

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GASKILL #3-5 Test No. 1 Date 04/10/95
Company HUGOTON ENERGY CORPORATION Zone LANSING A
Address 301 N. MAIN SUITE 1900, WICHITA KS 67202 Elevation 2941
Co. Rep./Geo. CURTIS COVEY Cont. MURFIN #20 Est. Ft. of Pay 0
Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 4135-4157 Drill Pipe Size 4.5" XH
Anchor Length 22 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4130 Drill Collar - 2.25 Ft. Run 175
Bottom Packer Depth 4135 Mud Wt. 9.1 lb/Gal.
Total Depth 4157 Viscosity 44 Filtrate 10.8

Tool Open @ 10:40 PM Initial Blow WEAK BLOW GRADUALLY BUILT TO 10"
ISI - BLED OFF 2" ; NO BLOW BACK
Final Blow WEAK BLOW BUILT TO 3 1/2"
FSI - BLED OFF BLOW; NO BLOW BACK

Recovery - Total Feet 252 Flush Tool? NO

Rec. 240 Feet of GAS IN PIPE
Rec. 72 Feet of OIL CUT MUD - 20% OIL ; 80% MUD
Rec. 180 Feet of SALT WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 113 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.107 @ 82 °F Chlorides 61000 ppm Recovery Chlorides 1100 ppm System

(A) Initial Hydrostatic Mud 1963.52 PSI AK1 Recorder No. 13251 Range 4550

(B) First Initial Flow Pressure 39.10 PSI @ (depth) 4138 w / Clock No. 30416

(C) First Final Flow Pressure 63.35 PSI AK1 Recorder No. 13255 Range 6300

(D) Initial Shut-in Pressure 800.18 PSI @ (depth) 4154 w / Clock No. 8696

(E) Second Initial Flow Pressure 101.34 PSI AK1 Recorder No. _____ Range _____

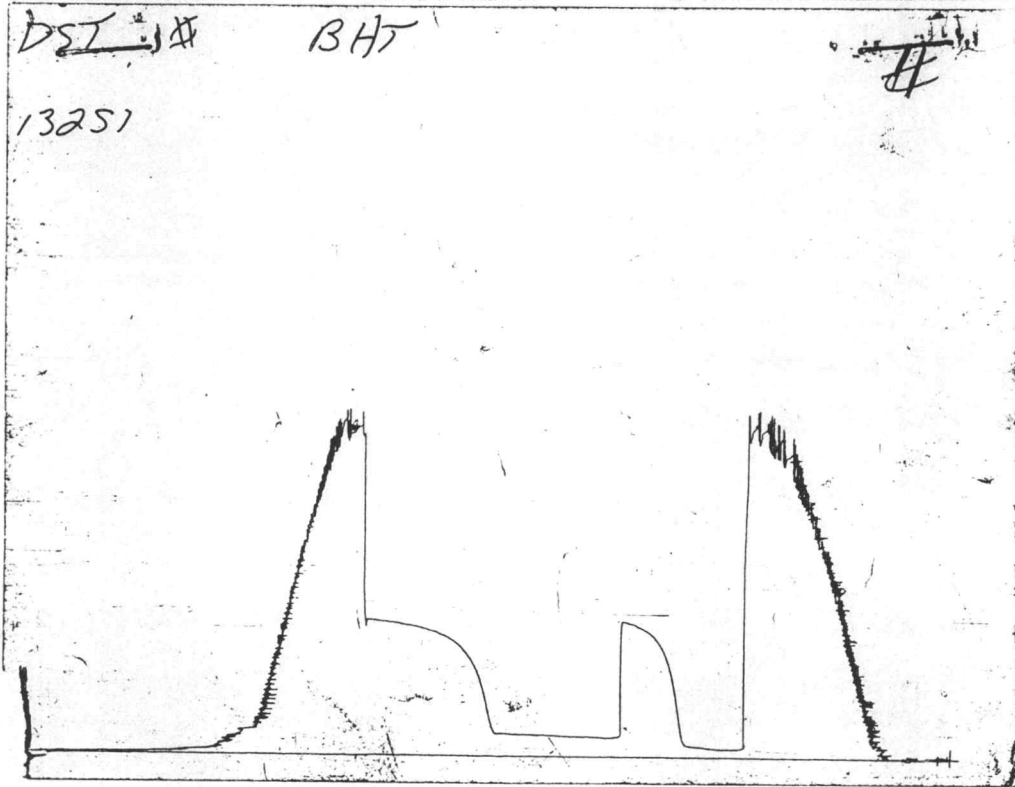
(F) Second Final Flow Pressure 126.72 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 808.17 PSI Initial Opening 45 Final Flow 90

(H) Final Hydrostatic Mud 1954.44 PSI Initial Shut-in 45 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1977	1963.52
(B) FIRST INITIAL FLOW PRESSURE	57	39.10
(C) FIRST FINAL FLOW PRESSURE	69	63.35
(D) INITIAL CLOSED-IN PRESSURE	815	800.18
(E) SECOND INITIAL FLOW PRESSURE	115	101.34
(F) SECOND FINAL FLOW PRESSURE	138	126.72
(G) FINAL CLOSED-IN PRESSURE	815	808.17
(H) FINAL HYDROSTATIC MUD	1943	1954.44

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name GASKILL #3-5 Test No. 2 Date 04/12/95
Company HUGOTON ENERGY CORPORATION Zone KANSAS CITY A
Address 301 N. MAIN SUITE 1900, WICHITA KS 67202 Elevation 2941
Co. Rep./Geo. CURTIS COVEY Cont. MURFIN #20 Est. Ft. of Pay 13
Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 4565-4598 Drill Pipe Size 4.5" XH
Anchor Length 33 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4560 Drill Collar - 2.25 Ft. Run 175
Bottom Packer Depth 4565 Mud Wt. 9.2 lb/Gal.
Total Depth 4598 Viscosity 50 Filtrate 8.4

Tool Open @ 1:10 PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET 1 MIN;
GAS TO SURFACE IN 7 MIN - GAUGED @ 39.0 MCF
Final Blow STRONG BLOW - BOTTOM OF BUCKET SOON AS OPEN TOOL;
GAUGED @ 21.9 MCF

Recovery - Total Feet 4478 Flush Tool? NO

Rec. 4358 Feet of CLEAN GASSY OIL - 30% GAS; 70% OIL
Rec. 120 Feet of GAS & OIL CUT MUD - 20% GAS; 40% OIL; 40% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 118 °F Gravity 36 °API @ 78 °F Corrected Gravity 34.8 API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2266.96 PSI AK1 Recorder No. 13251 Range 4550

