

Operator  
Ticket No.  
DateSKAER ENTERPRISES, INC.  
2049  
10/28/90Well Name & No.  
Location  
County, StateRIEKE #4-1X  
SW/SW S-4 T-9N R-54W  
LOGAN COUNTY, CODST No.  
Interval  
Formation1  
5167' - 5200'  
"D" SAND

Contractor **Gear Drilling Co.**  
Rig No. **2**  
Spot **SW/SW**  
Sec. **4**  
Twp. **9 N**  
Rng. **54 W**  
Field **Doodlebug**  
County **Logan**  
State **Colorado**  
Elevation **4300' KB**  
Formation **"D" Sand**

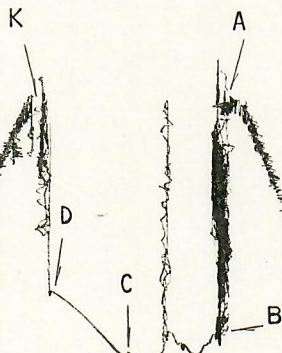
Surface Choke **3/8"**  
Bottom Choke **3/4"**  
Hole Size **7 7/8"**  
Core Hole Size **--**  
DP Size & Wt. **4 1/2" 16.60**  
Wt. Pipe **None**  
I.D. of DC **2 1/4"**  
Length of DC **402'**  
Total Depth **5200'**  
Type Test **Conventional**  
Interval **5167' - 5200'**

Mud Type **--**  
Weight **9.4**  
Viscosity **65**  
Water Loss **--**  
Filter Cake **--**  
Resistivity **3.4 @ 80 °F**  
**1,406 Ppm. NaCl**  
B.H.T. **Not Reported °F**  
Co. Rep. **Tom Pfleeeger**  
Tester **Derrell Suter**

	REPORTED	CORRECTED
Opened Tool @	--	--
Flow No. 1	75	71
Shut-In No. 1	60	56
Flow No. 2	None Taken	
Shut-In No. 2	"	"
Flow No. 3	"	"
Shut-In No. 3	"	"

Recorder Type **Kuster AK-1**  
No. **13483** Cap. **7150** psi  
Depth **5197** feet  
Inside **X** Clock  
Outside **X** Range **12** hrs.

Initial Hydrostatic	A	2575.5
Final Hydrostatic	K	2482.3
Initial Flow	B	432.9
Final Initial Flow	C	284.2
Initial Shut-In	D	846.8
Second Initial Flow	E	
Second Final Flow	F	
Second Shut-In	G	
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-In	J	



Pipe Recovery: **118' Thick, heavy mud = 0.58 bbl.**

1st Flow: Tool opened with a weak blow, increased to 3" in 20 minutes, decreased to 1/2" in 46 minutes. Bypassed tool; reopened with a weak blow, died in 62 minutes and remained throughout test.

# LIBERTY TESTERS, INC.

Skaer Enterprises, Inc.

Operator

Rieke #4-1X

Well Name and No.

1

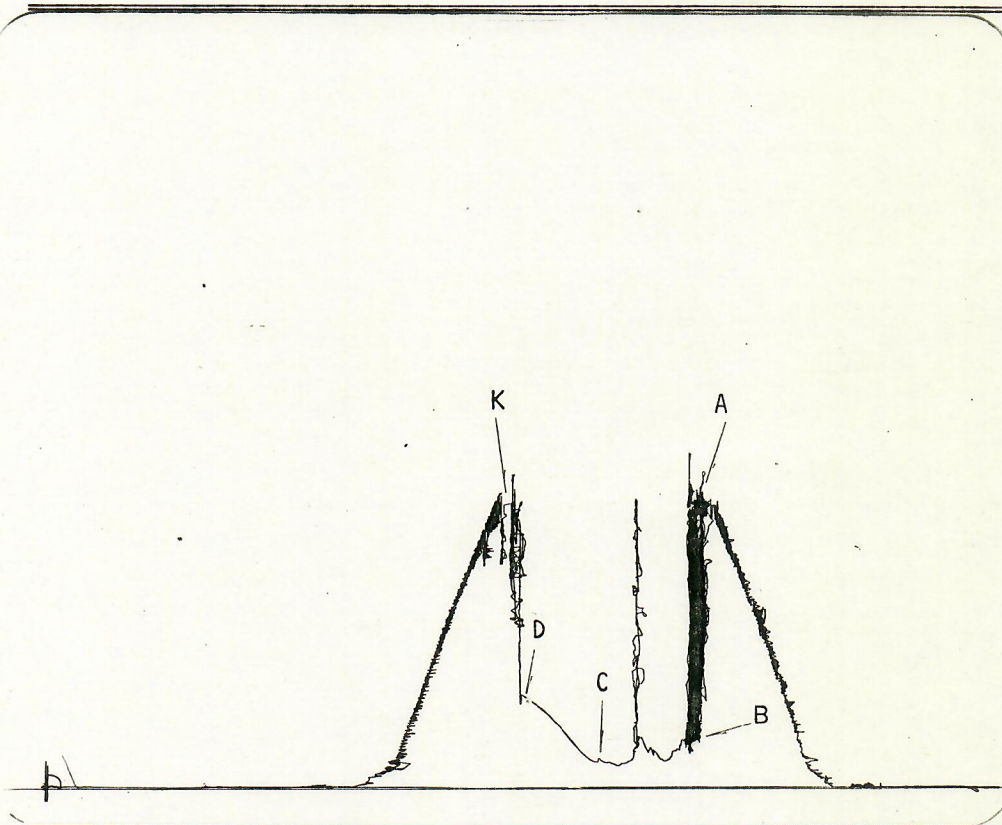
DST No.

