

30-015-32674

RECEIVED

Submit in duplicate to appropriate district office. See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

JUN 04 2004

Form C-122
Revised October, 1999

OB-ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator **MEWBOURNE OIL CO.** Lease or Unit Name **ALACRAN HILLS 11 FED COM**

Type Test Initial Annual Special Test Date _____ Well No. **1**

Completion Date **4/17/04** Total Depth **11770** Plug Back TD **11695** Elevation _____ Unit Ltr - Sec - TWP - Rge **E 11 21S 27E**

Csg. Size **5 1/2** Wt. **17** d **4.892** Set At **11770** Perforations: From: **11586** To: **11594** County **EDDY**

Tbg. Size **2 7/8** Wt. **6.5** d **2.441** Set At **11254** Perforations: From: _____ To: _____ Pool _____

Type Well-Single-Bradenhead-G.G. or G.O. Multiple **SINGLE** Packer Set At **11246** Formation **MORROW**

Producing Thru TUBING Reservoir Temp. **181** Mean Annual Temp. **60** Baro. Press.-P_s **13.2** Connection **SALES**

L **11254** H **11254** Gg **0.595** %CO₂ **1.018** %N₂ **0.251** %H₂S _____ Prover _____ Meter Run **3.067** Taps **FLG**

| FLOW DATA | | | | TUBING DATA | | | | CASING DATA | | | Duration of Flow |
|-----------|------------------|--------------|----------------|----------------------|-------|----------------|-------|----------------|-------|--------|------------------|
| No. | Prover Line Size | Orifice Size | Press p.s.i.g. | Diff. h _w | Temp. | Press p.s.i.g. | Temp. | Press p.s.i.g. | Temp. | | |
| SI | | | | | | 2390 | | | | | |
| 1 | 3.0678 X | 1.250 | 473 | 10 | 75 | 1800 | | | | 24 HRS | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |

RATE OF FLOW CALCULATIONS

| No. | COEFFICIENT (24 Hour) | $\sqrt{h_w P_m}$ | Pressure P _m | Flow Temp. Factor Ft. | Gravity Factor F _g | Super Compress Factor F _{pv} | Rate of Flow Q, Mcfd |
|-----|-----------------------|------------------|-------------------------|-----------------------|-------------------------------|---------------------------------------|----------------------|
| 1 | | | | | | | 662 |
| 2 | TOTAL | FLOW | METER | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |

| No. | P _r | Temp. R | T _r | Z | Gas Liquid Hydrocarbon Ratio | Mcf bbl. |
|-----|----------------|---------|----------------|---|--------------------------------|----------|
| 1 | | | | | N/A | |
| 2 | | | | | N/A | Deg. |
| 3 | TOTAL | FLOW | METER | | 0.595 | XXXXXXX |
| 4 | | | | | XXXXX | |
| 5 | | | | | Critical Pressure 675 P.S.I.A. | P.S.I.A. |
| | | | | | Critical Temperature 350 R. | R |

| No. | P _t ² | P _w | P _w ² | P _c ² - P _w ² | (1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.327}{2.327}$ | (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.327}{2.327}$ |
|-----|-----------------------------|----------------|-----------------------------|---|---|--|
| 1 | | 1814.8 | 3293.4 | 2482 | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.54$

Absolute Open Flow **1.54** Mcfd @ 15.025 Angle of Slope (°) **45** Slope n: **1**

Remarks: *** NO LIQUID MADE DURING TEST.**

Approved By Division: _____ Conducted By: **PRO WELL TESTING** Calculated By: **MERV BUECKER** Checked By: **BM**

MEWBOURNE OIL CO.
ALACRAN HILLS "11" FEE COM #1



