

Computer Inventoried

23-11-21 W

ORIGINAL

15-195-22165

Well Name:

LOUISE #2-3 #2

Company :

NOBLE PETROLEUM, INC

Location - Sec:

23

Twp:

11S

Rge:

21W

County:

TREGO

State:

KS

Date:

12/21/95

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : Noble Petroleum, Inc
 WELL NAME: Louise #2~~3~~
 LOCATION : 23-11S-21W, Trego Cty KS
 INTERVAL : 3605.00 To 3635.00 ft

DATE 12-19-95
 KB 2312.00 ft TICKET NO: 8731 DST #1
 GR 0.00 ft FORMATION: 35' KC
 TD 3635.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	13754	13754	2342			PF Fr. 0710 to 0755 hr
SI 45	Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 0755 to 0840 hr
SF 45	Clock(hrs)	AK-1	AK-1	Alpin			SF Fr. 0840 to 0925 hr
FS 45	Depth(ft)	3632.0	3632.0	3610.0	0.0	0.0	FS Fr. 0925 to 1010 hr

	Field	1	2	3	4	
A. Init Hydro	1776.0	1735.0	1714.0	0.0	0.0	T STARTED 0530 hr
B. First Flow	19.0	33.0	23.0	0.0	0.0	T ON BOTM 0705 hr
Bl. Final Flow	29.0	37.0	40.0	0.0	0.0	T OPEN 0710 hr
C. In Shut-in	669.0	678.0	695.0	0.0	0.0	T PULLED 1010 hr
D. Init Flow	39.0	46.0	42.0	0.0	0.0	T OUT 1130 hr
E. Final Flow	39.0	53.0	53.0	0.0	0.0	
F. Fl Shut-in	650.0	670.0	690.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1726.0	1722.0	1721.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 55000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3607.00 ft

RECOVERY

Tot Fluid 65.00 ft of 0.00 ft in DC and 65.00 ft in DP
 5.00 ft of Clean oil - 100% oil
 60.00 ft of Oil cut mud - 5% oil, 95% mud

3.00 ft of Pay (est)

SALINITY 0.00 P.P.M. A.P.I. Gravity 36.00

BLOW DESCRIPTION

Initial Flow -
 Weak, building to 3"

Final Flow -
 Weak, building to 1"

SAMPLES:
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/l
Vis.	43.00 S/L
W.L.	8.80 in3
F.C.	0.00 in

Mud Drop N

Amt. of fill	0.00 ft
Btm. H. Temp.	103.00 F
Hole Condition	GOOD
% Porosity	15.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	DAN BANGLE
Co. Rep.	JAY ABLAH
Contr.	DUKE
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

CALCULATED RECOVERY ANALYSIS - DRILL PIPE

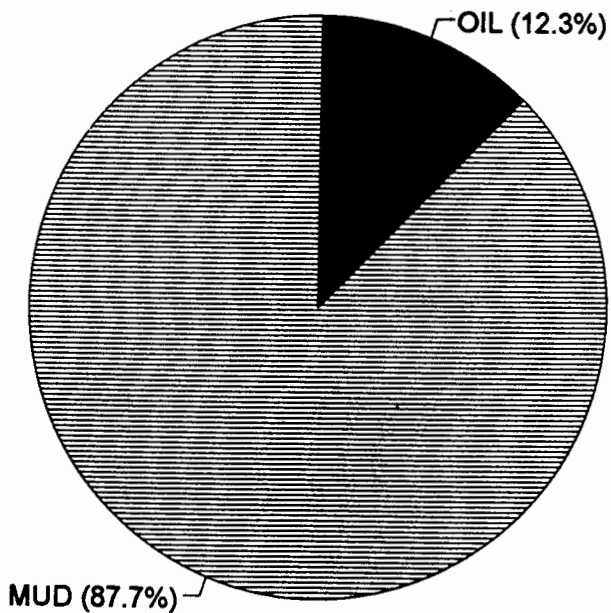
DST # 1

TICKET # 8731

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	5		0	100	5		0		0
2	60		0	5	3		0	95	57
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	65	0.00	0	12.31	8	0	0	87.69	57

HRS OPE BBL/DAY

BBL OIL= 0.11376 * 1.50 1.82
 BBL WATER= 0 * 0.00
 BBL MUD= 0.81054
 BBL GAS 0



TEST HISTORY

TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.

Flag Points

	t (Min.)	P (PSig)
A:	0.00	1714.47
B:	0.00	23.49
C:	46.00	39.61
D:	44.00	695.25
E:	0.00	41.54
F:	45.00	52.95
G:	44.00	689.79
Q:	0.00	1720.60

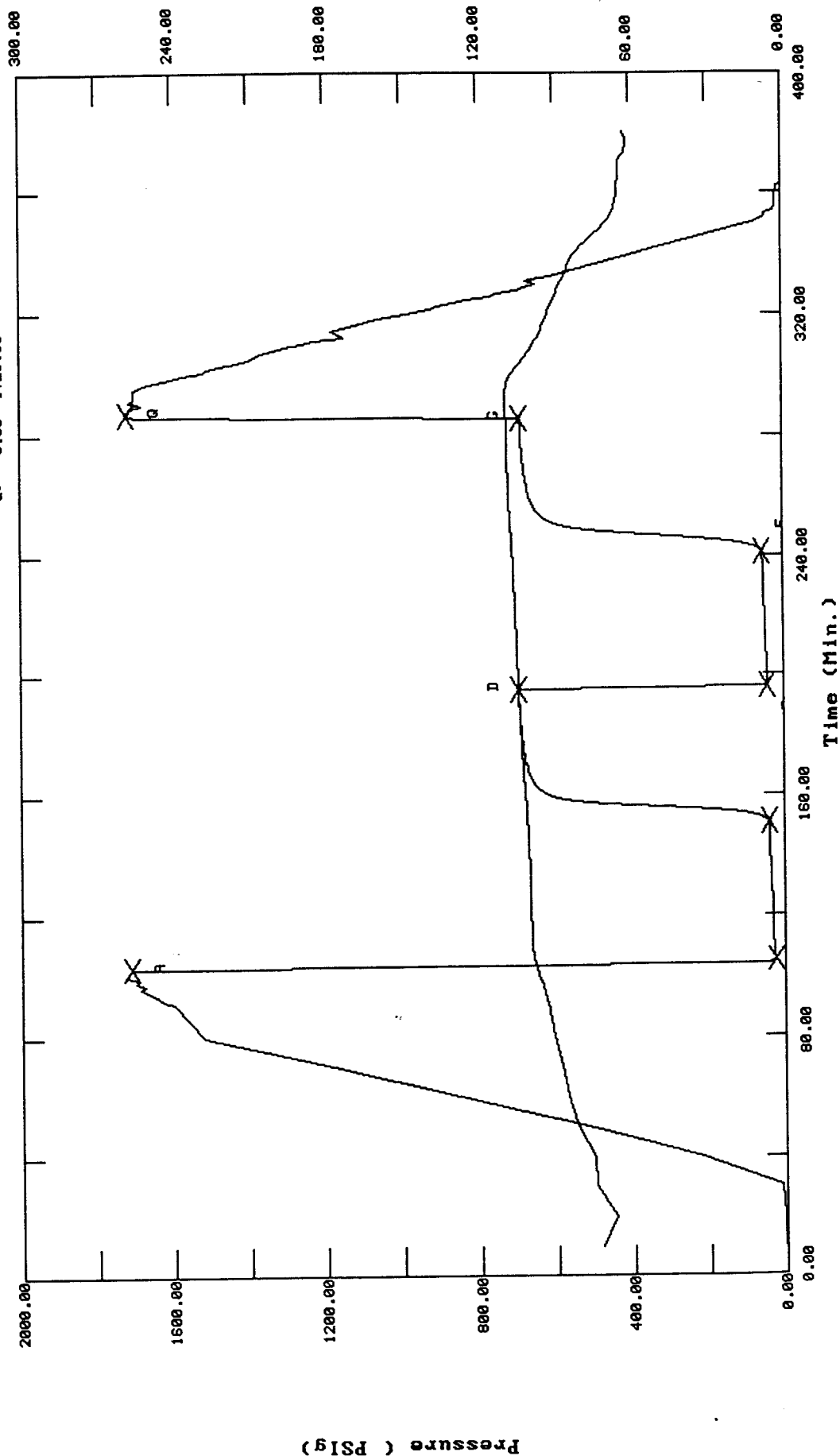
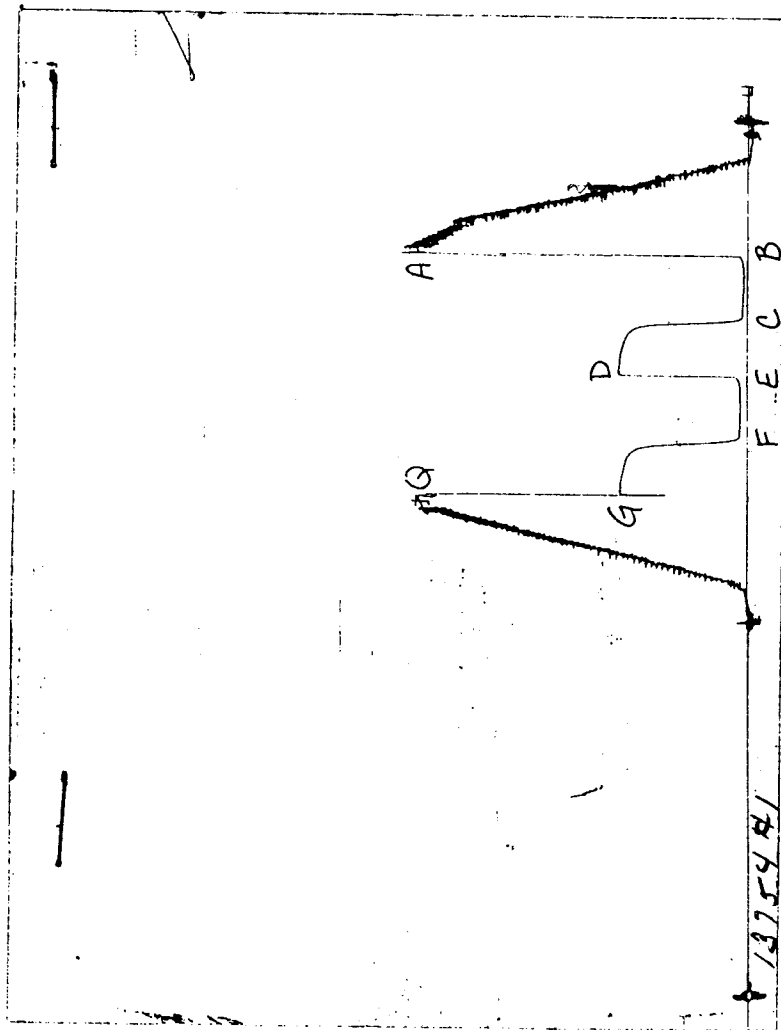


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.

DATE: 12/18/95

TIME: 18:21:02

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	103.00	1714.5	0.0	97.96		
***** Start Flow 1	0.00	23.5	0.0	98.45		
	1.00	24.2	0.8	98.70		
	2.00	25.0	1.5	98.92		
	3.00	25.6	2.1	99.09		
	4.00	26.2	2.7	99.23		
	5.00	26.8	3.4	99.35		
	6.00	28.0	4.5	99.45		
	7.00	29.5	6.0	99.53		
	8.00	28.4	5.0	99.59		
	9.00	28.5	5.0	99.64		
	10.00	28.9	5.5	99.68		
	11.00	29.2	5.7	99.73		
	12.00	29.3	5.8	99.75		
	13.00	29.7	6.2	99.78		
	14.00	30.1	6.6	99.80		
	15.00	30.4	6.9	99.82		
	16.00	30.5	7.0	99.85		
	17.00	30.6	7.1	99.87		
	18.00	31.0	7.6	99.89		
	19.00	31.1	7.6	99.91		
	20.00	31.5	8.1	99.94		
	21.00	31.9	8.4	99.96		
	22.00	32.2	8.7	99.99		
	23.00	32.8	9.3	100.01		
	24.00	33.1	9.6	100.04		
	25.00	33.4	9.9	100.07		
	26.00	33.8	10.3	100.10		
	27.00	34.1	10.6	100.13		
	28.00	34.4	10.9	100.16		
	29.00	34.9	11.4	100.19		
	30.00	34.9	11.4	100.23		
	31.00	35.5	12.0	100.27		
	32.00	35.7	12.2	100.31		
	33.00	36.0	12.5	100.35		
	34.00	36.3	12.8	100.39		
	35.00	36.5	13.0	100.44		
	36.00	36.8	13.3	100.48		
	37.00	37.2	13.7	100.53		
	38.00	37.4	13.9	100.57		
	39.00	37.8	14.3	100.62		
	40.00	38.0	14.5	100.68		
	41.00	38.3	14.8	100.74		
	42.00	38.5	15.0	100.79		
	43.00	38.8	15.4	100.85		
	44.00	39.1	15.6	100.91		
	45.00	39.4	15.9	100.97		
***** End Flow 1	46.00	39.6	16.1	101.04		
***** Start Shutin 1	0.00	39.6	0.0	101.04	0.0000	0.002
	1.00	49.3	9.7	101.11	47.0000	0.002
	2.00	71.1	31.5	101.17	24.0000	0.005

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.

DATE: 12/18/95

TIME: 18:21:02

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	3.00	107.3	67.7	101.25	16.3333	0.012
	4.00	180.8	141.2	101.31	12.5000	0.033
	5.00	318.7	279.1	101.40	10.2000	0.102
	6.00	467.4	427.8	101.49	8.6667	0.218
	7.00	552.1	512.5	101.58	7.5714	0.305
	8.00	594.2	554.6	101.68	6.7500	0.353
	9.00	617.5	577.9	101.77	6.1111	0.381
	10.00	632.2	592.6	101.87	5.6000	0.400
	11.00	642.4	602.8	101.95	5.1818	0.413
	12.00	649.8	610.2	102.04	4.8333	0.422
	13.00	655.5	615.9	102.13	4.5385	0.430
	14.00	659.9	620.3	102.21	4.2857	0.435
	15.00	663.7	624.1	102.30	4.0667	0.440
	16.00	666.9	627.3	102.39	3.8750	0.445
	17.00	669.5	629.9	102.47	3.7059	0.448
	18.00	669.7	630.1	102.55	3.5556	0.449
	19.00	673.0	633.4	102.63	3.4211	0.453
	20.00	675.4	635.8	102.71	3.3000	0.456
	21.00	677.4	637.8	102.79	3.1905	0.459
	22.00	679.1	639.4	102.86	3.0909	0.461
	23.00	680.5	640.9	102.94	3.0000	0.463
	24.00	681.7	642.0	103.02	2.9167	0.465
	25.00	682.9	643.3	103.09	2.8400	0.466
	26.00	683.8	644.2	103.17	2.7692	0.468
	27.00	684.9	645.3	103.24	2.7037	0.469
	28.00	685.6	646.0	103.31	2.6429	0.470
	29.00	686.6	647.0	103.38	2.5862	0.471
	30.00	687.4	647.8	103.45	2.5333	0.473
	31.00	688.2	648.6	103.52	2.4839	0.474
	32.00	689.0	649.4	103.58	2.4375	0.475
	33.00	689.7	650.1	103.65	2.3939	0.476
	34.00	690.5	650.9	103.72	2.3529	0.477
	35.00	691.1	651.5	103.78	2.3143	0.478
	36.00	691.8	652.2	103.85	2.2778	0.479
	37.00	692.3	652.7	103.92	2.2432	0.479
	38.00	692.8	653.2	103.98	2.2105	0.480
	39.00	693.2	653.6	104.04	2.1795	0.481
	40.00	693.7	654.0	104.11	2.1500	0.481
	41.00	694.1	654.5	104.16	2.1220	0.482
	42.00	694.5	654.9	104.22	2.0952	0.482
	43.00	694.9	655.3	104.28	2.0698	0.483
***** End Shut-in 1	44.00	695.2	655.6	104.34	2.0455	0.483
***** Start Flow 2	0.00	41.5	0.0	104.38		
	1.00	40.0	-1.5	104.42		
	2.00	41.5	-0.1	104.46		
	3.00	42.0	0.4	104.49		
	4.00	42.0	0.5	104.52		
	5.00	42.1	0.6	104.56		
	6.00	42.8	1.3	104.60		
	7.00	43.0	1.5	104.64		
	8.00	43.1	1.6	104.68		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.

DATE: 12/18/95 TIME: 18:21:02

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	9.00	43.5	1.9	104.72		
	10.00	43.9	2.3	104.76		
	11.00	44.2	2.7	104.81		
	12.00	44.5	2.9	104.86		
	13.00	44.7	3.2	104.91		
	14.00	44.8	3.3	104.95		
	15.00	45.2	3.7	105.00		
	16.00	45.6	4.0	105.05		
	17.00	45.8	4.3	105.09		
	18.00	46.2	4.7	105.14		
	19.00	46.0	4.4	105.19		
	20.00	46.6	5.0	105.24		
	21.00	46.9	5.4	105.29		
	22.00	47.2	5.7	105.34		
	23.00	47.7	6.1	105.38		
	24.00	47.8	6.3	105.44		
	25.00	48.1	6.5	105.49		
	26.00	48.3	6.8	105.54		
	27.00	48.7	7.1	105.60		
	28.00	48.9	7.4	105.64		
	29.00	49.1	7.6	105.69		
	30.00	49.4	7.9	105.74		
	31.00	49.8	8.2	105.79		
	32.00	49.8	8.3	105.84		
	33.00	50.1	8.6	105.90		
	34.00	50.3	8.7	105.94		
	35.00	50.7	9.1	105.99		
	36.00	50.9	9.4	106.04		
	37.00	51.1	9.6	106.09		
	38.00	51.4	9.8	106.13		
	39.00	51.6	10.1	106.18		
	40.00	51.9	10.3	106.23		
	41.00	52.1	10.6	106.28		
	42.00	52.3	10.7	106.33		
	43.00	52.5	11.0	106.38		
	44.00	52.6	11.1	106.43		
***** End Flow 2	45.00	52.9	11.4	106.50		
***** Start Shutin 2	0.00	52.9	0.0	106.50	0.0000	0.003
	1.00	57.6	4.6	106.57	92.0000	0.003
	2.00	80.0	27.0	106.64	46.5000	0.006
	3.00	115.4	62.4	106.72	31.3333	0.013
	4.00	178.1	125.1	106.81	23.7500	0.032
	5.00	288.3	235.3	106.90	19.2000	0.083
	6.00	421.5	368.5	107.00	16.1667	0.178
	7.00	517.0	464.0	107.10	14.0000	0.267
	8.00	570.1	517.2	107.19	12.3750	0.325
	9.00	600.1	547.1	107.27	11.1111	0.360
	10.00	618.5	565.6	107.36	10.1000	0.383
	11.00	630.8	577.8	107.43	9.2727	0.398
	12.00	639.7	586.7	107.51	8.5833	0.409
	13.00	646.4	593.5	107.58	8.0000	0.418

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.

DATE: 12/18/95

TIME: 18:21:02

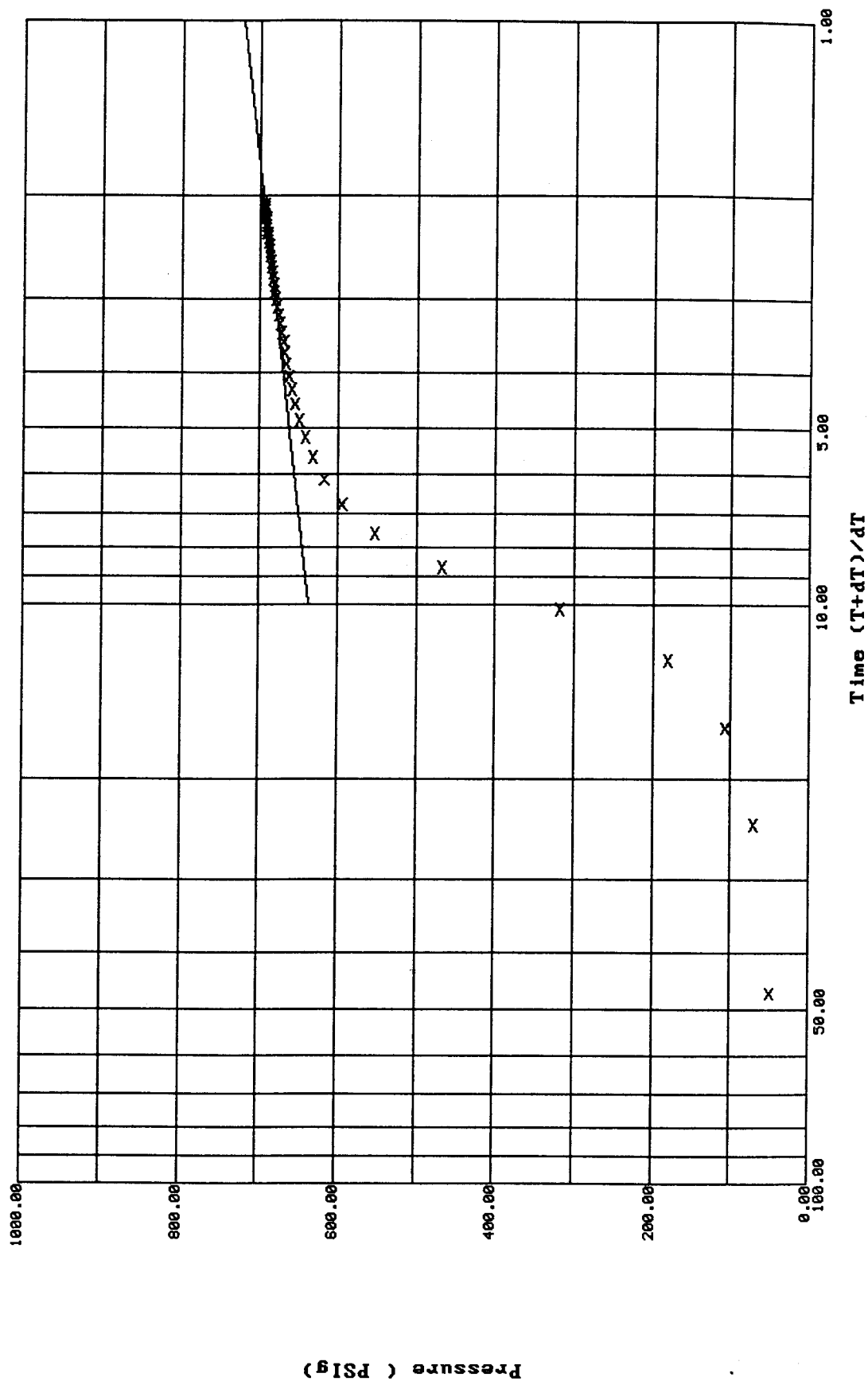
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	14.00	651.9	598.9	107.64	7.5000	0.425
	15.00	656.1	603.2	107.69	7.0667	0.431
	16.00	659.7	606.7	107.75	6.6875	0.435
	17.00	662.7	609.7	107.80	6.3529	0.439
	18.00	665.4	612.4	107.85	6.0556	0.443
	19.00	667.6	614.7	107.90	5.7895	0.446
	20.00	669.7	616.8	107.95	5.5500	0.449
	21.00	671.5	618.5	107.99	5.3333	0.451
	22.00	673.1	620.1	108.04	5.1364	0.453
	23.00	674.5	621.6	108.08	4.9565	0.455
	24.00	675.9	622.9	108.12	4.7917	0.457
	25.00	677.1	624.2	108.16	4.6400	0.458
	26.00	678.2	625.3	108.20	4.5000	0.460
	27.00	679.2	626.3	108.24	4.3704	0.461
	28.00	680.2	627.3	108.27	4.2500	0.463
	29.00	681.1	628.1	108.32	4.1379	0.464
	30.00	682.0	629.0	108.35	4.0333	0.465
	31.00	682.7	629.7	108.38	3.9355	0.466
	32.00	683.4	630.5	108.42	3.8438	0.467
	33.00	684.2	631.2	108.45	3.7576	0.468
	34.00	684.8	631.9	108.48	3.6765	0.469
	35.00	685.3	632.4	108.51	3.6000	0.470
	36.00	685.9	633.0	108.55	3.5278	0.471
	37.00	686.5	633.6	108.58	3.4595	0.471
	38.00	687.1	634.2	108.61	3.3947	0.472
	39.00	687.5	634.6	108.64	3.3333	0.473
	40.00	688.0	635.1	108.68	3.2750	0.473
	41.00	688.5	635.5	108.70	3.2195	0.474
	42.00	689.0	636.1	108.73	3.1667	0.475
	43.00	689.5	636.5	108.77	3.1163	0.475
***** End Shut-in 2	44.00	689.8	636.8	108.79	3.0682	0.476
***** Final Hydro.	287.00	1720.6	0.0	108.93		

Horner Plot: shut-in #1

TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.

