

Phone  
713-790-9132

# LYNES, INC.

Box 12486  
Houston, TX 77017

Contractor Resource Drilling, Inc. Top Choke 1/2" & 1/4"  
Rig No. 23 Bottom Choke --  
Spot 2180' FSL & 660' FEL Size Hole 7 7/8"  
Sec. 27 Size Rat Hole --  
Twp. 15 S Size & Wt. D. P. 4 1/2" 16.60  
Rng. 30 E Size Wt. Pipe --  
Field Wildcat I. D. of D. C. 2 1/4"  
County Chaves Length of D. C. 470'  
State New Mexico Total Depth 11,420'  
Elevation 4085' KB Interval Tested 10,113'-10,287'  
Formation -- Type of Test Inflate  
Straddle

Flow No. 1 15 Min.  
Shut-in No. 1 120 Min.  
Flow No. 2 30 Min.  
Shut-in No. 2 240 Min.  
Flow No. 3 -- Min.  
Shut-in No. 3 -- Min.

Bottom  
Hole Temp. 175° F  
Mud Weight 9.3  
Gravity --  
Viscosity 39

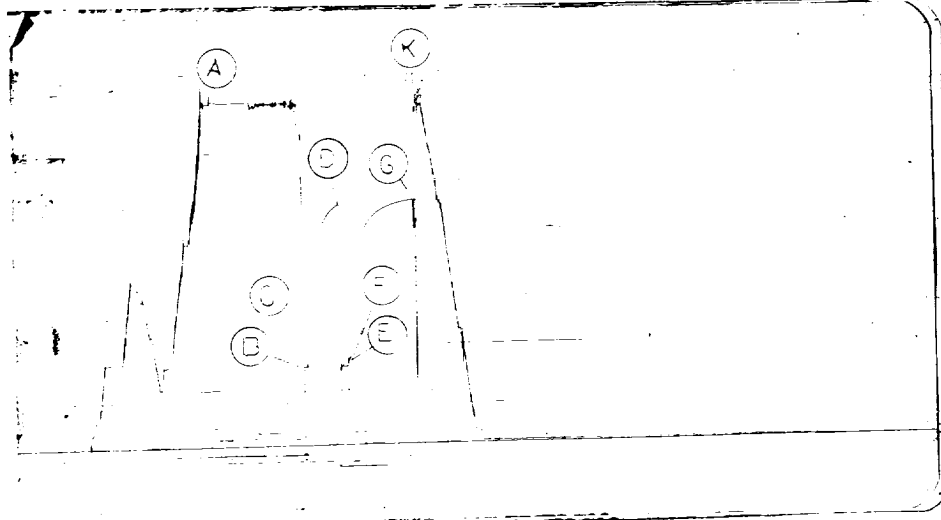
Tool opened @ 2:05 pm

## Outside Recorder

PRD Make Kuster K-3  
No 22722 Cap. 6625 @ 10,121'

|                     | Press | Corrected |
|---------------------|-------|-----------|
| Initial Hydrostatic | A     | 4940      |
| Final Hydrostatic   | K     | 4893      |
| Initial Flow        | B     | 1119      |
| Final Initial Flow  | C     | 1122      |
| Initial Shut-in     | D     | 3445      |
| Second Initial Flow | E     | 1119      |
| Second Final Flow   | F     | 1119      |
| Second Shut-in      | G     | 3501      |
| Third Initial Flow  | H     | --        |
| Third Final Flow    | I     | --        |
| Third Shut-in       | J     | --        |

Lynes Dist. Hobbs, N.M.  
Our Tester: Steve McKinney  
Witnessed By R. DeLaMerionere



Did Well Flow - Gas No Oil No Water No

RECOVERY IN PIPE: 2046' Total fluid (ran 2500' water cushion)  
1209' Water cushion = 17.16 bbl.  
837' Drilling fluid = 7.51 bbl.

Top Sample R.W.: 2.0 @ 50°F = 4,000 ppm. Cl.  
Middle Sample R.W.: .2 @ 52°F = 45,000 ppm. Cl.  
Bottom Sample R.W.: .5 @ 56°F = 15,000 ppm. Cl.

## Blow description:

1st flow:

Tool opened with a very weak blow, died and remained thru flow period.

2nd flow:

Tool opened with no blow and remained thru flow period.

Address See Distribution

Ticket No.

40948

Date

1-25-83

No. Final Copies 15

Operator Hilliard Oil & Gas, Inc.

Well Name and No. McClellan Federal #1

DST No.

6

# LYNES, INC.

Hilliard Oil & Gas, Inc.

