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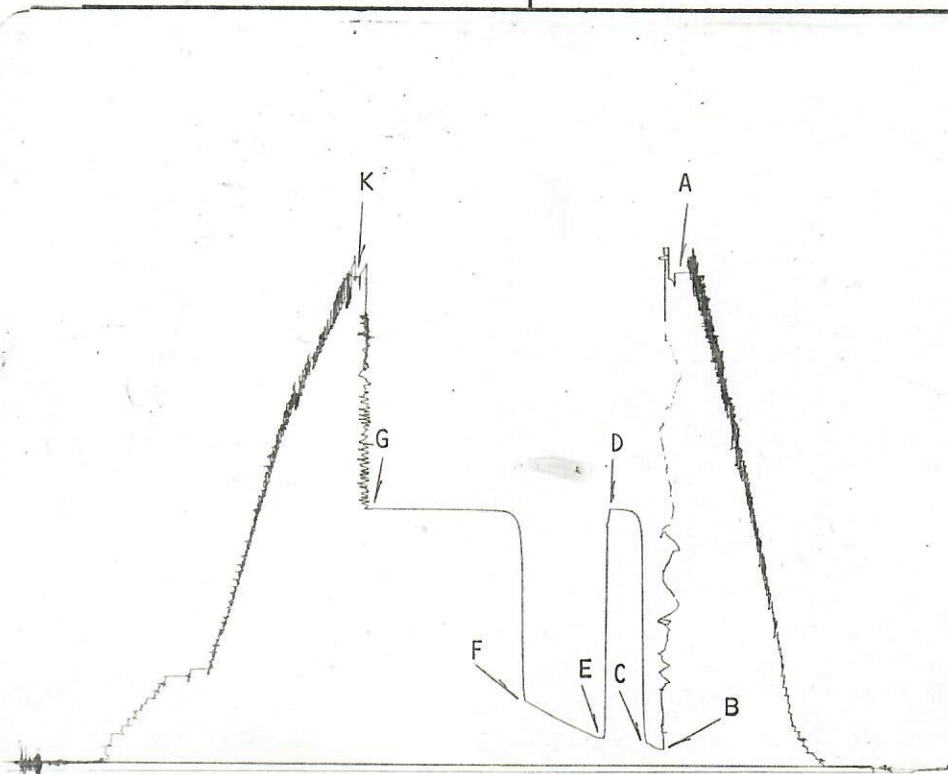
# PICK TESTERS

Box 341  
Sterling, CO 80751

Contractor **Exeter Drilling**  
 Rig No. **4**  
 Spot **NE/SE**  
 Sec. **16**  
 Twp. **7 N**  
 Rng. **58 W**  
 Field **Bluebell**  
 County **Weld**  
 State **Colorado**  
 Elevation **4752' KB**  
 Formation **"J" Sand #2**

Surface Choke **1"**  
 Bottom Choke **3/4"**  
 Hole Size **7 7/8"**  
 Core Hole Size **--**  
 DP Size & Wt. **4 1/2" 16.60**  
 Wt. Pipe **None**  
 I.D. of DC **2 1/4"**  
 Length of DC **348'**  
 Total Depth **6398'**  
 Type Test **Straddle**  
 Interval **6337' - 6350'**

Mud Type **Chemical/Gel**  
 Weight **9.4**  
 Viscosity **72**  
 Water Loss **--**  
 Filter Cake **--**  
 Resistivity **3.8 @ 68 of**  
**1,462 Ppm. NaCl**  
 B.H.T. **156 of**  
 Co. Rep. **David Ferderer**  
 Tester **David Pickering**



	REPORTED	CORRECTED
Opened Tool @	06:37	hrs.
Flow No. 1	15	13 min.
Shut-in No. 1	30	28 min.
Flow No. 2	60	61 min.
Shut-in No. 2	120	120 min.
Flow No. 3	None Taken	min.
Shut-in No. 3	"	" min.

