

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name SIDEBOTTOM 3-33 Test No. 1 Date 2/21/95
Company ZPC PETROLEUM Zone MISSISSIPPI
Address 9319 E. HARRY, #122, WICHITA, KS 67233 Elevation 2550
Co. Rep./Geo. ZEB STEWART Cont. DISCOVERY DRILLING Est. Ft. of Pay _____
Location: Sec. 33 Twp. 16S Rge. 24W Co. NESS State KS

Interval Tested 4451-4496 Drill Pipe Size 4.5" XH
Anchor Length 45 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4446 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 4451 Mud Wt. 9.4 lb/Gal.
Total Depth 4496 Viscosity 48 Filtrate 11.6

Tool Open @ 2:57AM Initial Blow STEADY WEAK 1/2" BLOW.

Final Blow NO BLOW.

Recovery - Total Feet 30 Flush Tool? NO

Rec. 30 Feet of DRILLING MUD. TRACE OIL; 100% MUD.
Rec. _____ Feet of SPECKS OF OIL IN MUD.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 116 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2800 ppm System

(A) Initial Hydrostatic Mud 2218.30 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 36.00 PSI @ (depth) 4493 w / Clock No. 25828

(C) First Final Flow Pressure 27.30 PSI AK1 Recorder No. 6730 Range 4200

(D) Initial Shut-in Pressure 942.70 PSI @ (depth) 4490 w / Clock No. 24119

(E) Second Initial Flow Pressure 24.00 PSI AK1 Recorder No. _____ Range _____

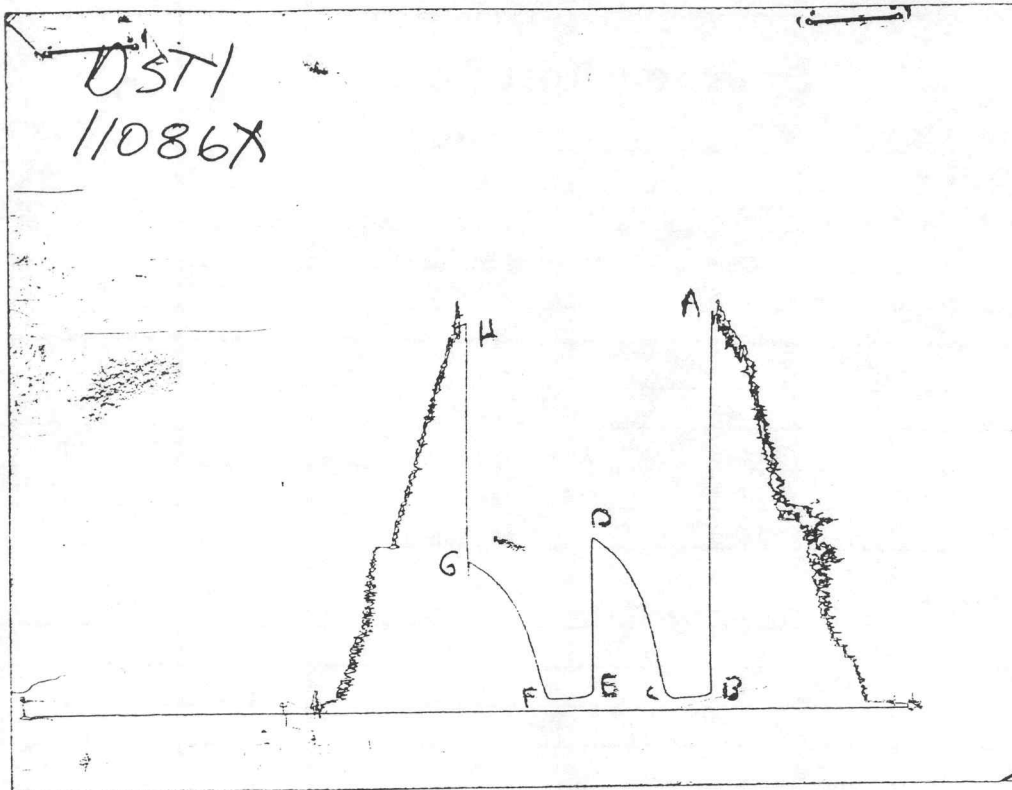
(F) Second Final Flow Pressure 24.00 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 801.70 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2157.20 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative GARY SPEER