(B) First Initial Flow Pressure 251.14 PSI @ (depth) 4568 w / Clock No. 30416

(C) First Final Flow Pressure 366.34 PSI AK1 Recorder No. 13255 Range 6300

(D) Initial Shut-in Pressure 1115.27 PSI @ (depth) 4595 w / Clock No. 8696

(E) Second Initial Flow Pressure 461.95 PSI AK1 Recorder No. _____ Range _____

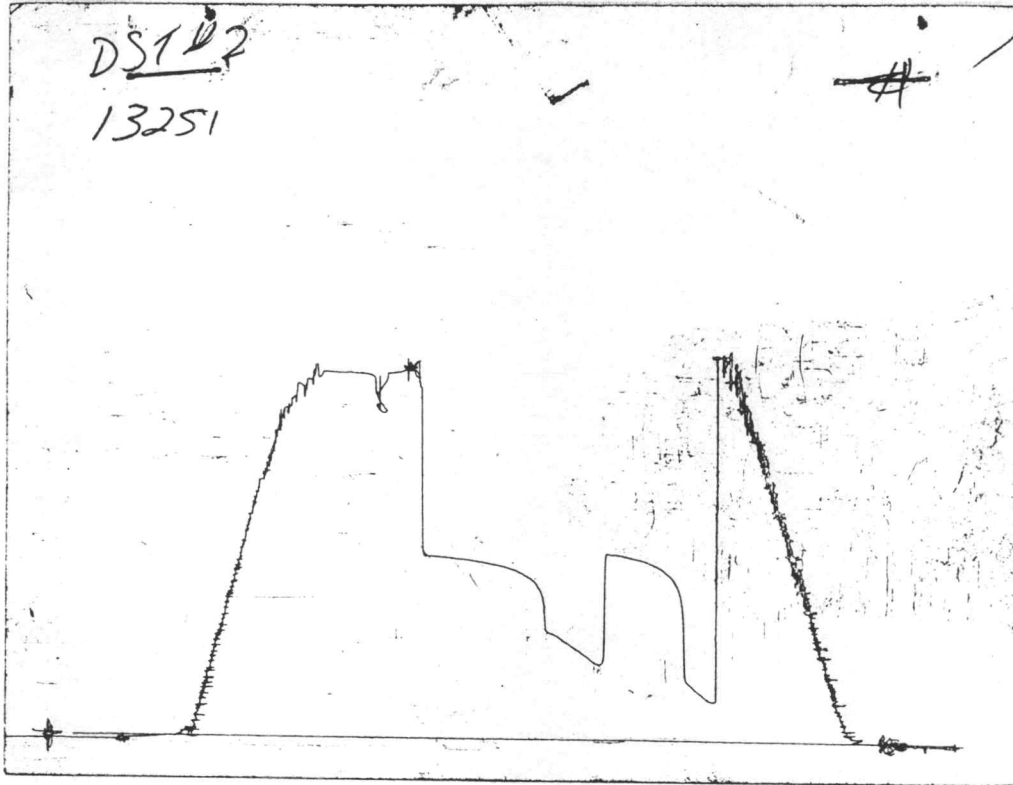
(F) Second Final Flow Pressure 662.12 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1093.58 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 2231.87 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2271	2266.96
(B) FIRST INITIAL FLOW PRESSURE	241	251.14
(C) FIRST FINAL FLOW PRESSURE	357	366.34
(D) INITIAL CLOSED-IN PRESSURE	1100	1115.27
(E) SECOND INITIAL FLOW PRESSURE	449	461.95
(F) SECOND FINAL FLOW PRESSURE	643	662.12
(G) FINAL CLOSED-IN PRESSURE	1089	1093.58
(H) FINAL HYDROSTATIC MUD	2226	2231.87

GAS VOLUME REPORT

HUGOTON ENERGY CORPORATION

GASKILL #3-5

DST # 2

<u>MIN</u>	<u>PSIG</u>	<u>ORIFICE</u>	<u>MCF/D</u>	<u>MIN</u>	<u>INS. WATER</u>	<u>ORIFICE</u>	<u>MCF/D</u>
10	12	0.375	72.6	5	62	0.5	49.4
20	10	0.375	65.3	10	20	0.5	28
30	4	0.375	39	20	20	0.75	63.5
				30	10	0.75	44.8
				40	22	0.5	29.4
				45	12	0.5	21.9

Remarks: GAS TO SURFACE IN 7 MINUTES - GAS WILL BURN

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GASKILL #3-5 Test No. 3 Date 04/13/95
Company HUGOTON ENERGY CO Zone MARMATON
Address 301 N MAIN, SUITE 1900, WICHITA KS 67202 Elevation 2941
Rep./Geo. CURTIS COVEY Cont. MURFIN #20 Est. Ft. of Pay 12
Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 4765-4788 Drill Pipe Size 4.5" XH
Interval Length 23 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4760 Drill Collar - 2.25 Ft. Run 175
Bottom Packer Depth 4765 Mud Wt. 9.1 lb/Gal.
Total Depth 4788 Viscosity 48 Filtrate 8

Time of Open @ 3:30 PM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 1 MIN
AS TO SURFACE IN 15 MIN (GAUGED AT 29.0 MCF)
Initial Blow STRONG BLOW - BOTTOM OF BUCKET SOON AS TOOL OPEN
GAUGED AT 34.0 MCF)

Recovery - Total Feet 526 Flush Tool? NO

Interval 406 Feet of CLEAN GASSY OIL - 50% GAS, 50% OIL
Interval 120 Feet of GAS AND OIL CUT MUD - 40% GAS, 20% OIL, 40% MUD
Interval _____ Feet of _____
Interval _____ Feet of _____
Interval _____ Feet of _____

Temperature 120 °F Gravity 40 °API @ 72 °F Corrected Gravity 39.1 °API
Viscosity _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1500 ppm System

Initial Hydrostatic Mud 2329.00 PSI AK1 Recorder No. 13251 Range 4550

First Initial Flow Pressure 69.10 PSI @ (depth) 4768 w / Clock No. 3416

First Final Flow Pressure 96.70 PSI AK1 Recorder No. 13255 Range 6300

Initial Shut-in Pressure 1269.30 PSI @ (depth) 4785 w / Clock No. 8696

Second Initial Flow Pressure 112.90 PSI AK1 Recorder No. _____ Range _____

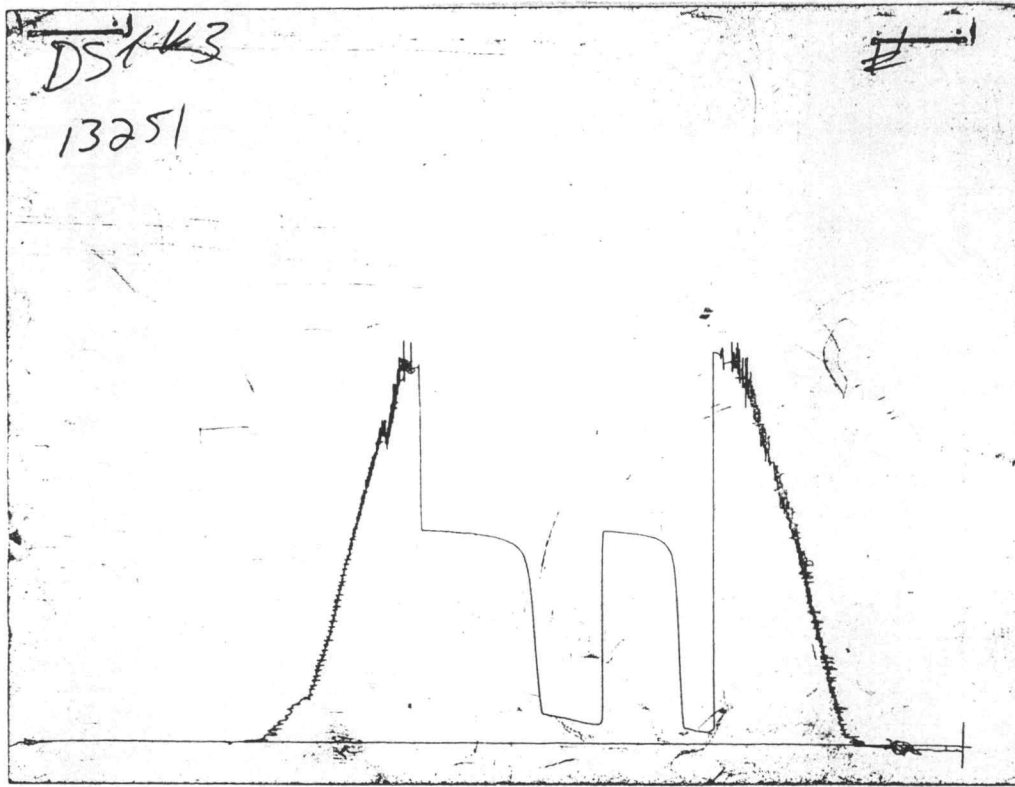
Second Final Flow Pressure 180.90 PSI @ (depth) _____ w / Clock No. _____

Final Shut-in Pressure 1270.50 PSI Initial Opening 30 Final Flow 45

Final Hydrostatic Mud 2239.80 PSI Initial Shut-in 60 Final Shut-in 90

Sur Representative TOM HORACEK

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2294	2329.00
(B) FIRST INITIAL FLOW PRESSURE	69	69.10
(C) FIRST FINAL FLOW PRESSURE	92	96.70
(D) INITIAL CLOSED-IN PRESSURE	1260	1269.30
(E) SECOND INITIAL FLOW PRESSURE	115	112.90
(F) SECOND FINAL FLOW PRESSURE	172	180.90
(G) FINAL CLOSED-IN PRESSURE	1260	1270.50
(H) FINAL HYDROSTATIC MUD	2237	2239.80