Slope: 84.0845 PSig/cycle

Ext. Pressure: 721.6094 PSig

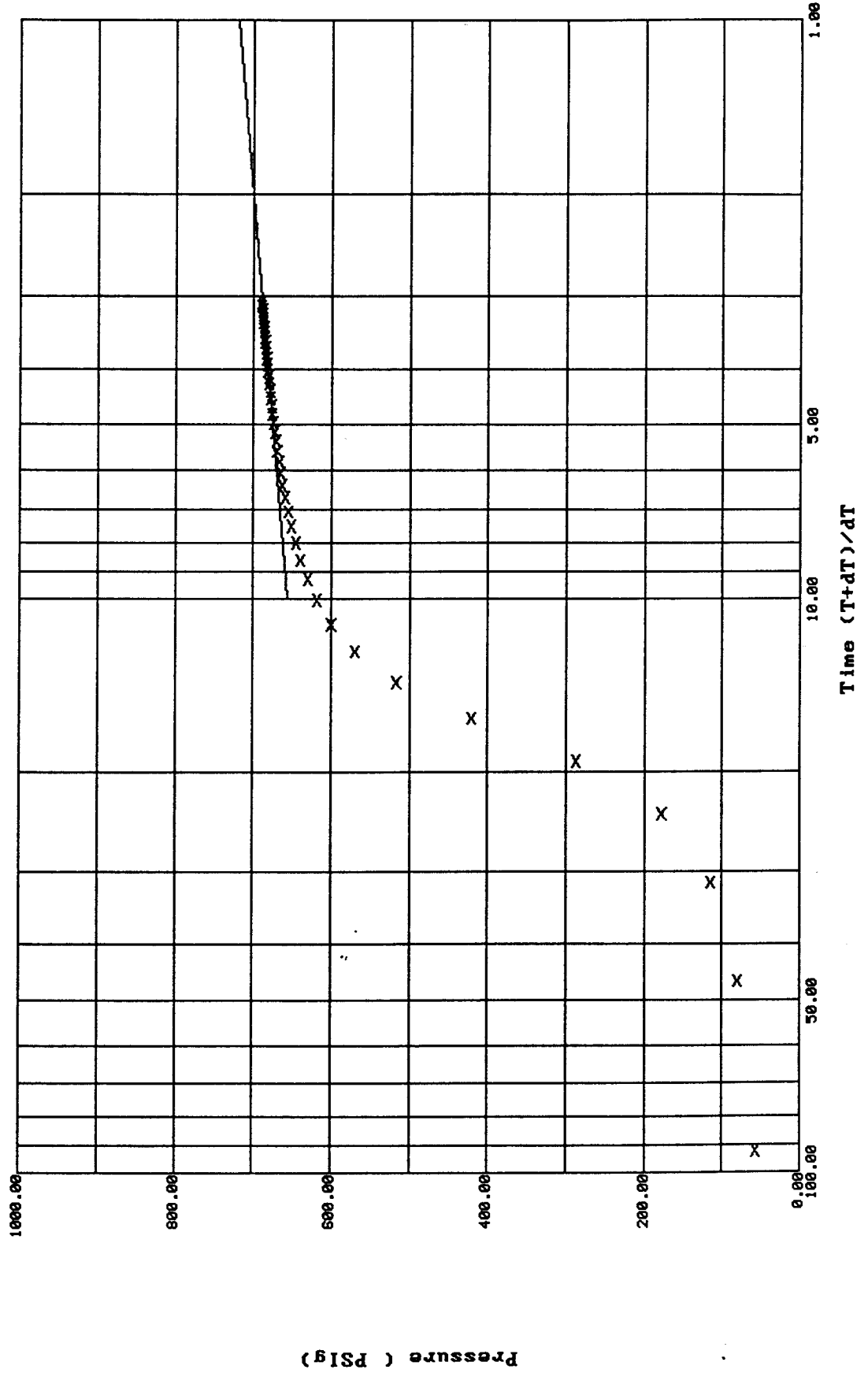


Horner Plot: shut-in #2

TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.

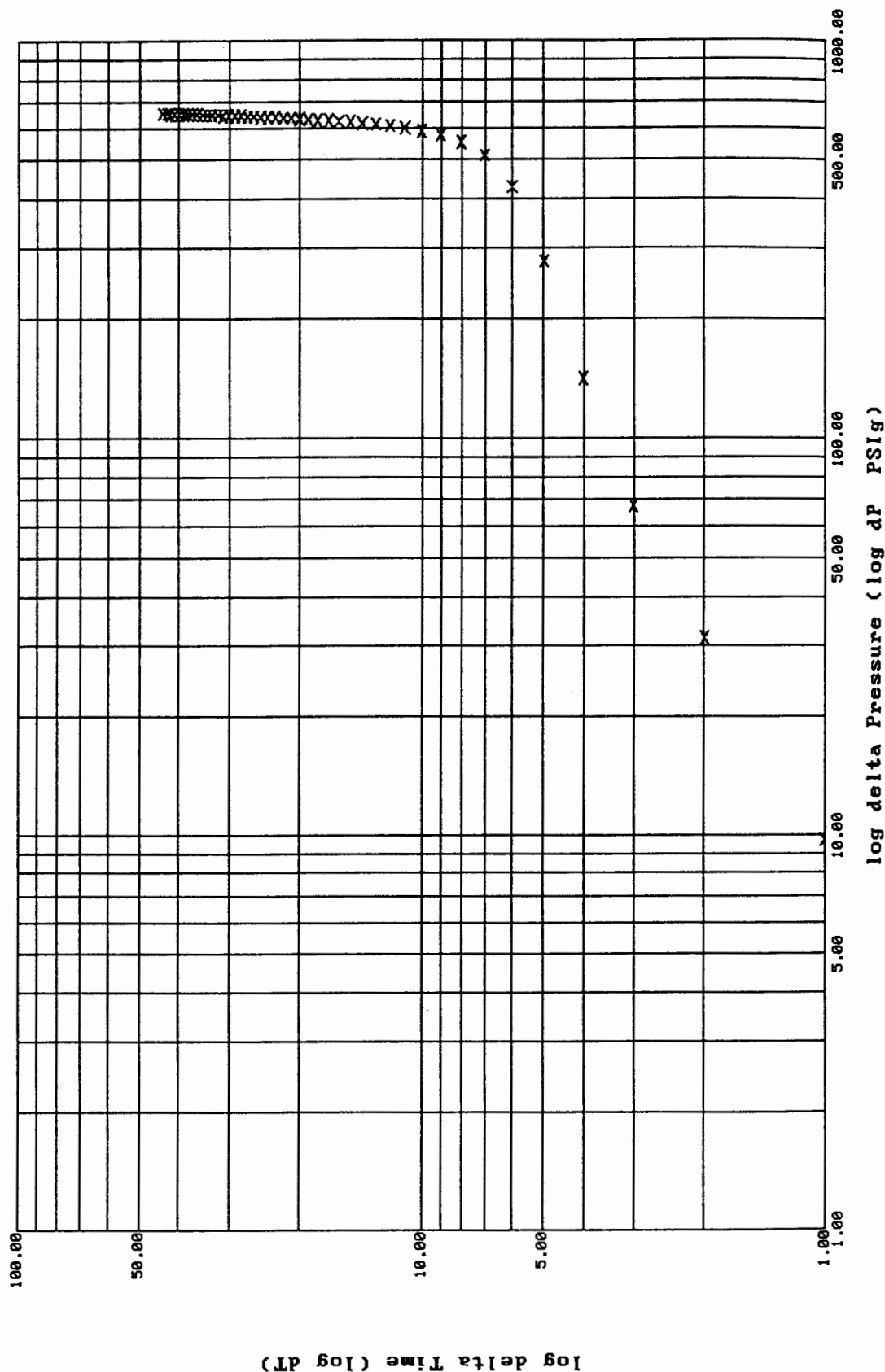
Slope: 63.9810 PSig/cycle

Ext. Pressure: 720.9981 PSig



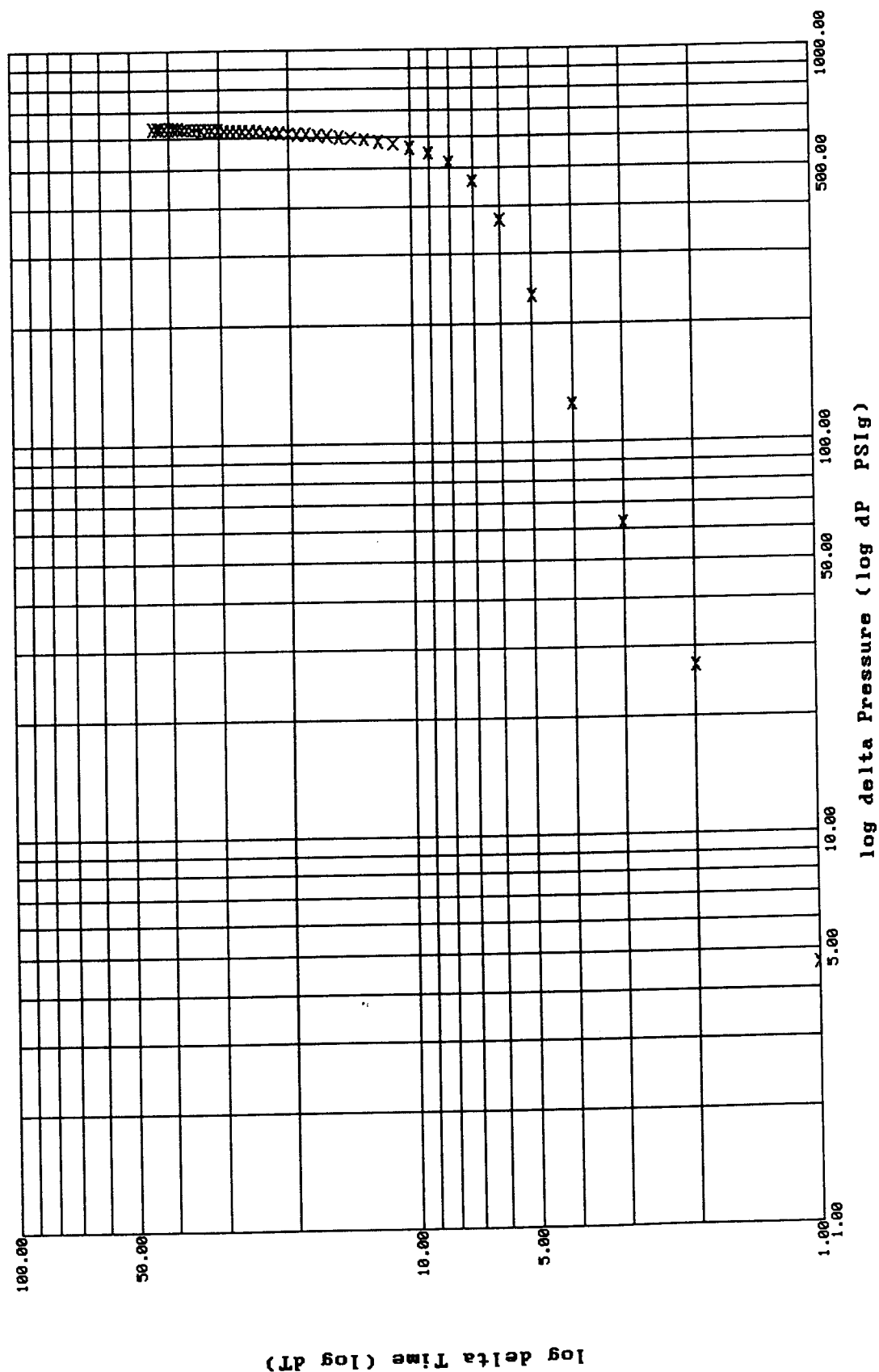
McKinley Plot: shut-in #1

TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.

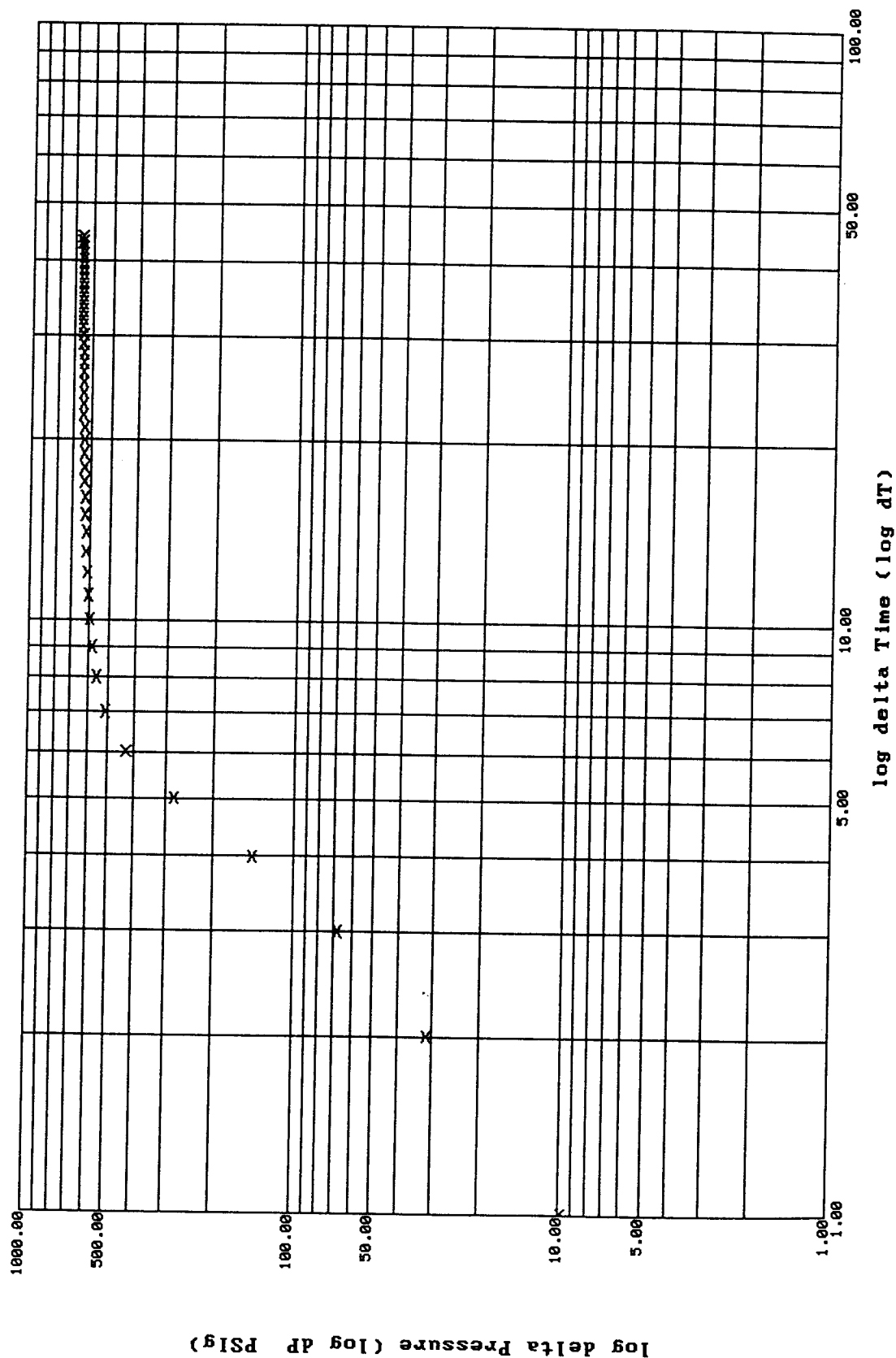


McKinley Plot: shut-in #2

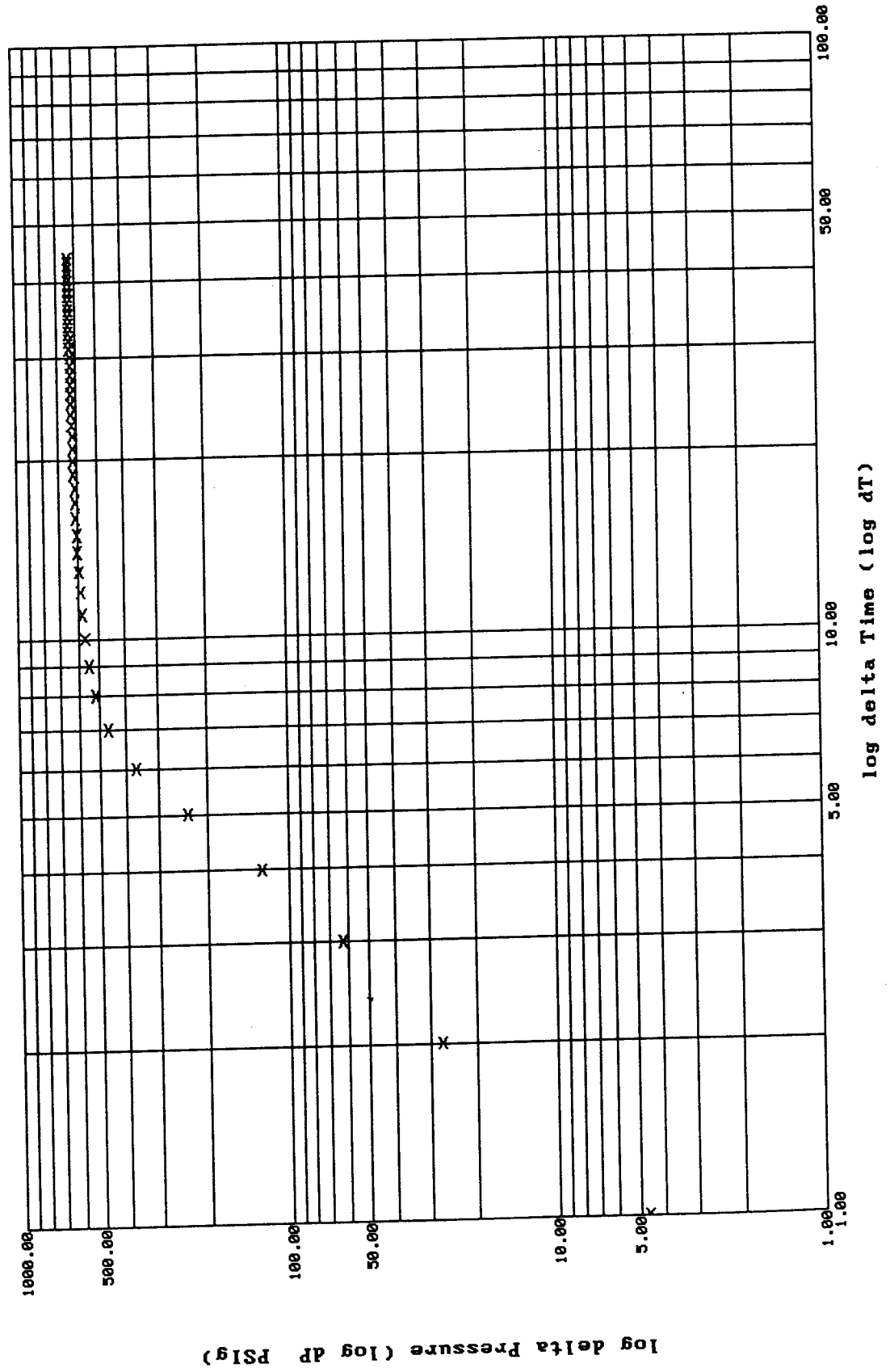
TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.



Ramey Plot: shut-in #1 TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.



Ramey Plot: shut-in #2 TICKET #8731 LOUISE #2-3 DST #1 NOBLE PETRO, INC.



*** TOOL DIAGRAM *** CONV

LL NAME: Lousie #2-3

CATION : 23-11S-21W, Trego Cty KS

CKET No. 8731 D.S.T. No. 1 DATE 12-19-95

TAL TOOL TO BOTTOM OF TOP PACKERS 20

TERVAL TOOL

TTOM PACKERS AND ANCHOR 30

TAL TOOL 50

ILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands Single Total

TAL ASSEMBLY 50

C. ABOVE TOOLS.Stands Single Total

P. ABOVE TOOLS.Stands58 Single 1 Total 3607

TAL DRILL COLLARS DRILL PIPE & TOOLS .. 3657

TAL DEPTH 3635

TAL DRILL PIPE ABOVE K.B. 22

MARKS:

P.O. SUB 3465
C.O. SUB 3585

S.I. TOOL 3591

HMV 3596

JARS NA

SAFETY JOINT NA

PACKER 3600

PACKER 3605

DEPTH 3605

STUBB 1' 3606

ANCHOR 4'PERFS 3610

ALPINE RECORDER 3610

5'PERFS 3615

5'PERFS 3620

T.C.
DEPTH

5'PERFS 3625

5'PERFS 3630

AK-1 RECORDER 3632

BULLNOSE 5'BULLPLUG
T.D. 3635

TRILOBITE TESTING L.L.C.