CHART PAGE



This is an actual photograph of an AK1 recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2196	2218.30
(B) FIRST INITIAL FLOW PRESSURE	72	36.00
(C) FIRST FINAL FLOW PRESSURE	76	27.30
(D) INITIAL CLOSED-IN PRESSURE	986	942.70
(E) SECOND INITIAL FLOW PRESSURE	76	24.00
(F) SECOND FINAL FLOW PRESSURE	76	24.00
(G) FINAL CLOSED-IN PRESSURE	854	801.70
(H) FINAL HYDROSTATIC MUD	2196	2157.20

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

Well Name SIDEBOTTOM 3-33 Test No. 2 Date 2/21/95
Company ZPC PETROLEUM Zone MISSISSIPPI
Address 9319 E. HARRY, #122, WICHITA, KS 67233 Elevation 2550
Co. Rep./Geo. ZEB STEWART Cont. DISCOVERY DRILLING Est. Ft. of Pay _____
Location: Sec. 33 Twp. 16S Rge. 24W Co. NESS State KS

Interval Tested 4451-4510 Drill Pipe Size 4.5" XH
Anchor Length 59 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4446 Drill Collar - 2.25 Ft. Run 30
Bottom Packer Depth 4451 Mud Wt. 9.4 lb/Gal.
Total Depth 4510 Viscosity 49 Filtrate 11.5

Tool Open @ 3:25PM Initial Blow WEAK TO FAIR BLOW - 6-1/2"

INITIAL SHUT IN - NO RETURN BLOW.

Final Blow WEAK TO FAIR 4-1/2" BLOW.

FINAL SHUT IN: NO RETURN BLOW.

Recovery - Total Feet 135 Flush Tool? NO

Rec. 135 Feet of DRILLING MUD. TRACE OIL; 100% MUD.

Rec. _____ Feet of A FEW SPECKS OF OIL.

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 119 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2800 ppm System

(A) Initial Hydrostatic Mud 2278.63 PSI AK1 Recorder No. 11086 Range 4350

(B) First Initial Flow Pressure 38.68 PSI @ (depth) 4507 w / Clock No. 25828

(C) First Final Flow Pressure 52.28 PSI AK1 Recorder No. 6730 Range 4200

(D) Initial Shut-in Pressure 997.47 PSI @ (depth) 4504 w / Clock No. 24119

(E) Second Initial Flow Pressure 53.96 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 71.08 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 945.52 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2211.07 PSI Initial Shut-in 60 Final Shut-in 60

