

## PICK TESTERS



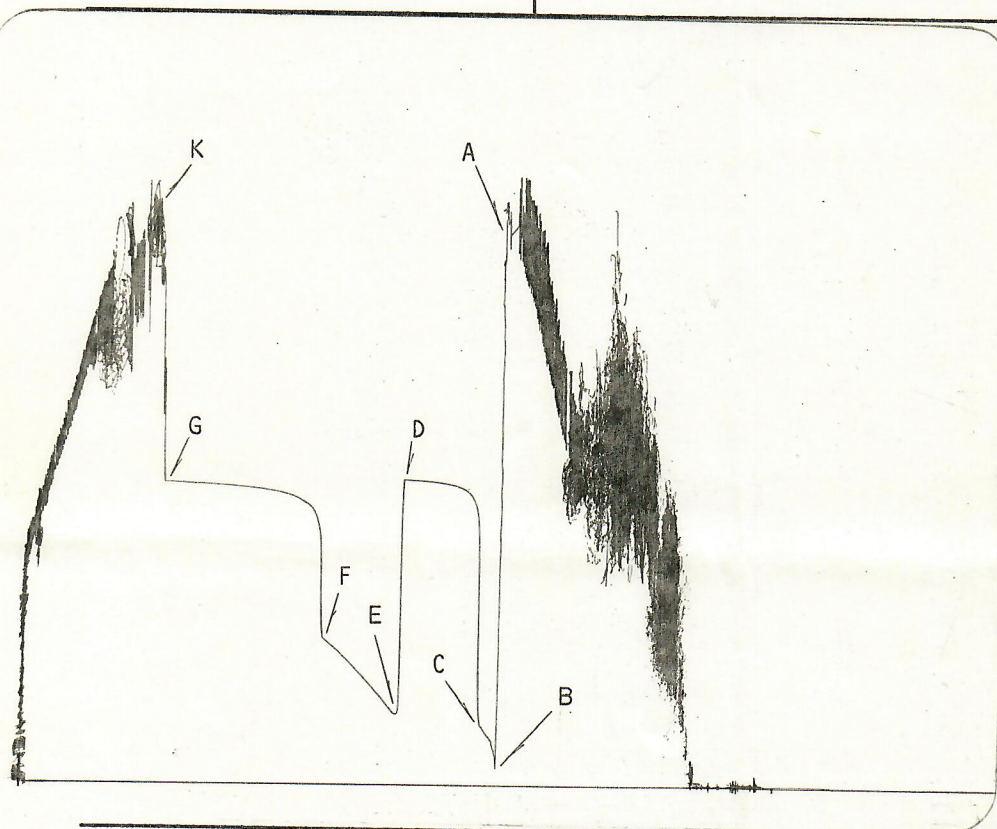
00225681

Box 341  
Sterling, CO 80751Operator  
Ticket No.  
Date1333  
4/12/90Well Name & No.  
Location  
County, StateNICKERSON #/  
NE/SW S-18 T-7N R-58W  
WELD COUNTY, CODST No.  
Interval  
Formation1  
6458' - 6470'  
"D" SAND

Contractor Allison Bros.  
 Rig No. 2  
 Spot NE/SW  
 Sec. 18  
 Twp. 7 N  
 Rng. 58 W  
 Field Gemini  
 County Weld  
 State Colorado  
 Elevation 4857' KB  
 Formation "D" Sand

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 457'  
 Total Depth 6623'  
 Type Test Straddle  
 Interval 6458' - 6470'

Mud Type Chemical/Gel  
 Weight 9.3  
 Viscosity 72  
 Water Loss --  
 Filter Cake --  
 Resistivity 3.1 @ 80 of  
1,549 Ppm. NaCl  
 B.H.T. 166 of  
 Co. Rep. Dean Gackle  
 Tester David Pickering



	REPORTED	CORRECTED
Opened Tool @	06:50	hrs.
Flow No. 1	15	13 min.
Shut-in No. 1	60	58 min.
Flow No. 2	60	58 min.
Shut-in No. 2	120	122 min.
Flow No. 3	None Taken	min.
Shut-in No. 3	"	" min.

