

Phone
(806) 637-3678

Harvill's Drill Stem Testing

P.O. Box 725
Brownfield, Texas 79316

Contractor ZIA Drilling
Rig No. 7
Spot 760' FSL & 1750' FEL
Sec. 5
Twp. 17 S
Rng. 36 E
Field Wildcat
County Lea
State New Mexico
Elevation 3907' KB

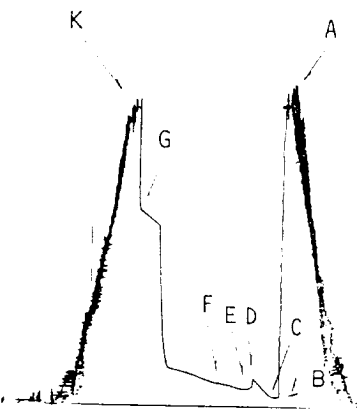
Surface Choke 1/8"
Bottom Choke 5/8"
Hole Size 7 7/8"
Rat Hole Size --
DP Size & Weight 4 1/2" 16.60
Wt. Pipe None
I.D. of DC 2 1/4"
Length of DC 790'
Total Depth 7196'
Type of Test Conventional

Mud Type Fresh Water
Weight 8.5
Viscosity 28
Water Loss --
Filter Cake Film
Resistivity -- @ 20,000 Ppm. Cl
Bottom Hole Temp. 117° F

Opened Tool @ 15:55 hrs.
Flow No. 1 (15) 13* min.
Shut-in No. 1 (30) 30* min.
Flow No. 2 (60) 60* min.
Shut-in No. 2 (120) 120* min.
Flow No. 3 None Taken min.
Shut-in No. 3 " " min.
*Computed

Recorder Type Kuster AK-1
No. 13750 Cap. 7900 psi
Depth 7190 feet
Inside [] Outside [X]

Initial Hydrostatic	A	3182.8
Final Hydrostatic	K	3146.3
Initial Flow	B	113.2
Final Initial Flow	C	107.7
Initial Shut-in	D	297.2
Second Initial Flow	E	210.3
Second Final Flow	F	250.6
Second Shut-in	G	2084.5
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	



Pipe Recovery:

430' Drilling fluid = 2.11 bbl.
(trace of oil in tool)

Co. Rep. Gene Lee
Tester Eugene Harvill

Recovery:

Top: 20,000 ppm Cl.
Middle: 20,000 ppm Cl.
Bottom: 20,000 ppm Cl.

1st Flow: Tool opened with a weak blow and remained thru flow period.
2nd Flow: Tool opened with a weak, 1 3/4" blow and remained thru flow period.

Address

SEE DISTRIBUTION

Formation 577-36 BLINDBRY
Test Interval 7108' - 7196'

Ticket No. 329
Date 5/14/90

Harvill's Drill Stem Testing

Mallow Oil Co.

Operator

Mobil "5" State #1

Well Name and No.

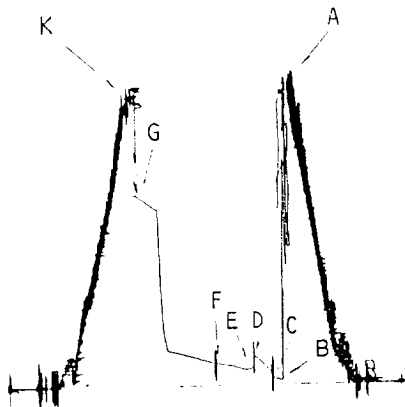
2

DST No.

Inside Recorder

PRD Make Kuster AK-1
No. 13751 Cap. 8000 @ 7100'

Press		Corrected
Initial Hydrostatic	A	3150.6
Final Hydrostatic	K	3113.9
Initial Flow	B	28.3
Final Initial Flow	C	55.3
Initial Shut-in	D	295.1
Second Initial Flow	E	165.2
Second Final Flow	F	217.4
Second Shut-in	G	2050.8
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	



PRD Make _____
No. _____ Cap. _____ @ _____

Press		Corrected
Initial Hydrostatic	A	
Final Hydrostatic	K	
Initial Flow	B	
Final Initial Flow	C	
Initial Shut-in	D	
Second Initial Flow	E	
Second Final Flow	F	
Second Shut-in	G	
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

Harvill's Drill Stem Testing

Sampler Report

Company _____ Mallon Oil Co. _____ Date _____ 5/14/90 _____
Well Name & No. _____ Mobil "5" State #1 _____ Ticket No. _____ 329 _____
County _____ Lea _____ State _____ New Mexico _____
Test Interval _____ 7108' - 7196' _____ DST No. _____ 2 _____

Total Volume of Sampler: _____ 2250 _____ cc.

