10.6	7.9	120.38		
	16.00	11.2	8.6	120.56		
	18.00	12.2	9.6	120.74		
	20.00	12.6	9.9	120.92		
	22.00	13.3	10.6	121.28		
**** End Flow 1	24.00	13.3	10.6	121.46		
**** Start Shutin 1	0.00	13.3	0.0	121.46	0.0000	0.000
	2.00	50.8	37.5	121.64	13.0000	0.003
	4.00	103.1	89.8	121.82	7.0000	0.011
	6.00	163.1	149.8	122.18	5.0000	0.027
	8.00	226.9	213.7	122.36	4.0000	0.051
	10.00	290.5	277.3	122.72	3.4000	0.084
	12.00	348.6	335.4	122.90	3.0000	0.122
	14.00	399.2	386.0	123.08	2.7143	0.159
	16.00	441.6	428.4	123.44	2.5000	0.195
	18.00	475.5	462.3	123.62	2.3333	0.226
	20.00	502.8	489.6	123.80	2.2000	0.253
	22.00	524.0	510.7	123.98	2.0909	0.275
	24.00	541.2	527.9	124.16	2.0000	0.293
	26.00	554.4	541.2	124.34	1.9231	0.307
	28.00	565.4	552.2	124.52	1.8571	0.320
	30.00	573.8	560.6	124.70	1.8000	0.329
	32.00	580.8	567.5	124.88	1.7500	0.337
	34.00	586.0	572.7	124.88	1.7059	0.343
	36.00	590.4	577.2	125.06	1.6667	0.349
	38.00	594.3	581.0	125.24	1.6316	0.353
	40.00	597.3	584.1	125.24	1.6000	0.357
	42.00	599.6	586.3	125.42	1.5714	0.359
	44.00	601.8	588.5	125.42	1.5455	0.362
	46.00	603.8	590.5	125.60	1.5217	0.365
	48.00	605.4	592.1	125.60	1.5000	0.366
	50.00	606.5	593.3	125.78	1.4800	0.368
	52.00	608.0	594.7	125.78	1.4615	0.370
	54.00	609.1	595.9	125.96	1.4444	0.371
	56.00	609.9	596.6	125.96	1.4286	0.372
**** End Shut-in 1	58.00	611.1	597.8	125.96	1.4138	0.373
**** Start Flow 2	0.00	16.0	0.0	126.14		
	2.00	17.0	1.0	126.14		
	4.00	19.1	3.1	126.14		
	6.00	18.5	2.5	126.14		
	8.00	19.2	3.2	126.14		
	10.00	19.0	2.9	126.14		
	12.00	19.7	3.7	126.32		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #8167 DST.#5 M.L.P. Clawson #3-9 Hugoton Energy Corp.