Recorder Type Kuster AK-1  
 No. 13617 Cap. 4550 psi  
 Depth 6478 feet  
 Inside X Outside

Initial Hydrostatic	A	3244.0
Final Hydrostatic	K	3182.8
Initial Flow	B	90.6
Final Initial Flow	C	346.7
Initial Shut-in	D	1771.9
Second Initial Flow	E	420.1
Second Final Flow	F	845.9
Second Shut-in	G	1747.8
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

Pipe Recovery: 915' Gas above fluid  
 1787' Highly gas cut water w/slight oil scum on top = 21.13 bbl.

Resistivity:  
 Top: 1.2 @ 84°F - .63 @ Res Temp = 4,015 ppm NaCl., 2,441 ppm Cl.  
 Middle: .52 @ 84°F - .27 @ Res Temp = 9,762 ppm NaCl., 5,934 ppm Cl.  
 Bottom: .52 @ 84°F - .27 @ Res Temp = 9,762 ppm NaCl., 5,934 ppm Cl.

1st Flow: Tool opened with a slight blow, increased to a good blow off bottom of bucket in 7 minutes and remained thru flow period.

2nd Flow: Tool opened with a 1/2" blow, increased to a strong blow off bottom of bucket with 8.5 oz in 10 minutes, 14.5 oz in 30 minutes; began to decrease after 41 minutes to 12.0 oz at end of flow period.



# PICK TESTERS

Energy Minerals Corp.  
Operator

Nickerson #7  
Well Name and No.

1  
DST No.

Recorder Type Kuster AK-1  
No. 13338 Cap. 4950 psi  
Depth 6483 feet  
Inside X Outside