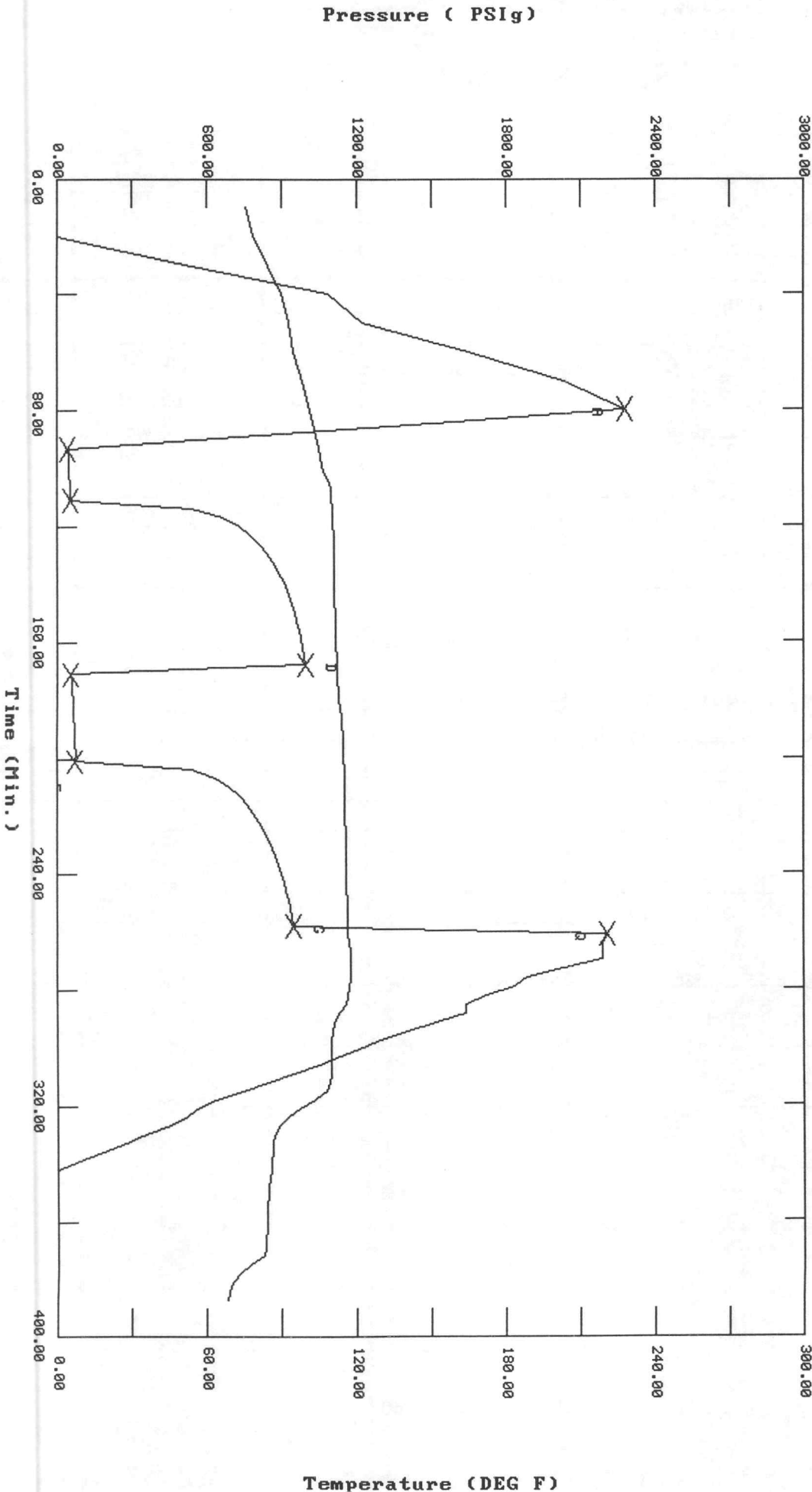
Our Representative GARY SPEER

TEST HISTORY

t(Min.) PK PSig)

Flag Points

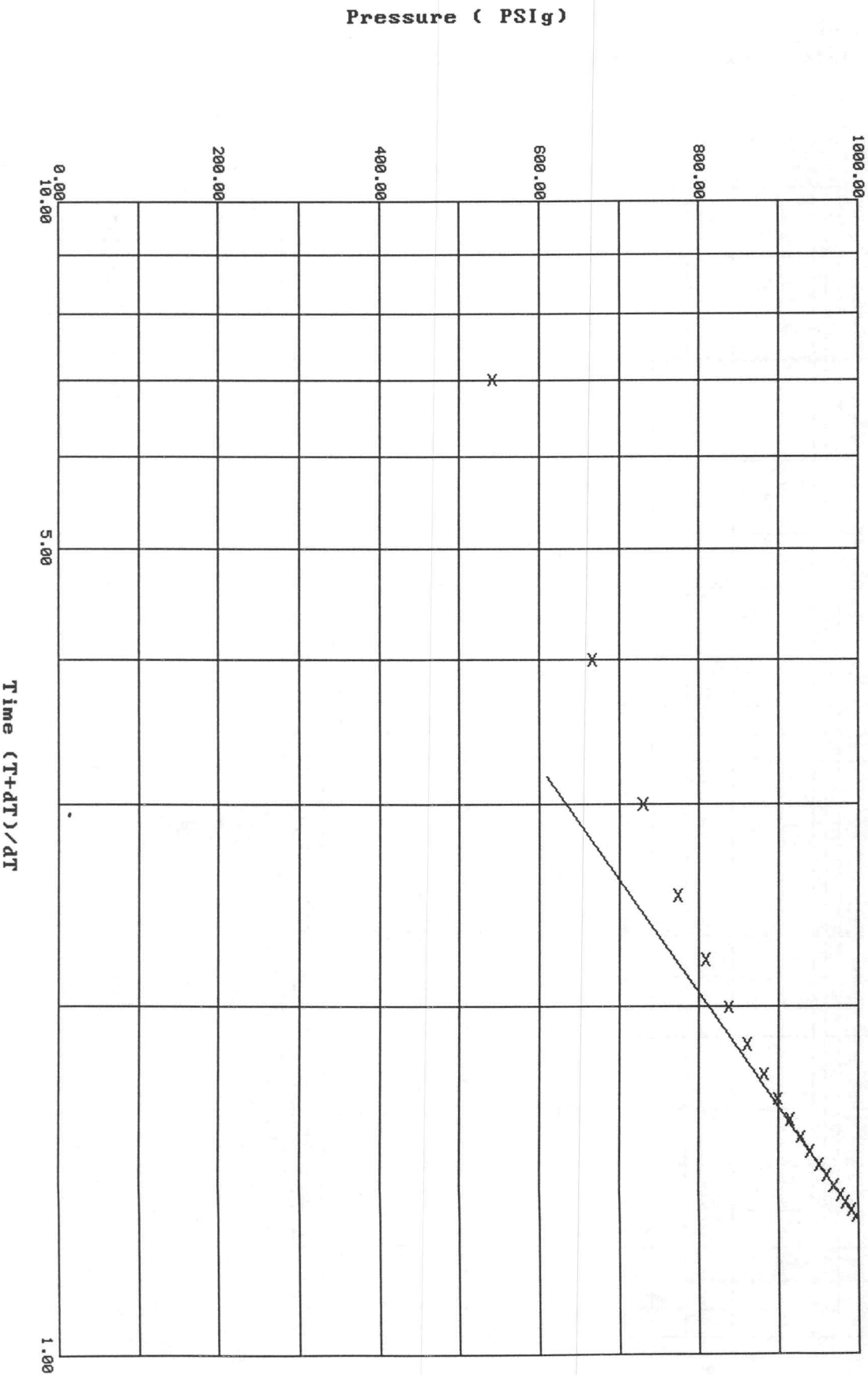
A:	0.00	2278.63
B:	0.00	38.68
C:	18.00	52.28
D:	57.00	997.47
E:	0.00	53.96
F:	30.00	71.08
G:	57.00	945.52
Q:	0.00	2211.07