OPERATOR : Noble Petroleum Inc

DATE 12-19-95

WELL NAME: Louise #2-3

KB 2312.00 ft TICKET NO: 8732 DST #2

LOCATION : 23-11S-21W, Trego Cty KS

GR 0.00 ft FORMATION: 90' KC

INTERVAL : 3655.00 To 3681.00 ft

TD 3681.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13754	13754	2342			PF Fr. 2140 to 2210 hr
SI 30 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 2210 to 2240 hr
SF 30 Clock(hrs)	AK-1	AK-1	ALPIN			SF Fr. 2240 to 2310 hr
FS 30 Depth(ft)	3678.0	3678.0	3657.0	0.0	0.0	FS Fr. 2310 to 2340 hr

	Field	1	2	3	4	
A. Init Hydro	1746.0	1727.0	1722.0	0.0	0.0	T STARTED 2015 hr
B. First Flow	29.0	39.0	19.0	0.0	0.0	T ON BOTM 2135 hr
Bl. Final Flow	39.0	45.0	32.0	0.0	0.0	T OPEN 2140 hr
C. In Shut-in	354.0	369.0	372.0	0.0	0.0	T PULLED 2340 hr
D. Init Flow	49.0	53.0	33.0	0.0	0.0	T OUT 0115 hr
E. Final Flow	49.0	59.0	44.0	0.0	0.0	
F. Fl Shut-in	344.0	352.0	357.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1736.0	1724.0	1722.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 50000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3639.00 ft

RECOVERY

Tot Fluid 60.00 ft of 0.00 ft in DC and 60.00 ft in DP

20.00 ft of Drilling mud

40.00 ft of Heavy oil cut mud - 10% oil, 90% mud

3.00 ft of Pay (est)

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

BLOW DESCRIPTION

Initial Flow -
Weak, building to 4.5"

Final Flow -
Weak, building to 1"

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	43.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	104.00 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 DAN BANGLE

Co. Rep. JAY ABLAH

Contr. DUKE

Rig # 1

Unit #

Pump T.

SAMPLES:

SENT TO:

Test Successful: Y

Operator.....: Noble Petroleum, Inc
Well Name.....: Louise #2-3
DST Number.....: 2

Location.: 23-11S-21W Trego Cty KS Recorder No...: 2342
Test Type: Conventional Recorder Depth: 3657
Formation: Kansas City 90' Test Interval.: 3655-3681

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....:	3.00 ft
Porosity.....:	10.00 %
Bottom Hole Temp.....:	104.00 F
Specific Gravity.....:	0.850
API Gravity.....:	35.00
Compressibility.....:	0.000002 /psi
Viscosity.....:	10.2810 cp
Total Recovery.....:	60.00 ft
Total Flowing Time.....:	60.00 min.
Flow Rate.....:	1.37 bbls/d
Final Flowing Pressure.....:	44.00 psi
Horner Slope.....:	146.4491 psi/cycle
Extrapolated Pressure.....:	424.96 psi
Formation Volume Factor.....:	1.02 Reservoir/Surface
Well Bore Radius.....:	3.94 in

RESULTS:

Effective Permeability.....:	5.336833 md
Flow Capacity.....:	16.0105 md.ft
Transmissibility.....:	1.5573 md.ft/cp
Skin Factor.....:	-1.4611
Radius of Investigation.....:	52.23507 ft
Damage Ratio.....:	0.6721
Productivity Index.....:	0.0036 bbls/psi.d
Productivity Index W/O Damage..:	0.0024 bbls/psi.d

CALCULATED RECOVERY ANALYSIS - DRILL PIPE

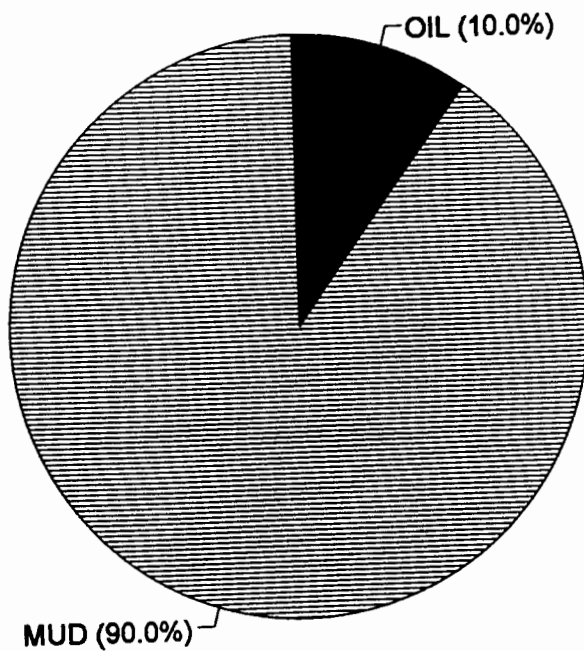
TICKET # 8732

ST # 2

AMPLE	TOTAL	GAS		OIL		WATER		MUD	
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	40		0	10	4		0	90	36
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
TOTAL	40	0.00	0	10.00	4	0	0	90.00	36

HRS OPE BBL/DAY

BBL OIL= 0.05688 * 1.00 1.37
 BBL WATER= 0 * 0.00
 BBL MUD= 0.51192
 BBL GAS 0



8732 DST#2 TEST HISTORY LOUISE #2-3 NOBLE PETRO, INC

Flag Points

	t (Min.)	PC	PSig
A	0.00	1722.44	
B	0.00	18.54	
C	31.00	31.83	
D	32.00	371.98	
E	0.00	32.64	
F	27.00	43.63	
G	30.00	356.52	
Q	0.00	1722.02	

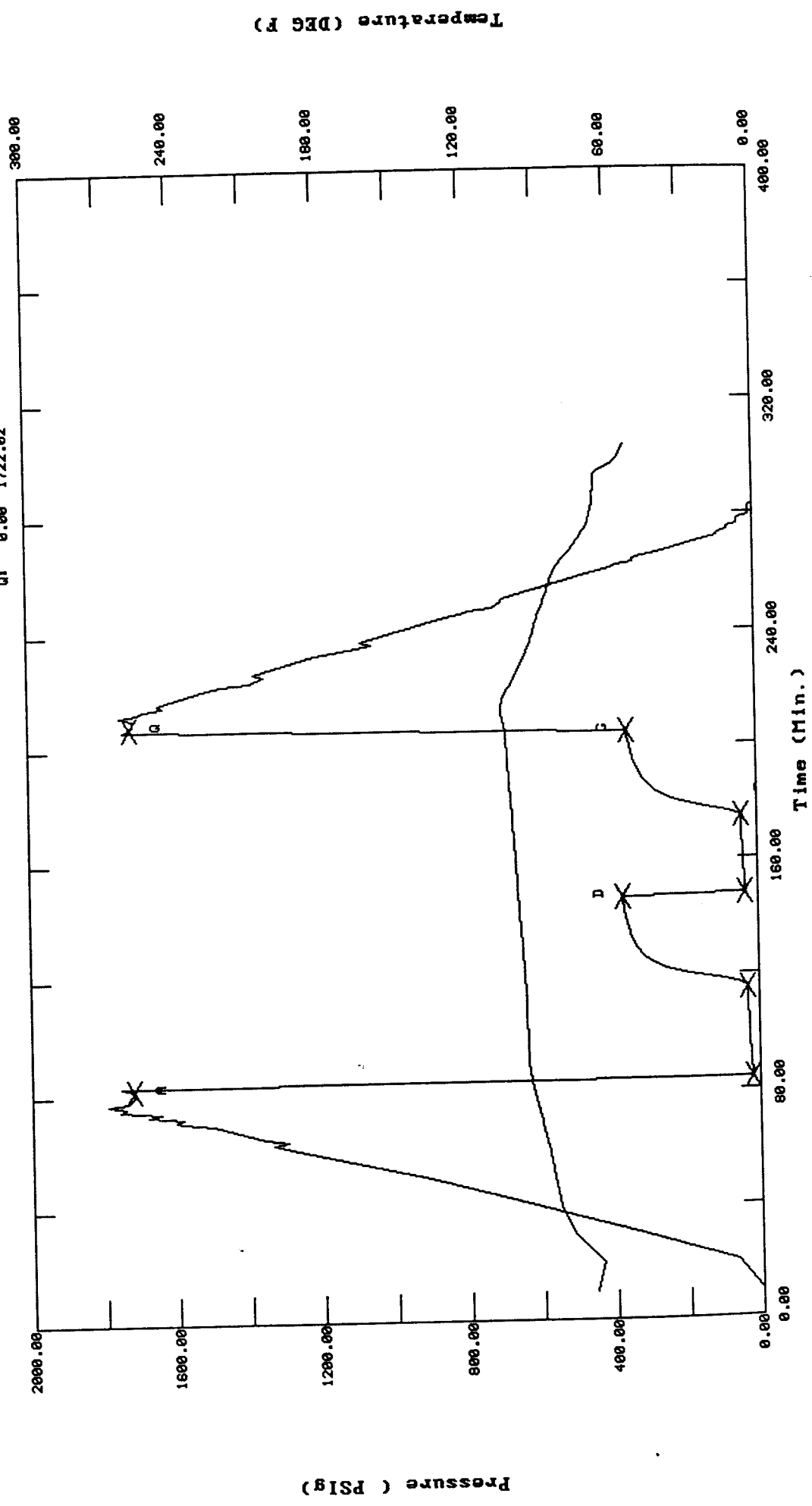
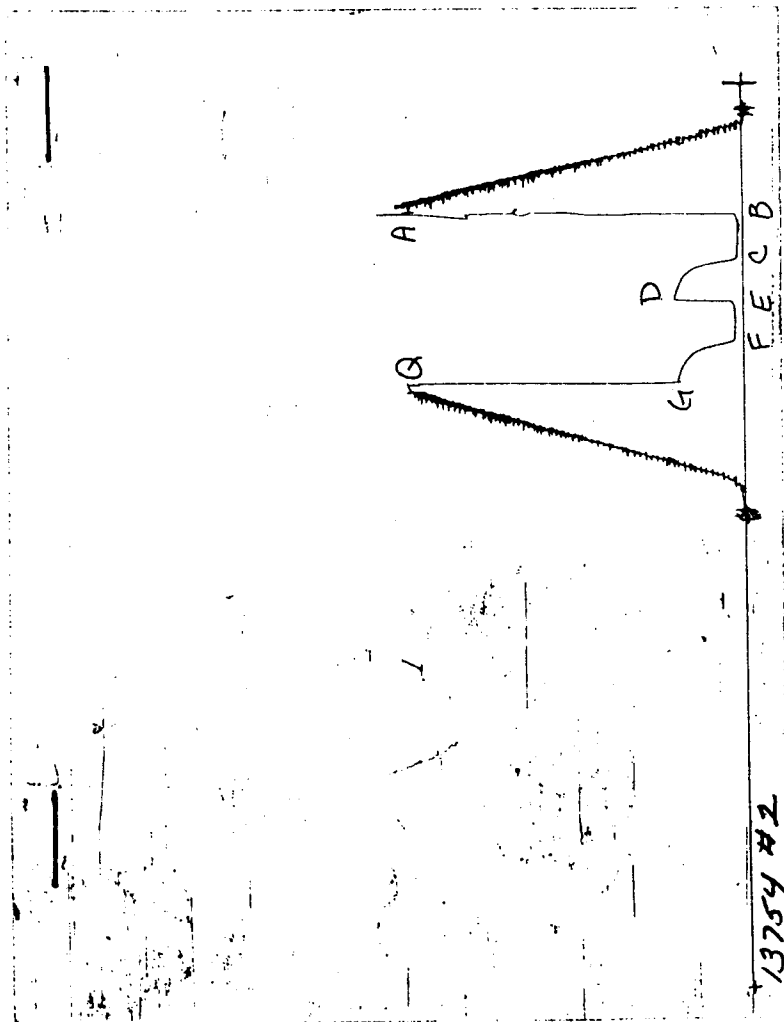


CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC

DATE: 12/19/95 TIME: 09:12:27

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	82.00	1722.4	0.0	93.69		
***** Start Flow 1	0.00	18.5	0.0	94.03		
	1.00	19.5	1.0	94.26		
	2.00	19.5	0.9	94.48		
	3.00	20.0	1.4	94.69		
	4.00	20.6	2.0	94.85		
	5.00	21.2	2.7	94.99		
	6.00	21.8	3.3	95.11		
	7.00	22.5	3.9	95.20		
	8.00	22.8	4.3	95.27		
	9.00	23.7	5.1	95.33		
	10.00	24.2	5.7	95.38		
	11.00	24.9	6.4	95.42		
	12.00	25.3	6.8	95.45		
	13.00	25.4	6.9	95.48		
	14.00	26.4	7.9	95.51		
	15.00	26.2	7.6	95.52		
	16.00	26.3	7.7	95.55		
	17.00	26.6	8.1	95.57		
	18.00	27.0	8.5	95.59		
	19.00	27.4	8.8	95.61		
	20.00	27.5	9.0	95.63		
	21.00	27.9	9.3	95.66		
	22.00	28.3	9.7	95.68		
	23.00	28.7	10.2	95.71		
	24.00	29.3	10.7	95.74		
	25.00	29.7	11.2	95.78		
	26.00	29.8	11.2	95.81		
	27.00	30.2	11.7	95.85		
	28.00	30.6	12.1	95.89		
	29.00	31.1	12.6	95.93		
	30.00	31.3	12.8	95.98		
***** End Flow 1	31.00	31.6	13.1	96.03		
***** Start Shutin 1	0.00	31.6	0.0	96.03	0.0000	0.001
	1.00	36.8	5.1	96.08	32.0000	0.001
	2.00	59.3	27.7	96.14	16.5000	0.004
	3.00	95.3	63.7	96.20	11.3333	0.009
	4.00	142.6	111.0	96.26	8.7500	0.020
	5.00	188.7	157.1	96.33	7.2000	0.036
	6.00	224.5	192.9	96.40	6.1667	0.050
	7.00	249.8	218.1	96.47	5.4286	0.062
	8.00	270.4	238.8	96.55	4.8750	0.073
	9.00	286.7	255.1	96.62	4.4444	0.082
	10.00	299.2	267.6	96.71	4.1000	0.090
	11.00	309.0	277.4	96.80	3.8182	0.095
	12.00	317.2	285.5	96.88	3.5833	0.101
	13.00	324.0	292.3	96.96	3.3846	0.105
	14.00	329.7	298.1	97.05	3.2143	0.109
	15.00	334.7	303.1	97.13	3.0667	0.112
	16.00	339.1	307.5	97.22	2.9375	0.115
	17.00	342.8	311.1	97.30	2.8235	0.117

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC

DATE: 12/19/95 TIME: 09:12:27

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	82.00	1722.4	0.0	93.69		
***** Start Flow 1	0.00	18.5	0.0	94.03		
	1.00	19.5	1.0	94.26		
	2.00	19.5	0.9	94.48		
	3.00	20.0	1.4	94.69		
	4.00	20.6	2.0	94.85		
	5.00	21.2	2.7	94.99		
	6.00	21.8	3.3	95.11		
	7.00	22.5	3.9	95.20		
	8.00	22.8	4.3	95.27		
	9.00	23.7	5.1	95.33		
	10.00	24.2	5.7	95.38		
	11.00	24.9	6.4	95.42		
	12.00	25.3	6.8	95.45		
	13.00	25.4	6.9	95.48		
	14.00	26.4	7.9	95.51		
	15.00	26.2	7.6	95.52		
	16.00	26.3	7.7	95.55		
	17.00	26.6	8.1	95.57		
	18.00	27.0	8.5	95.59		
	19.00	27.4	8.8	95.61		
	20.00	27.5	9.0	95.63		
	21.00	27.9	9.3	95.66		
	22.00	28.3	9.7	95.68		
	23.00	28.7	10.2	95.71		
	24.00	29.3	10.7	95.74		
	25.00	29.7	11.2	95.78		
	26.00	29.8	11.2	95.81		
	27.00	30.2	11.7	95.85		
	28.00	30.6	12.1	95.89		
	29.00	31.1	12.6	95.93		
	30.00	31.3	12.8	95.98		
***** End Flow 1	31.00	31.6	13.1	96.03		
***** Start Shutin 1	0.00	31.6	0.0	96.03	0.0000	0.001
	1.00	36.8	5.1	96.08	32.0000	0.001
	2.00	59.3	27.7	96.14	16.5000	0.004
	3.00	95.3	63.7	96.20	11.3333	0.009
	4.00	142.6	111.0	96.26	8.7500	0.020
	5.00	188.7	157.1	96.33	7.2000	0.036
	6.00	224.5	192.9	96.40	6.1667	0.050
	7.00	249.8	218.1	96.47	5.4286	0.062
	8.00	270.4	238.8	96.55	4.8750	0.073
	9.00	286.7	255.1	96.62	4.4444	0.082
	10.00	299.2	267.6	96.71	4.1000	0.090
	11.00	309.0	277.4	96.80	3.8182	0.095
	12.00	317.2	285.5	96.88	3.5833	0.101
	13.00	324.0	292.3	96.96	3.3846	0.105
	14.00	329.7	298.1	97.05	3.2143	0.109
	15.00	334.7	303.1	97.13	3.0667	0.112
	16.00	339.1	307.5	97.22	2.9375	0.115
	17.00	342.8	311.1	97.30	2.8235	0.117

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC

DATE: 12/19/95

TIME: 09:12:27

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	18.00	346.1	314.5	97.39	2.7222	0.120
	19.00	349.1	317.5	97.47	2.6316	0.122
	20.00	351.8	320.2	97.57	2.5500	0.124
	21.00	354.3	322.7	97.66	2.4762	0.126
	22.00	356.6	325.0	97.74	2.4091	0.127
	23.00	358.6	327.0	97.83	2.3478	0.129
	24.00	360.5	328.9	97.92	2.2917	0.130
	25.00	362.3	330.7	98.01	2.2400	0.131
	26.00	363.9	332.3	98.10	2.1923	0.132
	27.00	365.5	333.9	98.18	2.1481	0.134
	28.00	366.9	335.3	98.27	2.1071	0.135
	29.00	368.4	336.7	98.35	2.0690	0.136
	30.00	369.5	337.9	98.44	2.0333	0.137
	31.00	370.8	339.2	98.52	2.0000	0.137
***** End Shut-in 1	32.00	372.0	340.3	98.61	1.9688	0.138
***** Start Flow 2	0.00	32.6	0.0	98.68		
	1.00	33.7	1.1	98.75		
	2.00	34.1	1.4	98.82		
	3.00	34.7	2.0	98.89		
	4.00	35.1	2.4	98.96		
	5.00	35.7	3.0	99.02		
	6.00	36.1	3.4	99.10		
	7.00	36.4	3.8	99.18		
	8.00	36.9	4.3	99.25		
	9.00	37.3	4.6	99.32		
	10.00	37.7	5.0	99.39		
	11.00	38.0	5.4	99.47		
	12.00	38.4	5.8	99.54		
	13.00	38.8	6.1	99.62		
	14.00	39.0	6.4	99.70		
	15.00	39.4	6.8	99.77		
	16.00	39.8	7.1	99.85		
	17.00	40.2	7.6	99.93		
	18.00	40.5	7.9	100.01		
	19.00	40.9	8.2	100.09		
	20.00	41.1	8.5	100.16		
	21.00	41.5	8.9	100.24		
	22.00	41.9	9.2	100.32		
	23.00	42.1	9.5	100.40		
	24.00	42.5	9.9	100.49		
	25.00	42.8	10.2	100.57		
	26.00	43.1	10.5	100.65		
***** End Flow 2	27.00	43.6	11.0	100.73		
***** Start Shutin 2	0.00	43.6	0.0	100.73	0.0000	0.002
	1.00	66.6	23.0	100.82	59.0000	0.004
	2.00	100.2	56.6	100.90	30.0000	0.010
	3.00	139.2	95.6	100.99	20.3333	0.019
	4.00	175.1	131.4	101.08	15.5000	0.031
	5.00	206.5	162.8	101.17	12.6000	0.043
	6.00	231.5	187.9	101.25	10.6667	0.054
	7.00	250.6	207.0	101.35	9.2857	0.063

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC

DATE: 12/19/95 TIME: 09:12:27

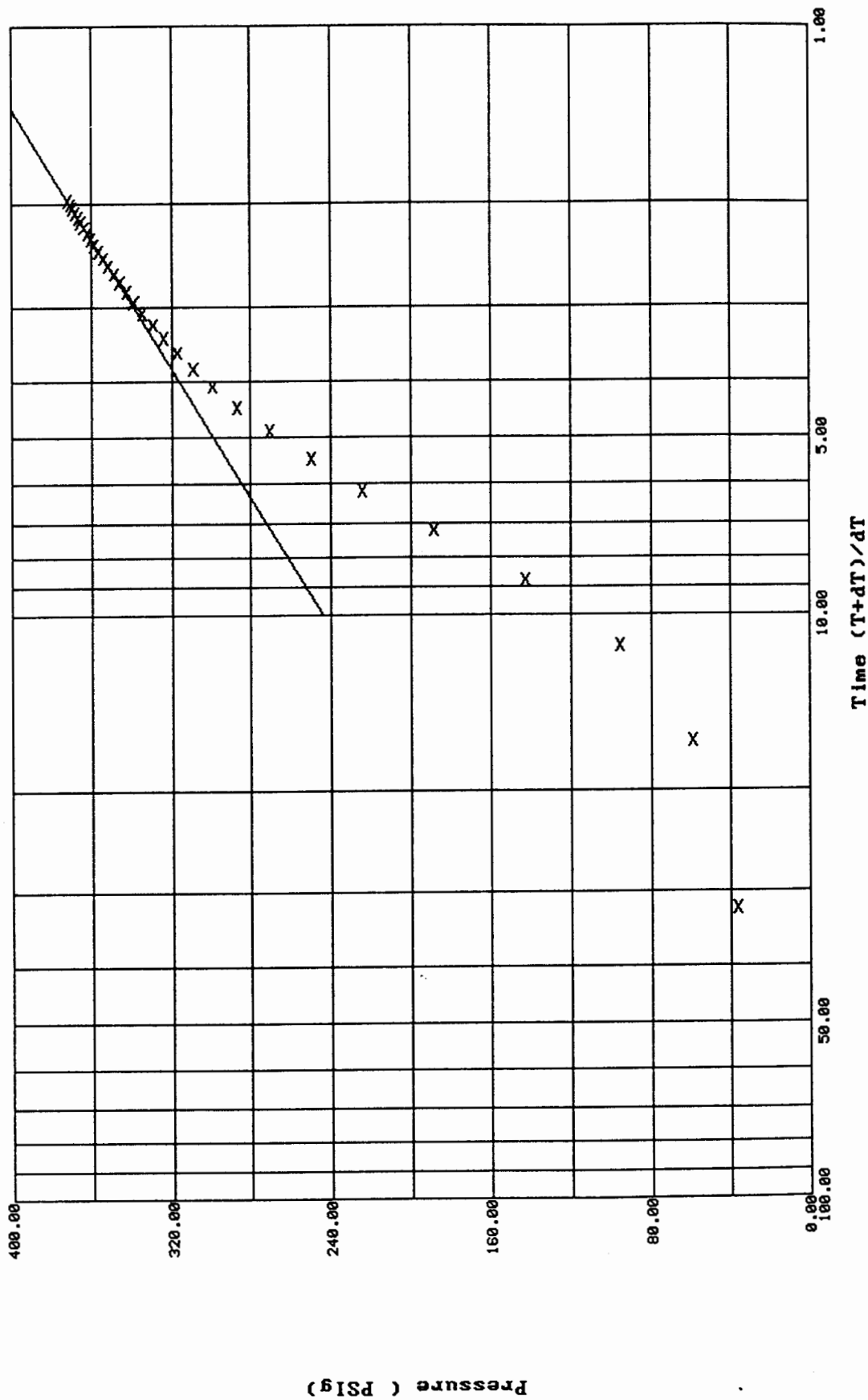
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	8.00	265.6	222.0	101.43	8.2500	0.071
	9.00	277.7	234.1	101.52	7.4444	0.077
	10.00	287.8	244.1	101.61	6.8000	0.083
	11.00	296.2	252.5	101.70	6.2727	0.088
	12.00	303.4	259.8	101.79	5.8333	0.092
	13.00	309.7	266.1	101.88	5.4615	0.096
	14.00	315.1	271.4	101.97	5.1429	0.099
	15.00	319.9	276.3	102.05	4.8667	0.102
	16.00	324.2	280.6	102.13	4.6250	0.105
	17.00	328.1	284.4	102.22	4.4118	0.108
	18.00	331.5	287.9	102.30	4.2222	0.110
	19.00	334.6	291.0	102.38	4.0526	0.112
	20.00	337.5	293.8	102.46	3.9000	0.114
	21.00	340.1	296.4	102.54	3.7619	0.116
	22.00	342.4	298.8	102.63	3.6364	0.117
	23.00	344.6	301.0	102.70	3.5217	0.119
	24.00	346.6	303.0	102.78	3.4167	0.120
	25.00	348.5	304.9	102.85	3.3200	0.121
	26.00	350.4	306.8	102.92	3.2308	0.123
	27.00	352.1	308.4	103.00	3.1481	0.124
	28.00	353.6	309.9	103.07	3.0714	0.125
	29.00	355.1	311.5	103.14	3.0000	0.126
***** End Shut-in 2	30.00	356.5	312.9	103.21	2.9333	0.127
***** Final Hydro.	208.00	1722.0	0.0	103.81		

