

COMPLETION PROCEDURE

FEDERAL 30 NO. 2

GEM (MORROW) FIELD

SECTION 30, T19S, R33E

LEA COUNTY, NEW MEXICO

MARCH 8, 1982

WELL DATA

ELEVATION: 3605' KB
DATUM: KB 16' above ground level (AGL)
TD: 13,800'
PBD: 13,755'
CASING: 13-3/8", 48#, H-40 @ 1315'
9-5/8", 36#, K-55 @ 5315'
5-1/2", 17 & 20#, N-80 @ 13,800'

OBJECTIVE

Complete in the Morrow Sand (13,372' - 13,440') naturally, utilizing thru-tubing perforating technique.

PROCEDURE

- 1) MIRU and install BOP.
- 2) Drillout DV Tool @ 9884', RIH & tag up on bottom. TD must be below 13,570'. Float collar should be @ (+) 13,755'.
- 3) Test casing to 2000 psi & POH.
- 4) Rig up Schlumberger to run cement Bond Log with GR - CCL from PBD to 100' above top of cement. Correlate depths to CNL - Density log dated 2/27/82. Completion procedure is subject to CBL evaluation.
- 5) GIH with 2-7/8" tubing & casing scraper, tag bottom and test casing to 2000 psi.
- 6) Rig up Dowell to circulate hole clean with 2% KCL water and spot 250 gals. 10% Acetic acid with 1/4 gal L53 clay stabilizer and 1/2 gal. corrosion inhibitor from 13,400'. POH
- 7) Run Baker packer Model "FB-1", Size 43-30 and set @ 13,100 ±.
- 8) Run 2-7/8" production tubing and test to 7500 psi.
- 9) Rig up Dowell and circulate packer fluid consisting of 2% KCL, CORBAN Bactericide, oxygen scavenge and F75 Surfactant. (1/2 gal. / 1000 gal. fluid).
- 10) Latch into packer w/Model E-22 anchor seal assembly, size 42-30 and test packer to 5000 psi.
- 11) Remove BOP and nipple up wellhead flowline (for clean up). Swab down tubing to 10,000'.
- 12) Rig up Schlumberger to perforate with 4 SPF using thru-tubing 2-1/8" Domed scallop gun with 6.5 gm Hyper-Dome charge. (Use 0 phase and 10 ft guns). Correlate depth with Cased Density log. Use 5000 psi Lubricator. 4000 psi surface pressure is anticipated. Perforate intervals 13,434-40', 13,425-30', & 13,372-63' with a total of 88 holes.
- 13) Flow well to clean up. Further operations will be based on initial flow rates.

APR 9 1982
U.S. GEOLOGICAL SURVEY
ROSWEIL, NEW MEXICO