Total Volume of Sample: _____ 2250 _____ cc.

Pressure in Sampler: _____ 160 _____ psig

Oil: _____ None _____ cc.

Water: _____ None _____ cc.

Mud: _____ 2250 _____ cc.

Gas: _____ None _____ cu. ft.

Other: _____ None _____

Sample: 20,000 ppm Cl.

Resistivity

Make Up Water _____ @ _____ of Chloride Content _____ ppm.

Mud Pit Sample _____ @ _____ of Chloride Content _____ 20,000 _____ ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained _____ On location. _____

Remarks: _____

Harvill's Drill Stem Testing

Mallon Oil Co.

Operator

Mobil "5" State #1

Well Name and No.

2

DST No.

RECORDER NO. 13750 DEPTH 7190 FT.

INITIAL FLOW

<u>DT(MIN)</u>	<u>PRESSURE(PSIG)</u>
0	113.2
5	104.6
10	105.1
13	107.7

RECORDER NO. 13750 DEPTH 7190 FT.

FINAL FLOW

<u>DT(MIN)</u>	<u>PRESSURE(PSIG)</u>
0	210.3
5	190.3
10	186.3
15	186.6
20	192.7
25	203.0
30	213.2
35	222.3
40	229.2
45	234.7
50	241.1
55	246.6
60	250.6

Harvill's Drill Stem Testing

Mallon Oil Co.

Operator

Mobil "5" State #1

Well Name and No.

2

DST No.

RECORDER NO. 13750 DEPTH 7190 FT.

INITIAL SHUT-IN

INITIAL FLOW TIME: T = 13 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)	DP(P SIG)
0		107.7	0.0
1	1.146	111.4	3.7
2	0.875	114.9	7.2
3	0.727	119.7	12.1
4	0.628	124.6	16.9
5	0.556	130.8	23.2
6	0.501	136.9	29.2
7	0.456	143.7	36.0
8	0.419	149.3	41.7
9	0.388	155.8	48.1
10	0.362	162.6	54.9
12	0.319	175.1	67.4
14	0.285	190.1	82.4
16	0.258	205.3	97.7
18	0.236	221.6	113.9
20	0.217	234.1	126.4
22	0.202	248.4	140.7
24	0.188	261.1	153.5
26	0.176	276.2	168.6
28	0.166	289.9	182.3
30	0.156	297.2	189.6

EXTRAPOLATED PRESSURE: INDETERMINATE

Harvill's Drill Stem Testing

Mallon Oil Co.

Operator

Mobil "5" State #1

Well Name and No.

2

DST No.