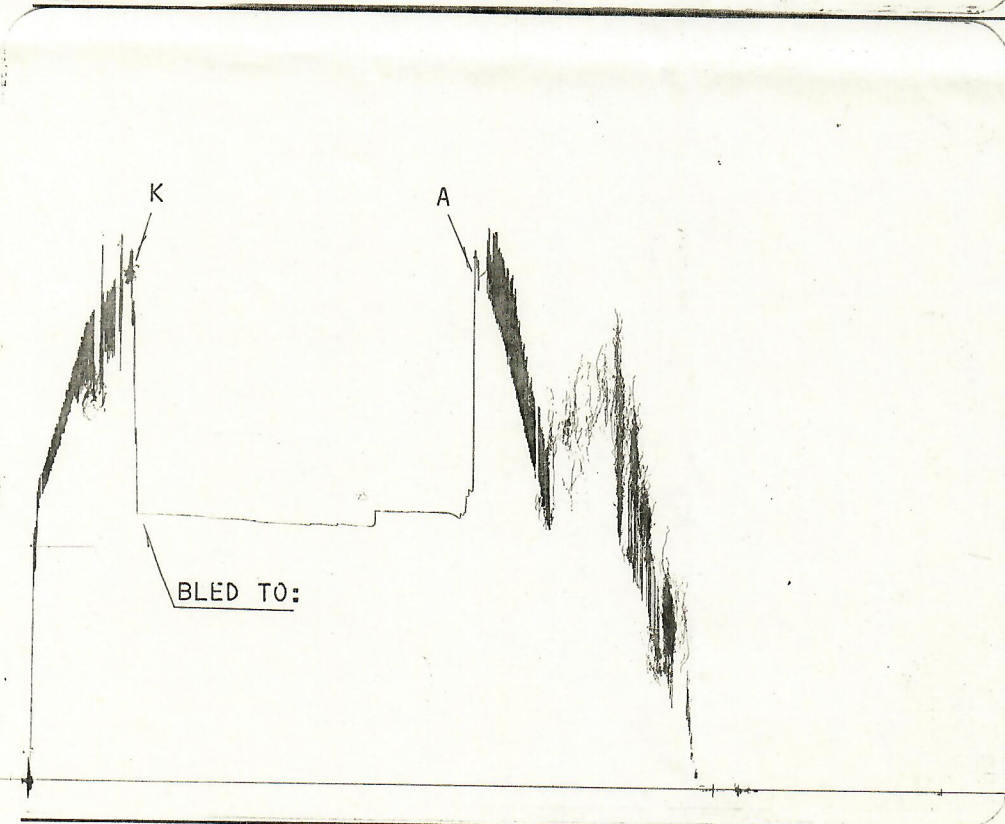
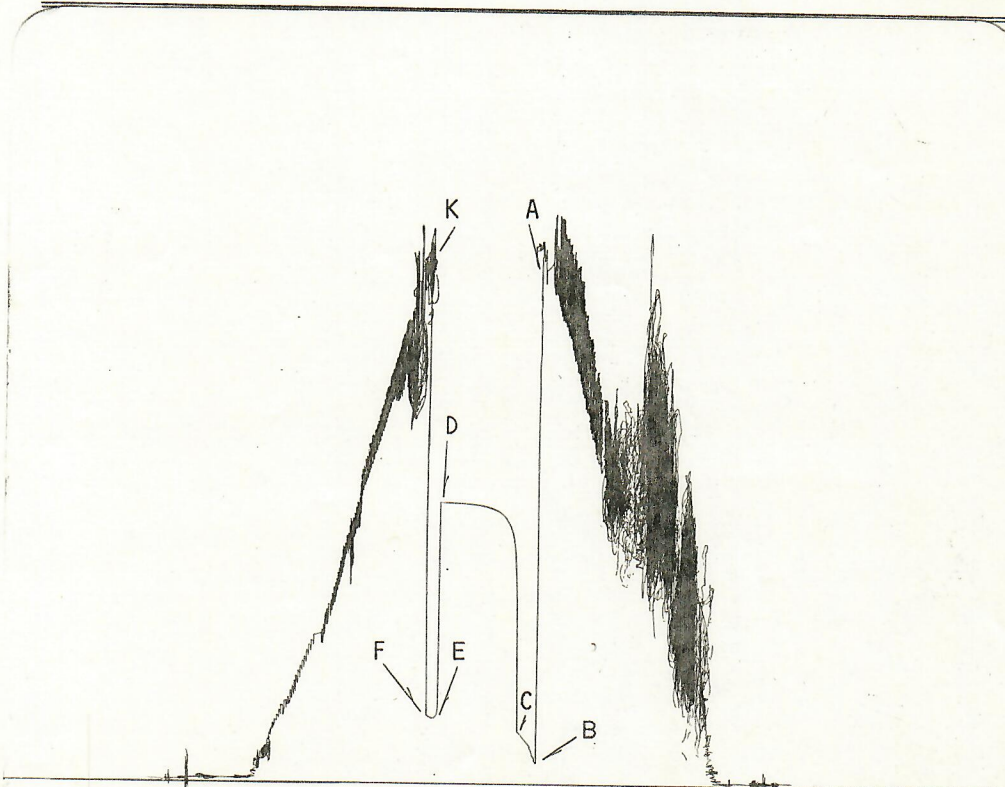
Initial Hydrostatic	A	3235.4
Final Hydrostatic	K	3178.1
Initial Flow	B	116.0
Final Initial Flow	C	312.7
Initial Shut-in	D	1768.4
Second Initial Flow	E	408.7
Second Final Flow	F	414.3*
Second Shut-in	G	*
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

\* The clock stopped 8 minutes into the final flow period.

Recorder Type Kuster AK-1  
No. 6249 Cap. 4950 psi  
Depth 6489 feet  
Inside Outside X

Initial Hydrostatic	A	3240.7
Final Hydrostatic	K	3184.1
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: 1732.9





# PICK TESTERS

## SAMPLER REPORT

Company Energy Minerals Corp. Date 4/12/90  
Well Name & No. Nickerson #7 Ticket No. 1333  
County Weld State Colorado  
Test Interval 6458' - 6470' DST No. 1

Pressure in Sampler: 100 \_\_\_\_\_ psig  
Total Volume of Sampler: 2150 \_\_\_\_\_ cc.  
Total Volume of Sample: 2125 \_\_\_\_\_ cc.  
Oil: None \_\_\_\_\_ cc.  
Water: 2125 \_\_\_\_\_ cc.  
Mud: None \_\_\_\_\_ cc.  
Gas: Trace \_\_\_\_\_ cu. ft.  
Other: None \_\_\_\_\_

Sample R W: .52 @ 84°F - .27 @ Res Temp = 9,762 ppm NaCl., 5,934 ppm Cl.