Horner Plot: Shut-in #1

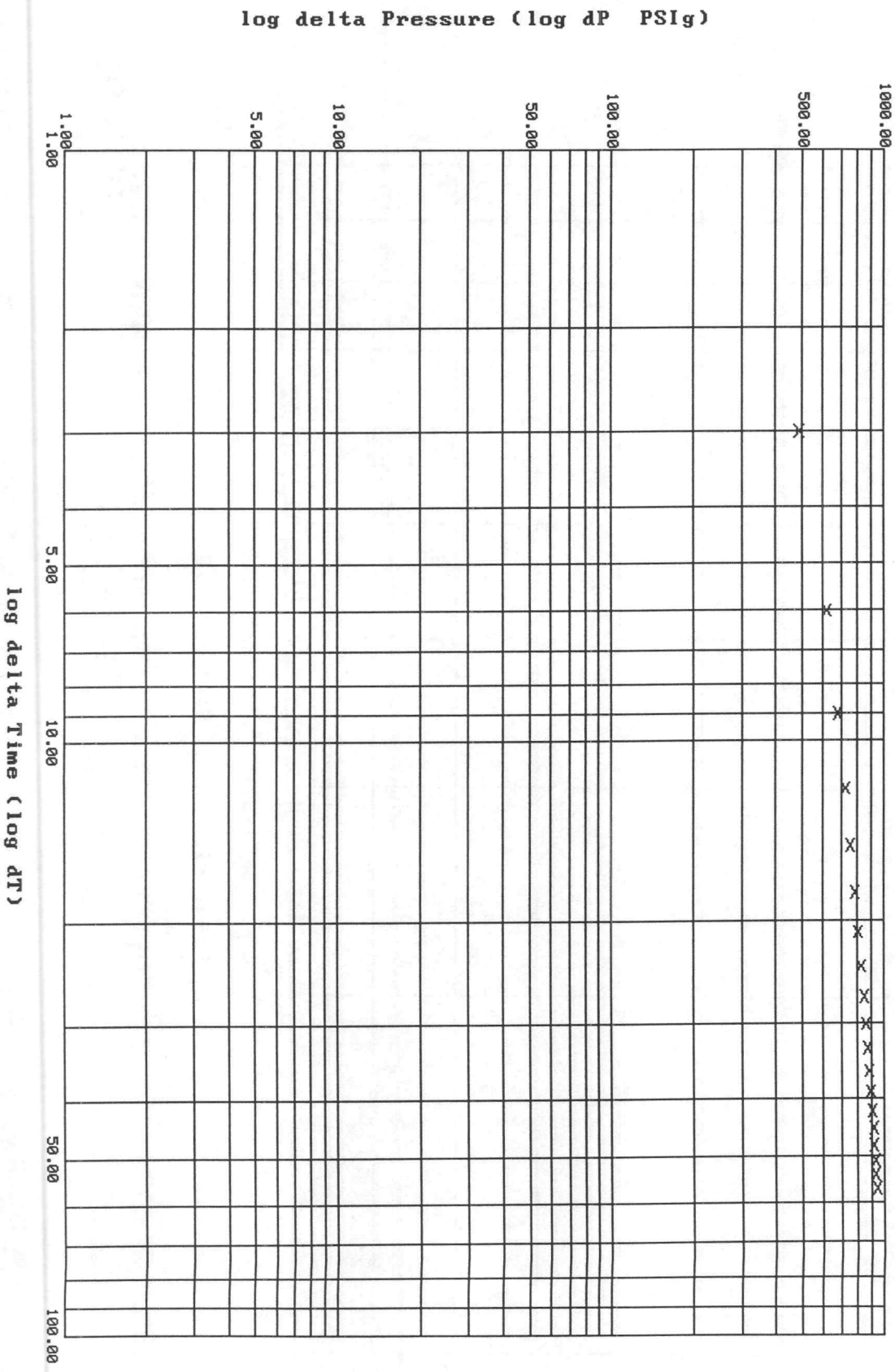
Dst2 Sidebottom 3-33 ZPC Pet. Inc.

