

DRILL STEM TESTS

- #1 DST (Glorietta) 6080-6150' 2 Pkrs. - open 2 hrs 30 min 5/8 x 1" chokes, No WC Gas to Surface 1 hr. 35 min., Too small to measure, rec. 720' oil & gas cut mud, 150' heavily oil & gas cut mud, 120' clean oil SFP zero, BHFP 120-270 15 min. SI BHP 560 HH 320 in. 2990 out. (1-3-53)
- #2 DST (Glorietta) 6150 - 6200, 2 pkrs. open 1 hr. 30 min. 5/8 x 1" chokes. No WC, gas to surface 1 hr. 5 min. too small to measure, rec. 180' oil & gas cut mud. 90' mud cut oil 30' clean oil. SFP zero. BHFP 30-90 15 min. SI BHP 370 HH 3090 in, 3060 out. (1-4-53)
- #3 DST (Glorietta) 6200-6250 2 pkrs. open 2 hrs. 5/8" x 1" chokes, No WC, nothing to surface. Rec. 360' drlg. mud, SFP zero BHFP 160-230 15 min. SI BHP 630# HH 3100 in & out.
- #4 DST (Glorietta) 6250-6304 2 pkrs. open 2 hrs. 5/8 x 1" chokes, No WC, nothing to surface, Rec. 480' slightly oil cut drlg. mud, SFP zero BHFP 150-210, 15 min. SI BHP 48# HH 3210 in. 3100 out.
- #5 DST (Glorietta) 6304-6354 2 pkrs. open 2 hrs 5/8" x 1" chokes, No W.C. Nothing to surface. Recovered 80' gas cut mud, 190' oil cut mud, 300' salt water & oil cut mud, SFP zero, BHFP 60-185# 15 Min. SI BHP 525#. HH 3095 in 3095 out.
- #6 DST (Abo) 8390-8440 2 pkrs. open 30 min. 5/8" x 1" chokes, No W.C. Nothing to surface. Rec. 90' drlg. mud w/no shows. SFP zero BHFP 20#, 30 min. SI BHP 95# HH 4120 in 4075 out.
- #7 DST (Abo) 8440-8490 2 pkrs. open 30 min., 5/8 x 1" chokes. No W.C. Nothing to surface, Rec. 3' drlg. mud, SFP zero, BHFP zero, 15 Min. SI BHP zero, HH 4245 in 4245 out. (2-1-53)
- #8 DST (Abo) 8642-8662 s pkrs. open 3 hrs. 5/8" x 1" chokes. No W.C. Gas to surface 1 hr. 20 min. Too small to measure. Rec. 7400' sulphur and salt water, no oil SFP zero BHFP 400-3120# 30 min. SI BHP 3211# HH 4400 in & out. (2-10-53)

RECORD OF PRODUCTION AND STIMULATION

- Cardinal Chemical Co. Acidized open hole 8384-8425 W/500 Gals. mud acid, Time 2 hrs. 13 min. Injection rate 8 GPM TP 3500-4500-3900, CP 2000-2250# Swabbed 27 BLO & 3 BAW 11 hrs. 5 BLO & 9 BAW not recovered (2-23-53)
- Cardinal Chemical Co., Re-acidized open hole 8384-8425 W/1000 Gals. 20% SLT, Time 18 min. injection rate 1.3 BPM, TP 3150-2650-3100 CP pkr. Swabbed 32.50 BLO / 7.50 BAW 8 hrs. Swab 7 BAW 8 hrs. 5 BLO / 19 BAW not recovered. (2-24-53)
- Cardinal Chemical Re-Acidized open hole 8412-8424 W/2000 Gals. 20% SLT time 28 min. injection rate 1.8 BPM TP 2500-3200. Swab 32½ BLO / 14½ BAW 12 hrs. 5 BLO / 52½ BAW not recovered (2-25-53)
- Cardinal Chemical Co., Re-Acidized open hole 8412-8424 W/5000 Gals. 20% SLT Time 70 min. Injection rate 1.9 BPM TP 2600-2400-3100 Swabbed 32½ BLO / 58 BAW 11 hrs. 5 BLO / 119 BAW not recovered.
- Cone shot open hole 8430-8412 W/2 SFP jet (3-1-53)
- Cardinal Chemical Co. Acidized open hole 8412-8430 W/1500 Gals. 15% SLT Spotted 300 Gals gel jet 99, time 38 Min. Inj. rate 9 BPM TP 300-2500-2800 Swabbed 32 BLO / 28 BAW 13 hrs. 7 BAW not rec. (3-1-53)
- Cardinal Chemical Co. Re-Acidized open hole 8412-8430 W/3000 Gals. 15% SLT. Time 36 Min. injection rate 2 BPM TP 2500-2300-2800 Swabbed 32½ BLO (All) / 40 BAW 10 hrs. 39 BLO not recovered (3-2-53)
- Western Co. Dolofracted open hole 8412-8430 W/6000 Gals (4500 Gals. 15% regular acid, 1500 Gals. Kero, 3000# Sand) Treating time 60min. Injection rate 3/6 BPM TP 4800-5300-3100, SI pressure 3000-1000# 2½ hrs. Opened on 1/2" choke flowed 75 Bbl. fluid (50 BLO / 25 BAW) 3 hrs. Swab 36 BLO 28 BAW 28 hrs. 9 BLO 94 BAW Not rec. (3-3-53)
- Western Colo fractured open hole 8412-8430 W/15000 Gals 3750 Gals. Kero, 7500# Sand Max Treat. Pressure 5200# min. Trt. pressure 4500# time 2 hrs. 22 min. Inj. rate 3.24 BPM, SI 2 1/2 hrs. TP 1200# Flowed 33 BLO / 33 BAW 2 hrs. Died, swabbed 79 BLO / 107 BAW 74 hrs. 60 BLO / 127 BAW Not recovered. (3-5-53)

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the 1990s, the number of people in the world who are undernourished has declined from 1.1 billion to 800 million. The number of people who are malnourished has declined from 1.5 billion to 1 billion. The number of people who are obese has increased from 100 million to 300 million. The number of people who are overweight has increased from 100 million to 300 million. The number of people who are obese and overweight has increased from 100 million to 300 million. The number of people who are obese and overweight has increased from 100 million to 300 million.

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the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion. The number of people aged 65 and over is expected to increase from 200 million to 400 million. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion. The number of people aged 15 and over is expected to increase from 3.5 billion to 4.5 billion.

1. *Chlorophyll *a** and *Chlorophyll *b** were determined by the method of Arar and Collins (1971) using a Shimadzu 10U-VI spectrophotometer. The concentration of chlorophylls was expressed in $\mu\text{g mL}^{-1}$ of the sample.

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