### Resistivity

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

Mud Pit Sample 3.1 @ 80 °F of Chloride Content 1,549 ppm.

Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F

Where was sample drained On location.

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

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1  
DST No.

RECORDER NO. 13617 DEPTH 6478 FT.

## INITIAL FLOW

DT(MIN) PRESSURE(PSIG)

0	90.6
5	269.2
10	323.6
13	346.7

RECORDER NO. 13617 DEPTH 6478 FT.

## FINAL FLOW

DT(MIN) PRESSURE(PSIG)

0	420.1
5	423.4
10	470.9
15	518.7
20	563.0
25	604.6
30	644.7
35	683.3
40	720.6
45	757.7
50	791.5
55	823.0
58	845.9



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Nickerson #7

Well Name and No.

1

DST No.

RECORDER NO. 13617 DEPTH 6478 FT.

## INITIAL SHUT-IN

INITIAL FLOW TIME: T = 13 MIN.

<u>DT(MIN)</u>	<u>LOG((T+DT)/DT)</u>	<u>PRESSURE(PSIG)</u>	<u>DP(P SIG)</u>
0		346.7	0.0
1	1.146	440.4	93.6
2	0.875	1607.0	1260.3
3	0.727	1631.3	1284.6
4	0.628	1653.0	1306.3
5	0.556	1666.3	1319.6
6	0.501	1679.9	1333.1
7	0.456	1689.5	1342.8
8	0.419	1697.7	1351.0
9	0.388	1704.0	1357.3
10	0.362	1709.7	1363.0
12	0.319	1718.8	1372.1
14	0.285	1726.4	1379.7
16	0.258	1731.5	1384.8
18	0.236	1736.7	1390.0
20	0.217	1741.5	1394.8
22	0.202	1745.0	1398.3
24	0.188	1748.0	1401.3
26	0.176	1751.3	1404.6
28	0.166	1754.0	1407.3
30	0.156	1755.5	1408.8
35	0.137	1760.4	1413.7
40	0.122	1764.1	1417.4
45	0.110	1767.2	1420.5
50	0.100	1769.4	1422.7
55	0.092	1771.1	1424.4
58	0.088	1771.9	1425.2

EXTRAPOLATED PRESSURE: 1793.1 PSI

SLOPE: 237.7 PSI/LOG CYCLE

POINTS USED: 8



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Well Name and No.

1  
DST No.

RECORDER NO. 13617 DEPTH 6478 FT.