Slope: 1018.9563 PSig/cycle
Ext. Pressure: 1118.7858 PSig



Ramey Plot: Shut-in #1

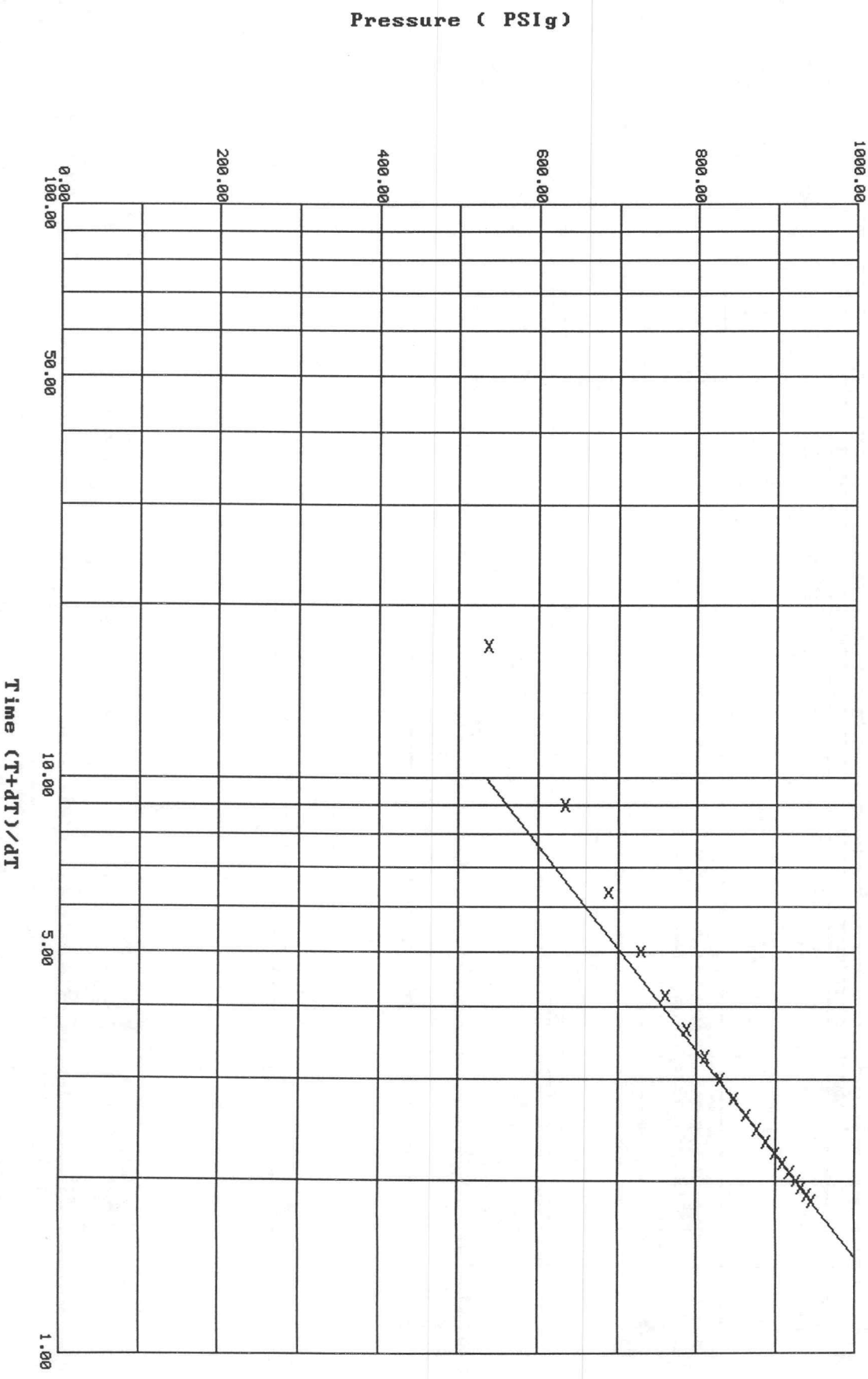
Dst2 Sidebottom 3-33 ZPC Pet. Inc.