Recorder Type **Kuster AK-1**  
 No. **13338** Cap. **4950** psi  
 Depth **6343** feet  
 Inside X Outside

Initial Hydrostatic	A	3153.3
Final Hydrostatic	K	3136.7
Initial Flow	B	118.3
Final Initial Flow	C	154.1
Initial Shut-in	D	1640.1
Second Initial Flow	E	191.1
Second Final Flow	F	418.7
Second Shut-in	G	1630.6
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

Pipe Recovery:

1150' Total fluid = 13.09 bbl., consisting of:  
 617' Slightly gas cut oil = 8.76 bbl.  
 93' Highly oil cut mud = 1.32 bbl.  
 440' Water = 3.01 bbl.

Resistivity:

Bottom:

2.4 @ 78°F - 1.25 @ Res Temp = 2,078 ppm NaCl., 1,263 ppm Cl.

1st Flow:

Tool opened with a 1/4" blow, increased to a strong blow off bottom of bucket in 5 minutes and remained thru flow period.

2nd Flow:

Tool opened with a 1" blow, increased to bottom of bucket in 1 minute. Gas to surface in 9 minutes; see gas volume report.

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Operator  
Ticket No.ENERGY MINERALS CORP.  
1302  
2/17/89

"TIGHT HOLE"

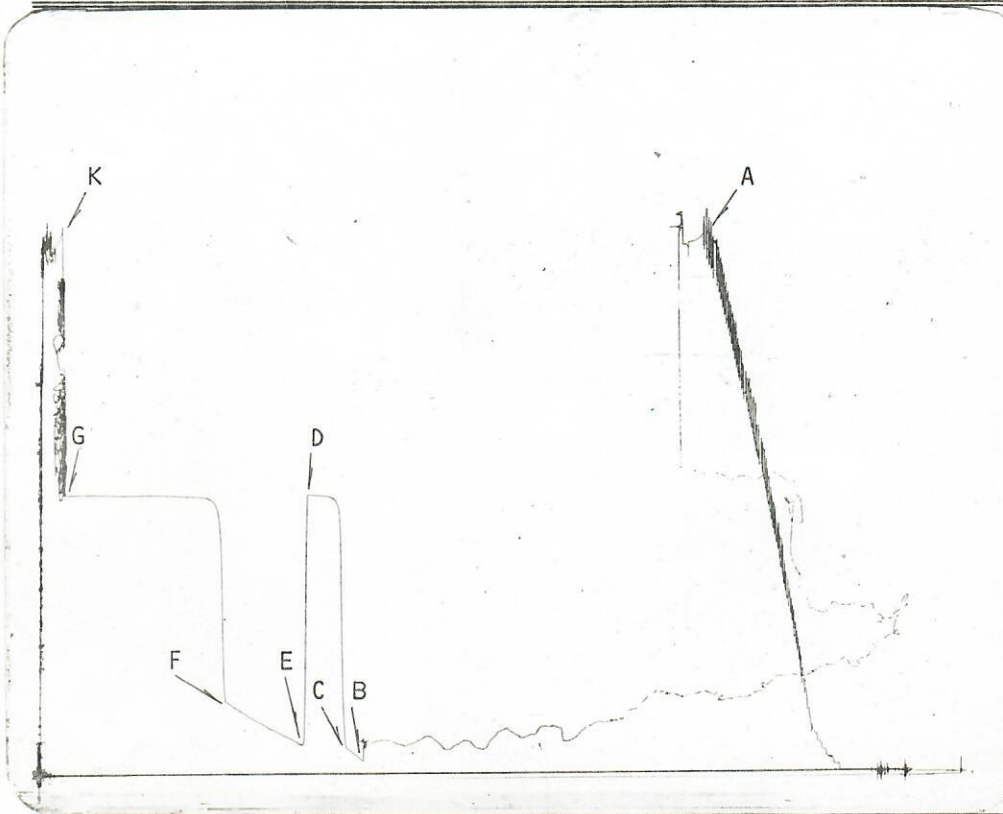
Well Name & No.  
Location  
County, StateBLUEBELL STATE #1  
NE/SE S-16 T-7N R-58W  
WELD COUNTY, CODST No.  
Interval  
Formation1  
6337' - 6350'  
"J" SAND #2