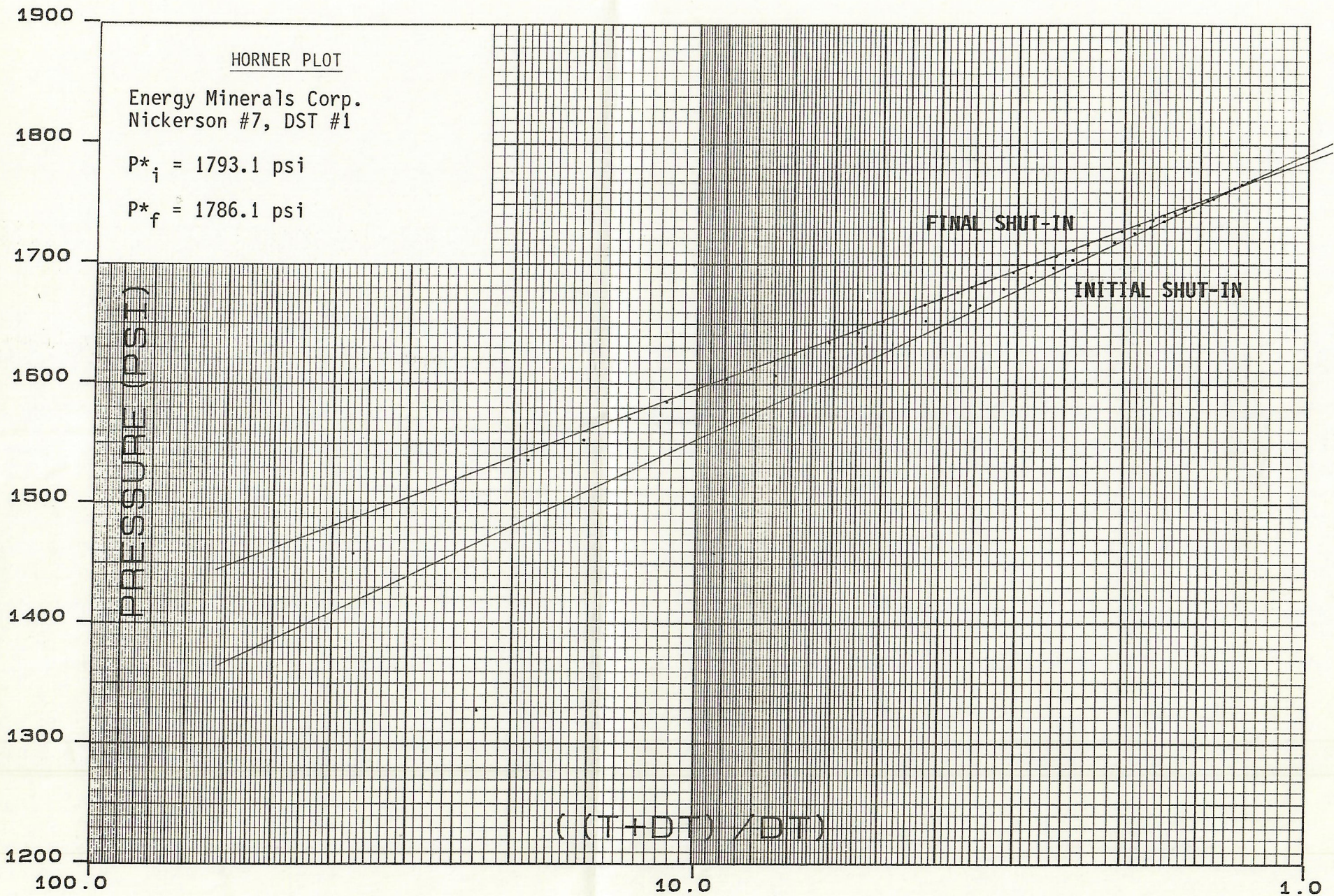
## FINAL SHUT-IN

TOTAL FLOW TIME: T = 71 MIN.

<u>DT(MIN)</u>	<u>LOG((T+DT)/DT)</u>	<u>PRESSURE(PSIG)</u>	<u>DP(PSIG)</u>
0		845.9	0.0
1	1.857	906.4	60.5
2	1.562	1457.7	611.8
3	1.392	1500.0	654.1
4	1.273	1535.7	689.8
5	1.182	1552.7	706.8
6	1.108	1570.8	724.9
7	1.047	1584.7	738.8
8	0.995	1594.9	749.0
9	0.949	1603.8	757.9
10	0.908	1612.7	766.8
12	0.840	1625.0	779.1
14	0.783	1634.7	788.8
16	0.735	1643.1	797.2
18	0.694	1652.7	806.8
20	0.658	1659.7	813.8
22	0.626	1666.6	820.7
24	0.598	1672.3	826.4
26	0.572	1677.1	831.2
28	0.548	1681.4	835.5
30	0.527	1685.4	839.5
35	0.481	1693.7	847.8
40	0.443	1701.1	855.2
45	0.411	1707.4	861.5
50	0.384	1712.3	866.4
55	0.360	1716.7	870.8
60	0.339	1721.5	875.6
70	0.304	1727.9	882.0
80	0.276	1733.2	887.3
90	0.253	1737.6	891.7
100	0.233	1741.3	895.4
110	0.216	1743.7	897.8
120	0.202	1747.3	901.4
122	0.199	1747.8	901.9

