

| FLUID SAMPLE DATA | | | | Date 4-11-80 | | Ticket Number 716090 | |
|---|--|------------------------|--|--|--|----------------------------|--|
| Sampler Pressure 1100 | | P.S.I.G. at Surface | | Kind of D.S.T. OPEN HOLE | | Halliburton Location HOBBS | |
| Recovery: Cu. Ft. Gas 4.5 | | | | Tester WAYNE FLETCHER | | Witness WHEELER | |
| cc. Oil | | | | Drilling Contractor REAL # 7 | | NM S | |
| cc. Water | | | | EQUIPMENT & HOLE DATA | | | |
| cc. Mud | | | | Formation Tested UTSCO | | | |
| Tot. Liquid cc. 4.5 Cu. Ft. gas | | | | Elevation 4402' Ft. | | | |
| Gravity _____ ° API @ _____ ° F. | | | | Net Productive Interval 14' Ft. | | | |
| Gas/Oil Ratio _____ cu. ft./bbl. | | | | All Depths Measured From Kelly Bushing | | | |
| RESISTIVITY | | CHLORIDE CONTENT | | Total Depth 7900' Ft. | | | |
| Recovery Water _____ @ _____ ° F. _____ ppm | | | | Main Hole/Casing Size 7 7/8" | | | |
| Recovery Mud _____ @ _____ ° F. _____ ppm | | | | Drill Collar Length 293' I.D. 2.25" | | | |
| Recovery Mud Filtrate _____ @ _____ ° F. _____ ppm | | | | Drill Pipe Length 7242' I.D. 3.826" | | | |
| Mud Pit Sample _____ @ _____ ° F. _____ ppm | | | | Packer Depth(s) 7569' - 7575' Ft. | | | |
| Mud Pit Sample Filtrate _____ @ _____ ° F. _____ ppm | | | | Depth Tester Valve 7537' Ft. | | | |
| Mud Weight 10 vis 74 sec. | | | | | | | |
| TYPE AMOUNT | | Depth Back Pres. Valve | | Surface Choke | | Bottom Choke | |
| Cushion NONE | | NONE | | 1" ADJ. | | .75" | |
| Recovered 20 barrel feet of gas cut mud (REVERSED OUT) | | | | | | | |
| Recovered Feet of | | | | | | | |
| Recovered Feet of | | | | | | | |
| Recovered Feet of | | | | | | | |
| Recovered Feet of | | | | | | | |
| Remarks CHARTS INDICATE PARTIAL PLUGGING OF ANCHOR PERFORATIONS DURING THE INITIAL FLOW PERIOD. Q = QUESTIONABLE. | | | | | | | |
| SEE PRODUCTION TEST DATA SHEET... | | | | | | | |
| | | | | | | | |
| TEMPERATURE | | Gauge No. 731 | | Gauge No. 255 | | Gauge No. | |
| Depth: 7555' Ft. | | Depth: 7896' Ft. | | Depth: Ft. | | TIME (00:00-24:00 hrs.) | |
| Est. 152 ° F. | | 24 Hour Clock | | 24 Hour Clock | | Hour Clock | |
| Blanked Off NO | | Blanked Off YES | | Blanked Off | | Tool Opened 20:21 | |
| Actual ° F. | | Pressures | | Pressures | | Pressures | |
| | | Field Office | | Field Office | | Field Office | |
| Initial Hydrostatic | | 3947 3968.6 | | 4158 4161.0 | | Reported Minutes | |
| First Period Flow Initial | | 651 939.0-Q | | 709 1047.8-Q | | Computed Minutes | |
| Flow Final | | 1078 1077.9 | | 1104 1557.9 | | 30 30 | |
| Closed in | | 2579 2596.8 | | 2600 2660.5 | | 59 59 | |
| Second Period Flow Initial | | 1049 1077.9 | | 1076 1473.2 | | 90 81 | |
| Flow Final | | 1460 1429.1 | | 1555 1542.3 | | 482 491 | |
| Closed in | | 2579 2594.0 | | 2657 2678.9 | | | |
| Third Period Flow Initial | | | | | | | |
| Flow Final | | | | | | | |
| Closed in | | | | | | | |
| Final Hydrostatic | | 3918 3710.8 | | 4045 3871.0-Q | | | |

Legal Location
Sec. - Twp. - Rng.

11 - 6S - 33E

Lease Name

Well No.

Test No.

Tested Interval

Field Area
WILDCAT

County

ROOSEVELT

State

NEW MEXICO

7575' - 7900'
ENERGY RESERVES GROUP, INCORPORATED
Lease Owner/Company Name

Casing perms. _____ Bottom choke _____ Surf. temp _____ °F Ticket No. 716090
 Gas gravity _____ Oil gravity _____ GOR _____
 Spec. gravity _____ Chlorides _____ ppm Res. _____ @ _____ °F
 INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED _____

| Date Time | a.m. p.m. | Choke Size | Surface Pressure psi | Gas Rate MCF | Liquid Rate BPD | Remarks |
|--------------|--------------|----------------|----------------------------|--------------------|-----------------------|--|
| 4-11-80 | | | | | | |
| 22:00 | | | | | | On location. |
| 03:00 | | | | | | Picked up the tools. |
| 06:33 | | | | | | Started tools in the hole. |
| 07:30 | | | | | | Shut down - waiting on rig crew. |
| 08:00 | | | | | | Bad weather - shut down - no rig crew. |
| 16:45 | | | | | | Re-wound the clocks. |
| 17:44 | | | | | | Started tools in the hole. |
| 20:21 | | BUBBLE HOSE | | | | Opened tools with a good blow. |
| 20:31 | | 1/4" | 50 | | | Pressure was increasing. |
| 20:36 | | 1/4" | 75 | | | " |
| 20:37 | | 1/4" | 95 | | | Gas to the surface in 16 minutes. |
| 20:41 | | 3/8" | 120 | | | Changed to 3/8" choke. |
| 20:46 | | " | 110 | | | Pressure was decreasing. |
| 20:51 | | " | 105 | | | Closed tool. |
| 21:50 | | " | 40 | | | Opened tool - no PSI. |
| 22:00 | | " | 25 | | | Heading. |
| 22:10 | | " | 180 | | | Fluid to the surface. |
| 22:20 | | " | 400 | | | Pressure was increasing. |
| 22:30 | | " | 470 | | | " |
| 22:40 | | " | 550 | | | " |
| 22:44 | | | | | | Closed in surface valve - flare out. |
| 22:52 | | 3/8" | 700 | | | Pressure was increasing - reopened. |
| 23:00 | | " | 600 | | | Blowing out the flare. |
| 23:20 | | " | 750 | | | Closed tool. |
| 4-13-80 | | | | | | |
| 07:22 | | | | | | Pulled loose and jarred. |
| 07:35 | | | | | | Tried reversing out - no good. |
| 11:30 | | | | | | Pulled out of the hole... |

PRESSURE

716090-121^{*}

TIME

716090-255^{*}

Each Horizontal Line Equal to 1000 p.s.i.