DATE: 07/15/95 TIME: 08:39:00

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	14.00	19.7	3.7	126.32		
	16.00	20.2	4.2	126.32		
	18.00	20.3	4.3	126.50		
	20.00	20.6	4.5	126.50		
	22.00	20.6	4.6	126.50		
	24.00	21.1	5.0	126.68		
	26.00	21.4	5.4	126.68		
	28.00	21.1	5.1	126.86		
	30.00	21.6	5.6	126.86		
	32.00	21.4	5.4	127.04		
	34.00	21.7	5.7	127.04		
	36.00	22.1	6.0	127.04		
	38.00	22.2	6.2	127.22		
	40.00	22.2	6.2	127.22		
***** End Flow 2	42.00	23.2	7.1	127.40		
***** Start Shutin 2	0.00	23.2	0.0	127.40	0.0000	0.001
	2.00	53.6	30.5	127.58	34.0000	0.003
	4.00	107.2	84.0	127.58	17.5000	0.011
	6.00	161.0	137.9	127.76	12.0000	0.026
	8.00	214.7	191.5	127.94	9.2500	0.046
	10.00	265.6	242.5	127.94	7.6000	0.071
	12.00	313.2	290.1	128.12	6.5000	0.098
	14.00	356.2	333.0	128.12	5.7143	0.127
	16.00	394.9	371.7	128.30	5.1250	0.156
	18.00	428.9	405.8	128.30	4.6667	0.184
	20.00	458.4	435.2	128.30	4.3000	0.210
	22.00	483.8	460.6	128.48	4.0000	0.234
	24.00	504.7	481.6	128.48	3.7500	0.255
	26.00	521.9	498.7	128.48	3.5385	0.272
	28.00	536.0	512.8	128.48	3.3571	0.287
	30.00	547.5	524.3	128.48	3.2000	0.300
	32.00	556.9	533.7	128.48	3.0625	0.310
	34.00	564.7	541.5	128.48	2.9412	0.319
	36.00	570.7	547.5	128.66	2.8333	0.326
	38.00	576.1	552.9	128.66	2.7368	0.332
	40.00	580.4	557.2	128.66	2.6500	0.337
	42.00	583.7	560.6	128.66	2.5714	0.341
	44.00	587.0	563.8	128.66	2.5000	0.345
	46.00	589.6	566.4	128.66	2.4348	0.348
	48.00	591.9	568.8	128.66	2.3750	0.350
	50.00	594.0	570.9	128.66	2.3200	0.353
	52.00	595.5	572.4	128.66	2.2692	0.355
	54.00	597.2	574.1	128.84	2.2222	0.357
	56.00	598.6	575.4	128.84	2.1786	0.358
	58.00	599.7	576.5	128.84	2.1379	0.360
	60.00	600.9	577.8	128.84	2.1000	0.361
	62.00	601.8	578.7	128.84	2.0645	0.362
	64.00	602.9	579.8	128.84	2.0312	0.364
	66.00	603.5	580.4	128.84	2.0000	0.364
	68.00	604.1	580.9	128.84	1.9706	0.365
	70.00	604.8	581.6	128.84	1.9429	0.366

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: #8167 DST.#5 M.L.P. Clawson #3-9 Hugoton Energy Corp.

DATE: 07/15/95 TIME: 08:39:00

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	72.00	605.4	582.3	128.84	1.9167	0.367
	74.00	606.0	582.9	128.84	1.8919	0.367
	76.00	606.5	583.4	128.84	1.8684	0.368
	78.00	607.0	583.8	129.02	1.8462	0.368
	80.00	607.5	584.4	129.02	1.8250	0.369
	82.00	607.8	584.6	129.02	1.8049	0.369
	84.00	608.1	585.0	129.02	1.7857	0.370
	86.00	608.7	585.6	129.02	1.7674	0.371
	88.00	608.9	585.7	129.02	1.7500	0.371
	90.00	609.1	586.0	129.02	1.7333	0.371
***** End Shut-in 2	92.00	609.6	586.4	129.02	1.7174	0.372
***** Final Hydro.	386.00	2640.5	0.0	130.10		