# PICK TESTERS

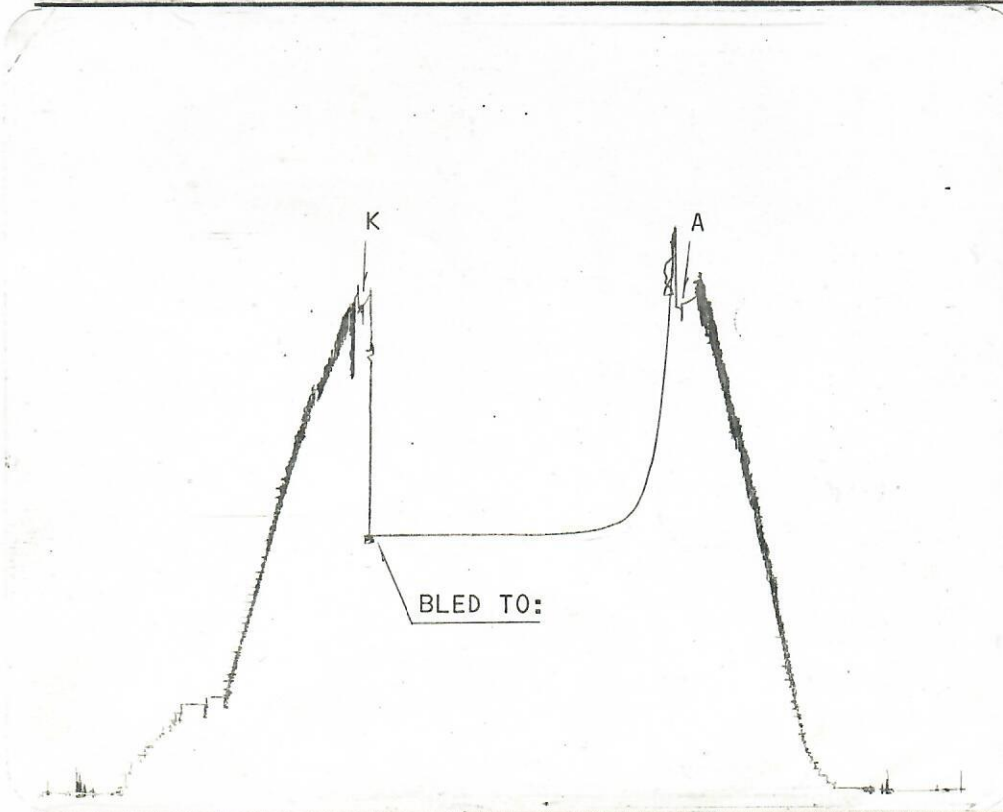
Energy Minerals Corp.  
Operator

Bluebell State #1  
Well Name and No.

1  
DST No.



Recorder Type Kuster AK-1  
No. 13617 Cap. 4550 psi  
Depth 6324 feet  
Inside X Outside  
Initial Hydrostatic A 3149.2  
Final Hydrostatic K 3139.3  
Initial Flow B 79.0  
Final Initial Flow C 150.4  
Initial Shut-in D 1641.2  
Second Initial Flow E 175.2  
Second Final Flow F 425.3  
Second Shut-in G 1639.1  
Third Initial Flow H \_\_\_\_\_  
Third Final Flow I \_\_\_\_\_  
Third Shut-in J \_\_\_\_\_



Recorder Type Kuster AK-1  
No. 6249 Cap. 4950 psi  
Depth 6360 feet  
Inside Outside X  
Initial Hydrostatic A 3056.7  
Final Hydrostatic K 3044.0  
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 \_\_\_\_\_

Bled to: 1559.2

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## GAS VOLUME REPORT

1  
DST No.

[illegible]

Gas to surface 9 minutes into the second flow period.  
Gauged with a 1" Pitot Tube.

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# PICK TESTERS

## SAMPLER REPORT

Company Energy Minerals Corp. Date 2/17/89  
Well Name & No. Bluebell State #1 Ticket No. 1302  
County Weld State Colorado  
Test Interval 6337' - 6350' DST No. 1

Pressure in Sampler: 250 \_\_\_\_\_ psig

Total Volume of Sampler: 2150 \_\_\_\_\_ cc.