CALCULATED RECOVERY ANALYSIS

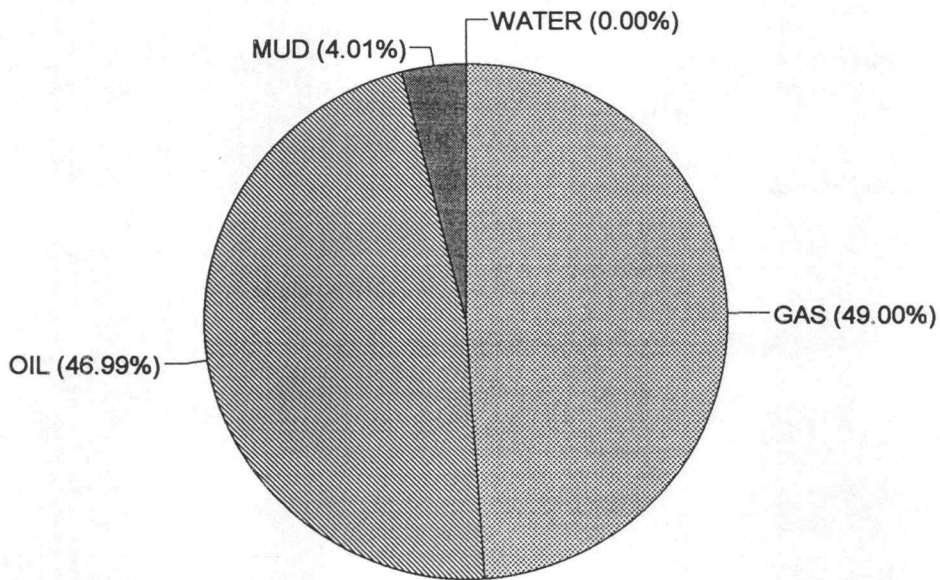
DST # 3

TICKET # 8218

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL PIPE	1 351	50	175.5	50	175.5	0		0	
	2		0		0	0		0	
	3		0		0	0		0	
	4		0		0	0		0	
	5		0		0	0		0	
	6		0		0	0		0	
WEIGHT PIPE	1		0		0	0		0	
	2		0		0	0		0	
	3		0		0	0		0	
	4		0		0	0		0	
DRL COLLAR	1 55	50	27.5	50	27.5	0		0	
	2 120	40	48	20	24	0	40	48	
	3		0		0	0		0	
	4		0		0	0		0	
	5		0		0	0		0	
TOTAL	526	47.71863	251	43.15589	227	0	0	9.125475	48

HRS OPE BBL/DAY

BBL OIL= 2.747445 * 1.25 52.75094
 BBL WATER= 0 * 0
 BBL MUD= 0.23472
 BBL GAS = 2.864805



GAS VOLUME REPORT

HUGOTON ENERGY CO

GASKILL #3-5

DST # 3

<u>MIN</u>	<u>PSIG</u>	<u>ORIFICE</u>	<u>MCF/D</u>	<u>MIN</u>	<u>PSIG</u>	<u>ORIFICE</u>	<u>MCF/D</u>
15	4	0.25	18.5	5	7	0.25	25
20	5	0.25	20.7	10	8	0.25	27
25	8	0.25	27	15	10	0.25	30.8
30	9	0.25	29	20	10	0.25	30.8
				25	12	0.25	34
				30	12	0.25	34
				35	12	0.25	34
				40	12	0.25	34
				45	12	0.25	34

Remarks: GAS TO SURFACE IN 15 MINUTES - GAS WILL BURN

TRILOBITE TESTING L.L.C.

OPERATOR : HUGOTON ENERGY CORP

DATE 04/15/95

WELL NAME: GASKILL #3-5

KB 0.00 ft

TICKET NO: 8219

DST #4

LOCATION : 5-31S-33W

GR 2941.00 ft

FORMATION: MORROW

INTERVAL : 5208.00 To 5290.00 ft

TD 5290.00 ft

TEST TYPE: CONVENTIONAL

RECORDED DATA

mins		Field	1	2	3	4	TIME DATA-----		
30	Rec.	13251	13251	ELEC			PF Fr.	30 to	hr
60	Range(Psi)	4550.0	4550.0	6000.0	0.0	0.0	IS Fr.	to	1 hr
60	Clock(hrs)	30416	30416				SF Fr.	to	1 hr
120	Depth(ft)	5287.0	5287.0	5218.0	0.0	0.0	FS Fr.	to	2 hr

	Field	1	2	3	4		
Init Hydro	2588.0	2595.0	2602.0	0.0	0.0	T STARTED	hr
First Flow	80.0	93.0	36.0	0.0	0.0	T ON BOTM	hr
Final Flow	80.0	94.0	44.0	0.0	0.0	T OPEN	18:0 hr
In Shut-in	986.0	1001.0	1001.0	0.0	0.0	T PULLED	22:3 hr
Init Flow	92.0	93.0	39.0	0.0	0.0	T OUT	hr
Final Flow	80.0	77.0	41.0	0.0	0.0		
Fl Shut-in	1134.0	1129.0	1137.0	0.0	0.0	TOOL DATA-----	
Final Hydro	2543.0	2539.0	2531.0	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	120.00 ft
						D.P. Length	0.00 ft

RECOVERY

Test Fluid 70.00 ft of 70.00 ft in DC and 0.00 ft in DP
 0.00 ft of GASSY MUD - 2% GAS, 98% 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

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 120.00 ft
 D.P. Length 0.00 ft

APPARENT VISCOSITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type CHEMICAL
 Weight 9.10 lb/cf
 Vis. 50.00 S/L
 W.L. 7.60 in3
 F.C. 0.00 in
 Mud Drop

BLOW DESCRIPTION

INITIAL BLOW - STRONG BLOW, BUILT TO
 BOTTOM OF BUCKET IN 1 MIN

SI - BLED OFF BLOW, NO BLOW BACK

FINAL BLOW - BOTTOM OF BUCKET IN 30 SEC,
 GAS TO SURFACE IN 5 MIN -
 GAUGED AT 7.88 MCF

Amt. of fill 0.00 ft
 Btm. H. Temp. 133.00 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

SAMPLES:

SENT TO: CARAWAY

Tester TOM HORACEK
 Co. Rep. CURTIS COVEY
 Contr. MURFIN
 Rig # 20
 Unit #
 Pump T.

Test Successful: Y

TEST HISTORY

Hugoton Energy Co. Gaskill # 3-5 DST # 4

Flag Points

t (Min.) P (PSig)

- A: 0.00 2601.50
- B: 0.00 35.58
- C: 28.00 43.89
- D: 58.00 1000.75
- E: 0.00 38.93
- F: 58.00 40.53
- G: 122.00 1137.38
- Q: 0.00 2531.09