CALCULATED RECOVERY ANAL DRILL COLLARS

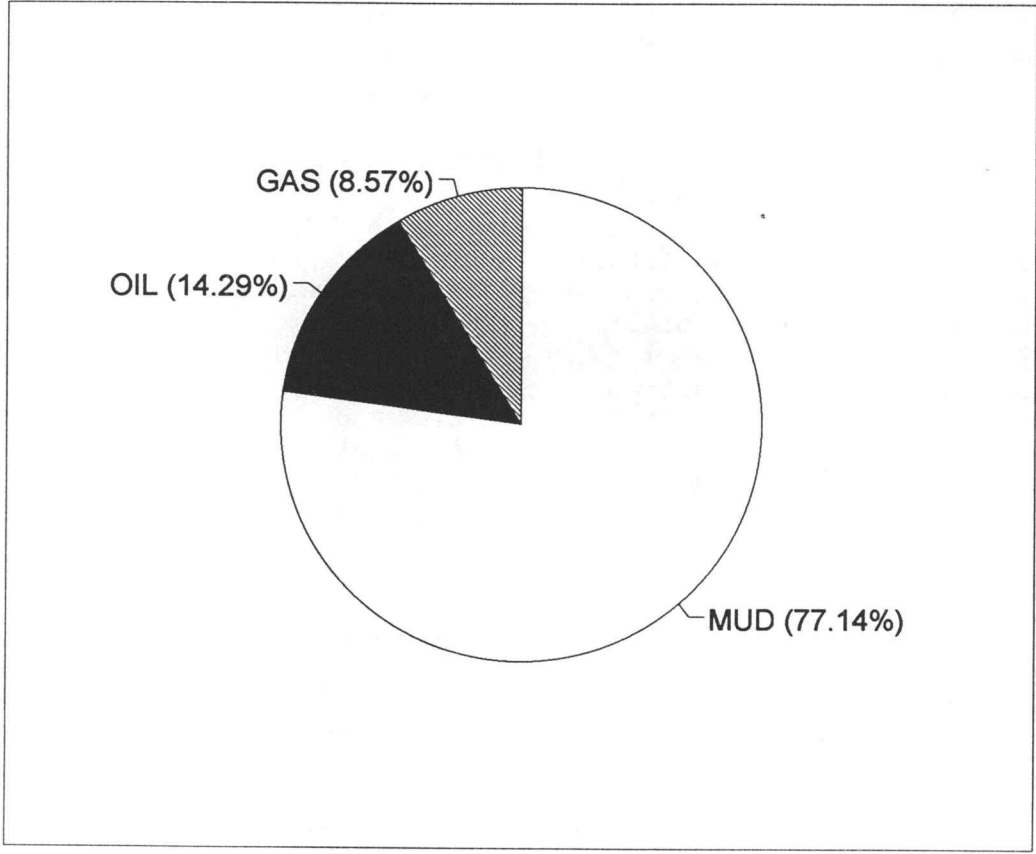
DST # 5

TICKET # 8167

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	10		0	10	1		0	90	9
2	60	10	6	15	9		0	75	45
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	70	8.57	6	14.29	10	0.00	0	77.14	54