Horner Plot: shut-in #1

8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC

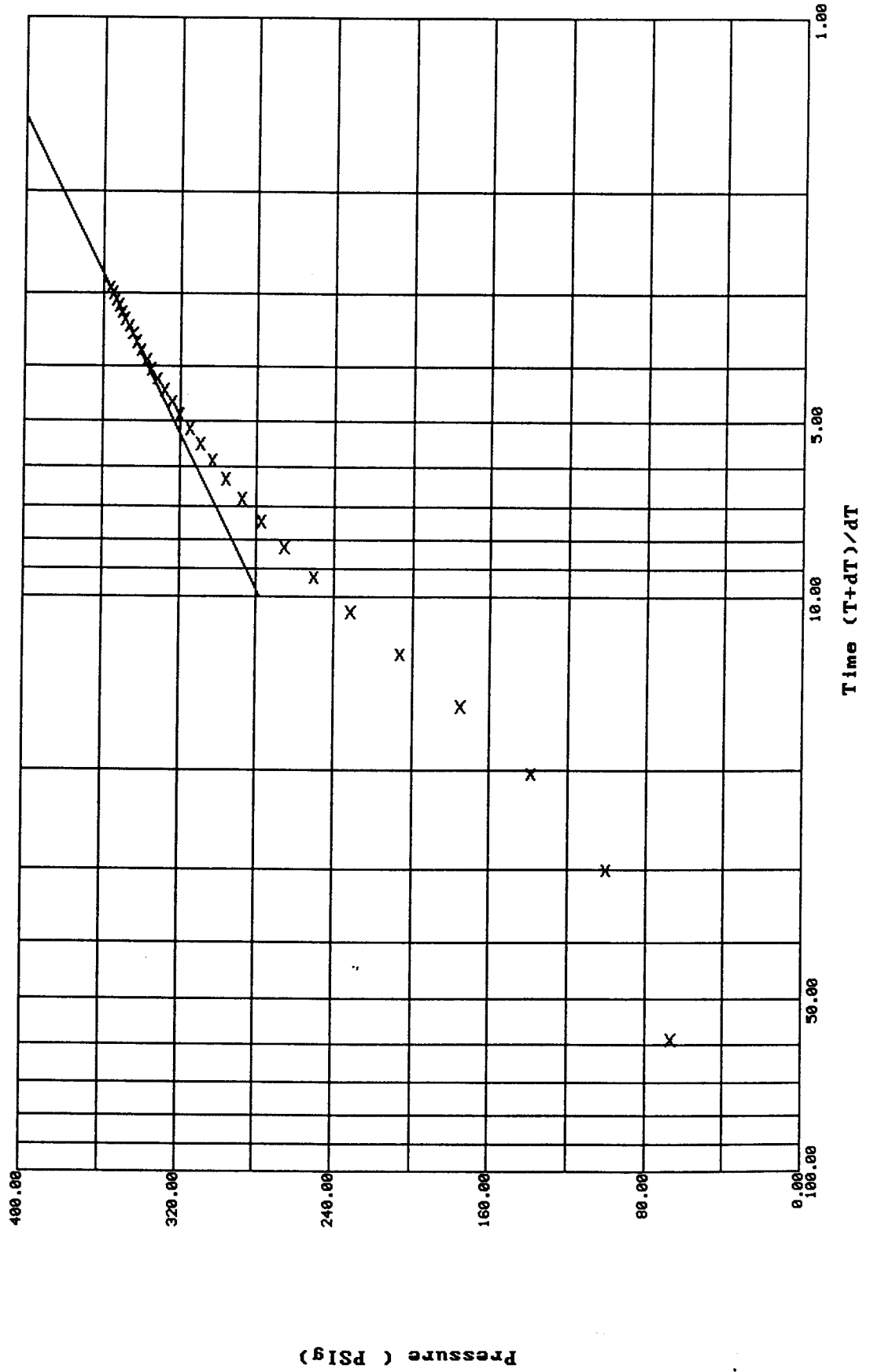
Slope: 182.8778 PSig/cycle

Ext. Pressure: 425.8438 PSig



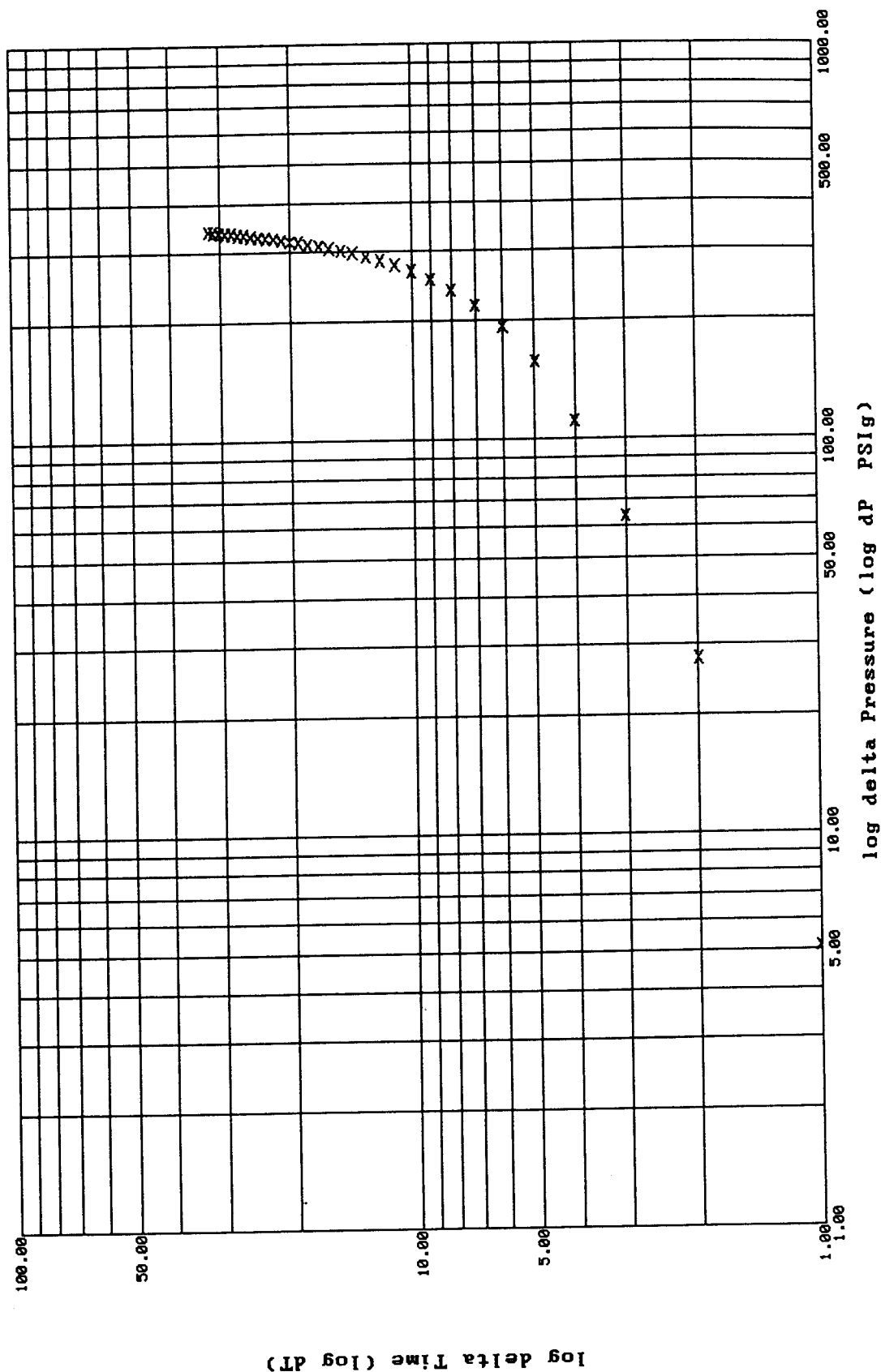
Horner Plot: shut-in #2 8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC

Slope: 146.4491 PSig/cycle
 Ext. Pressure: 424.9627 PSig



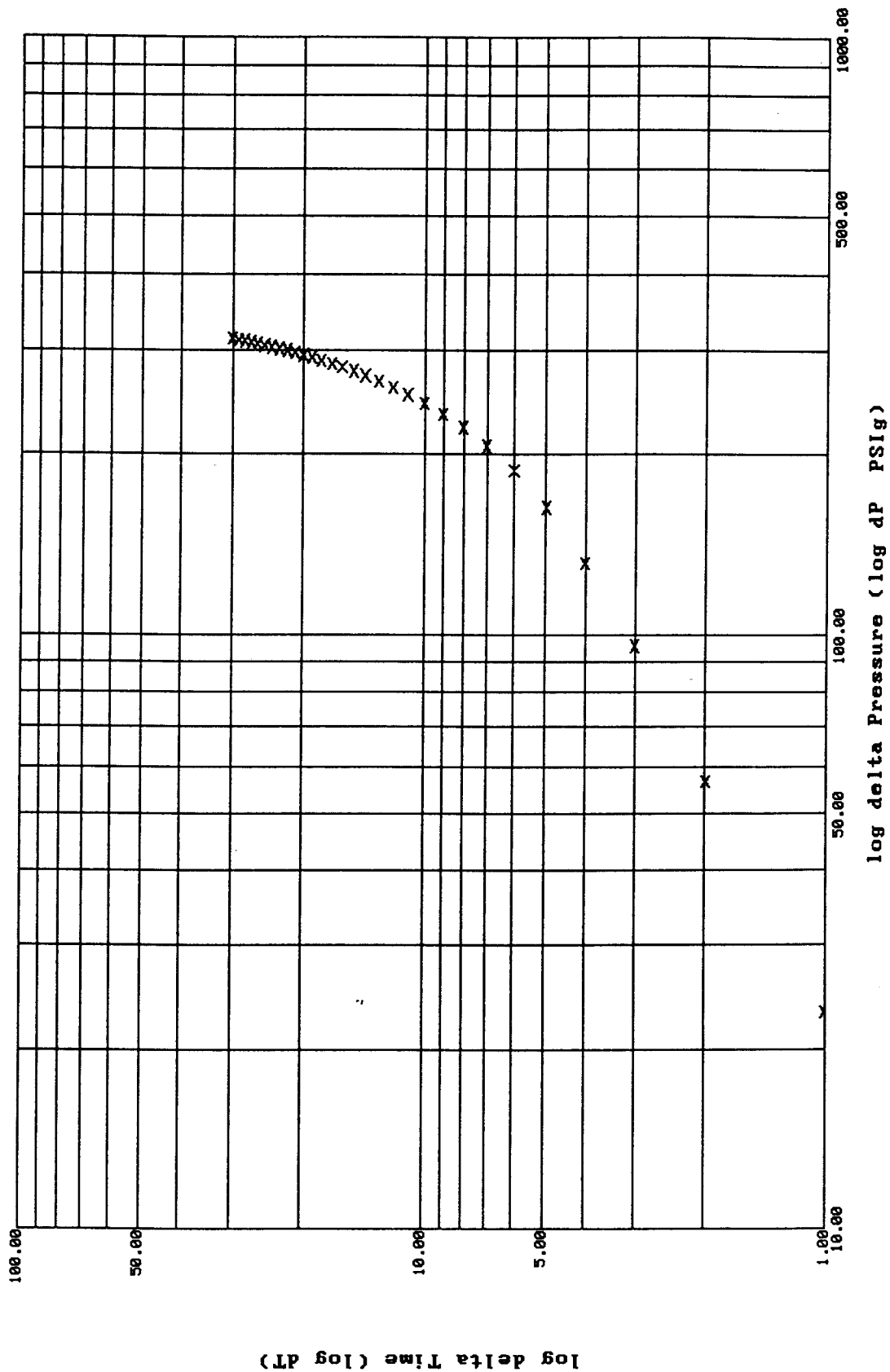
McKinley Plot: shut-in #1

8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC



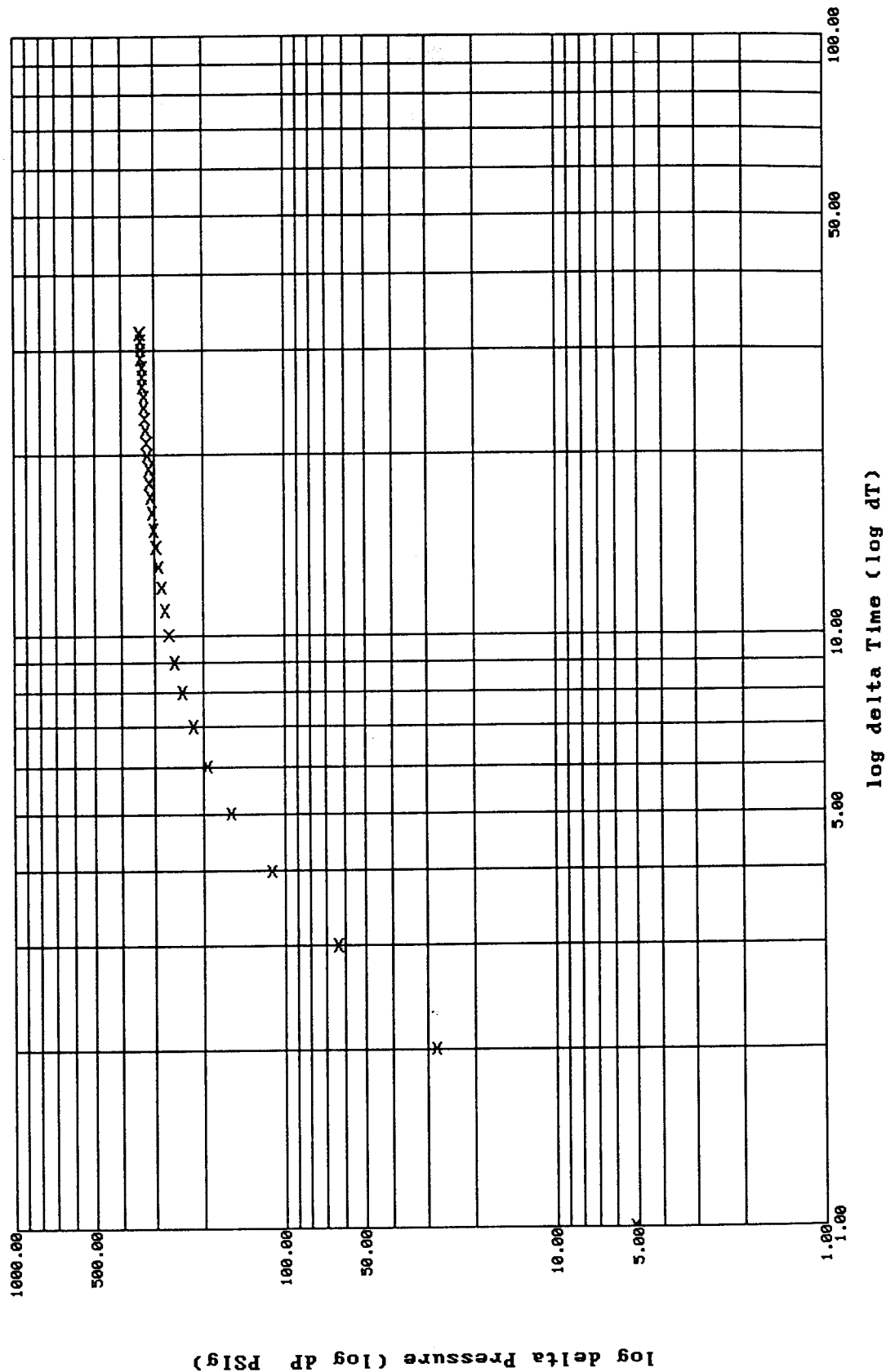
McKinley Plot: shut-in #2

8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC

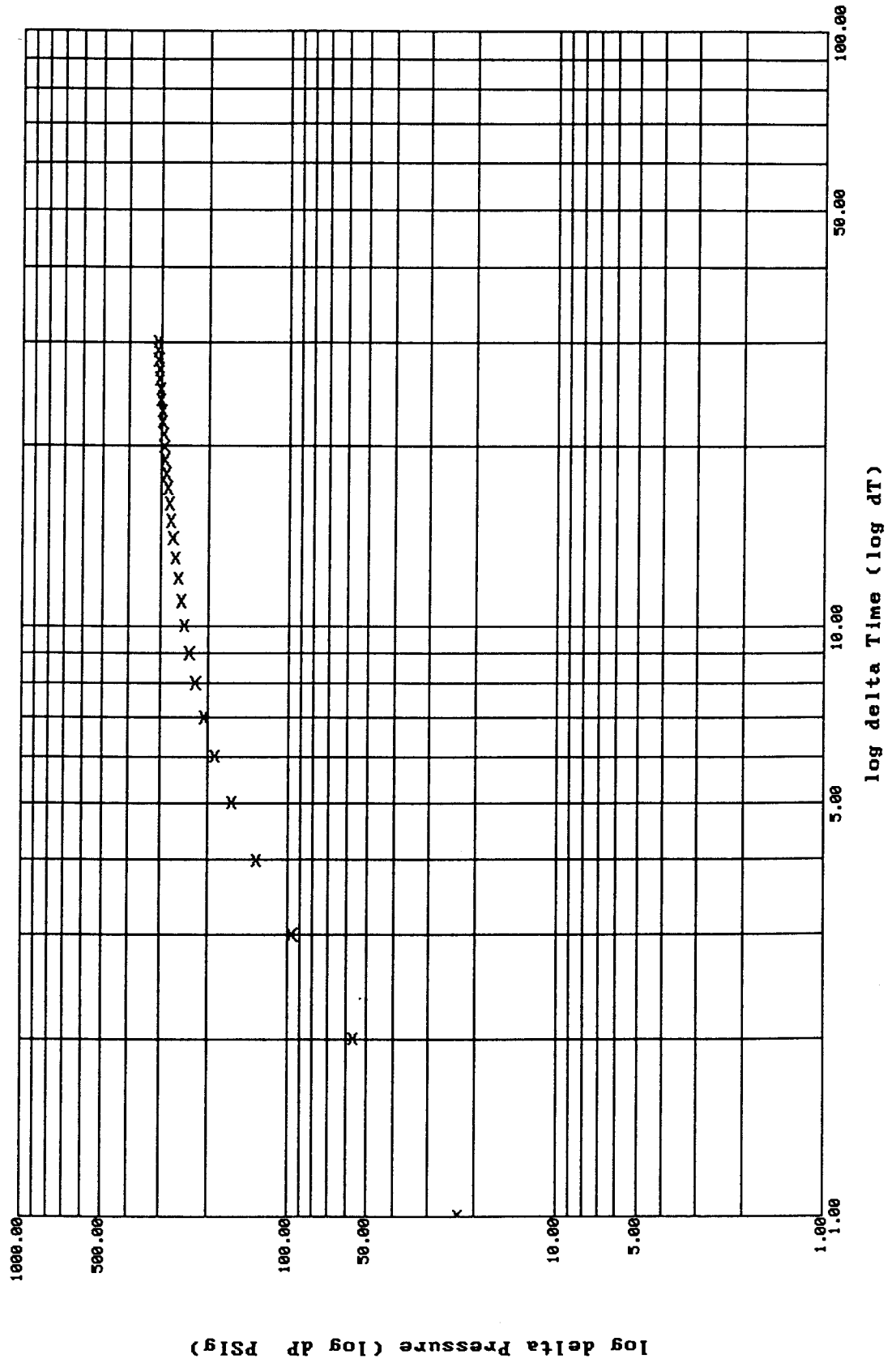


Ramey Plot: shut-in #1

8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC



Ramey Plot: shut-in #2 8732 DST#2 LOUISE #2-3 NOBLE PETRO, INC



*** TOOL DIAGRAM *** CONV

WELL NAME: Louise #2-3

LOCATION : 23-11S-21W, Trego Cty KS

TICKET No. 8732 D.S.T. No. 2 DATE 12-19-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1
25	1	1	1
26	1	1	1
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1
31	1	1	1
32	1	1	1
33	1	1	1
34	1	1	1
35	1	1	1
36	1	1	1
37	1	1	1
38	1	1	1
39	1	1	1
40	1	1	1
41	1	1	1
42	1	1	1
43	1	1	1
44	1	1	1
45	1	1	1
46	1	1	1
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85	1	1	1
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87	1	1	1
88	1	1	1
89	1	1	1
90	1	1	1
91	1	1	1
92	1	1	1
93	1	1	1
94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

D.P. ANCHOR STND.Stands	Single	Total
-------------------------	--------	-------

TOTAL ASSEMBLY 46

D.C. ABOVE TOOLS.Stands	Single	Total
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
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89	1	1
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92	1	1
93	1	1
94	1	1
95	1	1
96	1	1
97	1	1
98	1	1
99	1	1
100	1	1

D.P. ABOVE TOOLS.Stands59 Single 1 Total 3639

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3685

TOTAL DEPTH 3681

TOTAL DRILL PIPE ABOVE K.B. 4

REMARKS :

P.O. SUB 3515

C.O. SUB 3635

S.I. TOOL 3641

HMV 3646

JARS NA

SAFETY JOINT NA

PACKER 3650

PACKER 3655

DEPTH 3655

STUBB 1' 3656

ANCHOR

ALPINE RECORDER 3657

5' PERFS 3661

5' PERFS	3666
----------	------

[illegible]

5' PERFS 3671

5' PERFS 3676

AK-1 RECORDER 3678

BULLNOSE 5' BULLPLUG

T.D. 3681

TRILOBITE TESTING L.L.C.

