

Engineering *CEB*
Dist. Engineer *DSW*
Drilling Eng *Page*
Dist Drlg Supt *Bob*

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

DATE: 11-19-90

FIELD: Gem, East

AREA: Andrews

LSE/UNIT: Laguna Deep Federal Unit WELL NO. 4

REASON FOR WORK: To add additional pay

CONDITION OF HOLE:

TOTAL DEPTH: 13,560 ETD or Drillers'
PBTD: KB DATUM IS 18' ABOVE: G.L.

CASING RECORD: 20" 94 & 106.5# K-95 BT&C ERW csg at 1483'. Circ cmt.
13-3/8" 61 & 68# N-80 8rd ST&C csg at 3232'. Circ Cmt.
9-5/8" 40# N-80 8rd LT&C smls csg at 5430' w/DV tool
at 3231;. Circ cmt both stages
5-1/2" 17# S-95 & N-80 8rd LT&C & BT&C smls csg at 13,560'
w/DV tool at 10,488'. Circ cmt off DV tool.

PERFORATIONS: Middle Morrow: 13,194-204' at 4 SPF
Lower Morrow: 13,312-26' at 4 SPF
Lower Morrow: 13,414-24' at 4 SPF

TUBING DETAIL: 422 jts 2-7/8" 6.5# N-80 AB Mod. 8rd tbg w/Baker F13-1
pkr at 13,080', SN at 13,044'. Landed tbg in 13,000#
compression

REGULATORY AGENCY REQUIREMENTS: File 3160-5 Form to BLM

PROCEDURE:

1. Shut-well in and allow tbg pressure to increase to 1500 psi.
2. Rig up Mast Unit. Perforate Middle Morrow w/2-1/8 decentralized tbg gun at 4 SPF f/13140-50' and 13162-70' (Total 18'/72 holes).
3. Flow well back & evaluate.
4. If stimulation required, contact Charles Pietsch in Reservoir Dept.
5. Place well back on production.