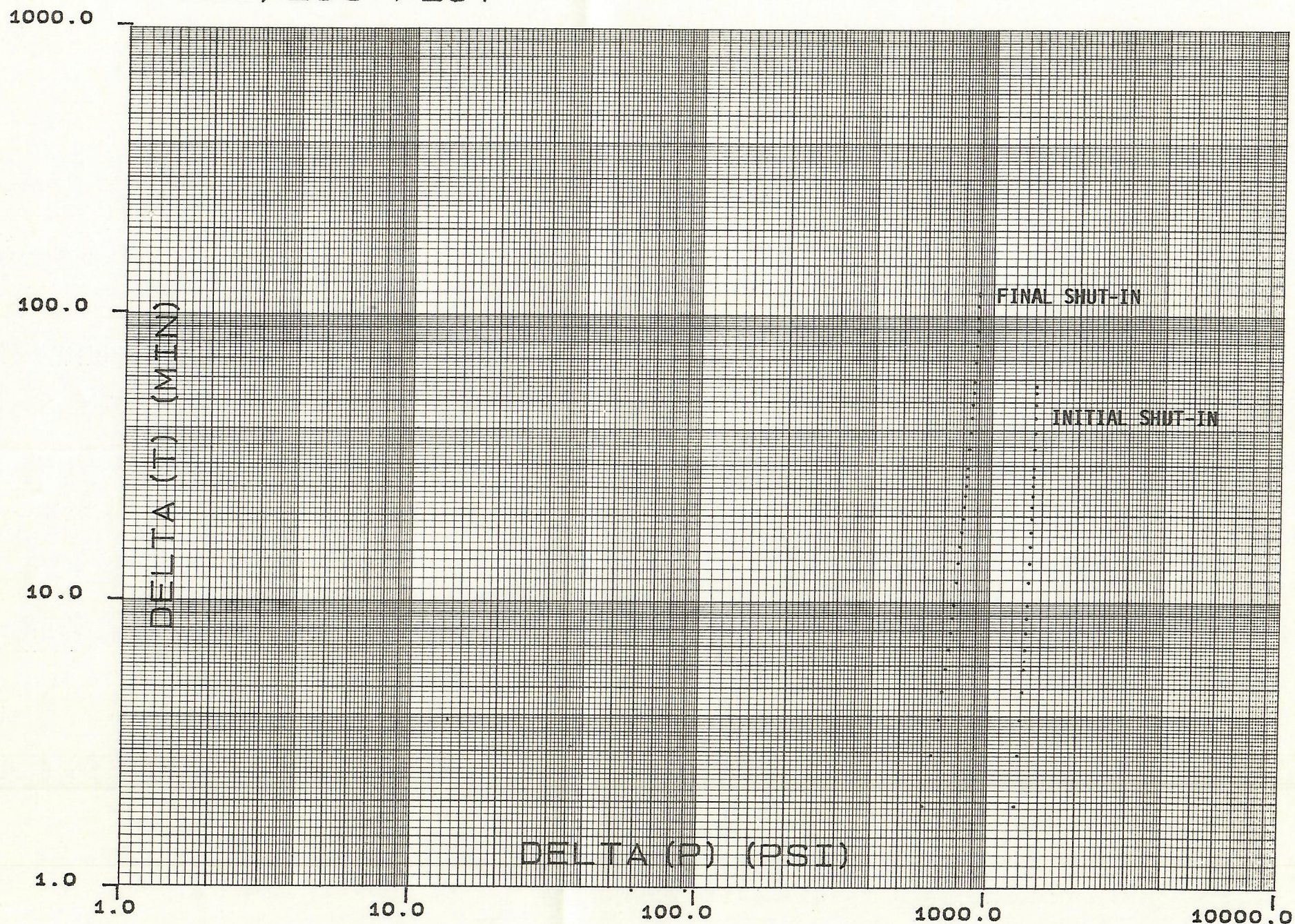
EXTRAPOLATED PRESSURE: 1786.1 PSI  
SLOPE: 191.8 PSI/LOG CYCLE  
POINTS USED: 24





