## FLUID SAMPLE DATA

| | |
|---|---|
| Sampler Pressure | 100 P.S.I.G. at Surface |
| Recovery: Cu. Ft. Gas | 2/10 |
| cc. Oil | 150 |
| cc. Water | 2250 |
| cc. Mud | |
| Tot. Liquid cc. | 2400 |
| Gravity | 38.2° API @ 60 °F. |
| Gas/Oil Ratio | cu. ft./bbl. |

| | RESISTIVITY | | | CHLORIDE CONTENT |
|---|---|---|---|---|
| Recovery Water | @ °F. | | | ppm |
| Recovery Mud | @ °F. | | | |
| Recovery Mud Filtrate | 316 @ 68 °F. | | | 20,000 ppm |
| Mud Pit Sample | @ °F. | | | |
| Mud Pit Sample Filtrate | @ °F. | | | 4000 ppm |
| Mud Weight | 8.4 vis | 37 cp | | |

| | |
|---|---|
| Date | 12-3-71 |
| Ticket Number | 342634 |
| Kind of Job | OPEN HOLE |
| Halliburton District | LOVINGTON |
| Tester | HARTLEY |
| Witness | WOLFE |
| Drilling Contractor | MORAN DRILLING COMPANY NM S |

## EQUIPMENT & HOLE DATA

| | | | |
|---|---|---|---|
| Formation Tested | Abo Reef | | |
| Elevation | 3691' K.B. | | Ft. |
| Net Productive Interval | 20' | | Ft. |
| All Depths Measured From | Kelly Bushing | | |
| Total Depth | 8386' | | Ft. |
| Main Hole/Casing Size | 7.875" | | |
| Drill Collar Length | 532' | I.D. 2.25" | |
| Drill Pipe Length | 7800' | I.D. 3.826" | |
| Packer Depth(s) | 8359' - 8364' | | Ft. |
| Depth Tester Valve | 8330' | | Ft. |

Cushion TYPE NONE AMOUNT Ft. Depth Back Pres. Valve NONE Surface Choke 1" ADJ. Bottom Choke NONE

Recovered 150' Feet of gas cut oil

Recovered 3254' Feet of gas

Recovered 30' Feet of gas cut mud

Recovered 273' Feet of formation water

Recovered Feet of

Meas. From Tester Valve

Remarks: Tool opened for a 16 minute first flow with a good blow. Rotated tool for a 58 minute first closed in pressure. Tool reopened with a weak blow increasing to a strong blow in 5 minutes. Took a 119 minute second closed in pressure. (Ratchet type hydrospring)

| TEMPERATURE | Gauge No. 731 Depth: 8344' Ft. | | Gauge No. 255 Depth: 8382' Ft. | | Gauge No. Depth: Ft. | | TIME |
|---|---|---|---|---|---|---|---|
| | 24 Hour Clock | | 24 Hour Clock | | Hour Clock | | Tool Opened A.M. 4:30 |
| Est. 124 °F. | Blanked Off NO | | Blanked Off YES | | Blanked Off | | Tool Closed A.M. 9:45 |
| Actual °F. | Pressures | | Pressures | | Pressures | | |
| | Field | Office | Field | Office | Field | Office | Reported Minutes / Computed Minutes |
| Initial Hydrostatic | 3764 | 3741 | 3773 | 3759 | | | |
| First Period Flow Initial | 43 | 52 | 43 | 53 | | | — / — |
| First Period Flow Final | 72 | 57 | 72 | 73 | | | 15 / 16 |
| First Period Closed in | 3121 | 3127 | 3108 | 3145 | | | 60 / 58 |
| Second Period Flow Initial | 86 | 83 | 86 | 100 | | | — / — |
| Second Period Flow Final | 215 | 203 | 215 | 222 | | | 120 / 122 |
| Second Period Closed in | 3078 | 3077 | 3094 | 3095 | | | 120 / 119 |
| Third Period Flow Initial | | | | | | | — / — |
| Third Period Flow Final | | | | | | | |
| Third Period Closed in | | | | | | | |
| Final Hydrostatic | 3750 | 3724 | 3759 | 3737 | | | — / — |

Lease Name: SAMEDAN - MONTGOMERY Well No. 1 Test No. 4 Tested Interval 8364' - 8386'

Legal Location Sec. - Twp. - Rng. 19 - 16S - 39E Field Area RUSSELL County LEA State NEW MEXICO

Lease Owner/Company Name: W. B. OSBORNE, JR.