HRS OPE BBL/DAY

BBL OIL=	0.0489	*	1.25	0.93888
BBL WAT	0	*		0
BBL MUD	0.26406			
BBL GAS	0.02934			

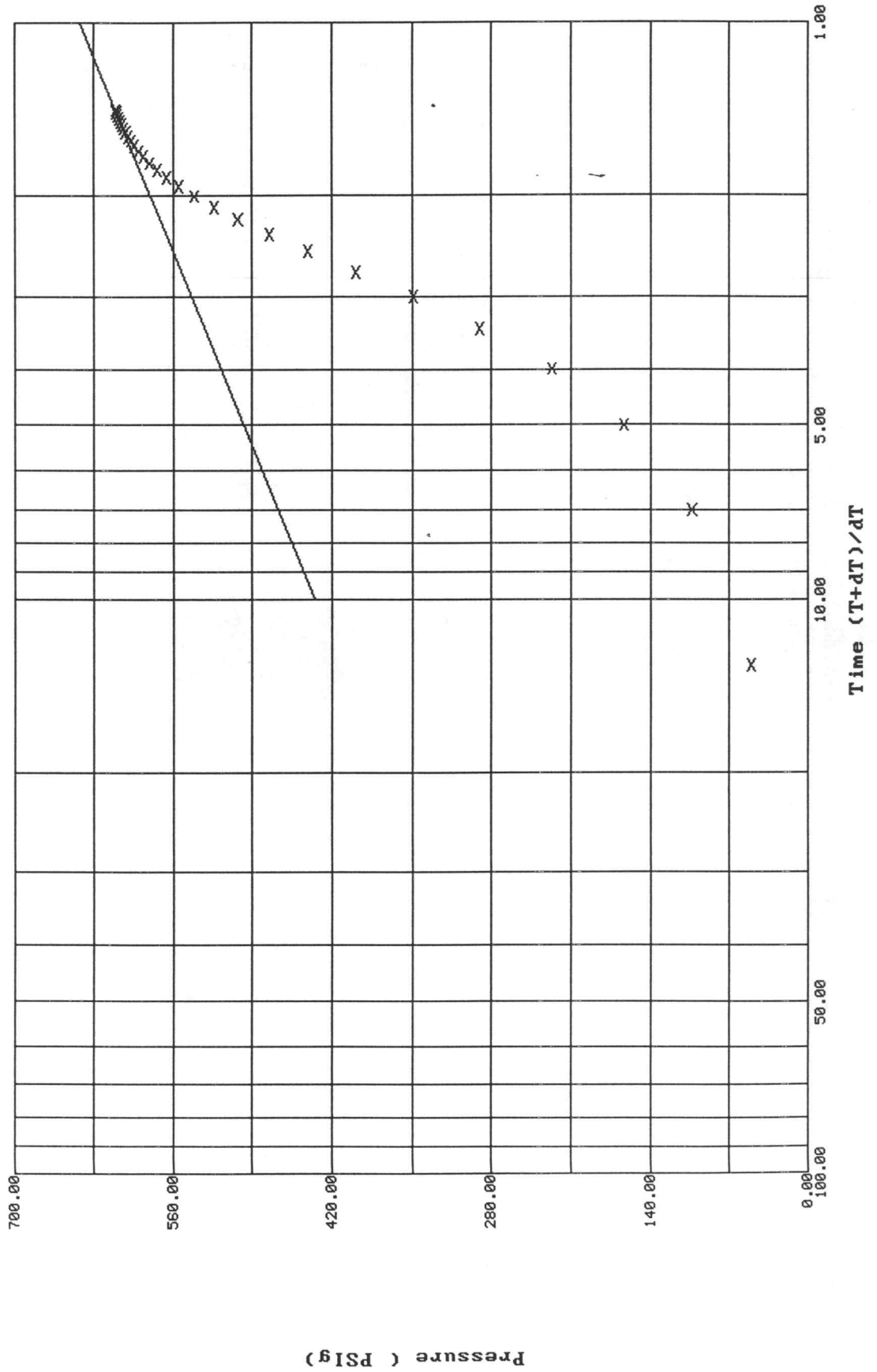


Horner Plot: shut-in #1

#8167 DST.#5 M.L.P. Clawson #3-9 Hugoton Energy Corp.

