dst

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

Form C-122
Revised October, 1999

30-015-21813

RECEIVED
OCD ARTESIA

# MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

| | | | |
|---|---|---|---|
| Operator: OXY USA | | Lease or Unit Name: STATE CU | |
| Type Test: ☑ Initial ☐ Annual ☐ Special | | Test Date: 6/23/00 | Well No.: #1 |
| Completion Date: 3-29-00 | Total Depth: 11385 | Plug Back TD: 10999 | Elevation: | Unit Ltr - Sec - TWP - Rge: B 36 20S 27E |
| Csg. Size: 5 1/2 / Wt.: 17# / d: 4.892 / Set At: 11385 | Perforations: From: 10068 To: 10077 | | | County: EDDY |
| Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 9994 | Perforations: From: To: | | | Pool: W Burton Flat Strawn |
| Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE | Packer Set At: | | | Formation: STRAWN |
| Producing Thru: Tbg. Size | Reservoir Temp. °F: 170.6 | Mean Annual Temp. °F: 60 | Baro. Press.-$P_a$: 13.2 | | Connection: SALES |

| L | H | Gg | %$CO_2$ | %$N_2$ | %$H_2S$ | Prover | Meter Run | Taps |
|---|---|---|---|---|---|---|---|---|
| 9994 | 9994 | 0.705 | 0.322 | 0.982 | N/A | N/A | 4.028 | FLG |

| | FLOW DATA | | | | TUBING DATA | | CASING DATA | | |
|---|---|---|---|---|---|---|---|---|---|
| No. | Prover Line Size x Orifice Size | Press p.s.i.g. | Diff. $h_w$ | Temp. °F | Press p.s.i.g. | Temp. °F | Press p.s.i.g. | Temp. °F | Duration of Flow |
| SI | | | | | 1210 | N/A | PKR | N/A | |
| 1 | 4.028 X2.50 | 27 | 1 | 108 | 1184 | | | | 1 HR. |
| 2 | 4.028 X2.50 | 29 | 4 | 104 | 1152 | | | | 1 HR. |
| 3 | 4.028 X2.50 | 37 | 11 | 98 | 1074 | | | | 1 HR. |
| 4 | 4.028 X2.50 | 43 | 37 | 83 | 938 | | | | 1 HR. |
| 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 | | | | | | | 207 |
| 2 | GAS VOLUMES | MEASURED | BY | TOTAL | FLOW | METER | 405 |
| 3 | | | | | | | 766 |
| 4 | | | | | | | 1534 |
| 5 | | | | | | | |

| No. | $P_r$ | Temp. °R | $T_r$ | Z |
|---|---|---|---|---|
| 1 | | | | |
| 2 | TOTAL | FLOW | METER | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

Gas Liquid Hydrocarbon Ratio: N/A Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: 0.705 XXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 388 R. ____ R

$P_c$ 1263.9 $P_c^2$ 1597.4

| No. | $P_t^2$ | $P_w$ | $P_w^2$ | $P_c^2 - P_w^2$ |
|---|---|---|---|---|
| 1 | | 1238.8 | 1534.6 | 62.8 |
| 2 | | 1213.5 | 1472.6 | 128.8 |
| 3 | | 1154.7 | 1333.3 | 264.1 |
| 4 | | 1007.1 | 1014.3 | 583.1 |
| 5 | | | | |

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.73$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.45$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3758.3$

Absolute Open Flow: 3758.3 Mcfd @ 15.025 | Angle of Slope (): 48.15 | Slope n: 0.8954

Remarks: *CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES / NO LIQUID MADE DURING TEST.

| Approved By Division: | Conducted By: | Calculated By: | Checked By: |
|---|---|---|---|
| | PRO WELL TESTING | MB | BM |