Horner Plot: shut-in #2

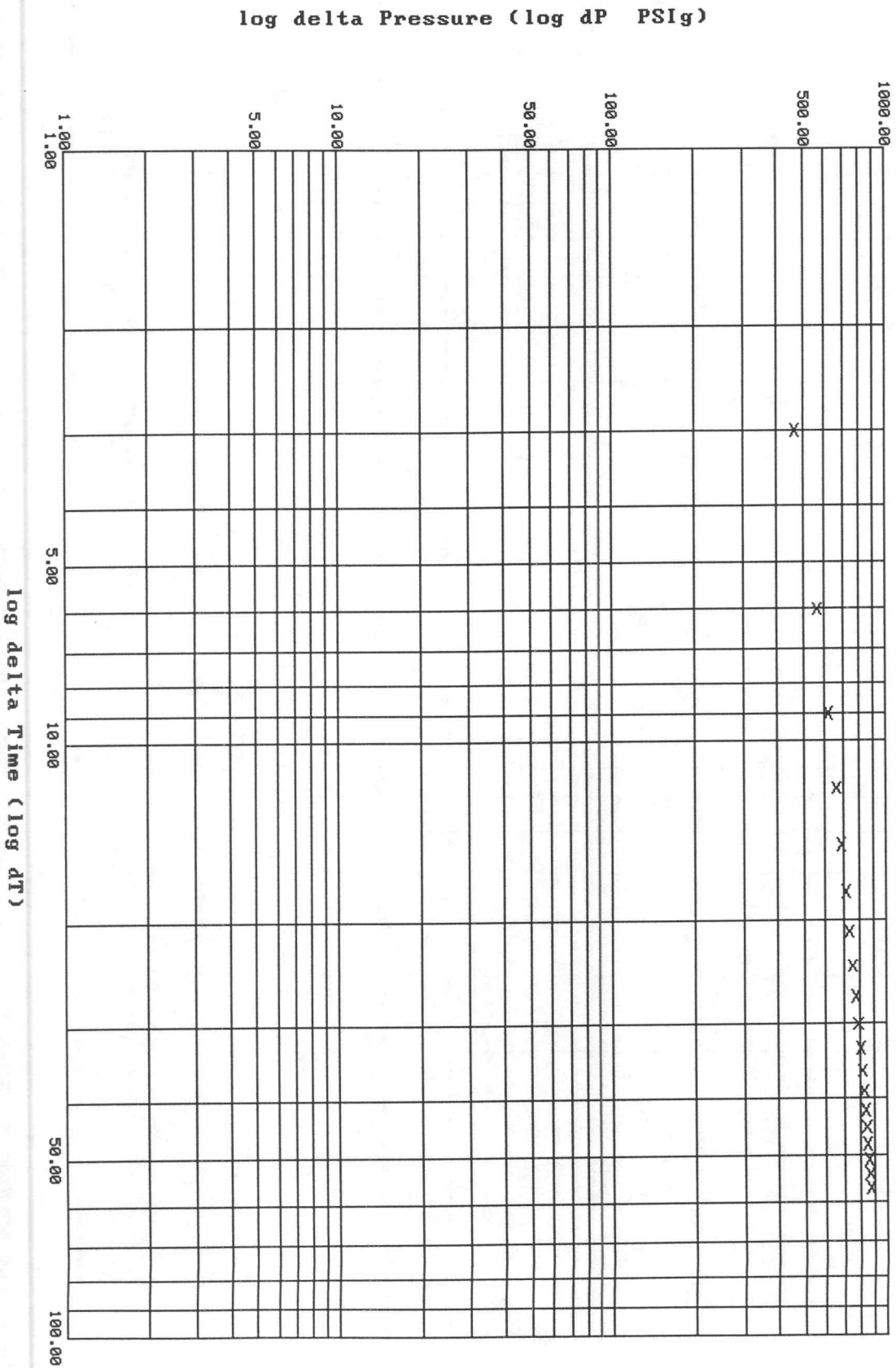
Dst2 Sidebottom 3-33 ZPC Pet. Inc.