Slope: 206.5569 PSig/cycle

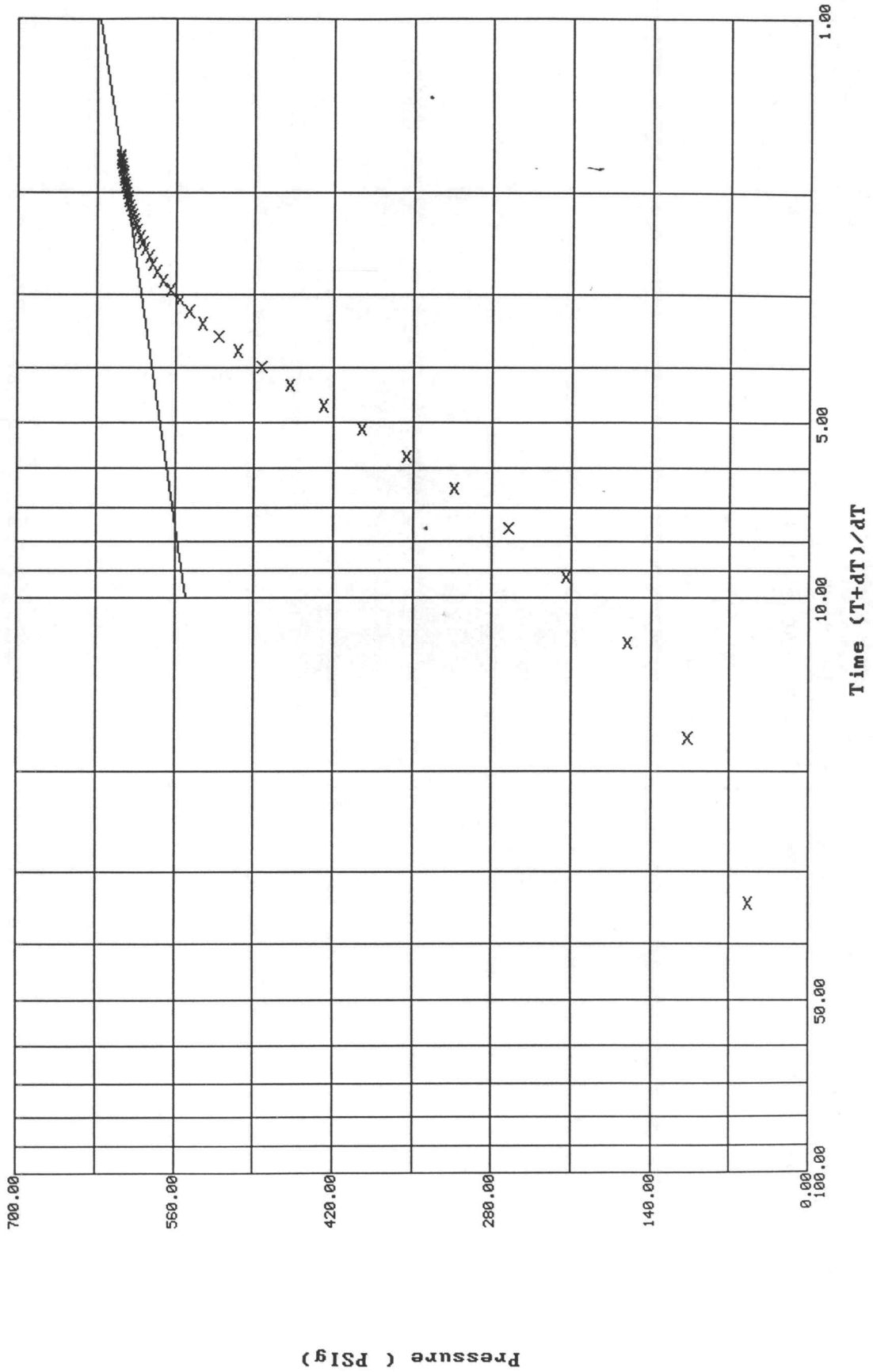
Ext. Pressure: 642.0502 PSig