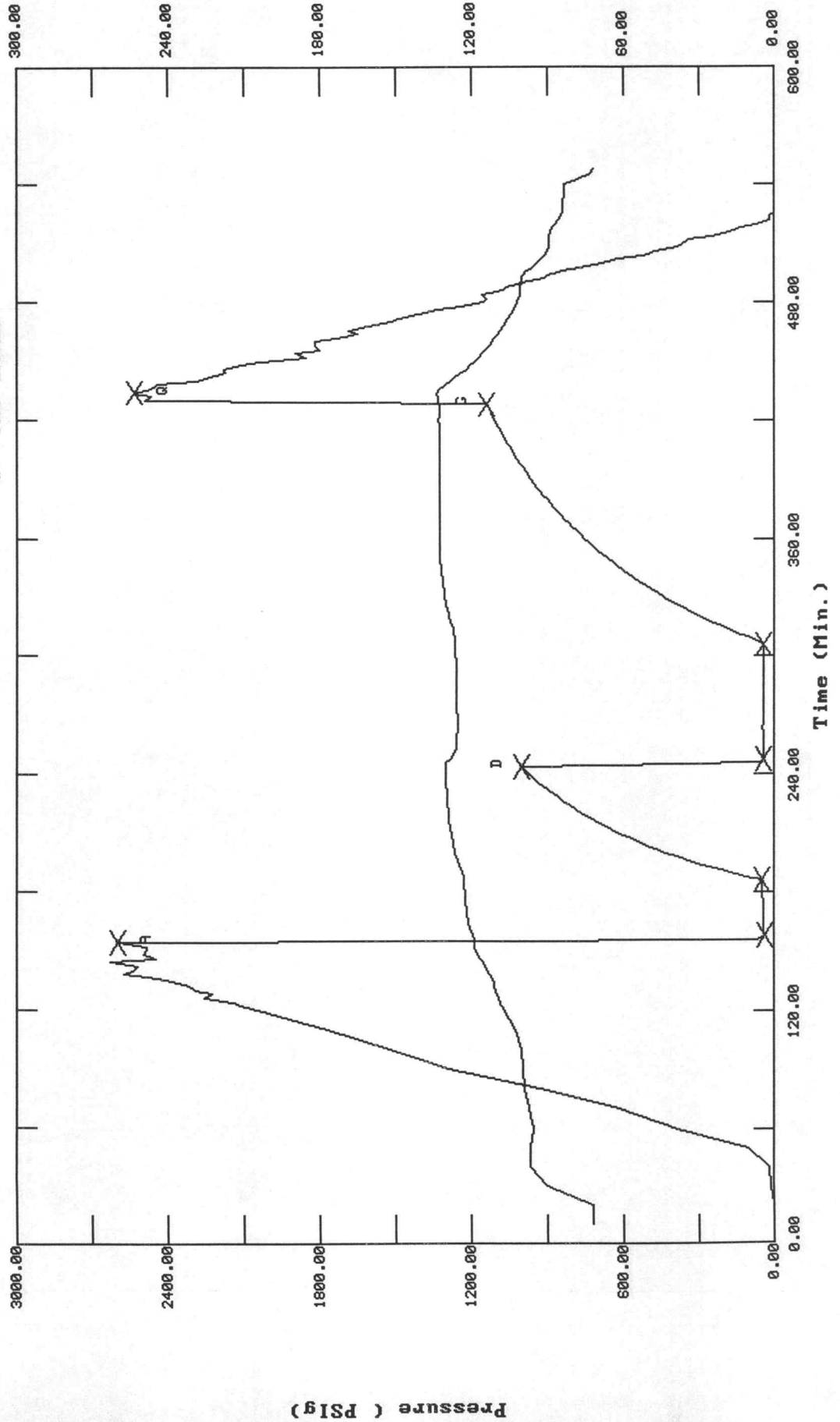
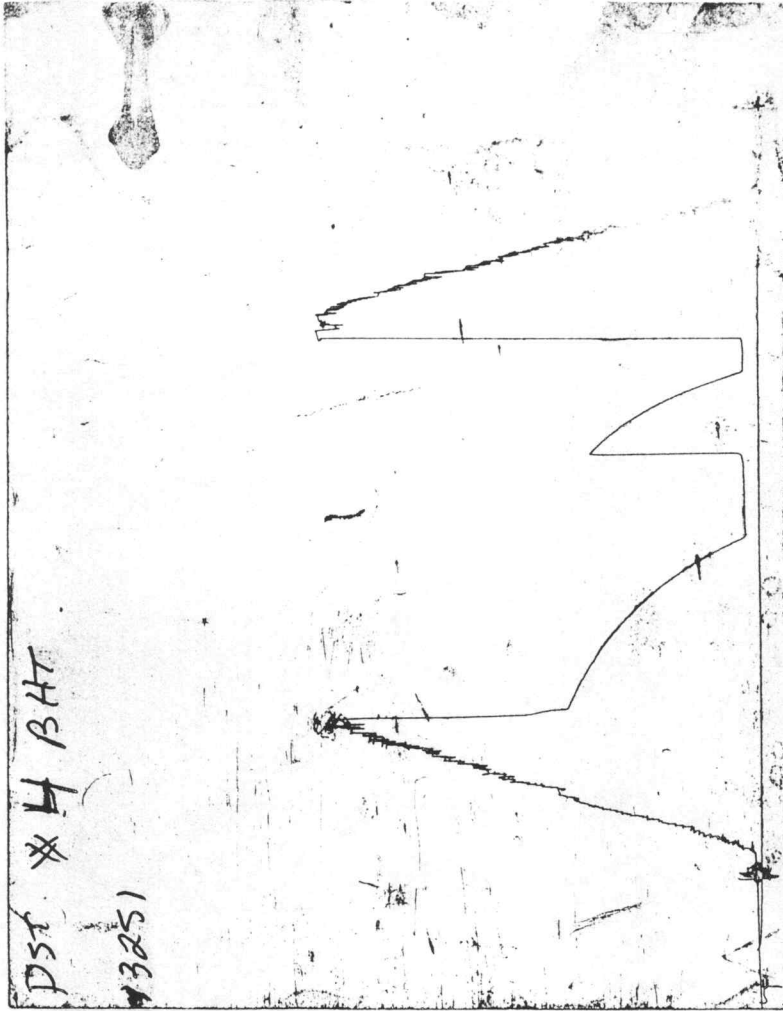


CHART PAGE



This is an actual photograph of an AK1 recorder chart

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

: Hugoton Energy Co. Gaskill # 3-5 DST # 4

: 04/15/95 TIME: 14:22:26

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
* Initial Hydro.	154.00	2601.5	0.0	118.94		
* Start Flow 1	0.00	35.6	0.0	119.48		
	2.00	37.4	1.8	120.20		
	4.00	38.6	3.0	120.56		
	6.00	38.8	3.3	121.10		
	8.00	39.3	3.7	121.28		
	10.00	39.9	4.4	121.64		
	12.00	40.4	4.9	121.82		
	14.00	41.5	6.0	122.00		
	16.00	42.0	6.5	122.18		
	18.00	42.1	6.5	122.36		
	20.00	42.8	7.2	122.54		
	22.00	43.0	7.4	122.54		
	24.00	43.4	7.8	122.72		
	26.00	43.5	7.9	122.90		
* End Flow 1	28.00	43.9	8.3	122.90		
* Start Shutin 1	0.00	43.9	0.0	122.90	0.0000	0.002
	2.00	109.9	66.0	123.08	15.0000	0.012
	4.00	173.9	130.0	123.44	8.0000	0.030
	6.00	232.7	188.8	123.98	5.6667	0.054
	8.00	287.3	243.4	124.70	4.5000	0.083
	10.00	338.0	294.1	125.24	3.8000	0.114
	12.00	385.2	341.3	125.78	3.3333	0.148
	14.00	429.5	385.6	126.32	3.0000	0.184
	16.00	471.0	427.1	126.68	2.7500	0.222
	18.00	510.0	466.1	127.04	2.5556	0.260
	20.00	546.9	503.1	127.40	2.4000	0.299
	22.00	581.8	537.9	127.76	2.2727	0.338
	24.00	615.0	571.1	127.94	2.1667	0.378
	26.00	646.5	602.6	128.30	2.0769	0.418
	28.00	676.4	632.6	128.48	2.0000	0.458
	30.00	705.2	661.4	128.66	1.9333	0.497
	32.00	732.6	688.7	128.84	1.8750	0.537
	34.00	758.7	714.8	129.02	1.8235	0.576
	36.00	783.8	739.9	129.20	1.7778	0.614
	38.00	807.7	763.8	129.38	1.7368	0.652
	40.00	830.6	786.7	129.38	1.7000	0.690
	42.00	852.7	808.8	129.56	1.6667	0.727
	44.00	873.8	830.0	129.74	1.6364	0.764
	46.00	894.2	850.4	129.74	1.6087	0.800
	48.00	913.9	870.0	129.92	1.5833	0.835
	50.00	932.6	888.7	130.10	1.5600	0.870
	52.00	950.6	906.7	130.10	1.5385	0.904
	54.00	967.9	924.0	130.10	1.5185	0.937
	56.00	984.6	940.7	130.10	1.5000	0.970
* End Shut-in 1	58.00	1000.7	956.9	130.10	1.4828	1.001
* Start Flow 2	0.00	38.9	0.0	128.12		
	2.00	41.4	2.4	127.04		
	4.00	40.0	1.1	126.50		
	6.00	40.9	2.0	126.14		
	8.00	41.3	2.4	125.78		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Hugoton Energy Co. Gaskill # 3-5 DST # 4

