

Oper Engineer
Res Engineer
Drlg Supt

LL
BAB

UNION OIL COMPANY OF CALIFORNIA
CENTRAL U.S. BUSINESS UNIT
CONDITION OF HOLE & PROCEDURE

DATE: February 21, 1996

FIELD: Gem (Morrow)

AREA: South Permian Asset

LSE/UNIT: Maduro Fed Unit

WELL NO: 1

REASON FOR WORK: To add additional Middle Morrow pay and fracture stimulate both new and old pay to increase production and reserves and return the well to profitability.

CONDITION OF HOLE:

TOTAL DEPTH: 13660' ETD or DRILLERS'
PBTD: 13320' DATUM IS 19.4' ABOVE:G.L.

CASING RECORD: 13-3/8" @ 1275' Cmt w/ 900 sx Circ
9-5/8" @ 5162' Cmt w/ 450 sx Circ
5-1/2" 17# N-80 & S-95 @ 13660'. Cmt w/ 650 sx.
(TOC @ 9000' by TS)

PERFORATIONS: Middle Morrow 13089-100' (2 spf) Existing
13275-279' (2 spf)
13284-293' (2 spf)
13128-134' (4 spf) Proposed
13174-192' (4 spf)

Lower Morrow 13446-509' Iso w/ CIBP in 2-7/8" tailpipe
@ 13355'

TUBING DETAIL: 405 jts (12989') 2-7/8" 6.5# N-80 AB Mod tbg
w/Otis WB pkr @ 13005' set w/ 12000# compressor
Latched seal assbly.

ROD & PUMP DETAIL: None

REGULATORY AGENCY REQUIREMENTS: As Required

PROCEDURE:

- 1) Shut well in 5 days prior to rig up to allow pressure buildup.
- 2) RU Schlumberger w/ type A grease. Perf additional Middle Morrow pay at 13128-134' & 13174-192' (from Sch GR-CN-FD log dated 7/19/79) w/ 2-1/8" thru-tbg Enerjet strip gun, 0° phase, 4 spf. (Note pressures before and after perforating.) RD Schlumberger.

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BUREAU OF LAND MGMT
HOBBES, NM