Slope: 560.3049 PSig/cycle
Ext. Pressure: 1094.2634 PSig



Ramey Plot: shut-in #2

Dst2 Sidebottom 3-33 ZPC Pet. Inc.



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Dst2 Sidebottom 3-33 ZPC Pet. Inc.

DATE: 02/21/95

TIME: 14:14:38

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	80.00	2278.6	0.0	101.48		
***** Start Flow 1	0.00	38.7	0.0	105.08		
	3.00	43.0	4.4	105.80		
	6.00	45.9	7.2	106.16		
	9.00	47.5	8.8	107.60		
	12.00	48.8	10.1	108.86		
	15.00	50.6	11.9	109.58		
***** End Flow 1	18.00	52.3	13.6	109.94		
***** Start Shutin 1	0.00	52.3	0.0	109.94	0.0000	0.003
	3.00	540.6	488.3	110.12	7.0000	0.292
	6.00	666.5	614.3	110.48	4.0000	0.444
	9.00	729.7	677.5	110.48	3.0000	0.533
	12.00	774.0	721.7	110.66	2.5000	0.599
	15.00	808.6	756.4	110.66	2.2000	0.654
	18.00	837.0	784.7	110.66	2.0000	0.701
	21.00	861.0	808.7	110.84	1.8571	0.741
	24.00	881.4	829.1	110.84	1.7500	0.777
	27.00	899.2	846.9	111.02	1.6667	0.809
	30.00	914.7	862.4	111.02	1.6000	0.837
	33.00	928.4	876.1	111.20	1.5455	0.862
	36.00	940.5	888.2	111.20	1.5000	0.885
	39.00	951.4	899.1	111.38	1.4615	0.905
	42.00	961.0	908.8	111.56	1.4286	0.924
	45.00	969.9	917.6	111.56	1.4000	0.941
	48.00	977.8	925.6	111.74	1.3750	0.956
	51.00	984.8	932.5	111.74	1.3529	0.970
	54.00	991.5	939.2	111.92	1.3333	0.983
***** End Shut-in 1	57.00	997.5	945.2	112.10	1.3158	0.995
***** Start Flow 2	0.00	54.0	0.0	112.10		
	3.00	56.7	2.8	112.28		
	6.00	59.2	5.2	112.46		
	9.00	61.5	7.6	113.00		
	12.00	63.9	10	113.36		
	15.00	66.3	12.3	113.72		
	18.00	67.9	13.9	114.08		
	21.00	69.9	15.9	114.26		
	24.00	72.1	18.1	114.44		
	27.00	73.9	20.0	114.62		
***** End Flow 2	30.00	71.1	17.1	114.80		
***** Start Shutin 2	0.00	71.1	0.0	114.80	0.0000	0.005
	3.00	537.4	466.3	114.98	17.0000	0.289
	6.00	634.2	563.1	115.16	9.0000	0.402
	9.00	688.5	617.5	115.16	6.3333	0.474
	12.00	728.3	657.2	115.34	5.0000	0.530
	15.00	760.4	689.3	115.34	4.2000	0.578
	18.00	786.8	715.7	115.34	3.6667	0.619
	21.00	809.6	738.6	115.34	3.2857	0.656
	24.00	829.3	758.2	115.52	3.0000	0.688
	27.00	846.6	775.5	115.52	2.7778	0.717
	30.00	861.8	790.8	115.52	2.6000	0.743
	33.00	875.4	804.3	115.70	2.4545	0.766

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Dst2 Sidebottom 3-33 ZPC Pet. Inc.

