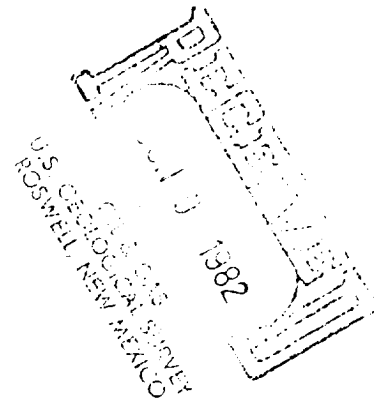


COMPLETION PROCEDURE
FEDERAL 19 NO. 1
GEM (MORROW) FIELD
SECTION 19, T-19-S, R-33-E
LEA COUNTY, NEW MEXICO

MAY 25, 1982

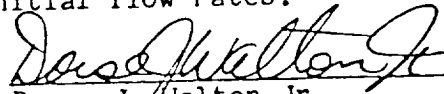


WELL DATA

ELEVATION: 3618' KB
DATUM: KB is 16' above ground level
T.D.: 13,800'
PBTD: 13,755'
CASING: 13-3/8", 48#, H-40, ST&C @ 1300'
9-5/8", 36# & 40#, K-55, ST&C @ 5290'
5-1/2", 17# & 20#, N-80, Butt & LT&C @ 13,800'

OBJECTIVE: Complete in the Morrow Sand (13,290' - 13,416').

- PROCEDURE:
- 1) MIRU and install BOP.
 - 2) Drill out DV tool @ 9954', RIH & tag up on bottom, TD must be below 13,650'. Float collar is at approximately 13,755'.
 - 3) Test casing to 2000 psi & POOH.
 - 4) R.U. Schlumberger to run CBL w/GR-CCL from PBTD to 100' above cement top. Correlate depths to CNL-Density log. Completion procedure is subject to CBL evaluation.
 - 5) GIH w/casing scraper & 2-7/8" tbg, tag bottom and test casing to 2000 psi.
 - 6) Circulate hole w/2% KCL water and spot 250 gal 10% acetic acid with 1/4 gal clay stabilizer and 1/2 gal corrosion inhibitor from + 13,400'. POOH.
 - 7) Check fluid level, it should be 850' from surface to be 500 psi underbalanced w/formation pressure. After tbg is POOH, the fluid level will be approximately 1300' from surface.
 - 8) R.U. Schlumberger to perforate at 2 JSPF w/ a 4" Hyperjet II casing gun, the intervals 13,290'-95', 13,318-29', 13,397-99' & 13,403-16' w/72 holes.
 - 9) Run Baker packer Model "FB-1", size 43-30 on wireline, set @ + 13,050'. Plug should be in place in lower "F" nipple.
 - 10) RIH w/anchor seal assembly and 2-7/8" production tubing, hydrotesting to 7500 psi.
 - 11) Circulate packer fluid consisting of 2% KCL, Corban bactericide, oxygen scavenger and nonionic surfactant (1/2 gal per 1000 gal fluid).
 - 12) Latch into packer w/Model "E-22" anchor seal assembly, size 42-30 and test to 5000 psi. Land tbg w/15,000# on packer.
 - 13) Remove BOP and nipple up wellhead for clean up.
 - 14) Fish plug out of "F" nipple and retrieve.
 - 15) Flow well to clean up, swabbing when necessary. Further operations will be based on initial flow rates.


Dorse J. Walton Jr.