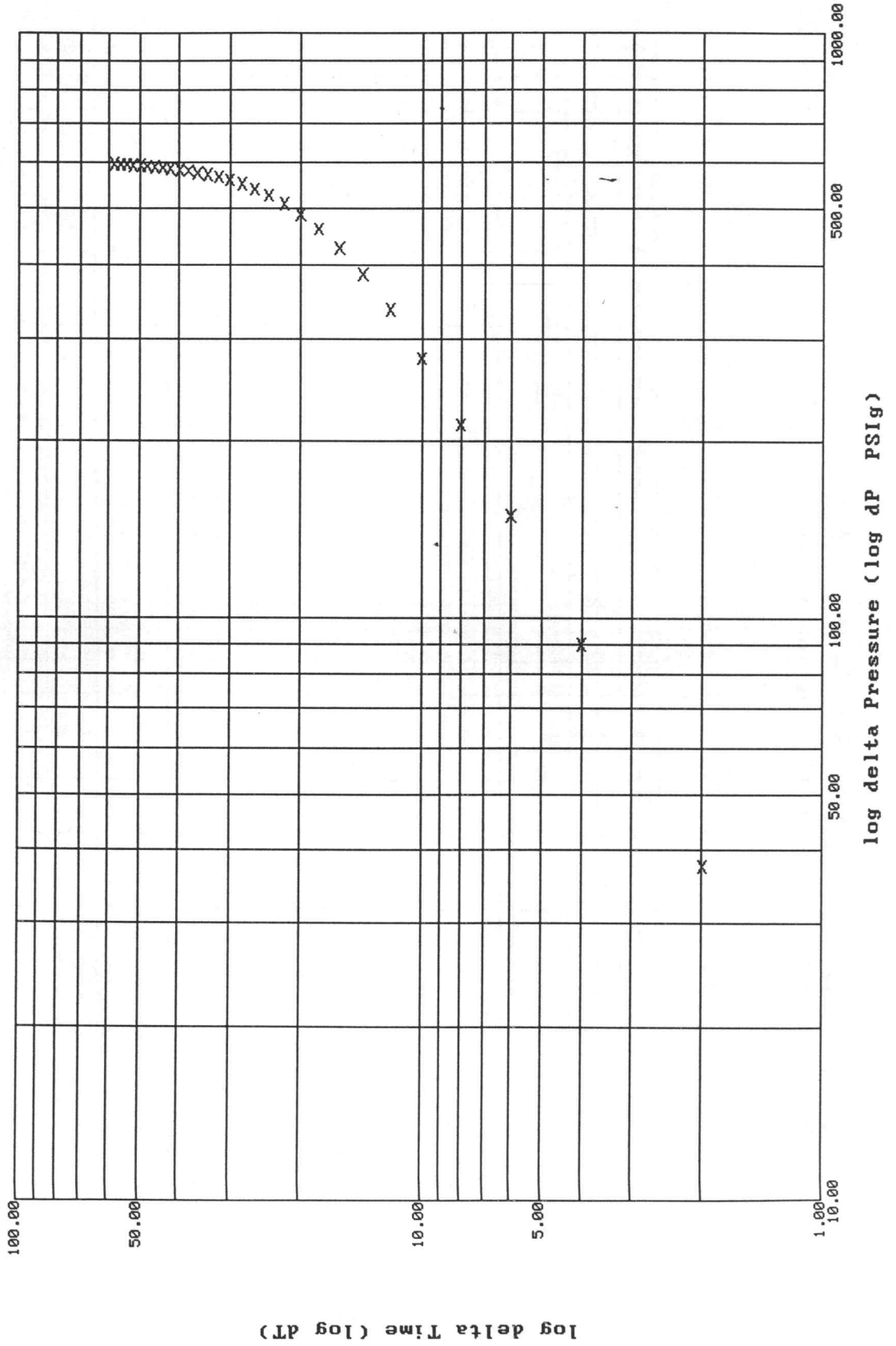
Horner Plot: shut-in #2

#8167 DST.#5 M.L.P. Clawson #3-9 Hugoton Energy Corp.