Recorder Type Kuster AK-1  
 No. 11082 Cap. 6950 psi  
 Depth 5160 feet  
 Inside X Clock  
 Outside Range 12 hrs.

Initial Hydrostatic A 2559.1  
 Final Hydrostatic K 2473.3  
 Initial Flow B 451.8  
 Final Initial Flow C 262.0  
 Initial Shut-In D 850.4  
 Second Initial Flow E \_\_\_\_\_  
 Second Final Flow F \_\_\_\_\_  
 Second Shut-In G \_\_\_\_\_  
 Third Initial Flow H \_\_\_\_\_  
 Third Final Flow I \_\_\_\_\_  
 Third Shut-In J \_\_\_\_\_

Recorder Type \_\_\_\_\_  
 No. \_\_\_\_\_ Cap. \_\_\_\_\_ psi  
 Depth \_\_\_\_\_ feet  
 Inside \_\_\_\_\_ Clock  
 Outside Range \_\_\_\_\_ hrs.

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 \_\_\_\_\_



# LIBERTY TESTERS, INC.

## SAMPLER REPORT

Company Skaer Enterprises, Inc. Date 10/28/90  
Well Name & No. Rieke #4-1X Ticket No. 2049  
County Logan State Colorado  
Test Interval 5167' - 5200' DST No. 1

Pressure in Sampler: None \_\_\_\_\_ psig

Total Volume of Sampler: 2000 \_\_\_\_\_ cc.

Total Volume of Sample: 2000 \_\_\_\_\_ cc.

Oil: None \_\_\_\_\_ cc.

Water: None \_\_\_\_\_ cc.

Mud: 2000 \_\_\_\_\_ cc.

Gas: None \_\_\_\_\_ cu. ft.

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

Sample R W: 3.4 @ 80°F = 1,406 ppm NaCl., 855 ppm Cl.

### Resistivity

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

Mud Pit Sample 3.4 @ 80 °F of Chloride Content 1,406 ppm.

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

Where was sample drained On location.

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

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Rieke #4-1X  
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1  
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RECORDER NO. 13483 DEPTH 5197 FT.

## INITIAL FLOW

DT(MIN) PRESSURE(PSIG)

0	432.9
5	452.7
10	357.9
15	289.3
20	267.4
25	326.4
30	355.6
35	426.8
40	386.9
45	275.5
50	244.6
55	222.9
60	237.9
65	249.1
70	284.2
71	284.2