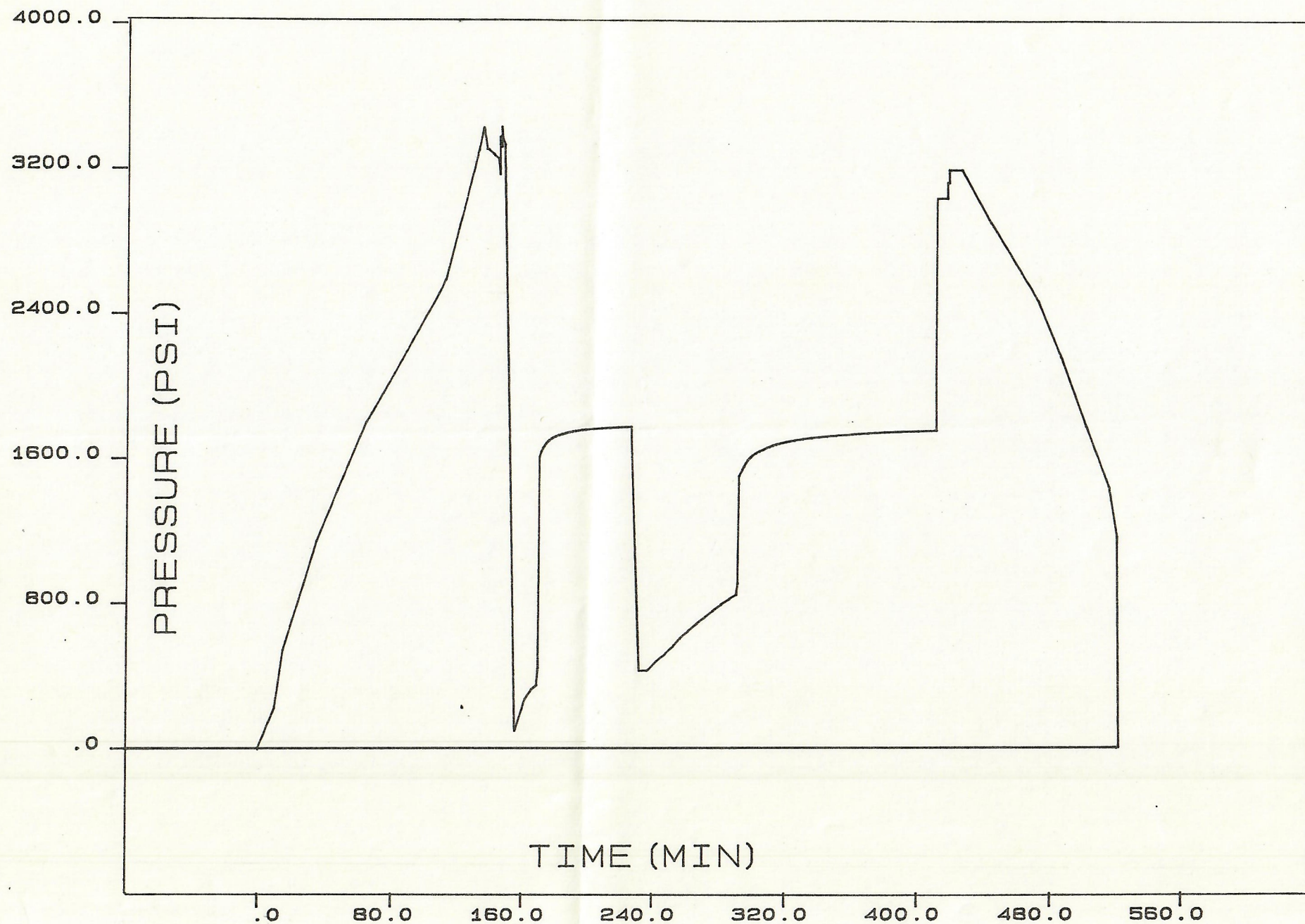


# LOG/LOG PLOT





GAUGE NO. 13617 @ 6478 FT.





# PICK TESTERS

## DISTRIBUTION OF FINAL REPORTS

Energy Minerals Corp.  
Operator

Nickerson #7  
Well Name and No.

Energy Minerals Corp. 5  
999-18th St., Suite 3100  
Denver CO 80202