Total Volume of Sample: 1300 \_\_\_\_\_ cc.

Oil: 650 \_\_\_\_\_ cc.

Water: 650 \_\_\_\_\_ cc.

Mud: None \_\_\_\_\_ cc.

Gas: 1.7 \_\_\_\_\_ cu. ft.

Other: None \_\_\_\_\_

### Resistivity

Make Up Water \_\_\_\_\_ @ \_\_\_\_\_ °F of Chloride Content \_\_\_\_\_ ppm.

Mud Pit Sample 3.8 @ 68 °F of Chloride Content 1,462 ppm.

Gas/Oil Ratio 418.5/1 cu.ft./bbl. Gravity 36.6 °API @ 60 °F

Where was sample drained On location.

Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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# PICK TESTERS

## DISTRIBUTION OF FINAL REPORTS

Energy Minerals Corp.

Operator

Bluebell State #1

Well Name and No.

Energy Minerals Corp. 5  
1616 Glenarm Pl. #1000  
Denver CO 80202

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# PICK TESTERS

Energy Minerals Corp.  
Operator

Bluebell State #1  
Well Name and No.

1  
DST No.

RECORDER NO. 13338 DEPTH 6343 FT.

## INITIAL FLOW

DT(MIN) PRESSURE(PSIG)

0	118.3
5	119.9
10	140.1
13	154.1

RECORDER NO. 13338 DEPTH 6343 FT.

## FINAL FLOW

DT(MIN) PRESSURE(PSIG)

0	191.1
5	187.6
10	202.8
15	222.0
20	241.3
25	259.0
30	277.8
35	299.3
40	321.0
45	344.4
50	367.5
55	389.6
60	414.1
61	418.7

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# PICK TESTERS

Energy Minerals Corp.

Operator

Bluebell State #1

Well Name and No.

1

DST No.

RECORDER NO. 13338 DEPTH 6343 FT.

## INITIAL SHUT-IN

INITIAL FLOW TIME: T = 13 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)	DP(P SIG)
0		154.1	0.0
1	1.146	198.9	44.8
2	0.875	314.4	160.4
3	0.727	814.8	660.8
4	0.628	1479.0	1324.9
5	0.556	1540.7	1386.6
6	0.501	1574.5	1420.4
7	0.456	1593.4	1439.3
8	0.419	1603.0	1448.9
9	0.388	1610.1	1456.0
10	0.362	1616.3	1462.2
12	0.319	1625.2	1471.1
14	0.285	1630.8	1476.7
16	0.258	1633.7	1479.6
18	0.236	1635.8	1481.7
20	0.217	1636.8	1482.8
22	0.202	1637.9	1483.8
24	0.188	1638.7	1484.7
26	0.176	1639.6	1485.5
28	0.166	1640.1	1486.1