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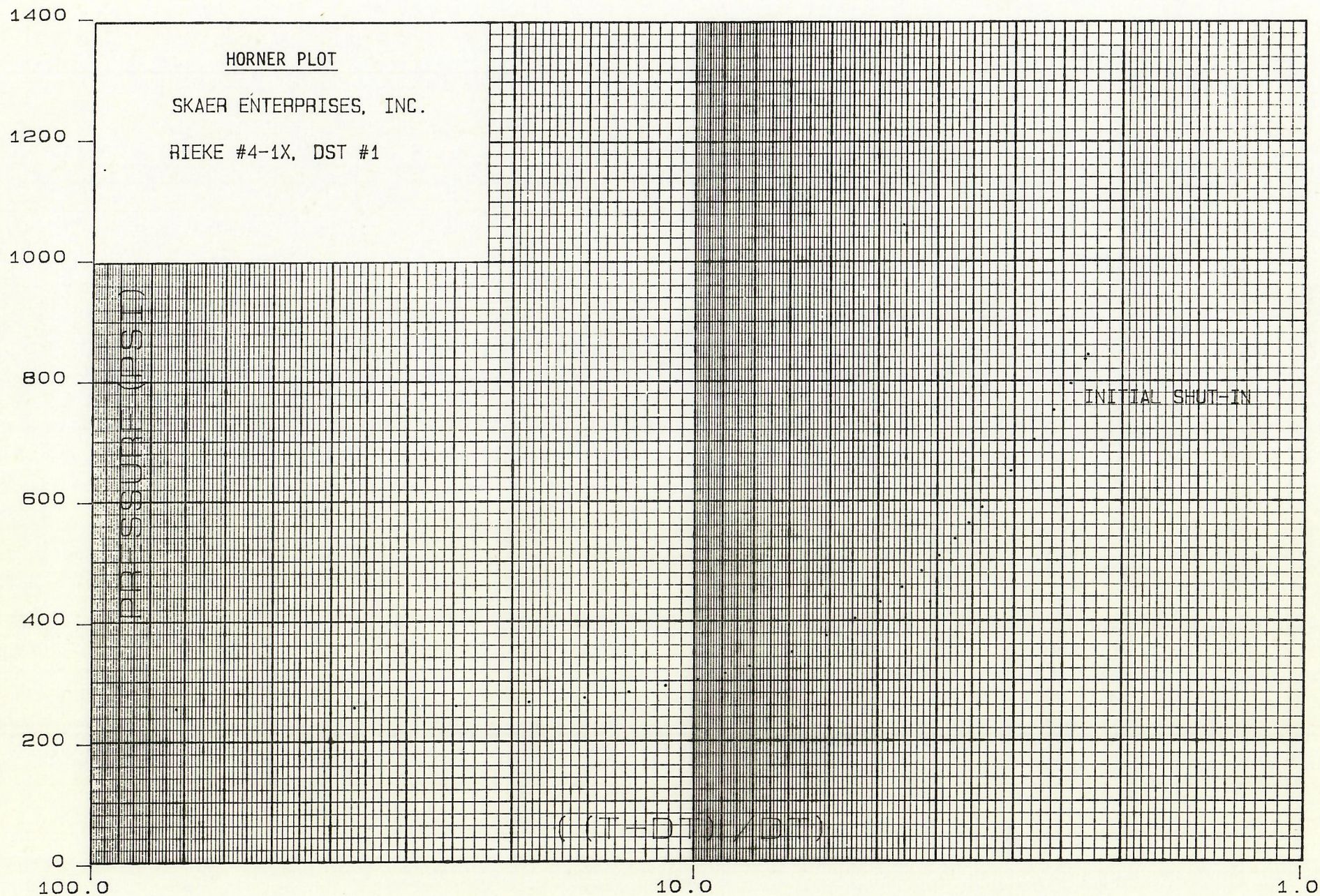
RECORDER NO. 13483 DEPTH 5197 FT.