OPERATOR : Noble Petroleum, Inc

DATE 12-20-95

WELL NAME: Lousie #2-3

KB 2312.00 ft

TICKET NO: 8733

DST #3

LOCATION : 23-11S-21W, Trego Cty KS

GR 0.00 ft

FORMATION: Arbuckle

INTERVAL : 3885.00 To 3897.00 ft

TD 3897.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	13754	13754	2342			PF Fr. 2210 to 2255 hr
SI 45 Range(Psi)	4000.0	4000.0	4995.0	0.0	0.0	IS Fr. 2255 to 2340 hr
SF 45 Clock(hrs)	AK-1	AK-1	ALPIN			SF Fr. 2340 to 2425 hr
FS 45 Depth(ft)	3894.0	3894.0	3888.0	0.0	0.0	FS Fr. 2425 to 0110 hr

	Field	1	2	3	4	
A. Init Hydro	1996.0	2001.0	1934.0	0.0	0.0	T STARTED 2040 hr
B. First Flow	19.0	18.0	21.0	0.0	0.0	T ON BOTM 2205 hr
B1. Final Flow	29.0	30.0	49.0	0.0	0.0	T OPEN 2210 hr
C. In Shut-in	1136.0	1129.0	1145.0	0.0	0.0	T PULLED 0110 hr
D. Init Flow	49.0	48.0	46.0	0.0	0.0	T OUT 0245 hr
E. Final Flow	68.0	58.0	73.0	0.0	0.0	
F. Fl Shut-in	1116.0	1118.0	1139.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1936.0	1924.0	1840.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 57000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3890.00 ft

RECOVERY

Tot Fluid 180.00 ft of 0.00 ft in DC and 180.00 ft in DP

120.00 ft of Gas in pipe

150.00 ft of Clean oil - 100%

30.00 ft of Slightly mud cut oil - 90% oil, 10% mud

6.00 ft of Pay (est)

SALINITY 0.00 P.P.M. A.P.I. Gravity 34.00

BLOW DESCRIPTION

Initial Flow -

Weak, building to strong, bottom of bucket in 45 min

Final Flow -

Weak, building to 4" fair blow

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	44.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	109.00 F
Hole Condition	GOOD
% Porosity	13.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00

Cushion Type
Reversed Out N
Tool Chased N

Tester	DAN BANGLE
Co. Rep.	JAY ABLAH
Contr.	DUKE
Rig #	1
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

Operator.....: Noble Petroleum, Inc
Well Name.....: Louise #2-3
DST Number.....: 3

Location.: 23-11S-21W Trego Cty KS Recorder No...: 2342
Test Type: Conventional Recorder Depth: 3888
Formation: Arbuckle Test Interval.: 3885-3897

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....:	6.00 ft
Porosity.....:	13.00 %
Bottom Hole Temp.....:	109.00 F
Specific Gravity.....:	0.855
API Gravity.....:	34.00
Compressibility.....:	0.000000 /psi
Viscosity.....:	25.5785 cp
Total Recovery.....:	180.00 ft
Total Flowing Time.....:	90.00 min.
Flow Rate.....:	40.27 bbls/d
Final Flowing Pressure.....:	73.00 psi
Horner Slope.....:	64.0758 psi/cycle
Extrapolated Pressure.....:	1167.68 psi
Formation Volume Factor.....:	1.02 Reservoir/Surface
Well Bore Radius.....:	3.94 in

RESULTS:

Effective Permeability.....:	446.491761 md
Flow Capacity.....:	2678.9506 md.ft
Transmissibility.....:	104.7345 md.ft/cp
Skin Factor.....:	11.9940
Radius of Investigation.....:	1301.49091 ft
Damage Ratio.....:	2.5638
Productivity Index.....:	0.0368 bbls/psi.d
Productivity Index W/O Damage..:	0.0943 bbls/psi.d

Operator.....: Noble Petroleum, Inc
Well Name.....: Louise #2-3
DST Number.....: 3

Location.: 23-11S-21W Trego Cty KS Recorder No....: 2342
Test Type: Conventional Recorder Depth: 3888
Formation: Arbuckle Test Interval.: 3885-3897

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....:	6.00 ft
Porosity.....:	13.00 %
Bottom Hole Temp.....:	109.00 F
Specific Gravity.....:	0.855
API Gravity.....:	34.00
Compressibility.....:	0.000000 /psi
Viscosity.....:	25.5785 cp
Total Recovery.....:	180.00 ft
Total Flowing Time.....:	90.00 min.
Flow Rate.....:	40.27 bbls/d
Final Flowing Pressure.....:	73.00 psi
Horner Slope.....:	64.0758 psi/cycle
Extrapolated Pressure.....:	1167.68 psi
Formation Volume Factor.....:	1.02 Reservoir/Surface
Well Bore Radius.....:	3.94 in

RESULTS:

Effective Permeability.....:	446.491761 md
Flow Capacity.....:	2678.9506 md.ft
Transmissibility.....:	104.7345 md.ft/cp
Skin Factor.....:	11.9940
Radius of Investigation.....:	1301.49091 ft
Damage Ratio.....:	2.5638
Productivity Index.....:	0.0368 bbls/psi.d
Productivity Index W/O Damage..:	0.0943 bbls/psi.d

CALCULATED RECOVERY ANALYSIS - DRILL PIPE

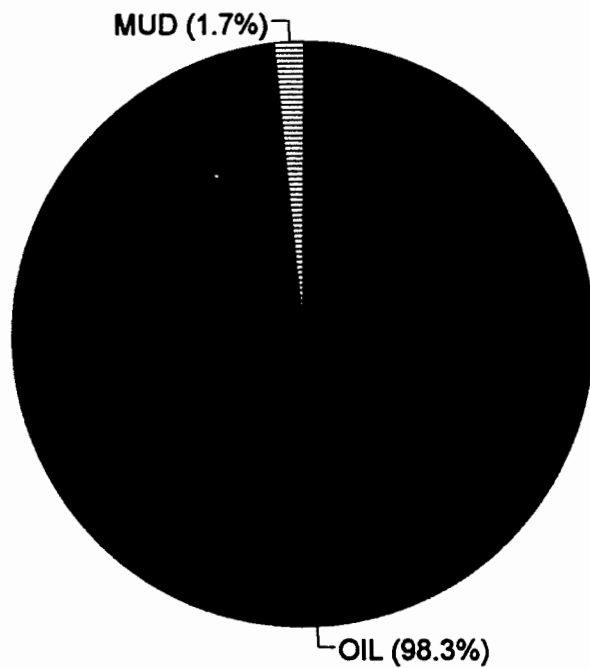
DST # 3

TICKET # 8733

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	150		0	100	150		0		0
2	30		0	90	27		0	10	3
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	180	0.00	0	98.33	177	0	0	1.67	3

HRS OPE BBL/DAY

BBL OIL=	2.51694	*	1.50	40.27
BBL WATER=	0	*		0.00
BBL MUD=	0.04266			
BBL GAS	0			

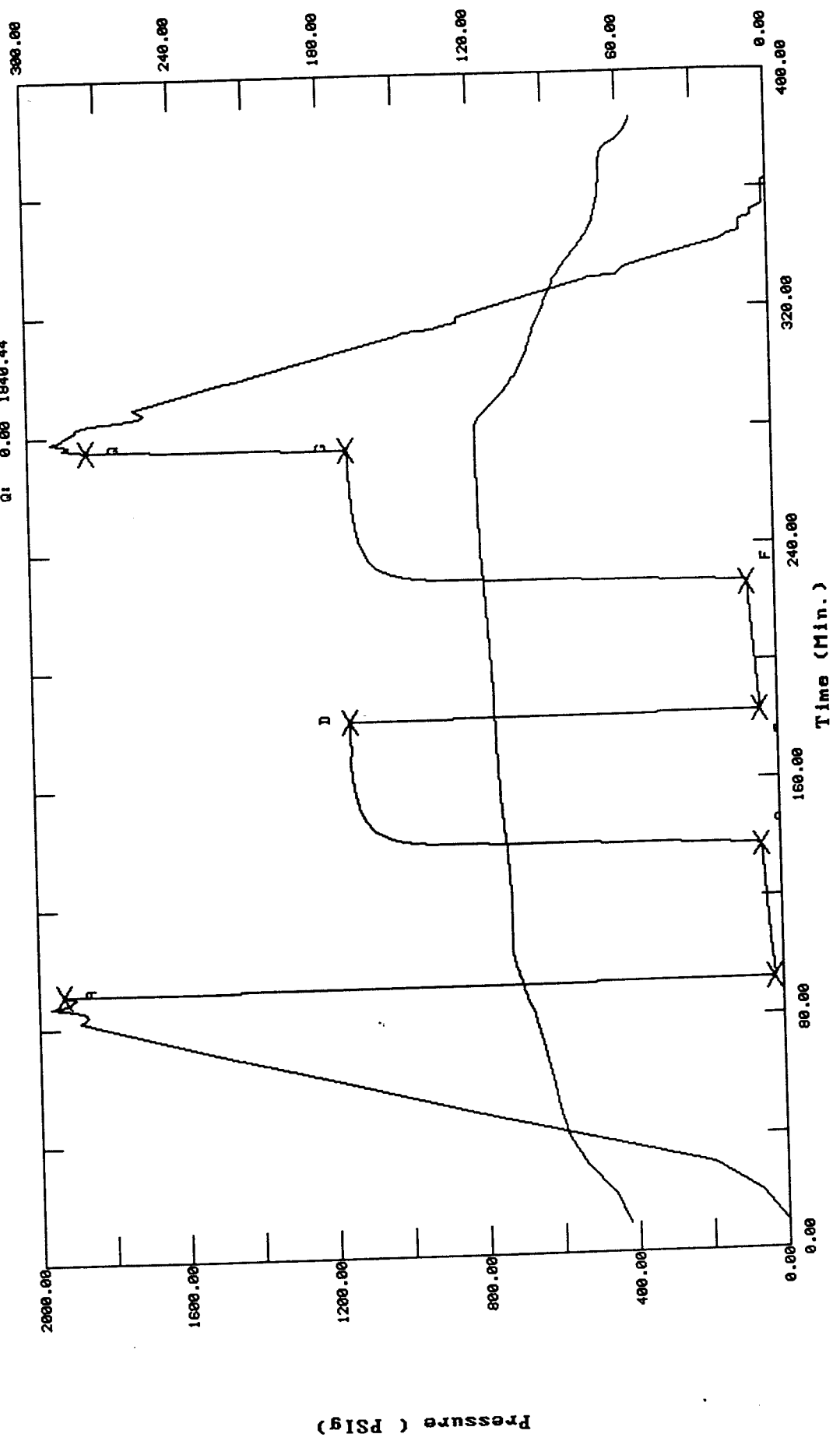


8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.

Flag Points

t (Min.) PK PSig

A:	0.00	1934.28
B:	0.00	21.14
C:	45.00	49.34
D:	45.00	1145.19
E:	0.00	45.65
F:	43.00	73.01
G:	48.00	1138.64
Q:	0.00	1848.44

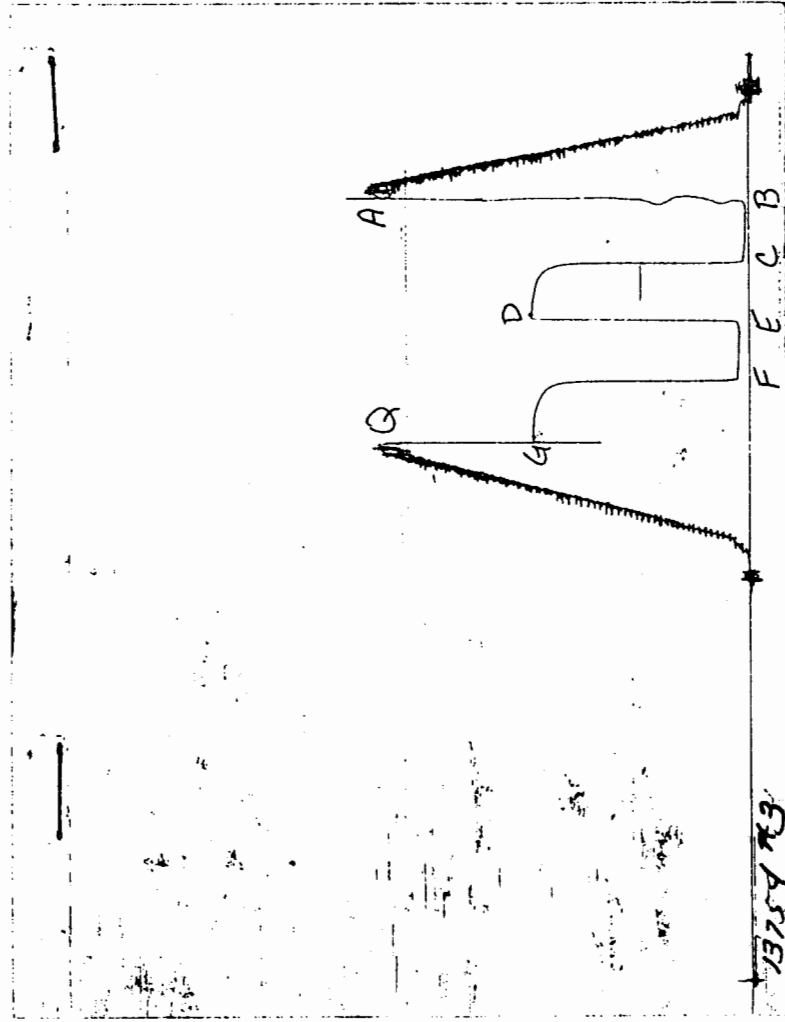


Pressure (PSig)

Time (Min.)

Temperature (DEG F)

CHART PAGE



This is an actual photograph of recorder chart

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
WELL: 8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.
DATE: 12/20/95 TIME: 09:34:40

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
*** Initial Hydro.	91.00	1934.3	0.0	104.43		
*** Start Flow 1	0.00	21.1	0.0	104.64		
	1.00	20.3	-0.8	104.92		
	2.00	20.4	-0.8	105.34		
	3.00	21.2	0.1	105.82		
	4.00	22.2	1.1	106.32		
	5.00	23.2	2.1	106.76		
	6.00	24.4	3.3	107.13		
	7.00	25.3	4.1	107.44		
	8.00	26.1	5.0	107.73		
	9.00	26.7	5.5	108.00		
	10.00	27.4	6.2	108.25		
	11.00	28.1	7.0	108.45		
	12.00	28.9	7.8	108.55		
	13.00	29.6	8.5	108.57		
	14.00	30.4	9.2	108.53		
	15.00	31.0	9.9	108.48		
	16.00	31.8	10.7	108.43		
	17.00	32.4	11.2	108.39		
	18.00	33.1	12.0	108.37		
	19.00	33.6	12.5	108.36		
	20.00	34.4	13.3	108.36		
	21.00	35.2	14.0	108.35		
	22.00	35.7	14.5	108.36		
	23.00	36.2	15.1	108.38		
	24.00	36.8	15.6	108.39		
	25.00	37.0	15.9	108.41		
	26.00	37.3	16.2	108.44		
	27.00	38.4	17.3	108.47		
	28.00	38.8	17.6	108.51		
	29.00	39.0	17.9	108.55		
	30.00	40.4	19.3	108.60		
	31.00	40.8	19.6	108.65		
	32.00	41.5	20.4	108.72		
	33.00	42.3	21.1	108.78		
	34.00	42.8	21.7	108.85		
	35.00	43.4	22.2	108.94		
	36.00	44.1	22.9	109.02		
	37.00	44.4	23.2	109.12		
	38.00	45.0	23.8	109.20		
	39.00	45.7	24.6	109.29		
	40.00	46.3	25.2	109.37		
	41.00	46.9	25.8	109.46		
	42.00	47.7	26.5	109.55		
	43.00	48.2	27.0	109.64		
	44.00	48.8	27.6	109.72		
*** End Flow 1	45.00	49.3	28.2	109.81		
*** Start Shutin 1	0.00	49.3	0.0	109.81	0.0000	0.002
	1.00	67.8	18.5	109.90	46.0000	0.005
	2.00	331.3	282.0	110.00	23.5000	0.110
	3.00	931.3	881.9	110.13	16.0000	0.867

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.

DATE: 12/20/95

TIME: 09:34:40

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
4.00	1005.9	956.5	110.27	12.2500	1.012
5.00	1037.6	988.2	110.41	10.0000	1.077
6.00	1057.4	1008.1	110.56	8.5000	1.118
7.00	1071.3	1022.0	110.70	7.4286	1.148
8.00	1082.0	1032.6	110.84	6.6250	1.171
9.00	1090.6	1041.3	110.97	6.0000	1.189
10.00	1097.4	1048.1	111.08	5.5000	1.204
11.00	1103.1	1053.8	111.20	5.0909	1.217
12.00	1108.1	1058.7	111.31	4.7500	1.228
13.00	1112.4	1063.0	111.42	4.4615	1.237
14.00	1116.1	1066.7	111.52	4.2143	1.246
15.00	1119.3	1070.0	111.62	4.0000	1.253
16.00	1122.3	1072.9	111.72	3.8125	1.259
17.00	1124.8	1075.5	111.81	3.6471	1.265
18.00	1127.1	1077.8	111.89	3.5000	1.270
19.00	1129.2	1079.8	111.99	3.3684	1.275
20.00	1131.1	1081.7	112.07	3.2500	1.279
21.00	1132.8	1083.4	112.15	3.1429	1.283
22.00	1134.3	1084.9	112.24	3.0455	1.287
23.00	1135.7	1086.4	112.31	2.9565	1.290
24.00	1137.1	1087.8	112.39	2.8750	1.293
25.00	1138.3	1089.0	112.46	2.8000	1.296
26.00	1139.3	1090.0	112.53	2.7308	1.298
27.00	1140.4	1091.1	112.60	2.6667	1.301
28.00	1141.4	1092.1	112.68	2.6071	1.303
29.00	1142.2	1092.9	112.75	2.5517	1.305
30.00	1143.0	1093.7	112.81	2.5000	1.306
31.00	1143.8	1094.5	112.88	2.4516	1.308
32.00	1144.7	1095.3	112.94	2.4062	1.310
33.00	1145.4	1096.0	113.00	2.3636	1.312
34.00	1140.1	1090.7	113.07	2.3235	1.300
35.00	1140.7	1091.3	113.13	2.2857	1.301
36.00	1141.2	1091.9	113.18	2.2500	1.302
37.00	1141.8	1092.5	113.24	2.2162	1.304
38.00	1142.4	1093.1	113.31	2.1842	1.305
39.00	1142.6	1093.2	113.56	2.1538	1.306
40.00	1143.3	1093.9	113.43	2.1250	1.307
41.00	1143.8	1094.4	113.34	2.0976	1.308
42.00	1144.1	1094.8	113.50	2.0714	1.309
43.00	1144.4	1095.1	113.56	2.0465	1.310
44.00	1144.9	1095.5	113.61	2.0227	1.311
45.00	1145.2	1095.8	113.66	2.0000	1.311
***** End Shut-in 1					
***** Start Flow 2					
0.00	45.6	0.0	113.66		
1.00	45.6	-0.1	113.66		
2.00	46.2	0.6	113.67		
3.00	46.8	1.2	113.68		
4.00	47.5	1.8	113.71		
5.00	48.0	2.3	113.76		
6.00	48.7	3.0	113.83		
7.00	49.4	3.8	113.89		
8.00	50.0	4.4	113.96		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

WELL: 8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.

DATE: 12/20/95 TIME: 09:34:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	9.00	50.8	5.1	114.04		
	10.00	51.4	5.7	114.10		
	11.00	51.9	6.3	114.18		
	12.00	52.6	7.0	114.25		
	13.00	53.3	7.6	114.34		
	14.00	54.0	8.4	114.41		
	15.00	54.6	9.0	114.49		
	16.00	55.3	9.7	114.57		
	17.00	56.1	10.4	114.66		
	18.00	57.1	11.4	114.72		
	19.00	57.7	12.1	114.80		
	20.00	58.4	12.8	114.89		
	21.00	59.0	13.3	114.96		
	22.00	59.7	14.1	115.04		
	23.00	60.4	14.8	115.12		
	24.00	61.0	15.4	115.20		
	25.00	61.7	16.0	115.28		
	26.00	62.3	16.7	115.36		
	27.00	63.0	17.4	115.45		
	28.00	63.6	18.0	115.53		
	29.00	64.2	18.5	115.62		
	30.00	64.8	19.1	115.70		
	31.00	65.5	19.8	115.78		
	32.00	66.1	20.5	115.87		
	33.00	66.7	21.1	115.96		
	34.00	67.4	21.7	116.05		
	35.00	68.2	22.6	116.13		
	36.00	68.8	23.2	116.22		
	37.00	69.5	23.8	116.30		
	38.00	70.0	24.3	116.38		
	39.00	70.7	25.0	116.47		
	40.00	71.3	25.7	116.55		
	41.00	71.8	26.2	116.63		
	42.00	72.4	26.8	116.71		
*** End Flow 2	43.00	73.0	27.4	116.79		
*** Start Shutin 2	0.00	73.0	0.0	116.79	0.0000	0.005
	1.00	82.9	9.9	116.87	89.0000	0.007
	2.00	386.1	313.1	116.97	45.0000	0.149
	3.00	916.7	843.6	117.08	30.3333	0.840
	4.00	991.4	918.4	117.19	23.0000	0.983
	5.00	1022.9	949.9	117.30	18.6000	1.046
	6.00	1042.5	969.5	117.41	15.6667	1.087
	7.00	1056.3	983.3	117.51	13.5714	1.116
	8.00	1067.0	994.0	117.61	12.0000	1.139
	9.00	1075.4	1002.4	117.69	10.7778	1.157
	10.00	1082.5	1009.5	117.78	9.8000	1.172
	11.00	1088.3	1015.3	117.86	9.0000	1.184
	12.00	1093.2	1020.2	117.92	8.3333	1.195
	13.00	1097.4	1024.4	118.00	7.7692	1.204
	14.00	1101.2	1028.2	118.08	7.2857	1.213
	15.00	1104.6	1031.6	118.13	6.8667	1.220

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.