EXTRAPOLATED PRESSURE: 1660.8 PSI

SLOPE: 113.4 PSI/LOG CYCLE

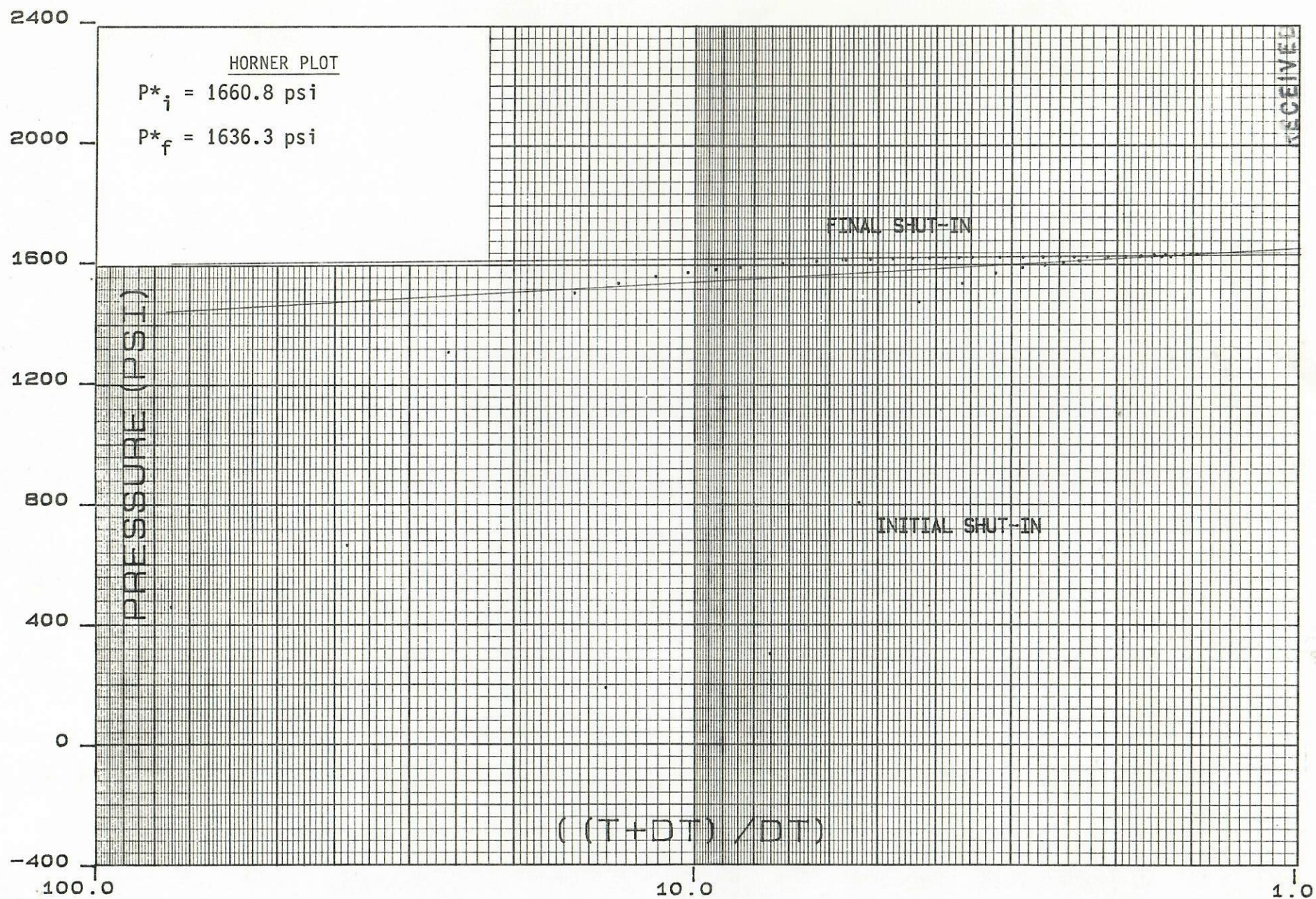
POINTS USED: 10

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OIL, OIL & GAS CONS. CO.



# PICK TESTERS

Energy Minerals Corp.  
Operator

Bluebell State #1  
Well Name and No.

1  
DST No.

RECORDER NO. 13338 DEPTH 6343 FT.

## FINAL SHUT-IN

TOTAL FLOW TIME: T = 74 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(P SIG)	DP(P SIG)
0		418.7	0.0
1	1.875	462.1	43.5
2	1.580	670.0	251.3
3	1.409	1309.7	891.0
4	1.290	1449.2	1030.5
5	1.199	1506.9	1088.3
6	1.125	1539.5	1120.8
7	1.063	1561.5	1142.8
8	1.011	1575.0	1156.3
9	0.965	1585.5	1166.9
10	0.924	1592.7	1174.0
12	0.855	1604.8	1186.1
14	0.798	1612.8	1194.1
16	0.750	1617.3	1198.6
18	0.709	1619.9	1201.3
20	0.672	1621.4	1202.7
22	0.640	1623.1	1204.4
24	0.611	1624.2	1205.6
26	0.585	1624.6	1205.9
28	0.561	1625.5	1206.8
30	0.540	1626.2	1207.5
35	0.493	1626.9	1208.2
40	0.455	1627.3	1208.6
45	0.422	1627.9	1209.2
50	0.394	1628.4	1209.7
55	0.370	1628.8	1210.1
60	0.349	1629.2	1210.5
70	0.313	1629.6	1211.0
80	0.284	1630.0	1211.4
90	0.261	1630.3	1211.7
100	0.241	1630.4	1211.7
110	0.223	1630.6	1211.9
120	0.209	1630.6	1211.9

