

FORM CR-MID
8-73(REV 4-74)

UNION OIL COMPANY OF CALIFORNIA
CENTRAL REGION
Midland DISTRICT
CONDITION OF HOLE & PROCEDURE

Dist. Prod. Supt. _____
Dist. Engineer _____
Dist. Drlg. Supt. _____
Dist. Opers. Mgr. _____

DATE: November 20, 1980

FIELD North Quail Ridge AREA Lovington

LEASE/UNIT Pipeline Deep Unit Federal WELL NO. 5

REASON FOR WORK: To plug back and convert to SWD

CONDITION OF HOLE:

TOTAL DEPTH: 13620' ~~XXXXXX~~ PBTD: 13348' Perm DATUM IS 19.5' ABOVE tbg head

CASING RECORD: 13-5/8", 48#, H-40 at 503' cmt circ
9-5/8", 40 & 43.5 S-95 & K-55 at 5295' cmt circ. IW tool at 1791'
5-1/2", 17#, S-95 & N-80 at 13620'. TOC at 6800'. IW tool at 10003'.

PERFORATIONS: 13435-449' Sqzd
13524-27' Sqzd
13054-288' Open

TUBING DETAIL: 398 jts (12883') 2-7/8", 6.5#, N-80 AB Mod tbg landed in Otis WB pkr at 12900'. Mill out ext at 12903', top 1 jt 2-7/8" tbg at 12910', 3-3/8" OD x 2.313" ID x-nipple at 12942' & bottom of mule shoe at 12943'.

ROD & PUMP DETAIL: None

PROCEDURE:

1. MI RU PU. Set plug in X-nipple at 12942'. Test plug to 6000 psi.
2. Circ hole w/fresh water. Spot 5 sks (50' linear plug) on Otis WB Pkr at 12900' (Class "H" cmt w/4% gel at 14.7 ppg).
3. Free point & pull 5-1/2" csg (TOC by temp survey at 6800').
4. RI w/perf nipple on 2-7/8" tbg & tag TOC. Spot 9 ppg mud ETD to 5-1/2" csg stub.
5. Spot cmt plug No. 2 35 sks (150 linear ft) 75' in & 75' out of 5-1/2" csg stub.
6. Spot 9 ppg mud 75' above 5-1/2" csg stub to 5370'.
7. Spot cmt plug No. 3 45 sks (150 linear ft) 75' in & 75' out of 9-5/8" intermediate csg using Class "H" w/4% gel at 14.7 ppg. WOC. Tag cmt plug. Circ hole clean. Spot 15% HCl perf acid 4200-3800'.
8. Perf 9-5/8" csg w/4" DP csg gun w/2 SPF 4177-4233', 3990-4000', & 3895-3940'.
9. Run 9-5/8" pkr on 2-7/8" tbg & acidize perfs 4233-5895' w/10000 gals 20% HCl w/NE, FE, & LST in 3 stages using rock salt to divert (first block 400#, & second block 800#) flush w/fresh wtr. Max rate 10 BPM. Max press 3500 psi.
10. RI w/Guiberson Unipkr on 2-3/8" PCID tbg to 3790'+. Displace annulus w/pkr fluid. Place well in SWD service.