DATE: 04/15/95 TIME: 14:22:26

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	10.00	41.5	2.5	125.78		
	12.00	41.5	2.5	125.78		
	14.00	42.2	3.3	125.60		
	16.00	43.0	4.0	125.60		
	18.00	41.6	2.7	125.60		
	20.00	42.0	3.0	125.60		
	22.00	41.3	2.4	125.60		
	24.00	40.7	1.8	125.78		
	26.00	41.3	2.4	125.78		
	28.00	41.2	2.3	125.78		
	30.00	40.8	1.8	125.78		
	32.00	40.8	1.8	125.78		
	34.00	41.1	2.2	125.78		
	36.00	40.0	1.1	125.96		
	38.00	40.8	1.8	125.96		
	40.00	41.2	2.3	125.96		
	42.00	40.4	1.5	125.96		
	44.00	40.8	1.8	126.14		
	46.00	38.8	-0.2	126.14		
	48.00	39.5	0.6	126.14		
	50.00	42.1	3.2	126.14		
	52.00	41.4	2.4	126.32		
	54.00	40.3	1.3	126.32		
	56.00	37.3	-1.6	126.32		
***** End Flow 2	58.00	40.5	1.6	126.32		
***** Start Shutin 2	0.00	40.5	0.0	126.32	0.0000	0.002
	2.00	64.6	24.1	126.50	44.0000	0.004
	4.00	106.7	66.2	126.68	22.5000	0.011
	6.00	146.4	105.8	127.04	15.3333	0.021
	8.00	184.1	143.6	127.40	11.7500	0.034
	10.00	220.1	179.5	127.94	9.6000	0.048
	12.00	254.4	213.8	128.30	8.1667	0.065
	14.00	287.3	246.7	128.84	7.1429	0.083
	16.00	318.8	278.3	129.20	6.3750	0.102
	18.00	349.0	308.5	129.56	5.7778	0.122
	20.00	378.2	337.6	129.92	5.3000	0.143
	22.00	406.2	365.7	130.10	4.9091	0.165
	24.00	433.3	392.8	130.46	4.5833	0.188
	26.00	459.4	418.9	130.64	4.3077	0.211
	28.00	484.8	444.2	131.00	4.0714	0.235
	30.00	509.2	468.7	131.18	3.8667	0.259
	32.00	532.9	492.4	131.36	3.6875	0.284
	34.00	555.8	515.3	131.54	3.5294	0.309
	36.00	578.3	537.7	131.72	3.3889	0.334
	38.00	599.8	559.3	131.90	3.2632	0.360
	40.00	620.8	580.3	132.08	3.1500	0.385
	42.00	641.2	600.7	132.26	3.0476	0.411
	44.00	661.0	620.5	132.26	2.9545	0.437
	46.00	680.3	639.8	132.44	2.8696	0.463
	48.00	699.0	658.5	132.44	2.7917	0.489
	50.00	717.2	676.6	132.62	2.7200	0.514

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Hugoton Energy Co. Gaskill # 3-5 DST # 4
 DATE: 04/15/95 TIME: 14:22:26

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶	
52.00	734.9	694.3	132.62	2.6538	0.540	
54.00	752.1	711.5	132.62	2.5926	0.566	
56.00	768.8	728.2	132.62	2.5357	0.591	
58.00	785.1	744.6	132.80	2.4828	0.616	
60.00	801.1	760.6	132.80	2.4333	0.642	
62.00	816.5	776.0	132.80	2.3871	0.667	
64.00	831.5	791.0	132.80	2.3438	0.691	
66.00	846.3	805.8	132.80	2.3030	0.716	
68.00	860.6	820.1	132.80	2.2647	0.741	
70.00	874.4	833.9	132.80	2.2286	0.765	
72.00	888.1	847.6	132.80	2.1944	0.789	
74.00	901.4	860.8	132.80	2.1622	0.812	
76.00	914.1	873.6	132.80	2.1316	0.836	
78.00	926.6	886.1	132.80	2.1026	0.859	
80.00	939.0	898.4	132.80	2.0750	0.882	
82.00	950.8	910.3	132.80	2.0488	0.904	
84.00	962.5	921.9	132.80	2.0238	0.926	
86.00	973.8	933.3	132.80	2.0000	0.948	
88.00	984.9	944.4	132.80	1.9773	0.970	
90.00	995.6	955.1	132.80	1.9556	0.991	
92.00	1006.2	965.7	132.80	1.9348	1.012	
94.00	1016.4	975.9	132.80	1.9149	1.033	
96.00	1026.5	986.0	132.80	1.8958	1.054	
98.00	1036.2	995.7	132.80	1.8776	1.074	
100.00	1045.8	1005.3	132.80	1.8600	1.094	
102.00	1055.1	1014.6	132.80	1.8431	1.113	
104.00	1064.2	1023.7	132.80	1.8269	1.133	
106.00	1073.1	1032.6	132.80	1.8113	1.152	
108.00	1081.8	1041.3	132.80	1.7963	1.170	
110.00	1090.4	1049.9	132.80	1.7818	1.189	
112.00	1098.7	1058.2	132.80	1.7679	1.207	
114.00	1106.7	1066.2	132.98	1.7544	1.225	
116.00	1114.7	1074.2	132.80	1.7414	1.243	
118.00	1122.4	1081.9	132.80	1.7288	1.260	
120.00	1130.0	1089.5	132.80	1.7167	1.277	
***** End Shut-in 2	122.00	1137.4	1096.9	132.80	1.7049	1.294
***** Final Hydro.	434.00	2531.1	0.0	133.52		

GAS RECOVERY

COMPANY: HUGOTON ENERGY CORP

DATE: 04/15/95

WELL NAME: GASKILL #3-5

KB Elev: 0.00 ft TICKET #8219 DST #4

WELL LOCATION: 5-31S-33W

GR Elev: 2941.00 ft FORMATION: MORROW

INTERVAL Fr.: 5208.00 To 5290.00 T.D.: 5290.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH MERLA