EXTRAPOLATED PRESSURE: 1636.3 PSI  
SLOPE: 21.4 PSI/LOG CYCLE  
POINTS USED: 20

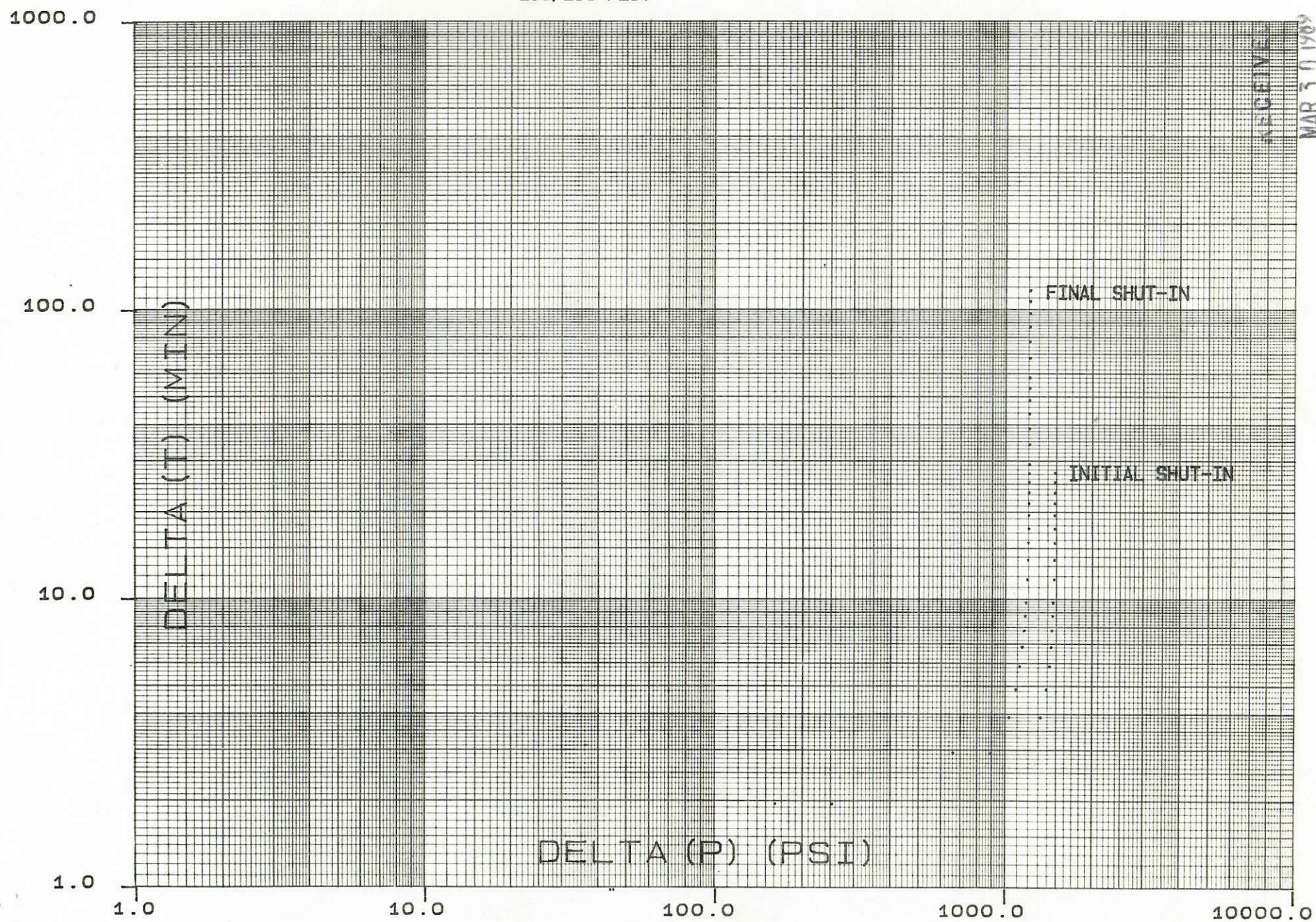
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