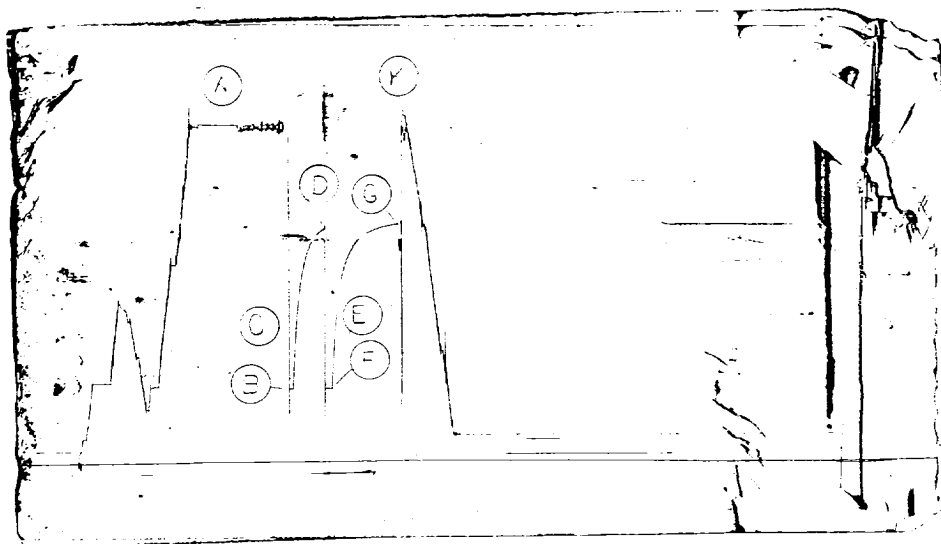
McClellan Federal #1

6

Operator

Well Name and No.

DST No.



Outside Recorder

PRD Make Kuster K-3

No. 16814 Cap. 6650 @ 10,121

Press Corrected

|                     |   |      |
|---------------------|---|------|
| Initial Hydrostatic | A | 4934 |
| Final Hydrostatic   | K | 4858 |
| Initial Flow        | B | 1106 |
| Final Initial Flow  | C | 1106 |
| Initial Shut-in     | D | 3407 |
| Second Initial Flow | E | 1103 |
| Second Final Flow   | F | 1103 |
| Second Shut-in      | G | 3461 |
| Third Initial Flow  | H | --   |
| Third Final Flow    | I | --   |
| Third Shut-in       | J | --   |

Pressure Below Bottom  
Packer Bled To

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 |  |

Pressure Below Bottom  
Packer Bled To

WELL NAME: NOBLEMAN FEMALE 1

DST NUMBER: 006

RECORDER NUMBER: 022722

INTERVAL TESTED: 10113FT TO 10287FT

RECORDER DEPTH: 10121.000FT

TOTAL FLOW TIME: 15.0MIN

FIRST SHUT IN PRESSURE (LIQUID)

| TIME (MIN) | (T+PHI) | PRESSURE |
|------------|---------|----------|
| PHI        | /PHI    | (PSI)    |
| .0         | .0000   | 1122.0   |
| 1.0        | 16.0000 | 1205.0   |
| 2.0        | 8.5000  | 1285.0   |
| 3.0        | 6.0000  | 1382.0   |
| 4.0        | 4.7500  | 1459.0   |
| 5.0        | 4.0000  | 1555.0   |
| 6.0        | 3.5000  | 1621.0   |
| 7.0        | 3.1429  | 1709.0   |
| 8.0        | 2.8750  | 1734.0   |
| 9.0        | 2.6667  | 1836.0   |
| 10.0       | 2.5000  | 1877.0   |
| 12.0       | 2.2500  | 1996.0   |
| 14.0       | 2.0714  | 2107.0   |
| 16.0       | 1.9375  | 2195.0   |
| 18.0       | 1.8333  | 2289.0   |
| 20.0       | 1.7500  | 2353.0   |
| 22.0       | 1.6818  | 2419.0   |
| 24.0       | 1.6250  | 2485.0   |
| 26.0       | 1.5769  | 2557.0   |
| 28.0       | 1.5357  | 2602.0   |
| 30.0       | 1.5000  | 2654.0   |
| 35.0       | 1.4286  | 2771.0   |
| 40.0       | 1.3750  | 2867.0   |
| 45.0       | 1.3333  | 2953.0   |
| 50.0       | 1.3000  | 3022.0   |
| 55.0       | 1.2727  | 3085.0   |
| 60.0       | 1.2500  | 3135.0   |
| 70.0       | 1.2143  | 3224.0   |
| 80.0       | 1.1875  | 3293.0   |
| 90.0       | 1.1667  | 3346.0   |
| 100.0      | 1.1500  | 3384.0   |
| 110.0      | 1.1364  | 3420.0   |
| 120.0      | 1.1250  | 3445.0   |

THE INITIAL SHUT-IN PRESSURE BUILD-UP CURVE HAS BEEN INCREMENTED AND PLOTTED, BUT AN EXTRAPOLATED PRESSURE HAS NOT BEEN MADE DUE TO INSUFFICIENT CHARACTER OF THE BUILD-UP CURVE.