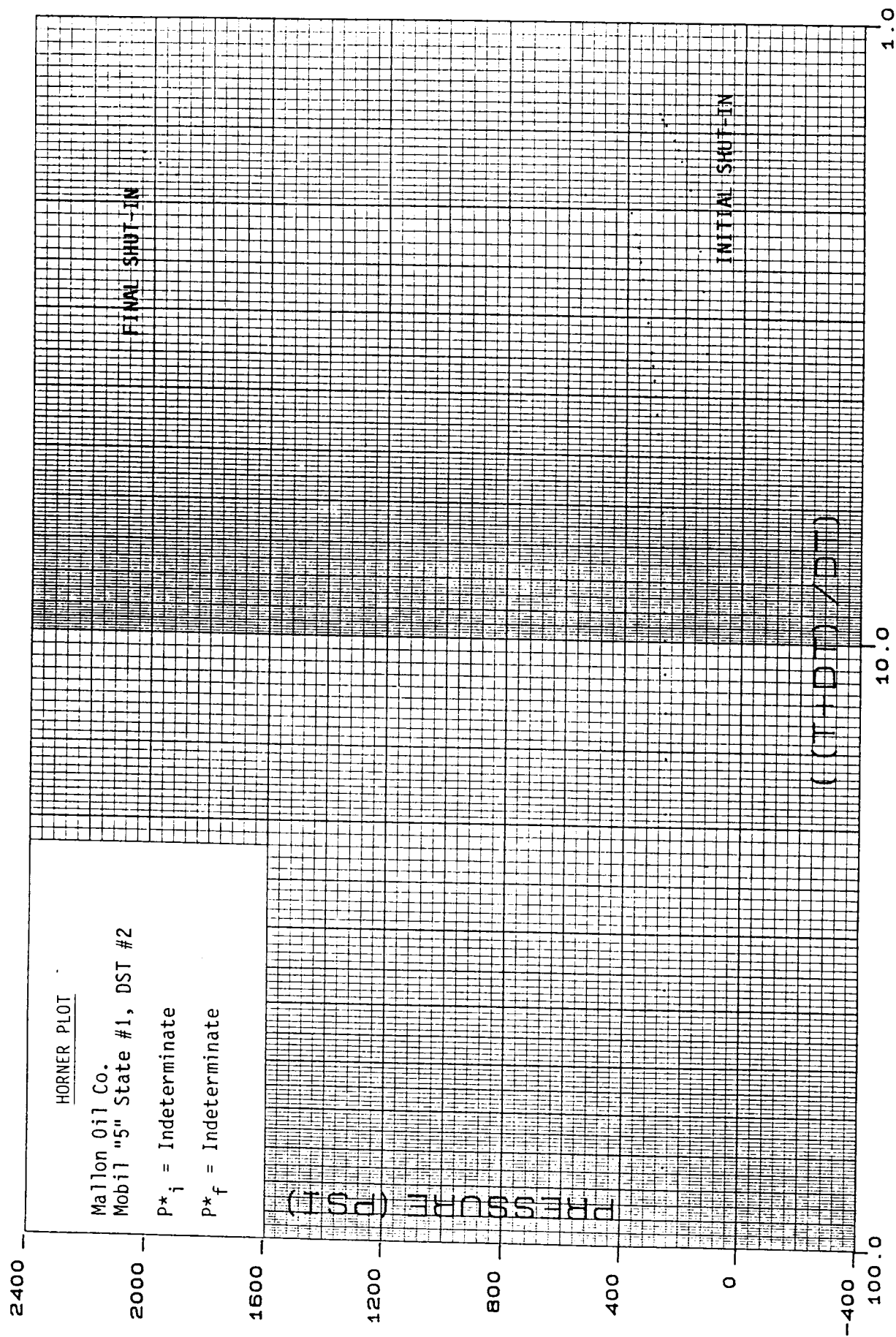
RECORDER NO. 13750 DEPTH 7190 FT.

