

**RECEIVED**

JAN 25 1954

OIL CONSERVATION COMMISSION

HOBBBS-OFFICE

DRILL STEM TEST

| NO. | DATE    | FROM | TO   | OPEN HOLE | TOOL SET @ | CHOKES |        | WATER | TIME    |
|-----|---------|------|------|-----------|------------|--------|--------|-------|---------|
|     |         |      |      |           |            | TOP    | BOTTOM |       |         |
| 1   | 11-9-53 | 9165 | 9215 | Open Hole | 9165       | 1"     | 5/8"   | None  | 2 Hours |

Wolfcamp, 2 Packers, Gas to surface, Too Small to measure, Recovered 1070' free oil, Gravity 43.1° @ 60°, SFP - 0#, BHFP 90 - 300#, 15 minutes S-I 80#, HI 4290# in & out.

DEVIATION SURVEY

| DEPTH | DEGREES OFF VERTICAL | DEPTH | DEGREES OFF VERTICAL | DEPTH | DEGREES OFF VERTICAL |
|-------|----------------------|-------|----------------------|-------|----------------------|
| 1000  | 1/2                  | 4410  | 1/2                  | 7010  | 1/4                  |
| 1700  | 1/4                  | 4890  | 1/4                  | 8120  | 3/4                  |
| 2700  | 3/4                  | 4970  | 3/4                  | 8250  | 1                    |
| 3300  | 1                    | 5260  | 1                    | 8550  | 3/4                  |
| 3400  | 3/4                  | 5370  | 3/4                  | 8650  | 1-1/4                |
| 3700  | 1                    | 5650  | 1/2                  | 8760  | 1/2                  |
| 3775  | 1/2                  | 5870  | 3/4                  | 8945  | 1                    |
| 4070  | 1-1/4                | 5950  | 1                    | 9120  | 3/4                  |
| 4125  | 3/4                  | 6270  | 1/4                  |       |                      |
| 4240  | 1                    | 7575  | 1/2                  |       |                      |

ACIDIZING

11-17-53 Cardinal Chemical Acidized Perf 9181 - 9206 with 1000 gallons mud acid, Time 63 minutes, Inj. Rate .3 BPM, TP 3800 - 3100 - 3550#, CP: Packer, Swab 36 BLO / 18 BAW 5 hours, 9 BFO / 6 BAW 4 hours, Slight show gas, 800' FIH.

11-17-53 Cardinal Chemical Acidized Perf 9181 - 9206 with 2000 gallons 20% LST, Time 48 minutes, Inj. Rate 1 BPM, TP - 0-2400#, CP: Packer, Swab 36 BLO / 26 BAW 7 hours, 21 BFO / 22 BAW (all) 8 hours, S/O 2% BS & AW, 3 bbls last hour.

11-18-53 Cardinal Chemical Acidized Perf 9181 - 9206 with 4000 gallons 20% LST, Time 25 minutes, Inj. Rate 4.8 BPM, TP 800 - 2000#, CP: Packer, Swab 36 BLO / 40 BAW 7 hours, Swab 81 BFO / 56 BAW (all) 15 hours, 300' FIH, Slight show gas.

11-19-53 Cardinal Chemical Acidized Perf 9181 - 9206 with 8000 gallons 20% LST, Time 38 minutes, Inj. Rate 5 BPM, TP 500 - 3800#, CP: Packer, Swab 90 BFO / 76 BAW 15 hours, 4000' FIH, 11 bbls last hour, S/O .6% BS & AW.

11-20-53 Cardinal Chemical Acidized Perf 9181 - 9206 with 15000 gallons 20% LST, Time 1 hour and 15 minutes, Inj. Rate 4.8 BPM, TP 1400 - 4200#, CP: Packer, Swab 36 BLO / 42 BAW 3 hours, Swab 33 BFO / 36 BAW 3 hours.

