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O. C. C.  
ARTESIA, OFFICE

Attachment - 9-330

Gulf Oil Corporation - Hackberry Hills Unit No. 1-0, Sec. 1, T-22-S, R-25-E

DEVIATIONS - TOTCO SURVEYS

|              |              |                |
|--------------|--------------|----------------|
| 1/2 - 275'   | 1 - 6175     | 2 - 9480'      |
| 1/4 - 460    | 1-1/4 - 6420 | 3 - 9780       |
| 1/4 - 700    | 2 - 6685     | 3 - 9830       |
| 1/4 - 890    | 2 - 6940     | 2-3/4 - 10,000 |
| 1 - 1330     | 2-3/4 - 7244 | 3 - 10,070     |
| 3/4 - 1525   | 3/4 - 7520   | 2-1/4 - 10,195 |
| 1/2 - 1774   | 2-1/4 - 7900 | 2-1/4 - 10,255 |
| 1/4 - 2136   | 1 - 8280     | 2-3/4 - 10,308 |
| 1/4 - 2850   | 1-1/2 - 8940 | 2 - 10,420     |
| 3/4 - 3300   | Sidetracked  | 2-1/2 - 10,470 |
| 1/2 - 3640   | 3/4 - 8460   | 1-3/4 - 10,535 |
| 1/4 - 4060   | 1 - 8518     | 2-1/2 - 10,625 |
| 3/4 - 4200   | 1 - 8540     | 2-1/4 - 10,803 |
| 3/4 - 4640   | 1 - 8600     | 2-1/4 - 10,903 |
| 1/2 - 4840   | 5 - 8627     | 2-1/4 - 11,007 |
| 3/4 - 5110   | 5 - 8642     | 3 - 11,110     |
| 1/2 - 5360   | 4-3/4 - 8707 | 2-1/2 - 11,150 |
| 1-1/4 - 5500 | 4 - 8790     | 2-1/2 - 11,205 |
| 1-1/2 - 5600 | 4 - 8880     | 2-1/2 - 11,268 |
| 2 - 5665     | 2-1/4 - 9030 | 2-3/4 - 11,310 |
| 2 - 5848     | 1-1/2 - 9190 | 2-3/4 - 11,360 |
| 1 - 6048     | 1-3/4 - 9350 | 3-1/4 - 11,465 |

DRILL STEM TESTS

No. 1, 2 hr, 9459-9499' (Permo Penn). Tool opened with strong blow air. Gas to surface in 10 minutes, 24 hr rate 318,000 cu. ft. gradually decreasing to TSTM at end of test. Recovered 292' drilling fluid. 30 min. IBHP 3084#. IFP 265#. FFP 170#. 30 min. FBHP 1259#. Temp. 155 degrees at 9495'.

No. 2, 3 hr, 9622-9664' (Permo Penn). Tool opened with strong blow air. Gas to surface 5 min., 24 hr rate 2,075,000 cu. ft. Drilling fluid to surface 1 hour 35 minutes, with spray of distillate, TSTM. Recovered 470' distillate, 70' drilling fluid. HP in 4173#. 30 min. IBHP 4118#. IFP 333#. FFP 742#. 30 min FBHP 4105#. HP out 4173#. Temp 159 degrees at 9654'.

No. 3, 1 hr, 10,922-10,977' (Morrow). Tool opened with fair blow, continued fair thruout test. No gas to surface. Recovered 180' sl gas cut mud. 30 min IBHP 606#. IFP 116#. FFP 129#. 30 min FBHP 1246#. Temp 174 degrees at 10,965'.

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