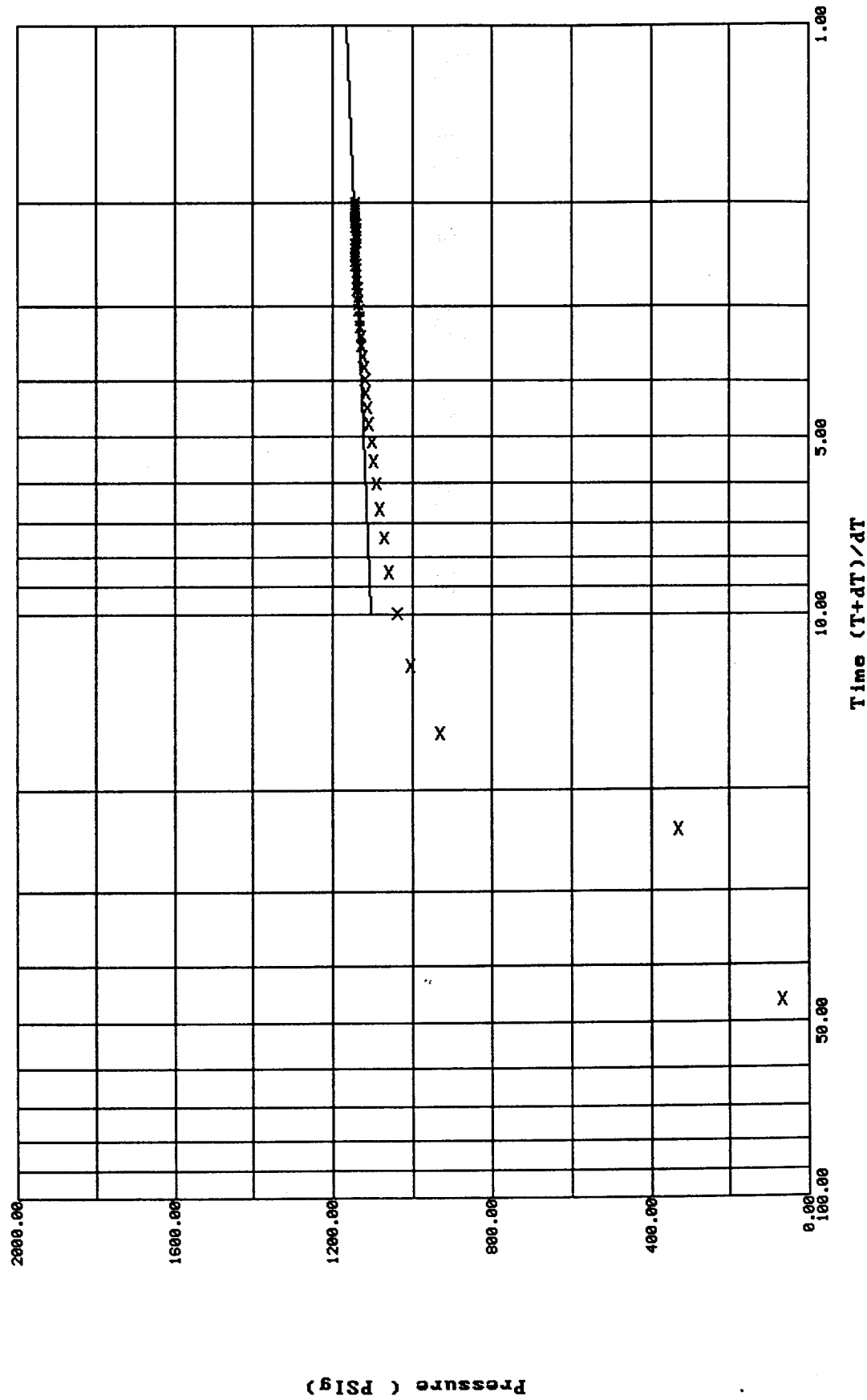
DATE: 12/20/95

TIME: 09:34:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	16.00	1107.5	1034.5	118.20	6.5000	1.227
	17.00	1110.0	1037.0	118.25	6.1765	1.232
	18.00	1112.5	1039.4	118.31	5.8889	1.238
	19.00	1114.5	1041.5	118.36	5.6316	1.242
	20.00	1116.4	1043.4	118.41	5.4000	1.246
	21.00	1118.2	1045.2	118.46	5.1905	1.250
	22.00	1119.8	1046.7	118.52	5.0000	1.254
	23.00	1121.4	1048.3	118.43	4.8261	1.257
	24.00	1122.6	1049.6	118.60	4.6667	1.260
	25.00	1123.8	1050.8	118.64	4.5200	1.263
	26.00	1124.9	1051.9	118.68	4.3846	1.265
	27.00	1126.1	1053.0	118.71	4.2593	1.268
	28.00	1127.1	1054.1	118.76	4.1429	1.270
	29.00	1128.1	1055.1	118.79	4.0345	1.273
	30.00	1128.9	1055.9	118.82	3.9333	1.274
	31.00	1129.7	1056.7	118.85	3.8387	1.276
	32.00	1130.4	1057.4	118.88	3.7500	1.278
	33.00	1131.2	1058.2	118.91	3.6667	1.280
	34.00	1131.9	1058.9	118.94	3.5882	1.281
	35.00	1132.5	1059.5	118.97	3.5143	1.283
	36.00	1133.1	1060.1	118.99	3.4444	1.284
	37.00	1133.8	1060.8	119.01	3.3784	1.285
	38.00	1134.3	1061.3	119.04	3.3158	1.287
	39.00	1134.8	1061.8	119.07	3.2564	1.288
	40.00	1135.3	1062.3	119.09	3.2000	1.289
	41.00	1135.8	1062.8	119.11	3.1463	1.290
	42.00	1136.3	1063.3	119.14	3.0952	1.291
	43.00	1136.7	1063.7	119.15	3.0465	1.292
	44.00	1137.1	1064.1	119.17	3.0000	1.293
	45.00	1137.6	1064.6	119.19	2.9556	1.294
	46.00	1137.9	1064.9	119.21	2.9130	1.295
	47.00	1138.3	1065.3	119.23	2.8723	1.296
***** End Shut-in 2	48.00	1138.6	1065.6	119.25	2.8333	1.297
***** Final Hydro.	275.00	1840.4	0.0	119.31		

Horner Plot: shut-in #1 8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.

Slope: 63.4887 PSig/cycle
Ext. Pressure: 1165.2830 PSig

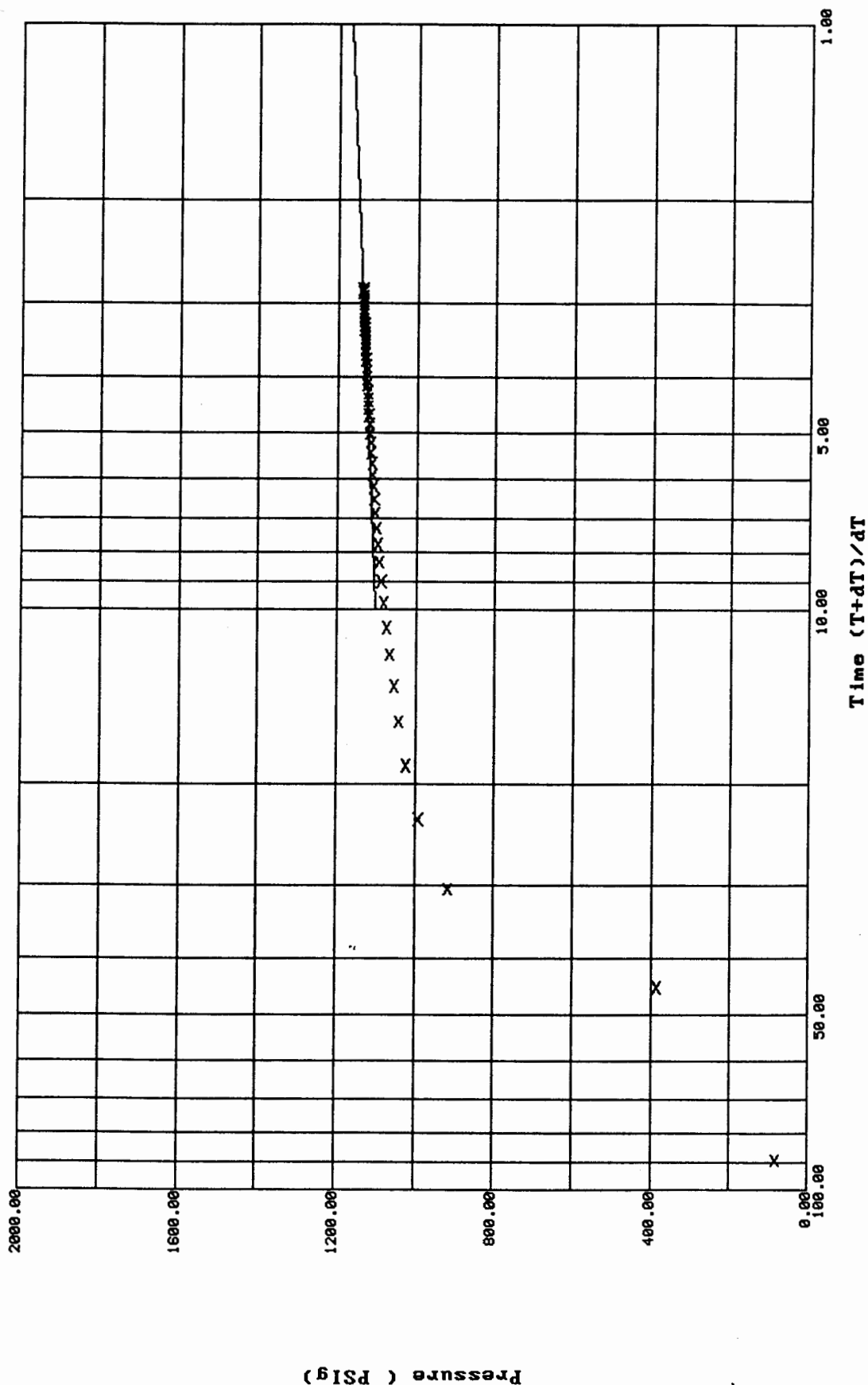


Horner Plot: shut-in #2

8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.

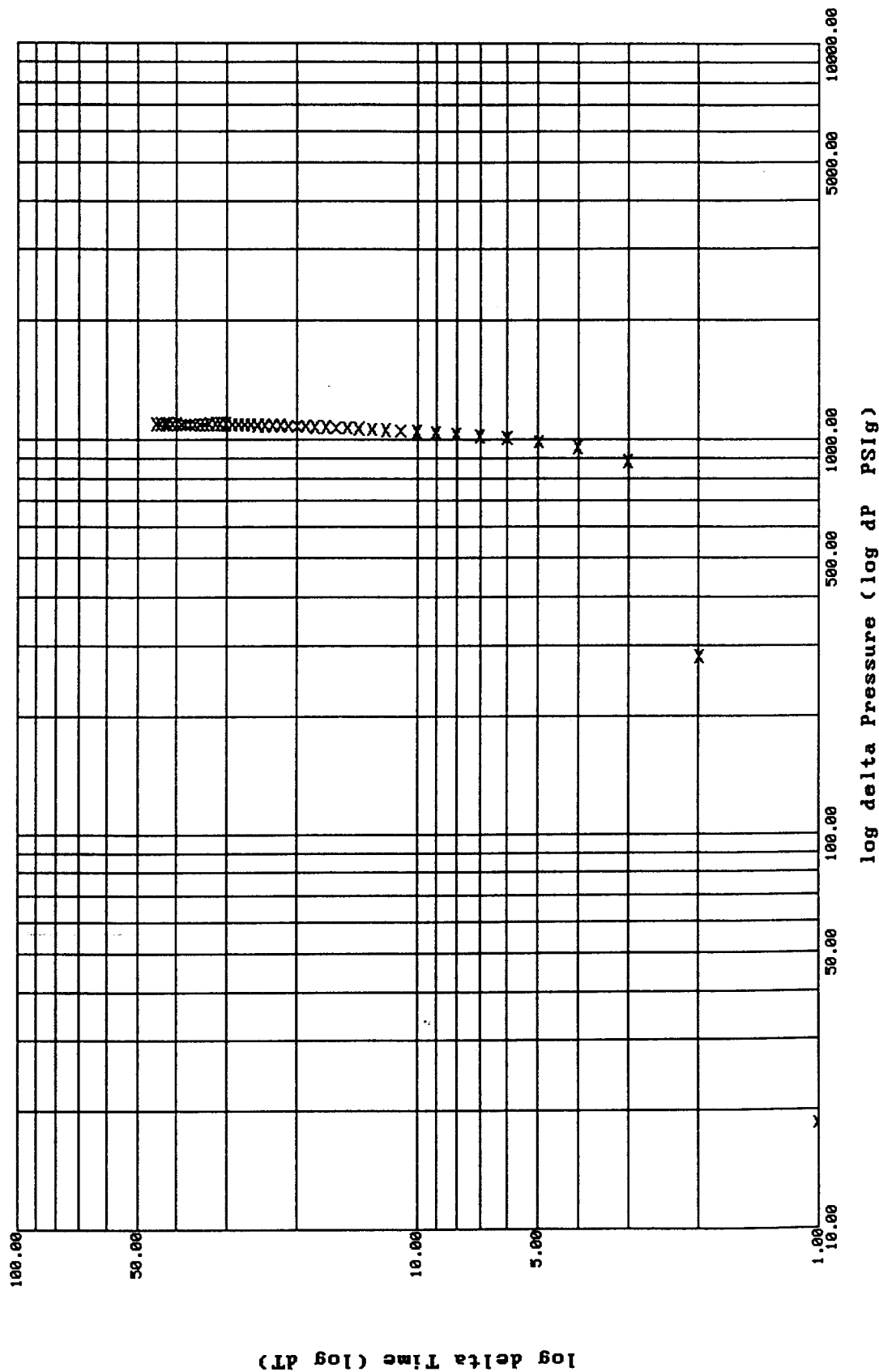
Slope: 64.0758 PSig/cycle

Ext. Pressure: 1167.6827 PSig



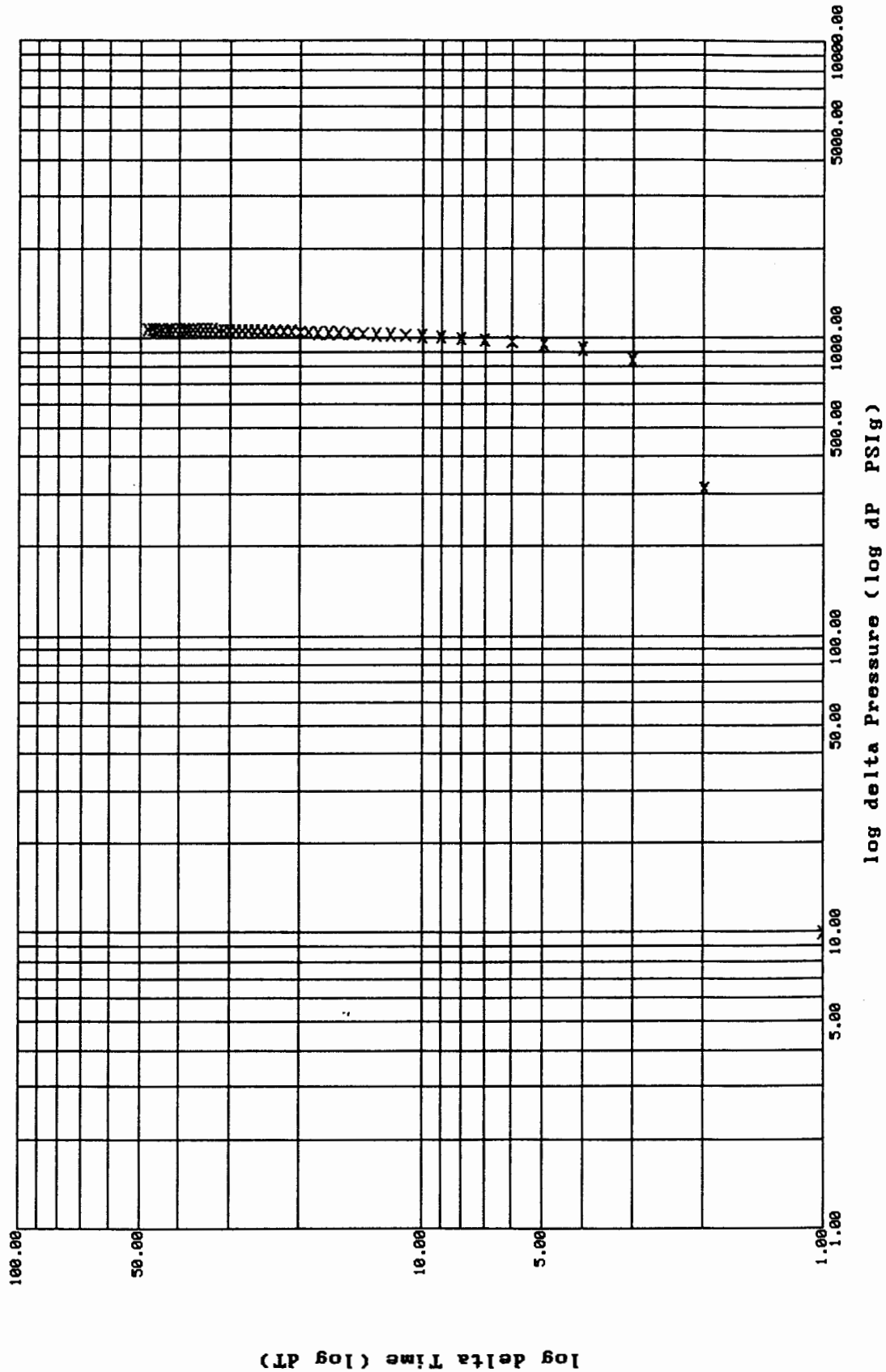
McKinley Plot: shut-in #1

8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.

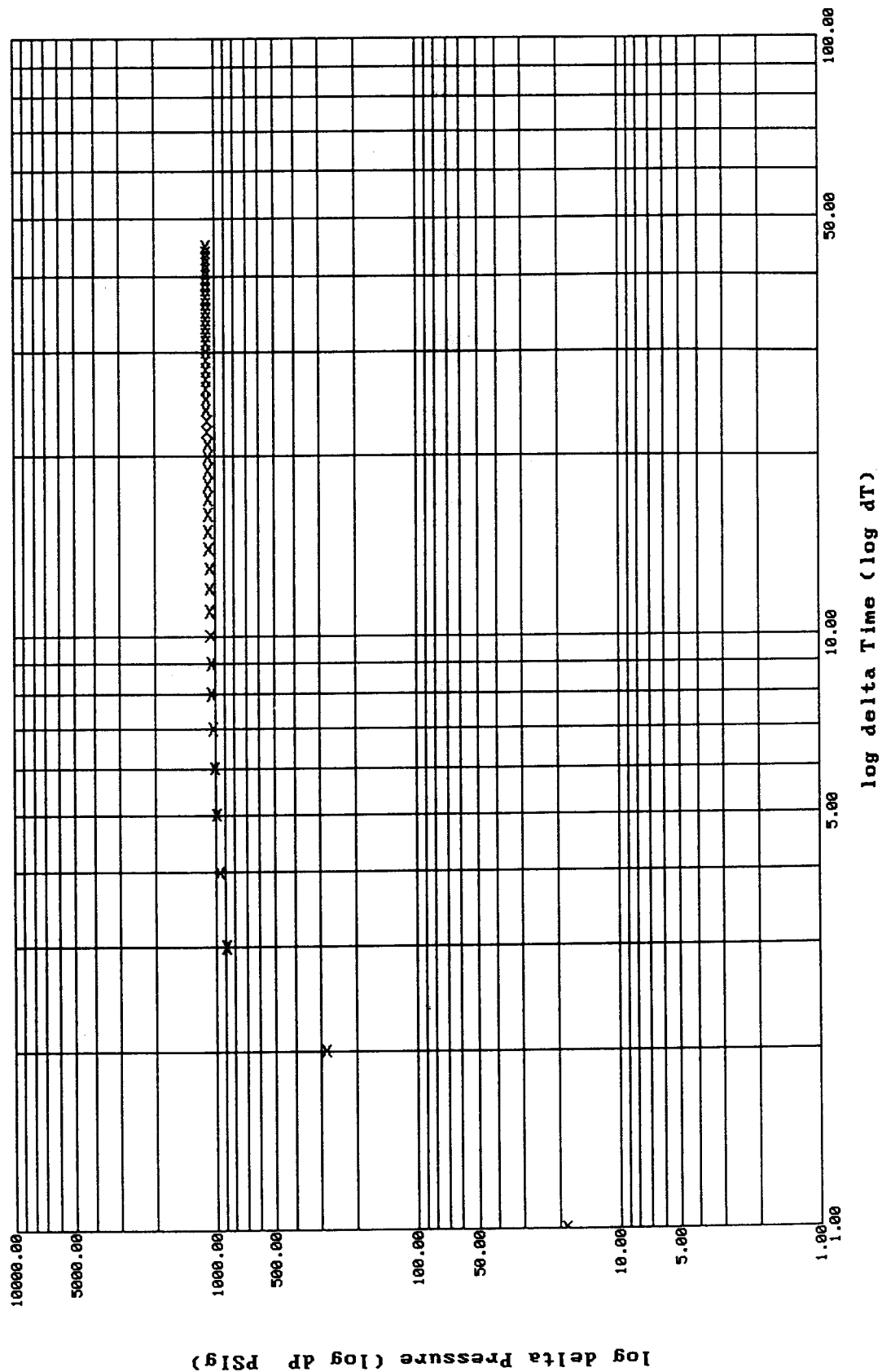


McKinley Plot: shut-in #2

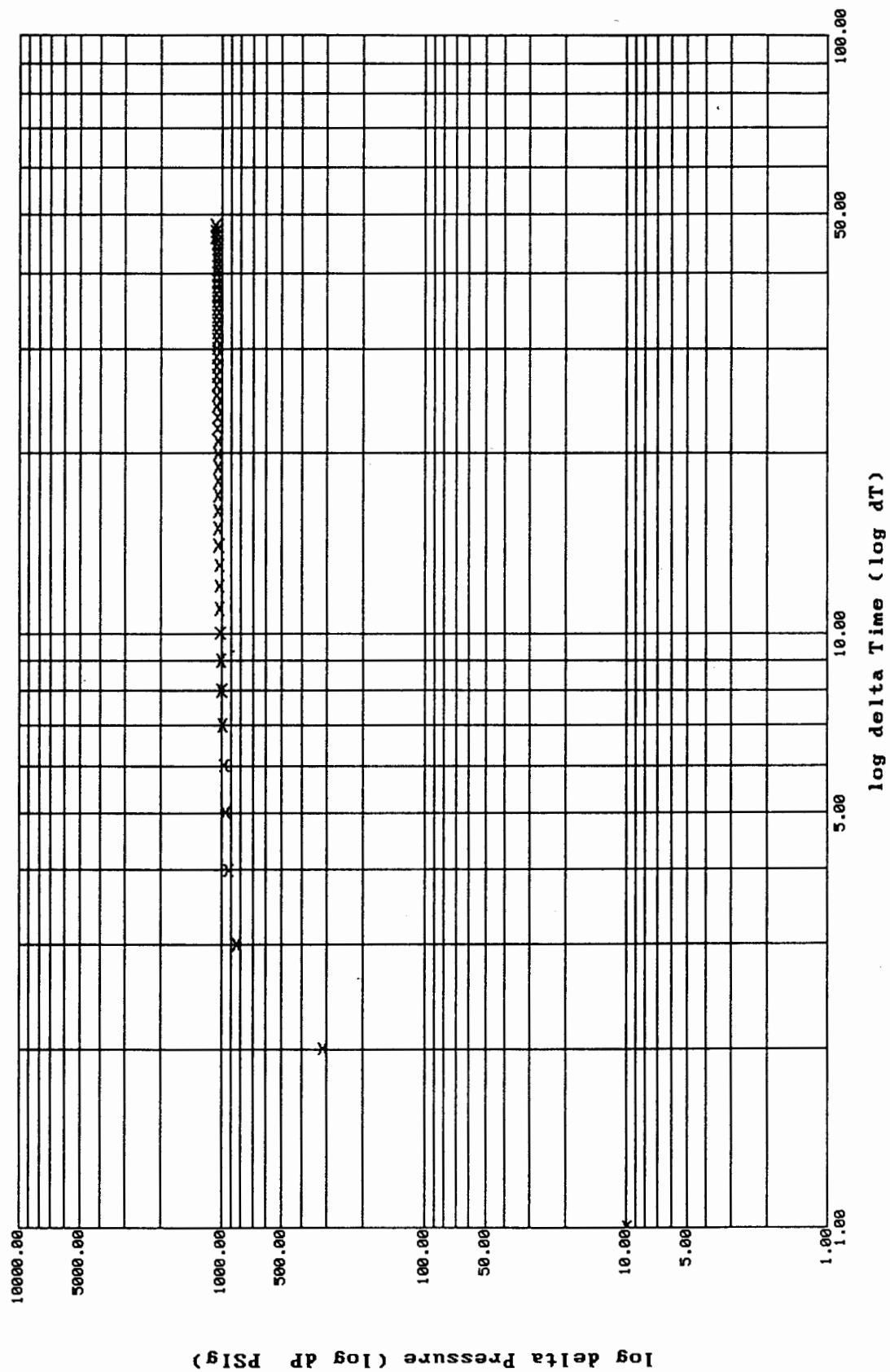
8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.