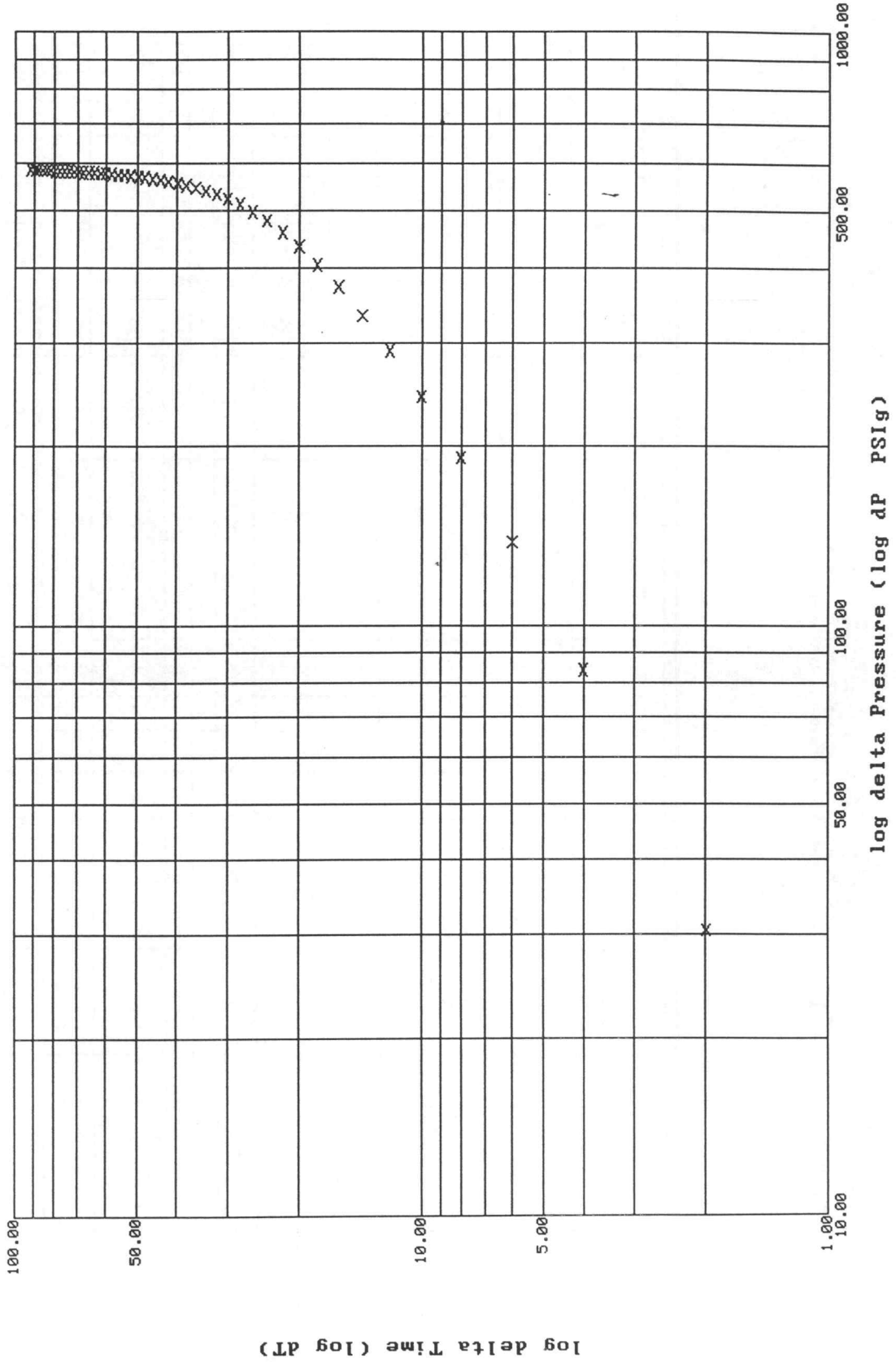
Slope: 77.0194 PSig/cycle
Ext. Pressure: 627.6151 PSig



McKinley Plot: shut-in #1
 #8167 DST.#5 M.L.P. Clawsen #3-9 Hugoton Energy Corp.