## INITIAL SHUT-IN

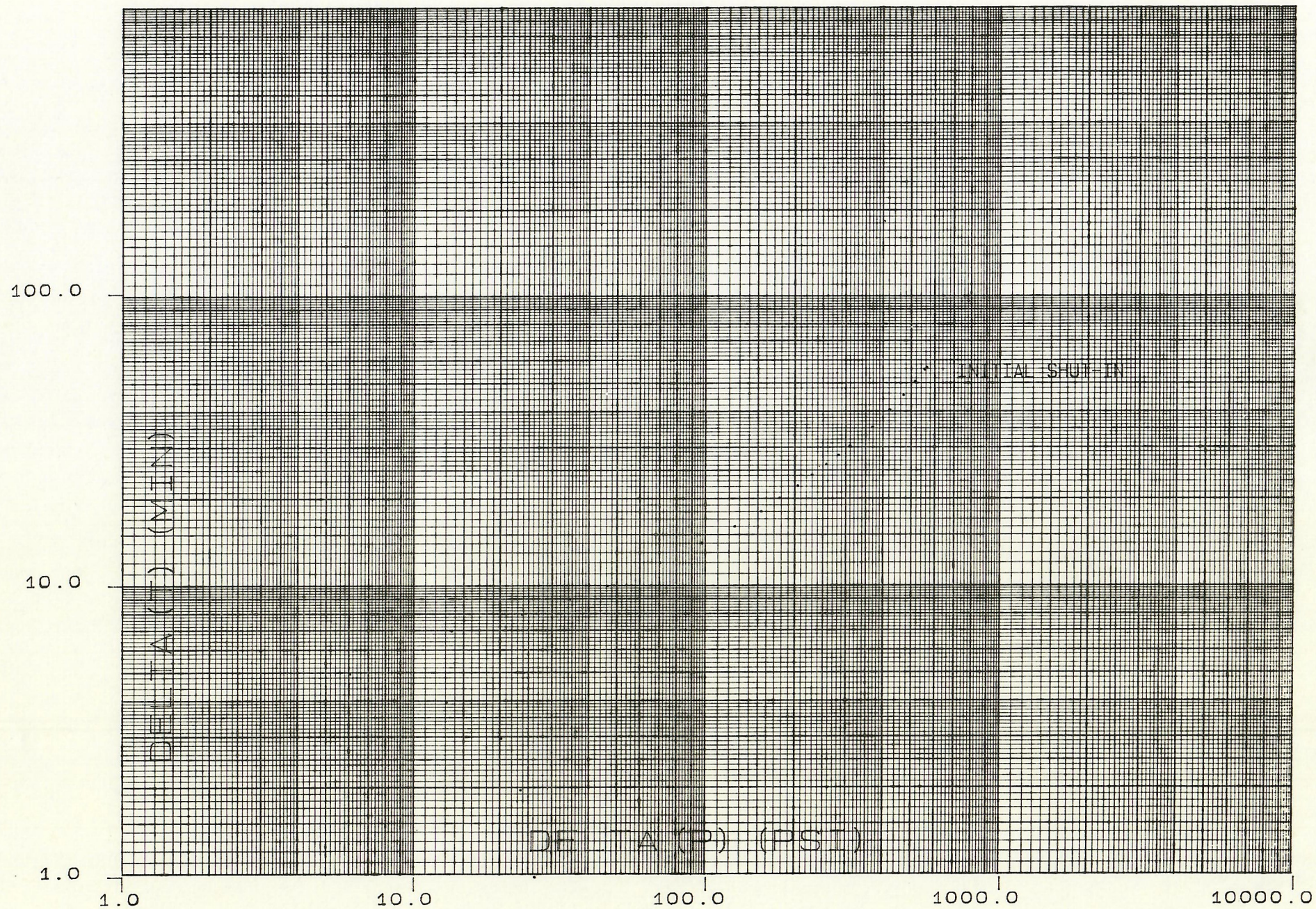
INITIAL FLOW TIME: T = 71 MIN.

<u>DT(MIN)</u>	<u>LOG((T+DT)/DT)</u>	<u>PRESSURE(P SIG)</u>	<u>DP(P SIG)</u>
0		284.2	0.0
1	1.857	258.1	-26.1
2	1.562	260.9	-23.3
3	1.392	264.2	-20.0
4	1.273	271.2	-13.0
5	1.182	278.2	-6.0
6	1.108	287.2	3.0
7	1.047	297.8	13.6
8	0.995	307.9	23.7
9	0.949	318.4	34.1
10	0.908	330.2	46.0
12	0.840	354.0	69.8
14	0.783	381.0	96.8
16	0.735	409.3	125.0
18	0.694	437.3	153.1
20	0.658	461.3	177.1
22	0.626	488.2	204.0
24	0.598	513.4	229.2
26	0.572	540.9	256.7
28	0.548	566.8	282.6
30	0.527	593.1	308.8
35	0.481	652.9	368.7
40	0.443	705.4	421.2
45	0.411	754.2	470.0
50	0.384	798.2	514.0
55	0.360	838.7	554.5
56	0.356	846.8	562.6

EXTRAPOLATED PRESSURE: INDETERMINATE



# LOG/LOG PLOT



GAUGE NO. 13483 @ 5197 FT.