Ramey Plot: shut-in #1 8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.



Ramey Plot: shut-in #2 8733 DST #3 LOUISE #2-3 NOBLE PETRO, INC.



*** TOOL DIAGRAM *** CONV

L NAME: Lousie #2-3

ATION : 23-11S-21W, Trego Cty KS

KET No. 8733 D.S.T. No. 3 DATE 12-20-95

AL TOOL TO BOTTOM OF TOP PACKERS 20

ERVAL TOOL

TOM PACKERS AND ANCHOR 12

AL TOOL 32

LL COLLAR ANCHOR IN INTERVAL

. ANCHOR STND.Stands Single Total

. ANCHOR STND.Stands Single Total

AL ASSEMBLY 32

. ABOVE TOOLS.Stands Single Total

. ABOVE TOOLS.Stands62 Single 1 Total 3890

AL DRILL COLLARS DRILL PIPE & TOOLS .. 3922

AL DEPTH 3897

AL DRILL PIPE ABOVE K.B. 25

ARKS:

P.O. SUB	3745
C.O. SUB	3865
S.I. TOOL	3871
HMV	3876
JARS NA	
SAFETY JOINT NA	
PACKER	3880
PACKER	3885
DEPTH 3885	
STUBB 1'	3886
ANCHOR	
1' PERF	3887
ALPINE RECORDER	3887
5' PERFS	3892
T.C.	
DEPTH	
AK-1 RECORDER	3894
BULLNOSE 5' BULLPLUG	
T.D.	3897

TRILOBITE TESTING L.L.C.

OPERATOR : Noble Petroleum, Inc

DATE 12-21-95

WELL NAME: Louise #2-3

KB 2312.00 ft

TICKET NO: 8734

DST #4

LOCATION : 23-11S-21W, Trego Cty KS

GR 2304.00 ft

FORMATION: Arbuckle

INTERVAL : 3896.00 To 3903.00 ft

TD 3903.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	2342					PF Fr. 0920 to 1005 hr
SI 45 Range(Psi)	4995.0	0.0	0.0	0.0	0.0	IS Fr. 1005 to 1050 hr
SF 45 Clock(hrs)	ALPIN					SF Fr. 1050 to 1135 hr
FS 45 Depth(ft)	3901.0	0.0	0.0	0.0	0.0	FS Fr. 1135 to 1220 hr

	Field	1	2	3	4	
A. Init Hydro	1967.0	0.0	0.0	0.0	0.0	T STARTED 0750 hr
B. First Flow	21.0	0.0	0.0	0.0	0.0	T ON BOTM 0915 hr
B1. Final Flow	86.0	0.0	0.0	0.0	0.0	T OPEN 0920 hr
C. In Shut-in	1128.0	0.0	0.0	0.0	0.0	T PULLED 1220 hr
D. Init Flow	90.0	0.0	0.0	0.0	0.0	T OUT 1400 hr
E. Final Flow	150.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	1114.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1901.0	0.0	0.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	I					Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 60000.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 58000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 3890.00 ft

RECOVERY

Tot Fluid 353.00 ft of 0.00 ft in DC and 353.00 ft in DP
 139.00 ft of Gas in pipe
 338.00 ft of Clean gassy oil - 10% gas, 90% oil
 15.00 ft of Oil cut mud - 25% oil, 75% mud
 6.00 ft of Pay (est)

SALINITY 0.00 P.P.M. A.P.I. Gravity 34.00

BLOW DESCRIPTION

Initial Flow -
 Weak, building to bottom of bucket in
 18 min

Final Flow -
 Weak, building to bottom of bucket in
 45 min

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	44.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	106.00 F
Hole Condition	GOOD
% Porosity	18.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	DAN BANGLE
Co. Rep.	JAY ABLAH
Contr.	DUKE
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

Operator.....: Noble Petroleum, Inc
Well Name.....: Louise #2-3
DST Number.....: 4

Location.: 23-11S-21W Trego Cty KS Recorder No....: 2342
Test Type: Conventional Recorder Depth: 3901
Formation: Arbuckle Test Interval.: 3896-3903

RESERVOIR CALCULATIONS: Fluid calculations based on shut-in #2

RESERVOIR PARAMETERS USED:

Net Pay.....:	6.00 ft
Porosity.....:	18.00 %
Bottom Hole Temp.....:	106.00 F
Specific Gravity.....:	0.855
API Gravity.....:	34.00
Compressibility.....:	0.000000 /psi
Viscosity.....:	14.4642 cp
Total Recovery.....:	353.00 ft
Total Flowing Time.....:	90.00 min.
Flow Rate.....:	70.06 bbls/d
Final Flowing Pressure.....:	150.00 psi
Horner Slope.....:	119.4498 psi/cycle
Extrapolated Pressure.....:	1172.31 psi
Formation Volume Factor.....:	1.02 Reservoir/Surface
Well Bore Radius.....:	3.94 in

RESULTS:

Effective Permeability.....:	235.445710 md
Flow Capacity.....:	1412.6743 md.ft
Transmissibility.....:	97.6669 md.ft/cp
Skin Factor.....:	3.0715
Radius of Investigation.....:	534.04218 ft
Damage Ratio.....:	1.4531
Productivity Index.....:	0.0685 bbls/psi.d
Productivity Index W/O Damage.:	0.0996 bbls/psi.d

CALCULATED RECOVERY ANALYSIS - DRILL PIPE

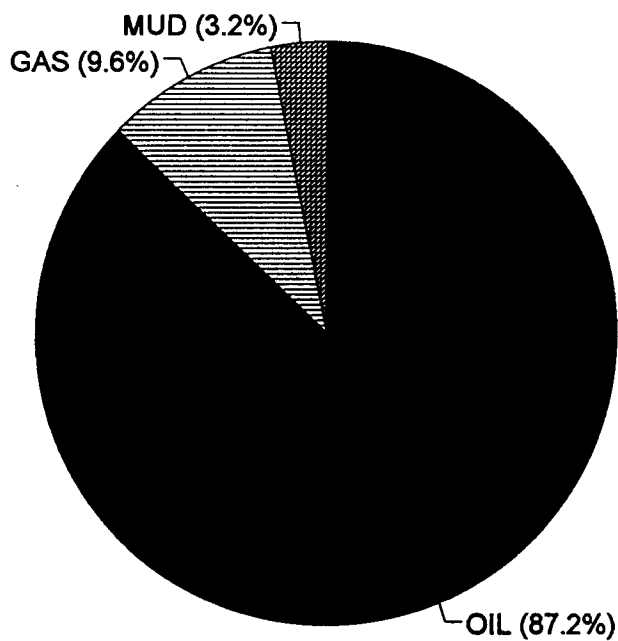
DST # 4

TICKET # 8734

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	338	10	33.8	90	304.2		0		0
2	15		0	25	3.75		0	75	11.25
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
6			0		0		0		0
TOTAL	353	9.58	33.8	87.24	307.95	0	0	3.19	11.25

HRS OPE BBL/DAY

BBL OIL= 4.379049 * 1.50 70.06
 BBL WATER= 0 * 0.00
 BBL MUD= 0.159975
 BBL GAS 0.480636



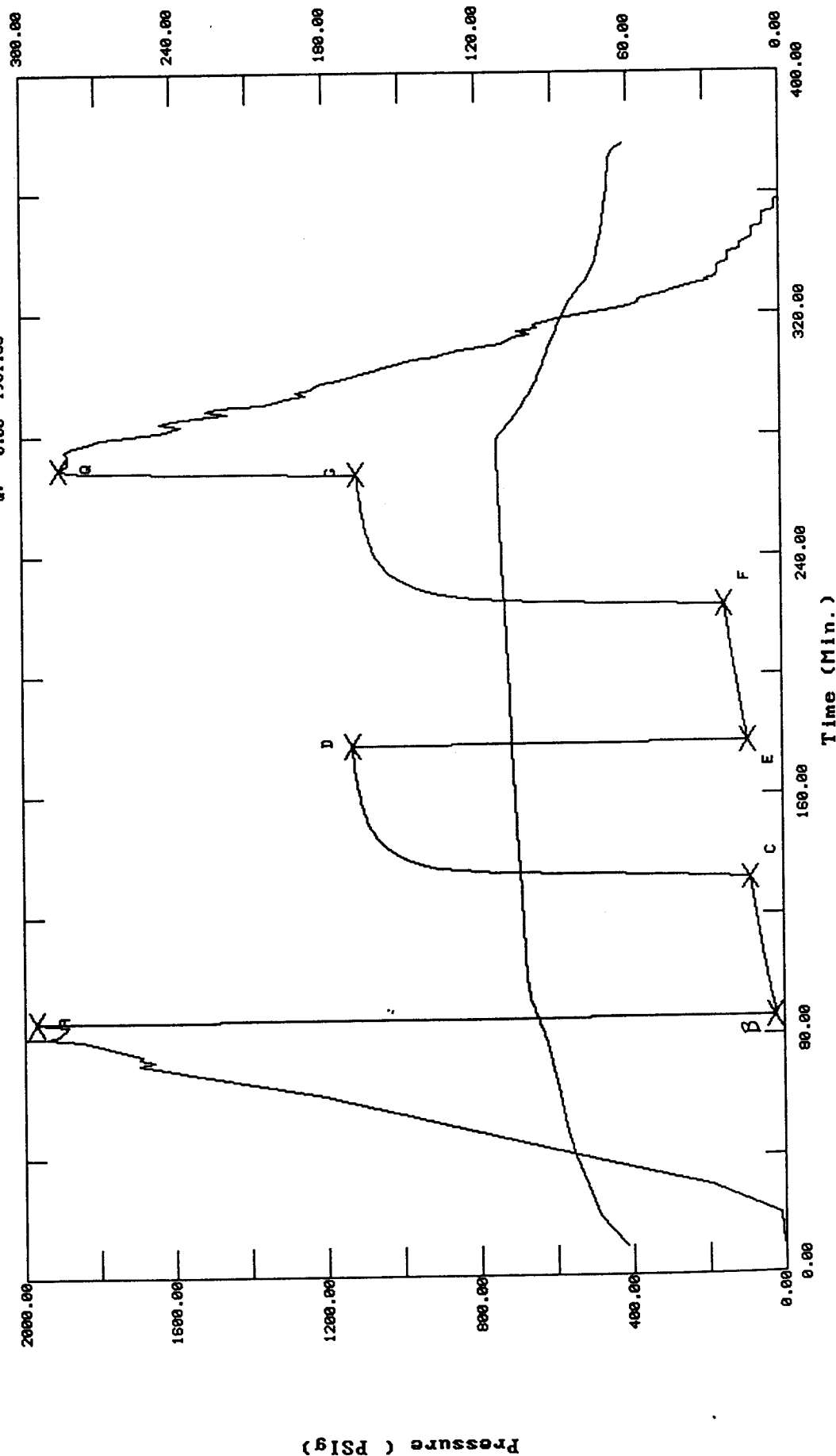
TEST HISTORY

8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.

Flag Points

t (Min.) P (PSig)

A: 0.00 1967.26
 B: 0.00 21.14
 C: 46.00 86.10
 D: 45.00 1127.90
 E: 0.00 90.05
 F: 45.00 150.47
 G: 44.00 1114.05
 Q: 0.00 1901.88



 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.

DATE: 12/20/95

TIME: 20:49:55

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	85.00	1967.3	0.0	96.64		
***** Start Flow 1	0.00	21.1	0.0	96.97		
	1.00	22.1	0.9	97.49		
	2.00	22.7	1.6	98.05		
	3.00	24.3	3.2	98.59		
	4.00	26.3	5.1	99.08		
	5.00	27.9	6.8	99.49		
	6.00	29.7	8.6	99.83		
	7.00	31.5	10.3	100.13		
	8.00	33.1	11.9	100.38		
	9.00	34.7	13.6	100.59		
	10.00	36.4	15.3	100.76		
	11.00	38.0	16.9	100.93		
	12.00	39.6	18.5	101.06		
	13.00	40.9	19.8	101.19		
	14.00	42.5	21.3	101.29		
	15.00	43.9	22.7	101.39		
	16.00	45.2	24.1	101.48		
	17.00	46.7	25.6	101.57		
	18.00	48.4	27.3	101.65		
	19.00	49.8	28.6	101.72		
	20.00	51.1	30.0	101.80		
	21.00	52.5	31.4	101.86		
	22.00	53.9	32.7	101.93		
	23.00	55.3	34.2	102.00		
	24.00	56.6	35.4	102.06		
	25.00	57.9	36.8	102.13		
	26.00	59.7	38.5	102.19		
	27.00	61.1	39.9	102.26		
	28.00	62.4	41.3	102.32		
	29.00	63.8	42.6	102.38		
	30.00	65.1	44.0	102.44		
	31.00	66.5	45.3	102.50		
	32.00	67.8	46.7	102.56		
	33.00	69.1	47.9	102.63		
	34.00	70.6	49.4	102.69		
	35.00	71.9	50.8	102.75		
	36.00	73.2	52.0	102.82		
	37.00	74.4	53.3	102.87		
	38.00	75.8	54.6	102.94		
	39.00	76.9	55.7	103.00		
	40.00	78.2	57.1	103.06		
	41.00	79.4	58.2	103.13		
	42.00	80.6	59.5	103.19		
	43.00	82.2	61.1	103.26		
	44.00	83.6	62.4	103.32		
	45.00	84.8	63.6	103.38		
***** End Flow 1	46.00	86.1	65.0	103.45		
***** Start Shutin 1	0.00	86.1	0.0	103.45	0.0000	0.007
	1.00	303.5	217.4	103.52	47.0000	0.092
	2.00	751.0	664.9	103.61	24.0000	0.564

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: 8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.

DATE: 12/20/95

TIME: 20:49:55

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	3.00	849.2	763.1	103.70	16.3333	0.721
	4.00	902.3	816.2	103.80	12.5000	0.814
	5.00	938.1	852.0	103.89	10.2000	0.880
	6.00	964.7	878.6	103.98	8.6667	0.931
	7.00	985.8	899.7	104.07	7.5714	0.972
	8.00	1002.8	916.7	104.15	6.7500	1.006
	9.00	1016.9	930.8	104.24	6.1111	1.034
	10.00	1028.9	942.8	104.32	5.6000	1.059
	11.00	1039.0	952.9	104.41	5.1818	1.080
	12.00	1047.7	961.6	104.50	4.8333	1.098
	13.00	1055.4	969.3	104.55	4.5385	1.114
	14.00	1062.1	976.0	104.64	4.2857	1.128
	15.00	1068.2	982.1	104.71	4.0667	1.141
	16.00	1073.4	987.3	104.78	3.8750	1.152
	17.00	1078.2	992.1	104.85	3.7059	1.163
	18.00	1082.6	996.5	104.92	3.5556	1.172
	19.00	1086.4	1000.3	105.00	3.4211	1.180
	20.00	1090.0	1003.9	105.06	3.3000	1.188
	21.00	1093.2	1007.0	105.13	3.1905	1.195
	22.00	1096.2	1010.1	105.20	3.0909	1.202
	23.00	1098.9	1012.8	105.27	3.0000	1.208
	24.00	1101.4	1015.3	105.33	2.9167	1.213
	25.00	1103.6	1017.5	105.40	2.8400	1.218
	26.00	1105.9	1019.8	105.46	2.7692	1.223
	27.00	1107.8	1021.7	105.54	2.7037	1.227
	28.00	1109.7	1023.6	105.60	2.6429	1.231
	29.00	1111.4	1025.3	105.63	2.5862	1.235
	30.00	1113.0	1026.9	105.73	2.5333	1.239
	31.00	1114.6	1028.5	105.80	2.4839	1.242
	32.00	1115.9	1029.8	105.86	2.4375	1.245
	33.00	1117.3	1031.2	105.92	2.3939	1.248
	34.00	1118.7	1032.6	105.98	2.3529	1.252
	35.00	1119.9	1033.8	106.05	2.3143	1.254
	36.00	1121.0	1034.9	106.11	2.2778	1.257
	37.00	1122.1	1036.0	106.17	2.2432	1.259
	38.00	1123.0	1036.9	106.23	2.2105	1.261
	39.00	1124.1	1038.0	106.30	2.1795	1.264
	40.00	1125.0	1038.9	106.36	2.1500	1.266
	41.00	1125.9	1039.8	106.42	2.1220	1.268
	42.00	1126.6	1040.5	106.48	2.0952	1.269
	43.00	1127.4	1041.3	106.55	2.0698	1.271
	44.00	1128.1	1042.0	106.61	2.0455	1.273
**** End Shut-in 1	45.00	1127.9	1041.8	106.67	2.0222	1.272
**** Start Flow 2	0.00	90.0	0.0	106.67		
	1.00	91.6	1.5	106.70		
	2.00	93.2	3.1	106.73		
	3.00	95.0	5.0	106.76		
	4.00	96.5	6.5	106.79		
	5.00	97.8	7.7	106.83		
	6.00	99.3	9.2	106.86		
	7.00	100.6	10.6	106.91		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.

DATE: 12/20/95

TIME: 20:49:55

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	8.00	102.0	12.0	106.96		
	9.00	103.3	13.3	107.01		
	10.00	104.7	14.7	107.06		
	11.00	106.2	16.1	107.11		
	12.00	107.7	17.6	107.17		
	13.00	109.0	19.0	107.22		
	14.00	110.4	20.3	107.28		
	15.00	111.7	21.7	107.34		
	16.00	113.1	23.1	107.40		
	17.00	114.4	24.3	107.46		
	18.00	115.7	25.7	107.51		
	19.00	117.1	27.0	107.58		
	20.00	118.4	28.4	107.63		
	21.00	119.8	29.8	107.70		
	22.00	121.2	31.1	107.76		
	23.00	122.4	32.3	107.82		
	24.00	123.6	33.6	107.89		
	25.00	125.0	34.9	107.95		
	26.00	126.1	36.1	108.01		
	27.00	127.4	37.3	108.07		
	28.00	128.7	38.6	108.14		
	29.00	130.0	39.9	108.20		
	30.00	131.4	41.4	108.26		
	31.00	132.7	42.6	108.32		
	32.00	134.0	44.0	108.38		
	33.00	135.2	45.2	108.44		
	34.00	136.6	46.6	108.51		
	35.00	137.9	47.8	108.56		
	36.00	139.1	49.1	108.63		
	37.00	140.3	50.3	108.68		
	38.00	141.7	51.6	108.75		
	39.00	143.0	53.0	108.81		
	40.00	144.3	54.3	108.87		
	41.00	145.5	55.5	108.93		
	42.00	146.8	56.7	108.99		
	43.00	148.0	58.0	109.05		
	44.00	149.2	59.2	109.11		
***** End Flow 2	45.00	150.5	60.4	109.17		
***** Start Shutin 2	0.00	150.5	0.0	109.17	0.0000	0.023
	1.00	639.4	488.9	109.26	92.0000	0.409
	2.00	804.4	654.0	109.33	46.5000	0.647
	3.00	872.1	721.6	109.42	31.3333	0.761
	4.00	913.9	763.4	109.50	23.7500	0.835
	5.00	943.5	793.0	109.59	19.2000	0.890
	6.00	966.2	815.7	109.67	16.1667	0.933
	7.00	984.2	833.7	109.73	14.0000	0.969
	8.00	998.9	848.4	109.83	12.3750	0.998
	9.00	1011.2	860.8	109.90	11.1111	1.023
	10.00	1021.7	871.3	109.96	10.1000	1.044
	11.00	1030.9	880.4	110.03	9.2727	1.063
	12.00	1038.7	888.2	110.09	8.5833	1.079

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: 8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.

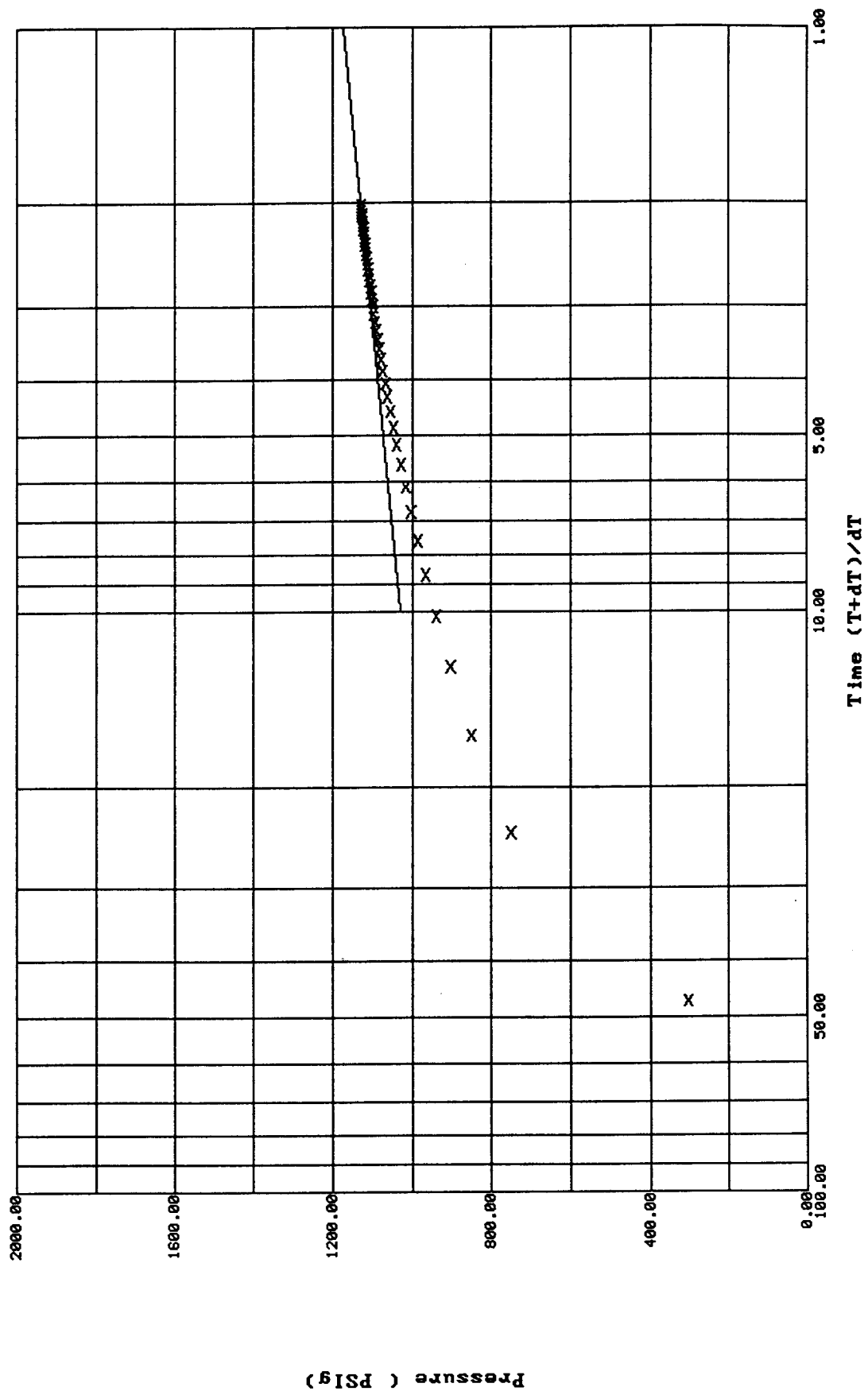
ATE: 12/20/95 TIME: 20:49:55

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	13.00	1045.6	895.1	110.15	8.0000	1.093
	14.00	1051.7	901.2	110.21	7.5000	1.106
	15.00	1057.0	906.5	110.27	7.0667	1.117
	16.00	1061.9	911.5	110.33	6.6875	1.128
	17.00	1066.3	915.8	110.39	6.3529	1.137
	18.00	1070.2	919.8	110.44	6.0556	1.145
	19.00	1073.9	923.5	110.50	5.7895	1.153
	20.00	1077.3	926.8	110.55	5.5500	1.161
	21.00	1080.3	929.8	110.60	5.3333	1.167
	22.00	1083.1	932.6	110.66	5.1364	1.173
	23.00	1085.6	935.1	110.71	4.9565	1.179
	24.00	1088.1	937.6	110.76	4.7917	1.184
	25.00	1090.2	939.7	110.80	4.6400	1.189
	26.00	1092.3	941.8	110.86	4.5000	1.193
	27.00	1094.1	943.6	110.91	4.3704	1.197
	28.00	1096.0	945.5	110.95	4.2500	1.201
	29.00	1097.6	947.1	111.01	4.1379	1.205
	30.00	1099.2	948.7	111.05	4.0333	1.208
	31.00	1100.6	950.1	111.10	3.9355	1.211
	32.00	1102.0	951.5	111.15	3.8438	1.214
	33.00	1103.4	952.9	111.19	3.7576	1.217
	34.00	1104.6	954.1	111.24	3.6765	1.220
	35.00	1105.7	955.3	111.29	3.6000	1.223
	36.00	1106.9	956.4	111.34	3.5278	1.225
	37.00	1107.9	957.4	111.38	3.4595	1.227
	38.00	1108.9	958.5	111.43	3.3947	1.230
	39.00	1109.9	959.5	111.47	3.3333	1.232
	40.00	1110.9	960.4	111.51	3.2750	1.234
	41.00	1111.7	961.2	111.56	3.2195	1.236
	42.00	1112.5	962.1	111.60	3.1667	1.238
	43.00	1113.3	962.8	111.66	3.1163	1.239
**** End Shut-in 2	44.00	1114.0	963.6	111.69	3.0682	1.241
**** Final Hydro.	269.00	1901.9	0.0	111.82		

Horner Plot: shut-in #1

8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.