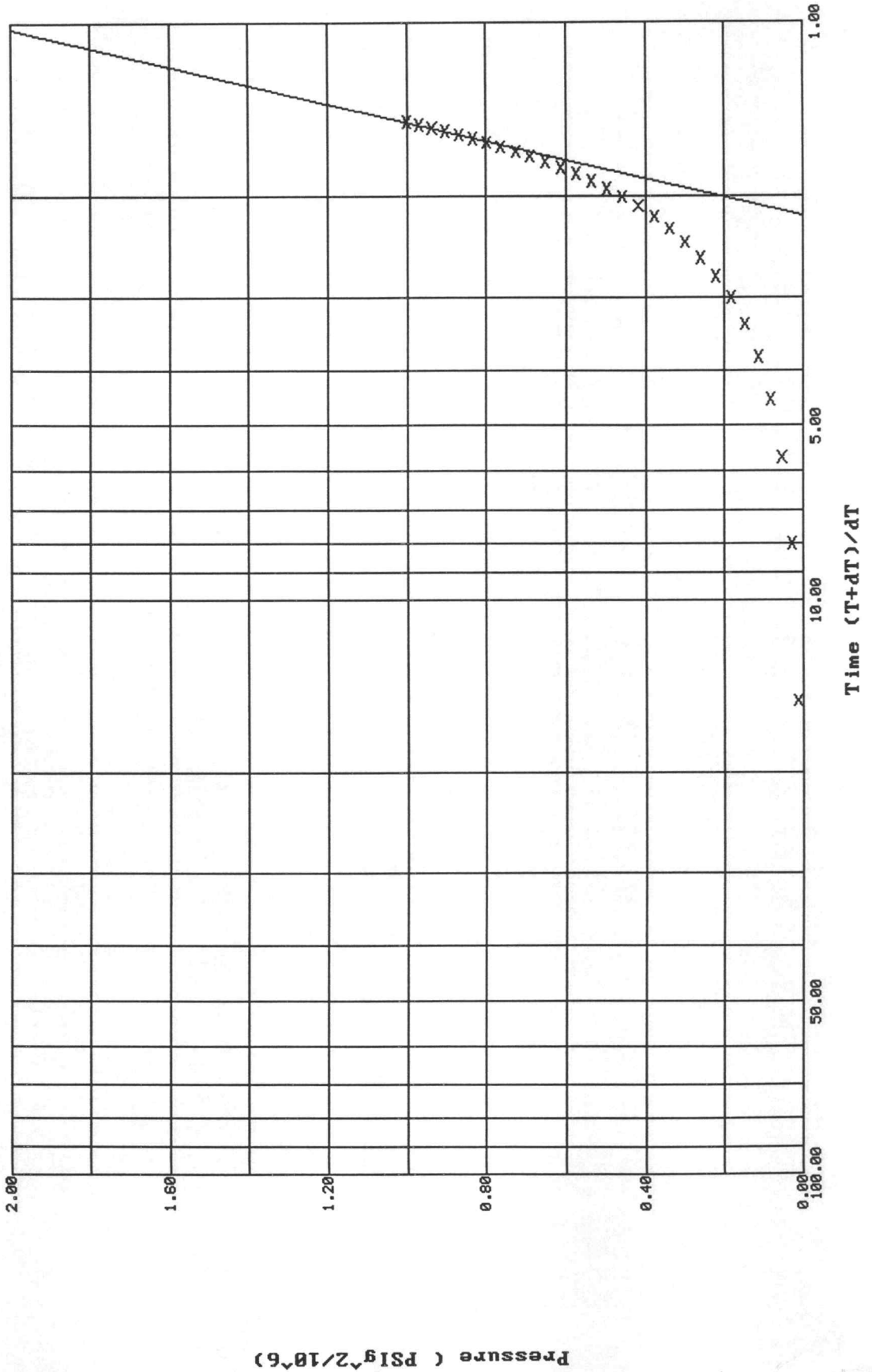
5	0.25	4	0	18.5
10	0.25	4	0	17.1
15	0.25	3	0	15.7
20	0.25	0	66	13.6
25	0.25	0	50	11.9
30	0.25	0	42	10.9
35	0.25	0	34	9.8
40	0.25	0	30	9.2
45	0.25	0	28	8.9
50	0.25	0	22	7.9
55	0.25	0	22	7.9
60	0.25	0	22	7.9