FINAL SHUT-IN

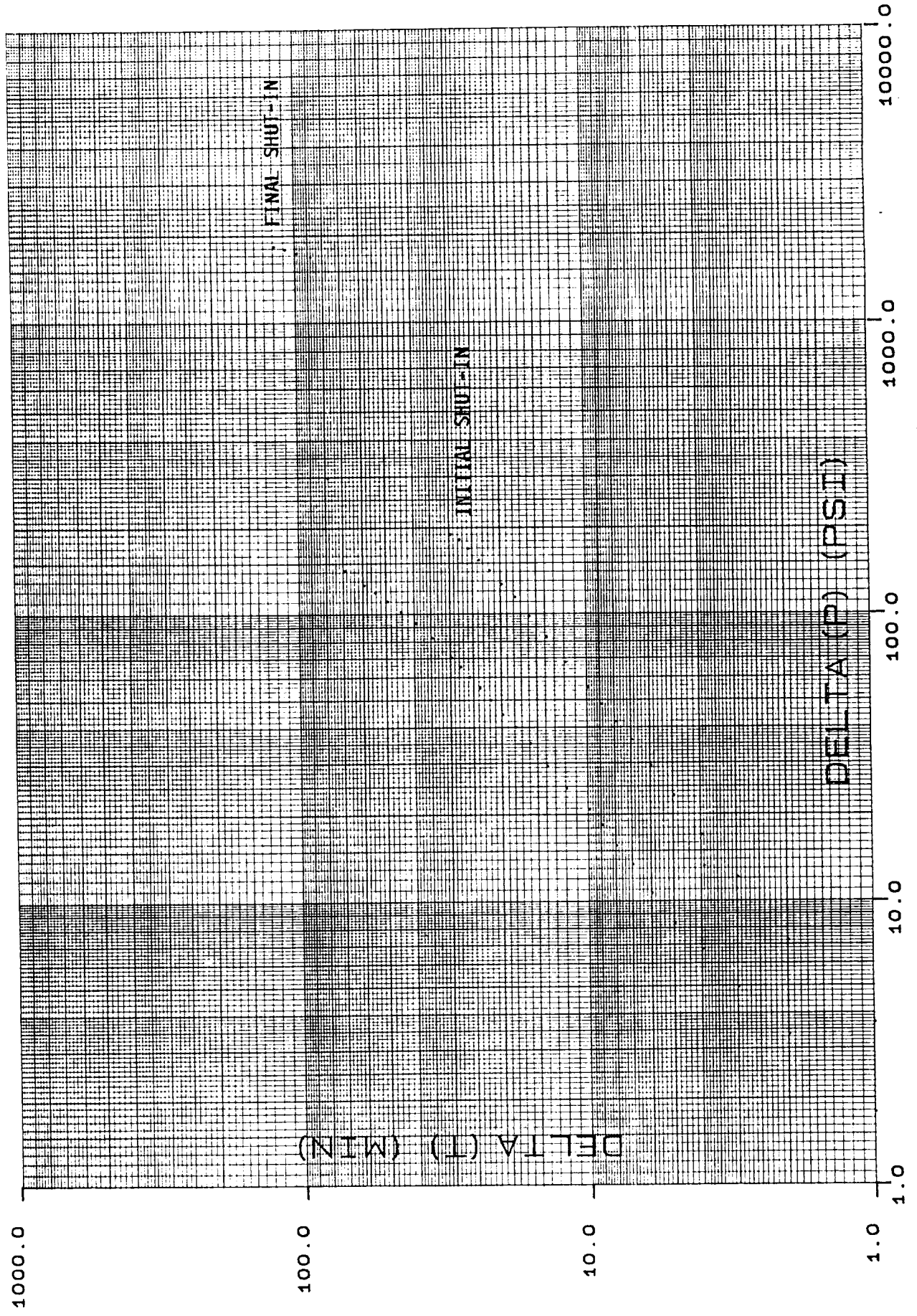
TOTAL FLOW TIME: T = 73 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)	DP(P SIG)
0		250.6	0.0
1	1.869	252.4	1.8
2	1.574	254.0	3.4
3	1.404	255.6	4.9
4	1.284	257.4	6.7
5	1.193	258.9	8.3
6	1.119	261.3	10.7
7	1.058	264.1	13.4
8	1.005	266.2	15.6
9	0.960	269.0	18.3
10	0.919	271.4	20.7
12	0.850	275.1	24.5
14	0.793	279.8	29.2
16	0.745	285.6	34.9
18	0.704	290.5	39.8
20	0.667	294.8	44.2
22	0.635	300.4	49.7
24	0.607	305.5	54.8
26	0.581	310.4	59.8
28	0.557	315.5	64.9
30	0.536	320.5	69.8
35	0.489	332.5	81.9
40	0.451	342.8	92.2
45	0.419	352.1	101.5
50	0.391	361.1	110.4
55	0.367	369.0	118.4
60	0.346	376.6	125.9
70	0.310	392.3	141.6
80	0.282	548.5	297.9
90	0.258	1926.7	1676.1
100	0.238	1982.4	1731.7
110	0.221	2033.5	1782.8
120	0.206	2084.5	1833.9