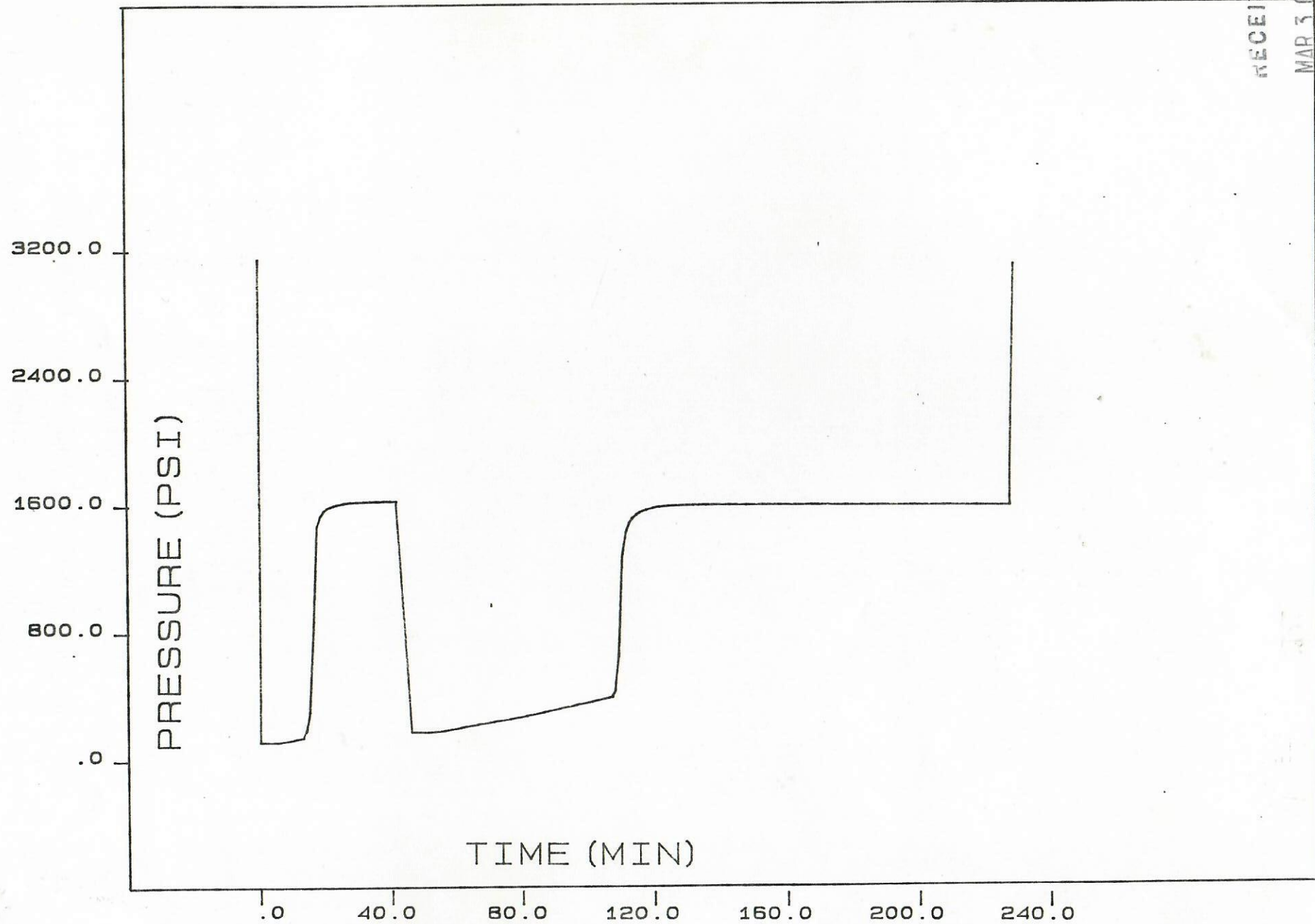
LOG/LOG PLOT



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GAUGE NO. 13338 @ 6343 FT.



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