

| FLUID SAMPLE DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                 |  | Date 1-6-80                                                                                                                                                                                          |  | Ticket Number 624695 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|--|
| Sampler Pressure _____ P.S.I.G. at Surface<br>Recovery: Cu. Ft. Gas _____<br>cc. Oil _____<br>cc. Water _____<br>cc. Mud 2200 _____<br>Tot. Liquid cc. _____<br>Gravity _____ ° API @ _____ °F.<br>Gas/Oil Ratio _____ cu. ft./bbl.<br>RESISTIVITY                      CHLORIDE CONTENT<br>Recovery Water @ _____ °F. _____ ppm<br>Recovery Mud @ _____ °F. _____ ppm<br>Recovery Mud Filtrate @ _____ °F. _____ ppm<br>Mud Pit Sample @ _____ °F. 500 ppm<br>Mud Pit Sample Filtrate @ _____ °F. _____ ppm<br>Mud Weight 9.0 vis 42 Sec. _____ |  |                 |  | Kind of Job ON BOTTOM STRADDLE<br>OPEN HOLE PACKER DST Halliburton District LAMAR<br>Tester MR. RUDDICK                      Witness MR. LARSON<br>Drilling Contractor J. SNYDER DRILLING COMPANY BC |  |                      |  |
| EQUIPMENT & HOLE DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                 |  |                                                                                                                                                                                                      |  |                      |  |
| Formation Tested Dakota                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |  | Elevation 6305' GL Ft.                                                                                                                                                                               |  |                      |  |
| Net Productive Interval 25'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                 |  | Ft.                                                                                                                                                                                                  |  |                      |  |
| All Depths Measured From 6315' Kelly Bushing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                 |  | Ft.                                                                                                                                                                                                  |  |                      |  |
| Total Depth 3058'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                 |  | Ft.                                                                                                                                                                                                  |  |                      |  |
| Main Hole/Casing Size 7 7/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                 |  | Ft.                                                                                                                                                                                                  |  |                      |  |
| Drill Collar Length 286'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                 |  | I.D. 2.25"                                                                                                                                                                                           |  |                      |  |
| Drill Pipe Length 2559'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |  | I.D. 4.276"                                                                                                                                                                                          |  |                      |  |
| Packer Depth(s) 2869' - 2875' - 2920' - 2926'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                 |  | Ft.                                                                                                                                                                                                  |  |                      |  |
| Depth Tester Valve 2849'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                 |  | Ft.                                                                                                                                                                                                  |  |                      |  |
| TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | AMOUNT          |  | Depth Back Pres. Valve                                                                                                                                                                               |  | Surface Choke        |  |
| Cushion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |  | Ft.                                                                                                                                                                                                  |  | Bottom Choke 3/4"    |  |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 45 Feet of      |  | Muddy water                                                                                                                                                                                          |  |                      |  |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 2013 Feet of    |  | Water                                                                                                                                                                                                |  |                      |  |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Feet of         |  |                                                                                                                                                                                                      |  |                      |  |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Feet of         |  |                                                                                                                                                                                                      |  |                      |  |
| Recovered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Feet of         |  |                                                                                                                                                                                                      |  |                      |  |
| Remarks SEE PRODUCTION TEST DATA SHEET.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |  |                                                                                                                                                                                                      |  |                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                 |  |                                                                                                                                                                                                      |  |                      |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                 |  |                                                                                                                                                                                                      |  |                      |  |
| TEMPERATURE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Gauge No. 534   |  | Gauge No. 533                                                                                                                                                                                        |  | Gauge No. 3/4        |  |
| Depth:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 2851' Ft.       |  | 2916' Ft.                                                                                                                                                                                            |  | 3054' Ft.            |  |
| Est. °F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 12 Hour Clock   |  | 12 Hour Clock                                                                                                                                                                                        |  | 12 Hour Clock        |  |
| Blanked Off NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | Blanked Off YES |  | Blanked Off YES                                                                                                                                                                                      |  | Tool 1250 A.M.       |  |
| Actual 80 °F.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Pressures       |  | Pressures                                                                                                                                                                                            |  | Pressures            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Field Office    |  | Field Office                                                                                                                                                                                         |  | Field Office         |  |
| Initial Hydrostatic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 1308.7 1337     |  | 1336.8 1407.4                                                                                                                                                                                        |  | Reported Minutes     |  |
| First Period Flow Initial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 109.0 185       |  | 130.6                                                                                                                                                                                                |  | Computed Minutes     |  |
| Final                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 315.1 343       |  | 357.5                                                                                                                                                                                                |  | 15 13                |  |
| Closed in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 1290.2 1298     |  | 1315.9                                                                                                                                                                                               |  | 45 44                |  |
| Second Period Flow Initial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 297.8 343       |  | 327.1                                                                                                                                                                                                |  | 60 62                |  |
| Final                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 886.2 906       |  | 911.2                                                                                                                                                                                                |  | 60 63                |  |
| Closed in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 1279.6 1298     |  | 1308.0                                                                                                                                                                                               |  |                      |  |
| Third Period Flow Initial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                      |  |                      |  |
| Final                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                 |  |                                                                                                                                                                                                      |  |                      |  |
| Closed in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                      |  |                      |  |
| Final Hydrostatic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 1308.7 1337     |  | 1336.8                                                                                                                                                                                               |  | 1407.4               |  |