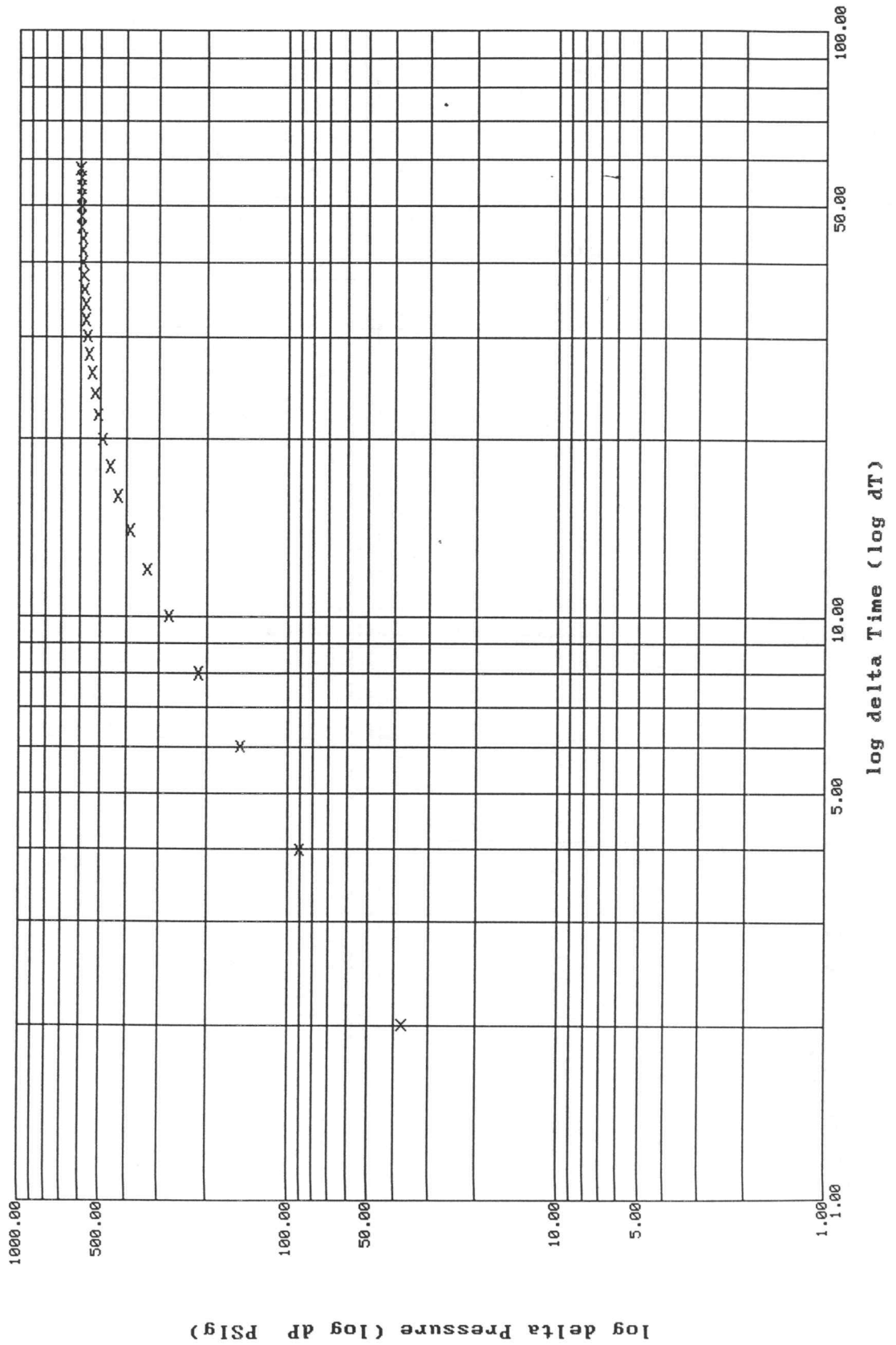


McKinley Plot: shut-in #2
#8167 DST.#5 M.L.P. Clawsen #3-9 Hugoton Energy Corp.



Ramey Plot: shut-in #1

#8167 DST.#5 M.L.P. Clawsen #3-9 Hugoton Energy Corp.



Ramey Plot: shut-in #2
#8167 DST.#5 M.L.P. Clawson #3-9 Hugoton Energy Corp.