DATE: 02/21/95

TIME: 14:14:38

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	36.00	887.7	816.6	115.70	2.3333	0.788
	39.00	898.6	827.5	115.88	2.2308	0.807
	42.00	908.6	837.5	115.88	2.1429	0.826
	45.00	917.7	846.6	115.88	2.0667	0.842
	48.00	926.0	854.9	116.06	2.0000	0.857
	51.00	932.8	861.8	116.06	1.9412	0.870
	54.00	939.4	868.3	116.24	1.8889	0.882
***** End Shut-in 2	57.00	945.5	874.4	116.42	1.8421	0.894
***** Final Hydro.	261.00	2211.1	0.0	116.60		

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Sidebottom 3-33

LOCATION : 33-16-24

TICKET No. 7746 D.S.T. No. 2 DATE 2-21-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS

INTERVAL TOOL 21

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 21

DRILL COLLAR ANCHOR IN INTERVAL 29

D.C. ANCHOR STND.Stands Single 30 Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 59

D.C. ABOVE TOOLS.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands73 Single 1 Total 4410

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4520

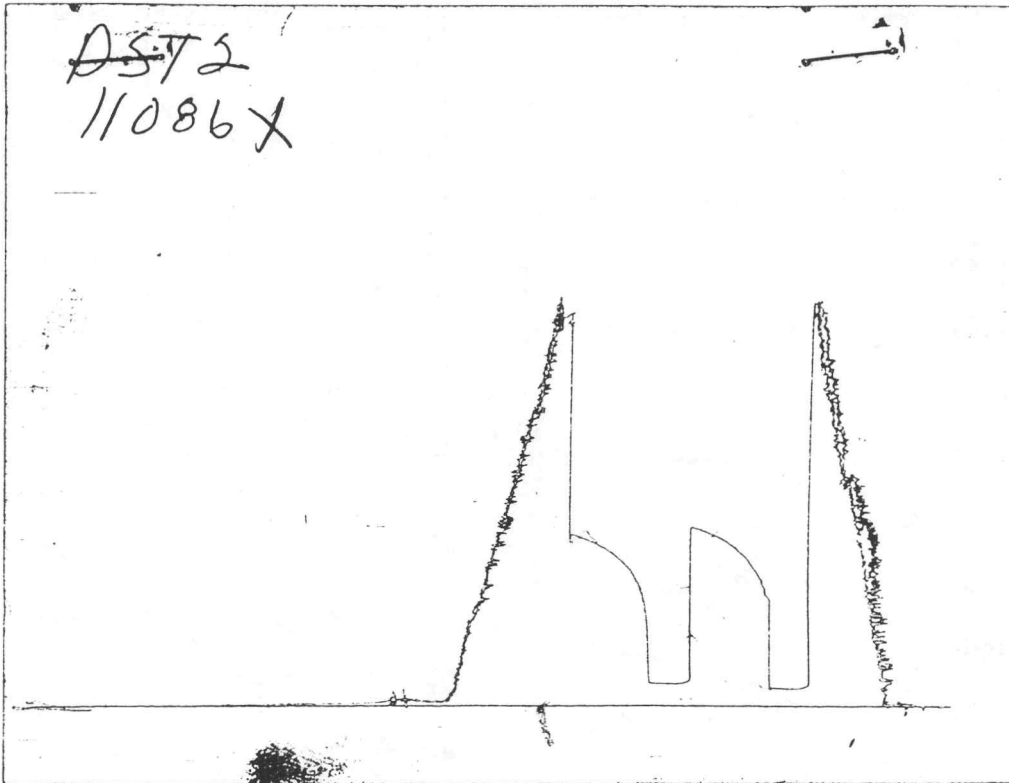
TOTAL DEPTH 4510

TOTAL DRILL PIPE ABOVE K.B. 10

REMARKS:

	P.O. SUB circ sub	4315
	C.O. SUB	4435
	S.I. TOOL Shutin tool	4436
	HMV Hydraulic tool	4441
	JARS no jars	
	SAFETY JOINT no safety joint	
	PACKER Packer	4446
	PACKER Packer	4451
	DEPTH 4451	
	STUBB	4452
	ANCHOR 3' perf	4455
	collar	4485
	T.C.	
	DEPTH	
	perf 5'	4490
	perf 5'	4495
	perf 5'	4500
	perf 5'	4505
	BULLNOSE	
	T.D. bullplug	4510

CHART PAGE



This is an actual photograph of an AK1 recorder chart

READINGS ARE FROM APLINE ELECTRONIC RECORDER

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD		2278.63
(B) FIRST INITIAL FLOW PRESSURE		38.68
(C) FIRST FINAL FLOW PRESSURE		52.28
(D) INITIAL CLOSED-IN PRESSURE		997.47
(E) SECOND INITIAL FLOW PRESSURE		53.96
(F) SECOND FINAL FLOW PRESSURE		71.08
(G) FINAL CLOSED-IN PRESSURE		945.52
(H) FINAL HYDROSTATIC MUD		2211.07