WELL NAME:                      WELLER, F.                      1

DST NUMBER:                      006

RECORDER NUMBER: 022722

INTERVAL TESTED: 10113FT                      TO 10287FT

RECORDER DEPTH: 10121.000FT

TOTAL FLOW TIME: 45.0MIN

SECOND SHUT IN PRESSURE (LIQUID)

| TIME (MIN) | (T+PHI) | PRESSURE |
|------------|---------|----------|
| PHI        | /PHI    | (PSI)    |
| .0         | .0000   | 1119.0   |
| 1.0        | 46.0000 | 1164.0   |
| 2.0        | 23.5000 | 1225.0   |
| 3.0        | 16.0000 | 1321.0   |
| 4.0        | 12.2500 | 1387.0   |
| 5.0        | 10.0000 | 1475.0   |
| 6.0        | 8.5000  | 1558.0   |
| 7.0        | 7.4286  | 1624.0   |
| 8.0        | 6.6250  | 1693.0   |
| 9.0        | 6.0000  | 1753.0   |
| 10.0       | 5.5000  | 1828.0   |
| 12.0       | 4.7500  | 1927.0   |
| 14.0       | 4.2143  | 2021.0   |
| 16.0       | 3.8125  | 2115.0   |
| 18.0       | 3.5000  | 2201.0   |
| 20.0       | 3.2500  | 2298.0   |
| 22.0       | 3.0455  | 2372.0   |
| 24.0       | 2.8750  | 2439.0   |
| 26.0       | 2.7308  | 2494.0   |
| 28.0       | 2.6071  | 2541.0   |
| 30.0       | 2.5000  | 2594.0   |
| 40.0       | 2.1250  | 2795.0   |
| 50.0       | 1.9000  | 2939.0   |
| 60.0       | 1.7500  | 3047.0   |
| 70.0       | 1.6429  | 3130.0   |
| 80.0       | 1.5625  | 3196.0   |
| 90.0       | 1.5000  | 3249.0   |
| 100.0      | 1.4500  | 3290.0   |
| 110.0      | 1.4091  | 3321.0   |
| 120.0      | 1.3750  | 3348.0   |
| 130.0      | 1.3462  | 3373.0   |
| 140.0      | 1.3214  | 3393.0   |
| 150.0      | 1.3000  | 3412.0   |
| 160.0      | 1.2813  | 3426.0   |
| 170.0      | 1.2647  | 3442.0   |
| 180.0      | 1.2500  | 3454.0   |

CONTINUED ON NEXT PAGE

| TIME (MIN)<br>PHI | (T+PHI)<br>/PHI | PRESSURE<br>(PSI) |
|-------------------|-----------------|-------------------|
| 190.0             | 1.2368          | 3465.0 *          |
| 200.0             | 1.2250          | 3473.0 *          |
| 210.0             | 1.2143          | 3481.0 *          |
| 220.0             | 1.2045          | 3488.0 *          |
| 230.0             | 1.1957          | 3495.0 *          |
| 240.0             | 1.1875          | 3501.0 *          |

\* VALUES USED IN HORNER ANALYSIS

SLOPE: 2047.11242 PSI/CYCLE

EXTRAPOLATED PRESSURE: 3653.7 PSI

# HORNER PLOT

WELL NAME: MOOLELLAN, FEDERAL 1

LOCATION:

TEST NO: 006

REC NO: 022722

SHUT-IN:

EXTRAPOLATED PRESSURE:

SLOPE:

t:

15.0 MIN

TEST DATE: 01 25 83

1200  
1600  
2000  
2400  
2800  
3200  
3600

PRESSURE PSI LIQUID

2.5

5

10  
TIME (t+Δt) / Δt

25

50

100

# HORNER PLOT

WELL NAME: MCQUELLAN FEDERAL 1

LOCATION:

DST-NO:

006

REC-NO:

022722

SHUT-IN: 2

EXTRAPOLATED PRESSURE: 3653.68627 PSI

SLOPE:

2047.11242 PSI/CYCLE

T:

45.0 MIN

IESI DATE: 01 25 83

4000  
3500  
3000  
2500  
2000  
1500  
1000

PRESSURE PSI LIQUID

2.5

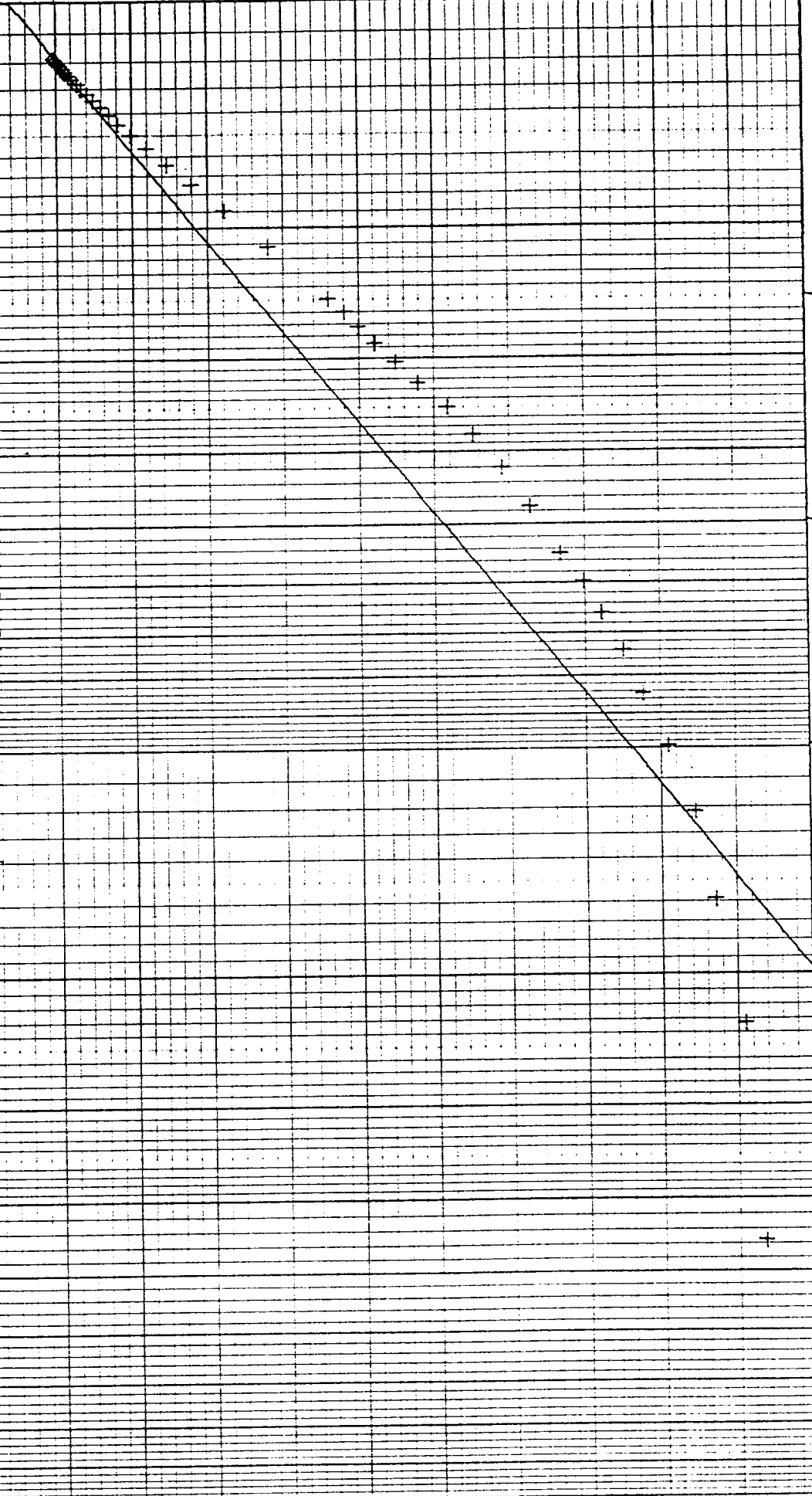
TIME (T+ΔT)/ΔT

10

25

50

100



# LYNES, INC.

## Sampler Report

Company Hilliard Oil & Gas, Inc. Date 1-25-83  
Well Name & No. McClellan Federal #1 Ticket No. 40948  
County Chaves State New Mexico  
Test Interval 10,113-10,287' DST No. 6

Total Volume of Sampler: 2000 cc.  
Total Volume of Sample: 1000 cc.  
Pressure in Sampler: 60 psig  
Oil: None cc.  
Water: None cc.  
Mud: 1000 Drilling fluid cc.  
Gas: None cu. ft.  
Other: None

### Resistivity

Make Up Water \_\_\_\_\_ @ \_\_\_\_\_ Salinity Content \_\_\_\_\_ ppm.  
Mud Pit Sample \_\_\_\_\_ @ \_\_\_\_\_ Salinity Content 14,000 ppm.  
Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ °F  
Where was sample drained On location

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