Slope: 142.9794 PSlg/cycle
Ext. Pressure: 1172.3624 PSlg

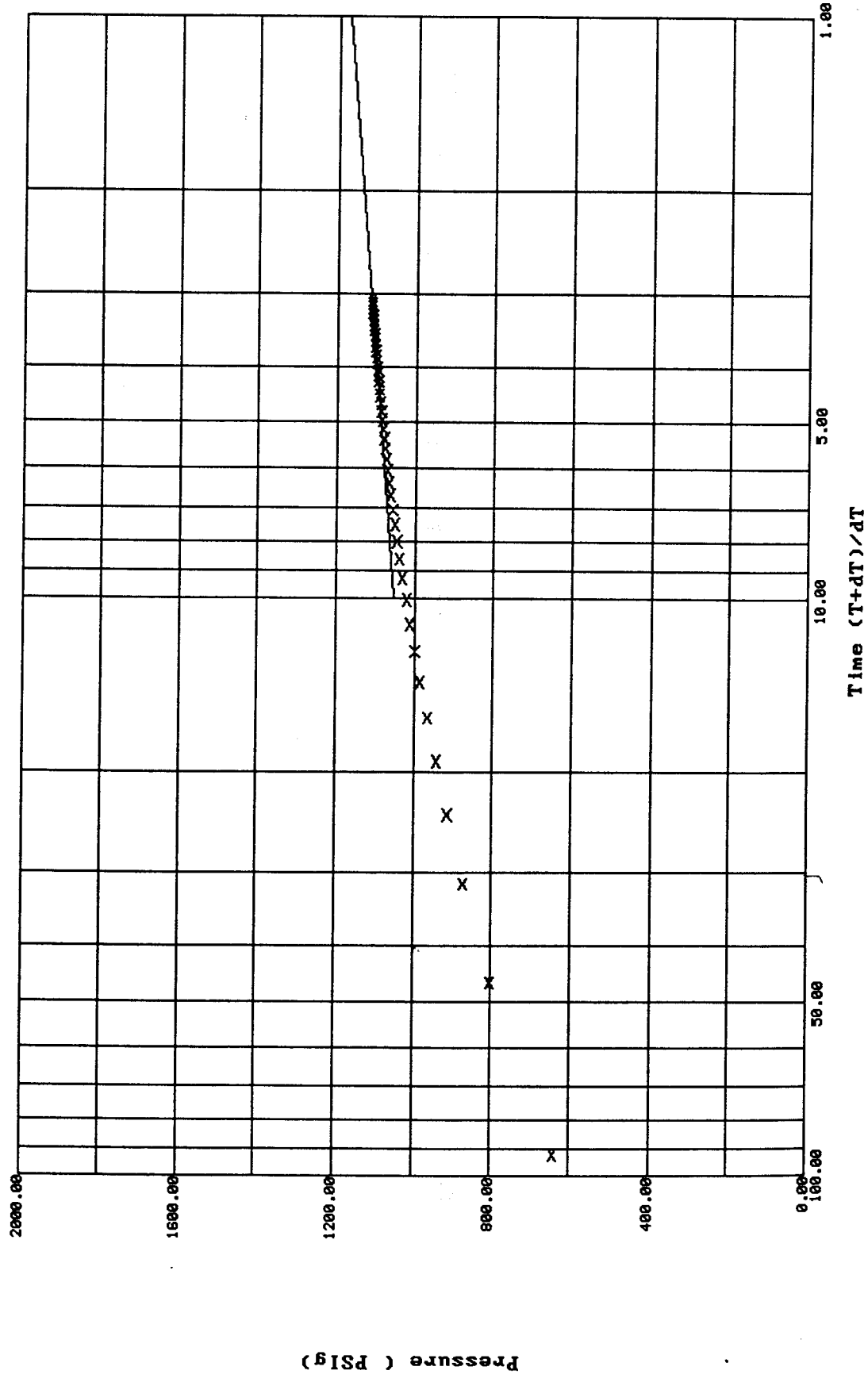


Horner Plot: shut-in #2

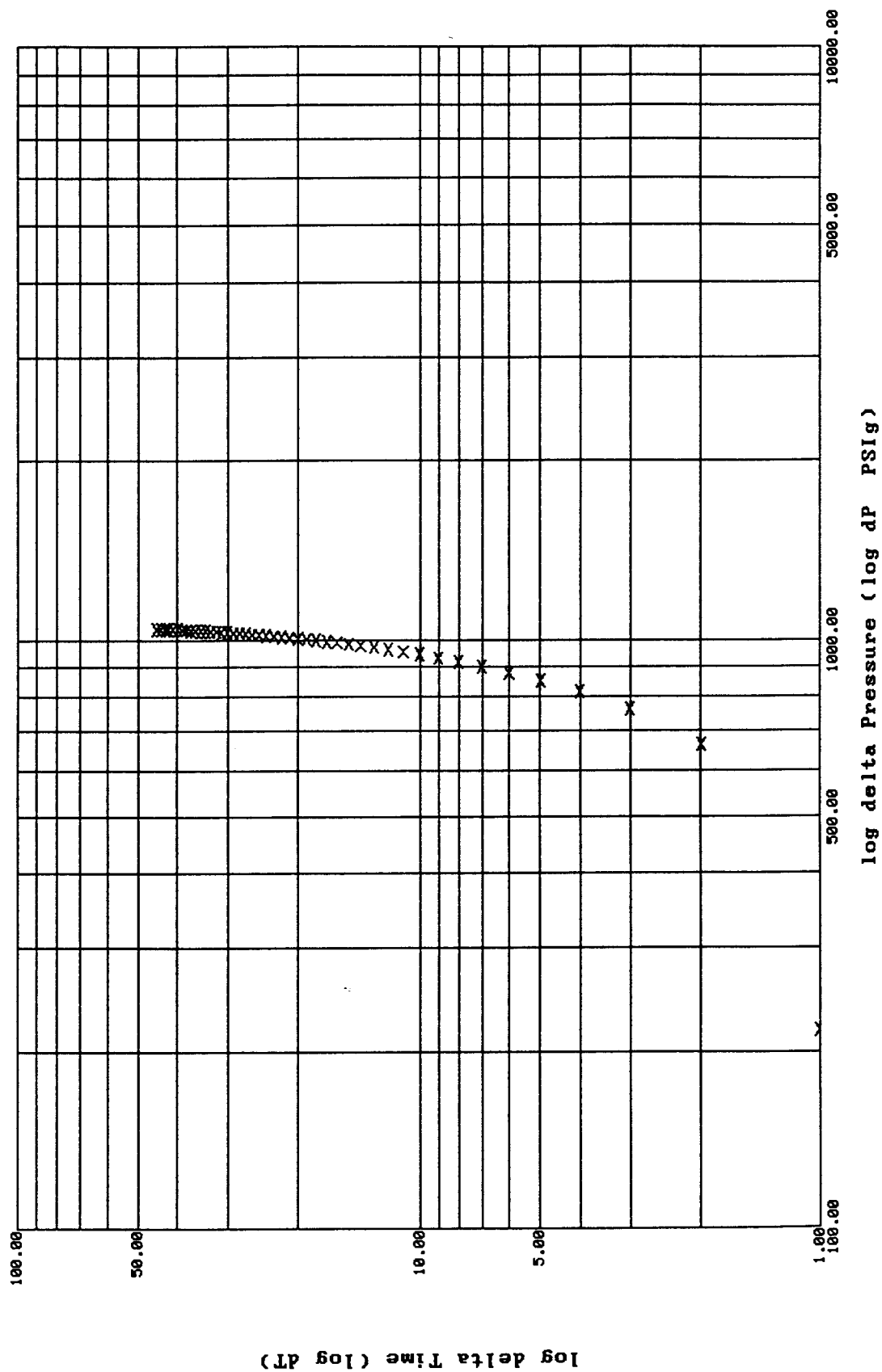
8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.

Slope: 119.4498 PSig/cycle

Ext. Pressure: 1172.3899 PSig

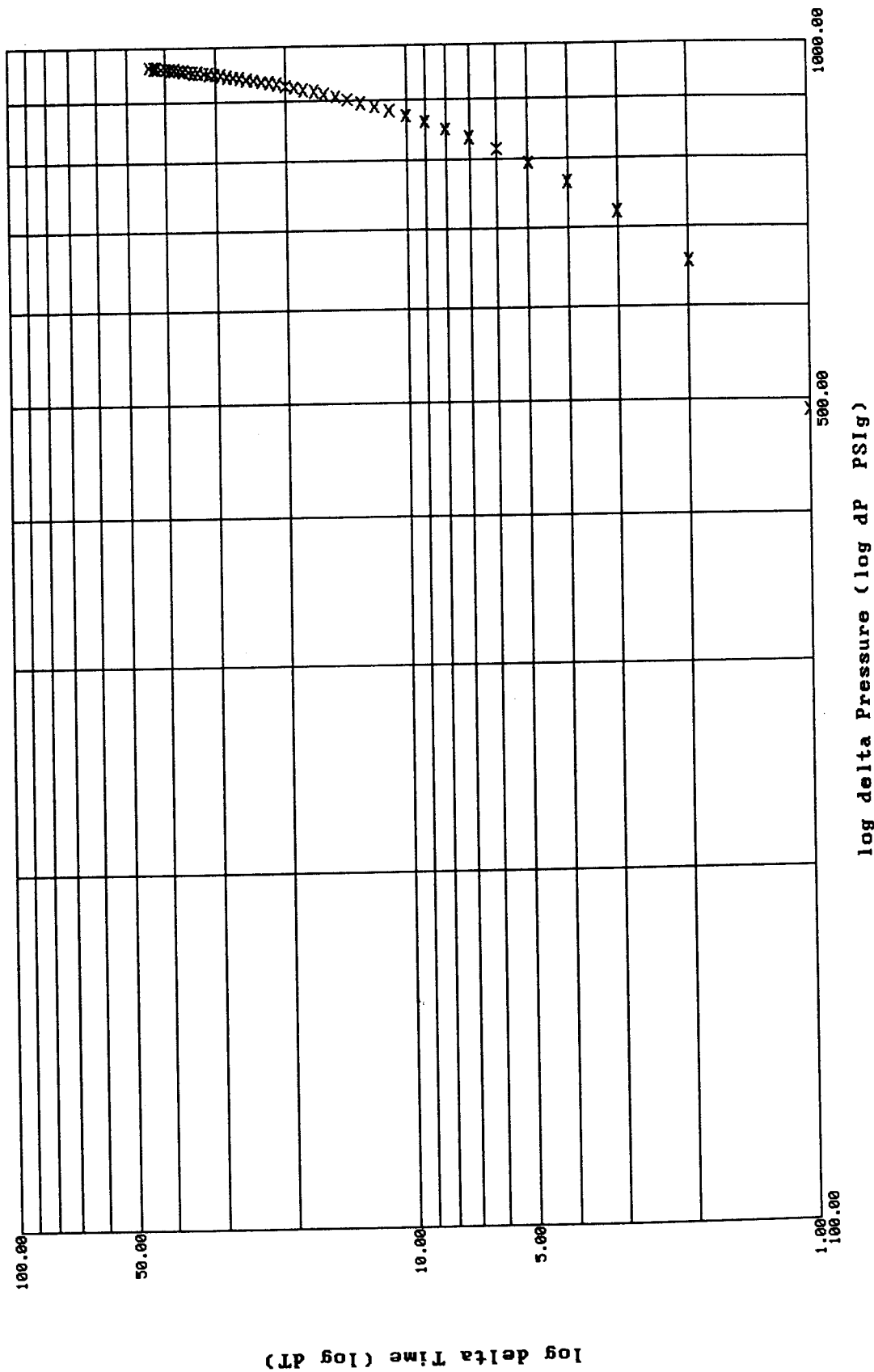


8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.

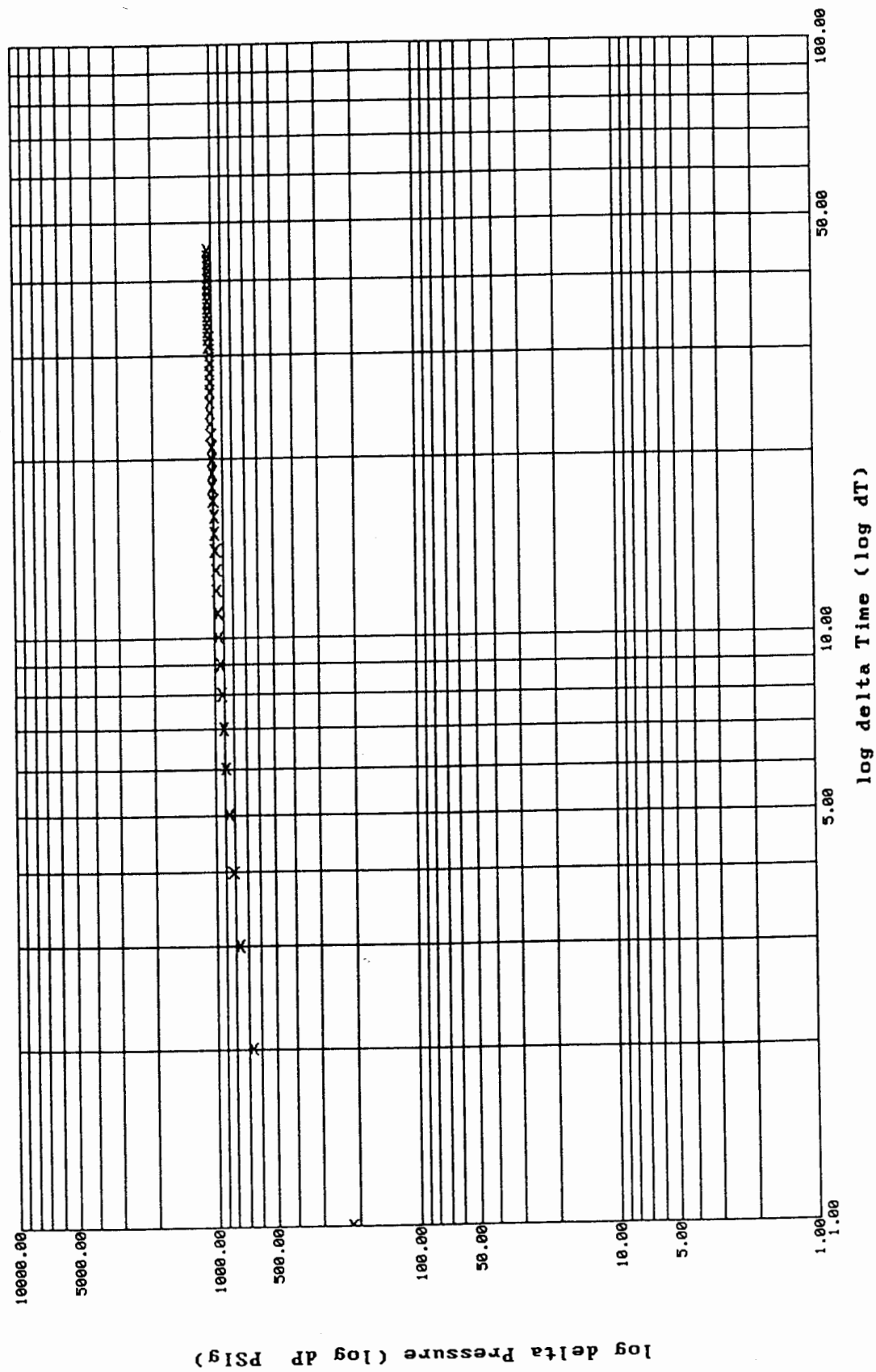


McKinley Plot: shut-in #2

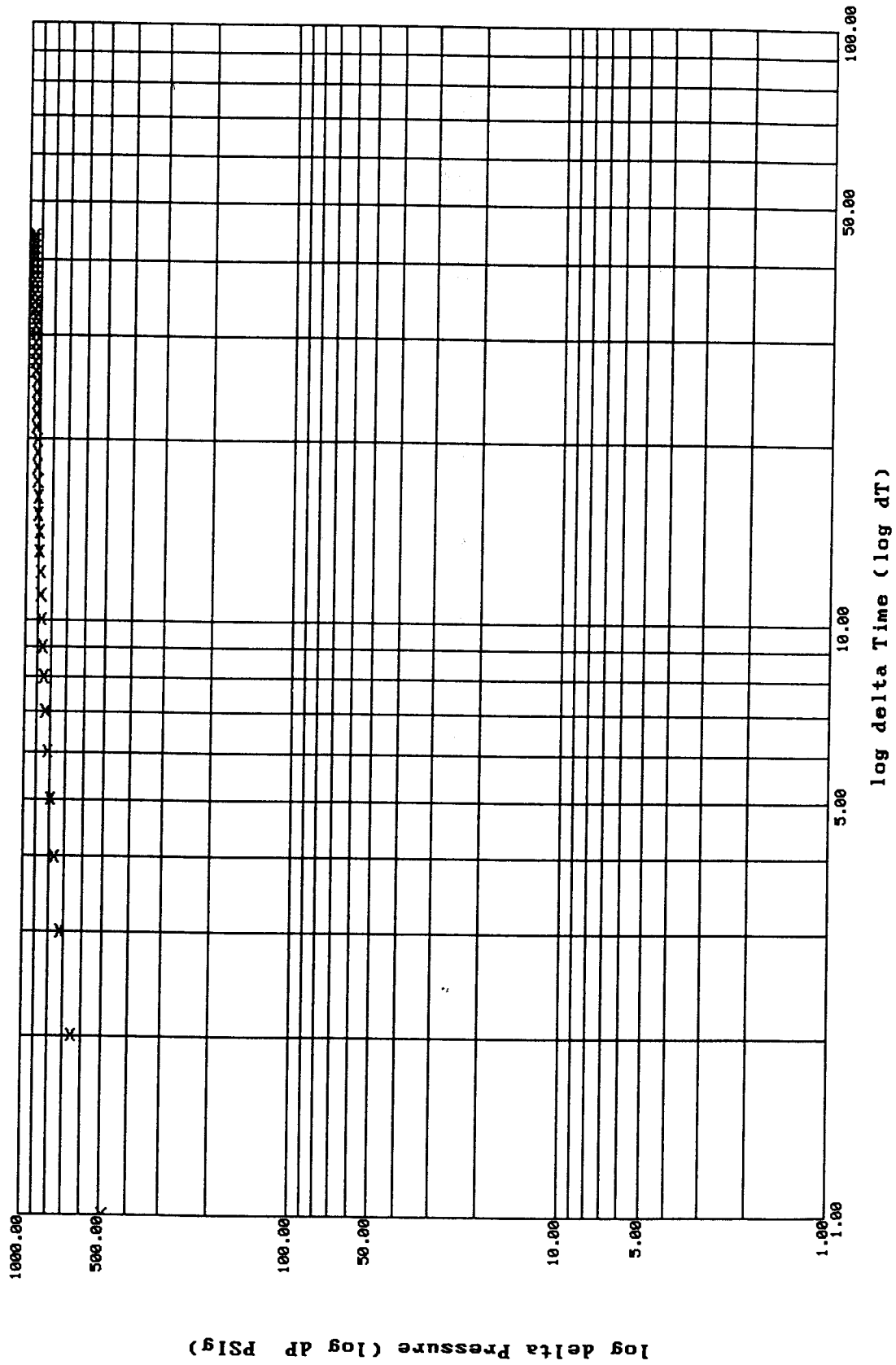
8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.



Ramey Plot: shut-in #1
8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.



Ramey Plot: shut-in #2
8734 DST #4 LOUISE #2-3 NOBLE PETRO, INC.



*** TOOL DIAGRAM *** CONV

WELL NAME: Louise #2-3

LOCATION : 23-11S-21W, Trego Cty KS

TICKET No. 8734 D.S.T. No. 4 DATE 12-21-95

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 7

TOTAL TOOL 27

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
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94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

D.P. ANCHOR STND.Stands	Single	Total
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TOTAL ASSEMBLY 27

D.C. ABOVE TOOLS.Stands	Single	Total
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
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92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

D.P. ABOVE TOOLS.Stands63 Single Total 3890

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3917

TOTAL DEPTH 3903

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

P.O. SUB	3756
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C.O. SUB	3876
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S.I. TOOL	3882
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HMV	3887
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JARS NA

SAFETY JOINT NA

PACKER 3891

PACKER 3896

DEPTH 3896

STUBB 1'	3897
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ANCHOR

1' PERFS	3898
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T.C.
DEPTH

ALPINE RECORDER 3901

BULLNOSE 5' BULLPLUG
T.D. 3903