P² Horner Plot: shut-in #1

Hugoton Energy Co. Gaskill # 3-5 DST # 4

Slope: 6.2401 PSig²/10⁶/cycle

Ext. Pressure: 1438.3207 PSig

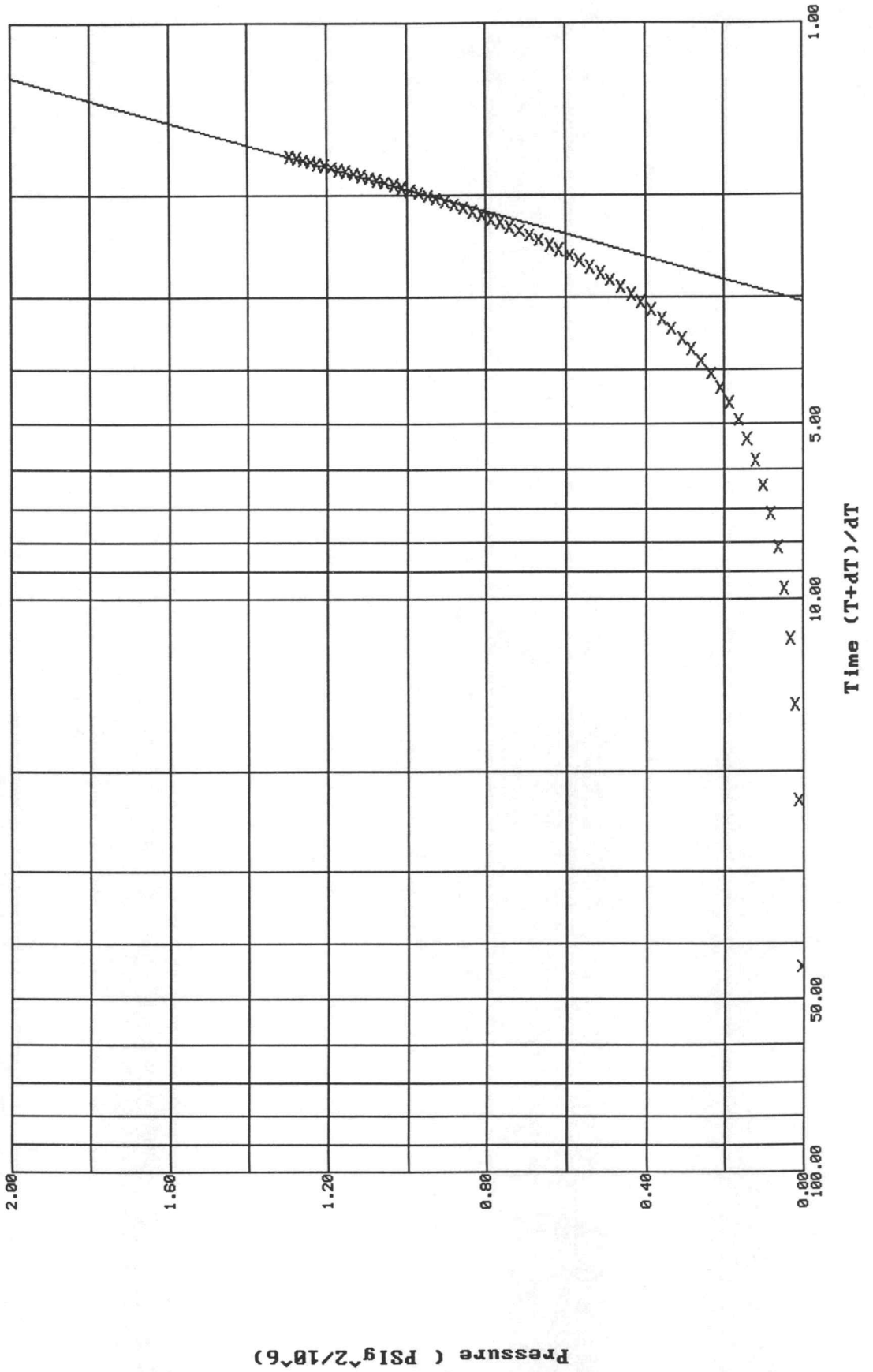


P² Horner Plot: shut-in #2

Hugoton Energy Co. Gaskill # 3-5 DST # 4

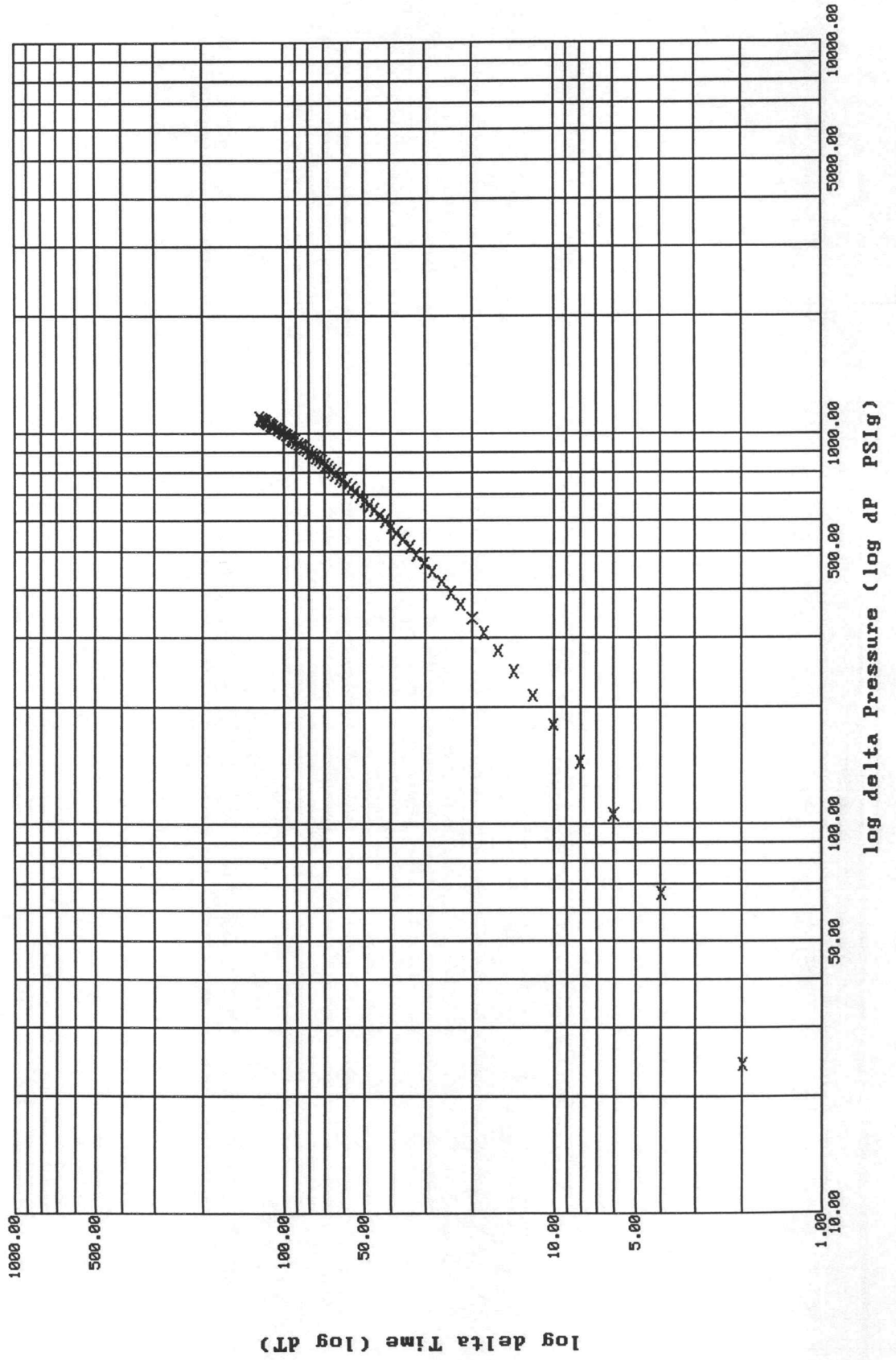
Slope: 5.1736 PSig²/10⁶/cycle

Ext. Pressure: 1577.5868 PSig



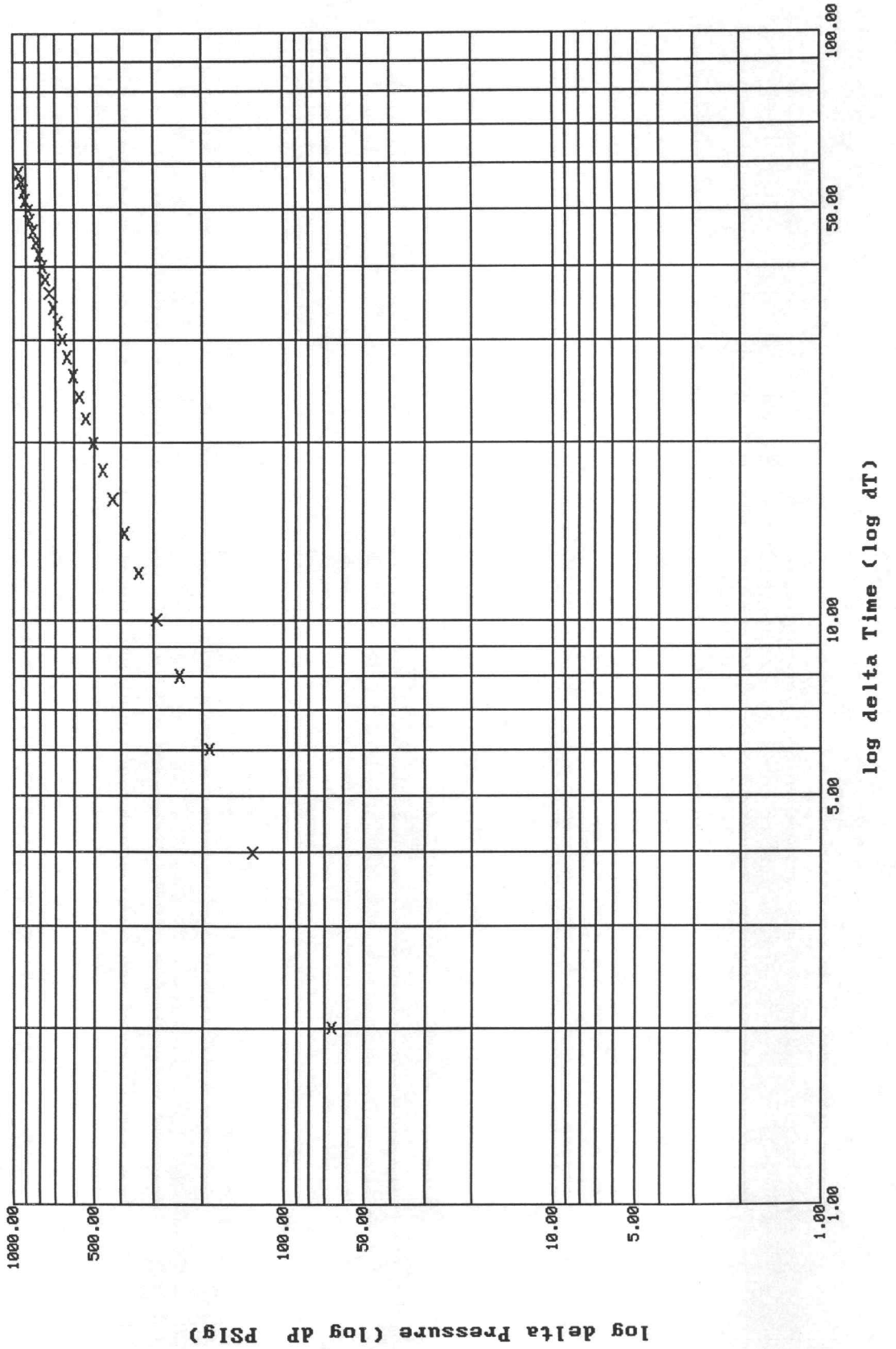
McKinley Plot: shut-in #2

Hugoton Energy Co. Gaskill # 3-5 DST # 4



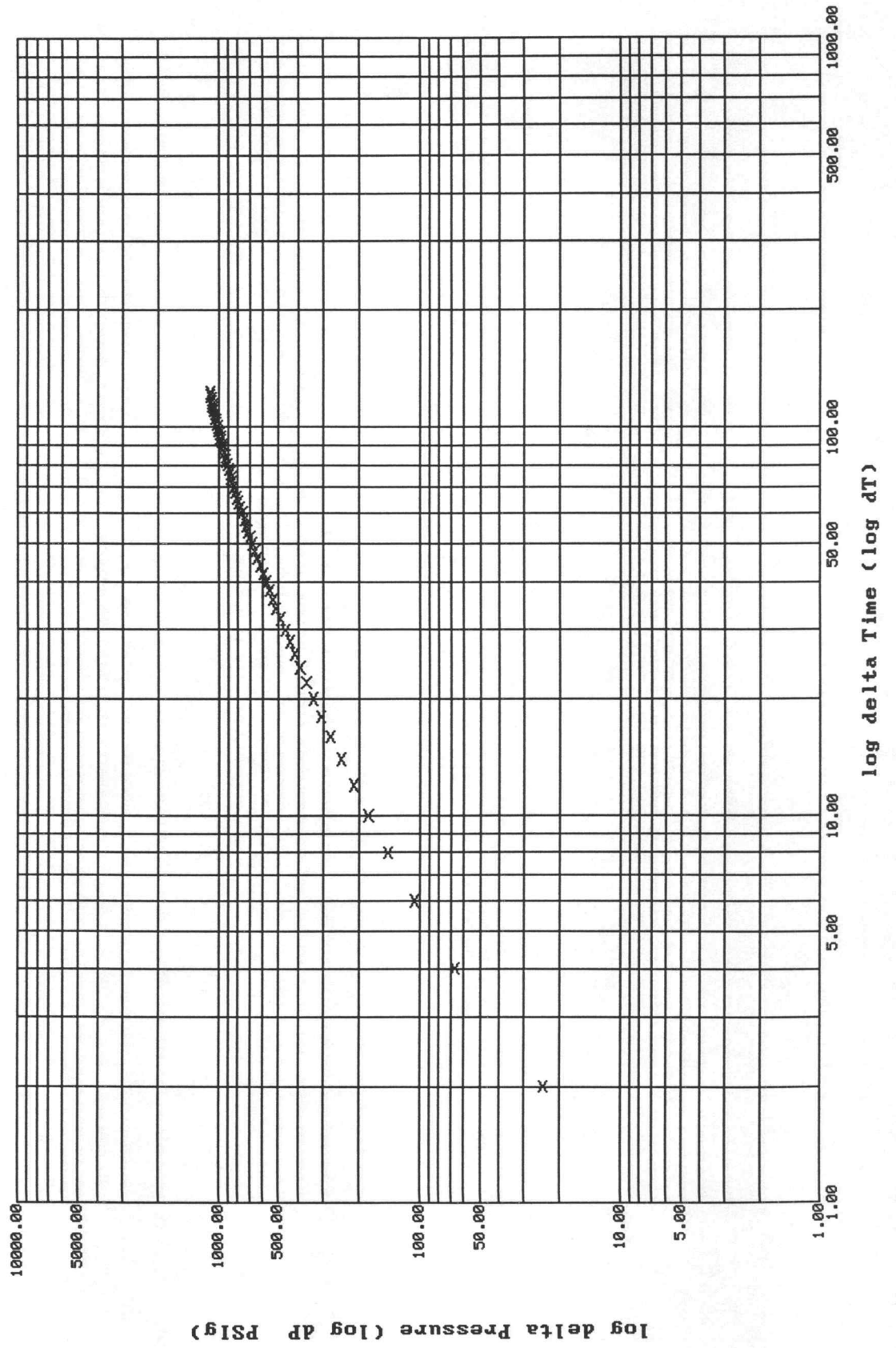
Ramey Plot: shut-in #1

Hugoton Energy Co. Gaskill # 3-5 DST # 4



Ramey Plot: shut-in #2

Hugoton Energy Co. Gaskill # 3-5 DST # 4



TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GASKILL #3-5 Test No. 5 Date 04/17/95
Company HUGOTON ENERGY CO Zone ST LOUIS "C"
Address 301 N MAIN, SUITE 1900, WICHITA KS 67202 Elevation 2941
Co. Rep./Geo. CURTIS COVEY Cont. MURFIN #20 Est. Ft. of Pay _____
Location: Sec. 5 Twp. 31S Rge. 33W Co. SEWARD State KS

Interval Tested 5554-5578 Drill Pipe Size 4.5" XH
Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 5549 Drill Collar - 2.25 Ft. Run 175
Bottom Packer Depth 5554 Mud Wt. 9.2 lb/Gal.
Total Depth 5578 Viscosity 58 Filtrate 8.4

Tool Open @ 6:00 AM Initial Blow WEAK BLOW - BUILT TO 3 IN

ISI - NO BLOW BACK

Final Blow SURFACE BLOW THROUGHOUT

FSI - NO BLOW BACK

Recovery - Total Feet 175 Flush Tool? NO

Rec. 60 Feet of GAS IN PIPE

