

Engineering *cep*
Dist. Engineer *DSW*
Drilling Eng *Stall*
Dist Drlg Supt *BGB*

UNION OIL COMPANY OF CALIFORNIA
SOUTHWEST REGION
CONDITION OF HOLE & PROCEDURE

DATE: 12-5-90

FIELD: Red Hills

AREA: New Mexico

LSE/UNIT: Red Hills Unit

WELL NO. 3

REASON FOR WORK: To abandon the Devonian interval and recomplete in the Penn Atoka.

CONDITION OF HOLE:

ETD or Drillers'
TOTAL DEPTH: 17,597' PBTD: 17,580' KB DATUM IS 33' ABOVE: G.L.

CASING RECORD: 20" 94# K-55 @ 825' (circ)
13-3/8" 61 & 68# L-80 & K-55 @ 4877' (circ)
9-5/8" 47 & 53.5# LSS-95 & C-95 @ 13,000'
TOC @ 7700' by TS
7-3/4" liner 46.1" P-110 @ 12,685-16,986'
4-1/2" liner 11.6# LS-95 @ 16,387-17,597'

PERFORATIONS: 17,453-55', 17,458-60', 17,463-68', 17,481-83'
17,492-505', 17,510-12' 2 SPF

TUBING DETAIL: 1 jt - 2-7/8 8.7#, 2-7/8-double pin sub,
121 jts - 2-7/8 8.7# C-75 AB, 367 jts
2-7/8 6.5# C-75 AB, Otis 3-3/16" x 2.36 DI
seal assy. Otis Perma Drill Packer, 15' seal-bore
ext, 8' mill out ext & tie back seal assy. psa 16,354'.

ROD & PUMP DETAIL: N/A

REGULATORY AGENCY REQUIREMENTS: Notification to ~~NMOC~~ BLM.

PROCEDURE:

1. MIRU DDP. ND tree. NU & test BOP. Send tree in to ERC to be tested and greased. Load tbg w/produced water and establish injection rate and pressure into Devonian perforations. Sting out of packer and POOH w/tbg
2. Set 7-3/4" cement retainer on wireline @ $\pm 16,330'$. RIH & sting into retainer. Pressure test tbg to 2000 psi. Squeeze Devonian perms 17,453'-17,512' w/200 sx Class "H" + 1% Halad 14 + 35% SSA-1.
3. Sting out of retainer and pull out of cement. Circ hole clean w/new 2% KCL packer fluid water. PUH to 14,545' and spot 500 gal 10% Acetic acid f/14,545'-14,260'. PUH to 14,508' and reverse out excess acid. POOH, LD tbg.
4. RIH w/Schlumberger tbg conveyed guns, Otis 7-5/8" BWB permanent packer, and GR-CCL. Correlate Gamma Ray to Schlumberger Composite GR-CNL-FDC dated 7/14/83. Set packer such that guns perforate Penn Atoka @ 14,528-14,545'.