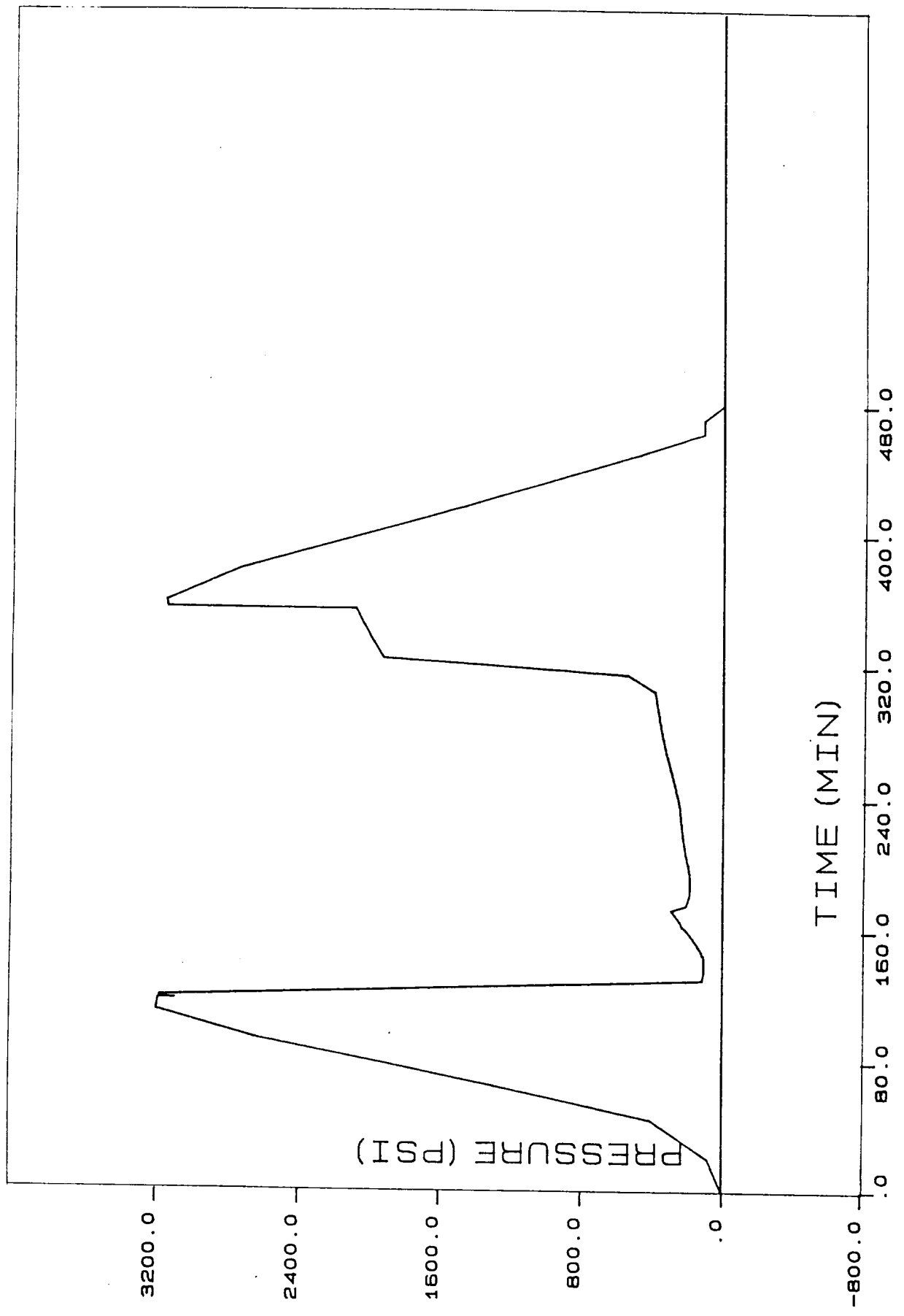
EXTRAPOLATED PRESSURE: INDETERMINATE



LOG/LOG PLOT



GAUGE NO. 13750 @ 7190 FT.



Harvill's Drill Stem Testing

DISTRIBUTION OF FINAL REPORTS

Mallon Oil Co.
Operator

Mobil "5" State #1
Well Name and No.

Mallon Oil Co. 5
Attn: Joe Cox
1099-18th St., Suite 2750
Denver CO 80202