Rec. 175 Feet of SLIGHTLY OIL CUT MUD - 3% OIL, 97% MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 135 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1400 ppm System

(A) Initial Hydrostatic Mud 2845.50 PSI AK1 Recorder No. 13251 Range 4550

(B) First Initial Flow Pressure 51.80 PSI @ (depth) 5557 w / Clock No. 3416

(C) First Final Flow Pressure 69.10 PSI AK1 Recorder No. 13255 Range 6300

(D) Initial Shut-in Pressure 1571.50 PSI @ (depth) 5575 w / Clock No. 8696

(E) Second Initial Flow Pressure 89.80 PSI AK1 Recorder No. _____ Range _____

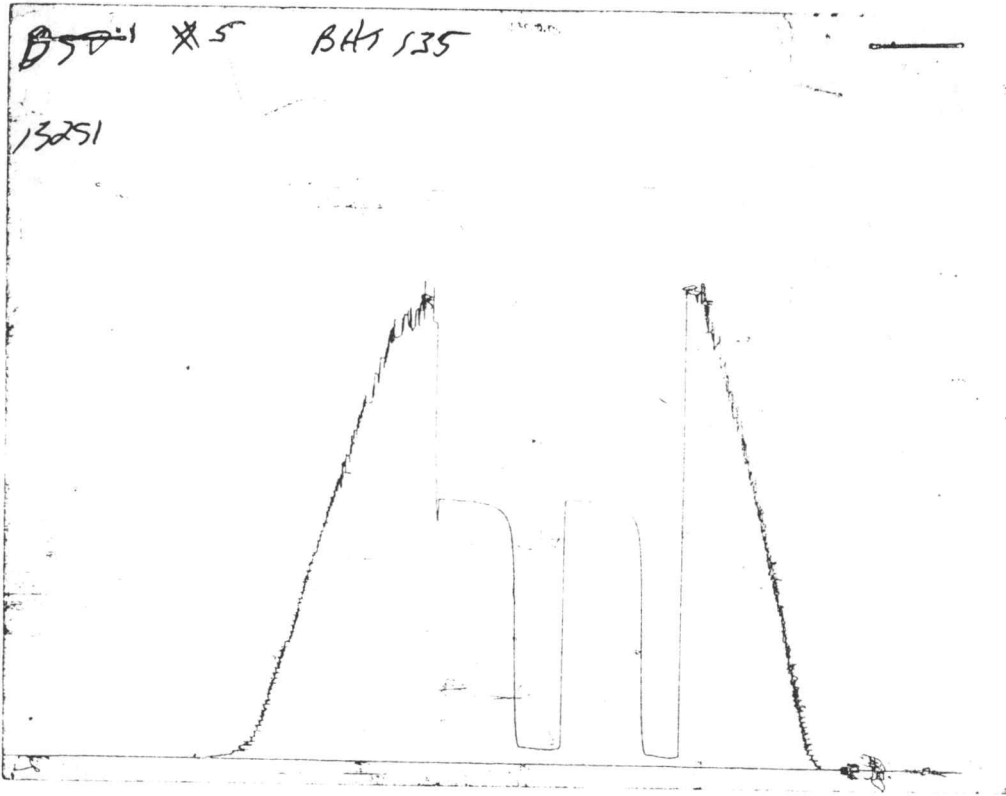
(F) Second Final Flow Pressure 106.00 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1565.80 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2770.40 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative TOM HORACEK

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2838	2845.50
(B) FIRST INITIAL FLOW PRESSURE	57	51.80
(C) FIRST FINAL FLOW PRESSURE	69	69.10
(D) INITIAL CLOSED-IN PRESSURE	1568	1571.50
(E) SECOND INITIAL FLOW PRESSURE	92	89.80
(F) SECOND FINAL FLOW PRESSURE	103	106.00
(G) FINAL CLOSED-IN PRESSURE	1556	1565.80
(H) FINAL HYDROSTATIC MUD	2747	2770.40

CALCULATED RECOVERY ANALYSIS DRILL COLLARS

DST # 5

TICKET # 8220

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	175		0	3	5.25	0	0	97	169.75
2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	175	0.00	0	3.00	5.25	0.00	0	97	169.75

HRS OPEN BBL/DAY

BBL OIL=	0.025673	*	1.00	0.61614
BBL WATER	0	*		0
BBL MUD=	0.830078			
BBL GAS=	0			

