

EUE A.C.C.

Attachment C-103,
Gulf Oil Corporation, Lea State "H" (NCT-A) Well No. 2, located in Unit D,
section 1, 16-S, 32-E.

and 3 joints of 2-3/8" tail pipe. Ran 52 joints, 1633.44' of 5-1/2" 11# J-55, 50 joints, 1597.78' of 15.50# J-55 ST&C, 67 joints, 2099' of 15.50# LTRC J-55, and 1 cut joint, 31.60' of 17# J-55 LTRC casing with Bowen casing bowl. Total of 170 joints, 5361.83'. Ran retrievable BP and set at 8005'. Tested 5-1/2" casing and bowl with 950#, 15 minutes. OK. Capped BP with sand to 7985'. Perforated 5-1/2" casing with 3, 1/2" holes at 7524' to 7525'. Could not break circulation around 5-1/2" with 2000#. Perforated 5-1/2" casing with 3, 1/2" holes from 6798' to 6799'. Could not break circulation. Perforated 5-1/2" casing with 3, 1/2" holes from 5662' to 5663'. Pressured 5-1/2" casing with 2000#, 4 minutes and broke circulation around casing. Ran CI cement retainer and set at 5516'. Tested 2-7/8" - 5-1/2" annulus with 1000#. OK. Cemented 5-1/2" casing thru perforations 5662' to 5663' with 500 sacks of Incor with 16% gel, 3% salt and .3% PR-7 and 100 sacks Incor Heat. Cement circulated. Back pressure valve incement retainer did not hold. Cleared DP and displaced cement below retainer to approximately 5680'. Disengaged stinger from cement retainer and POH. Small continuous flow of cement from intermediate casing. TS indicated TOC at 2585'. Cemented 5-1/2" - 8-5/8" annulus with spearhead of 50 sacks saturated salt water cement and 350 sacks Incor with 2% Ca Cl. Flushed with 2 barrels of water. Maximum cementing pressure 1500#, end of cement job 1200#. WOC 9 hours. Opened 5-1/2" - 8-5/8" annulus. No flow. Milled over retainer at 5516' and dropped to 5570', top of cement. Drilled retainer and cement to 6745'. Tested perforations 5662 - 5663' with 1525#, 15 minutes. OK. Drilled cement to 6810' and tested perforations 6798' with 1500#, 15 minutes. OK. Drilled cement to 7539' and was thru all cement. Tested perforations 7524' to 7525' with 1500#, 15 minutes. OK. Washed sand off BP at 8005 and pulled BP.

Acidized with 1,000 gals 15% MCA. Ran tbgs as follows: 1 2-3/8" OD 3.75# 10 RT Reg perforated nipple, 2 jts 2-3/8" OD 3.75# 10 RT Reg tbgs 57.42', 1 2" x 5 1/2" Baker seal assembly 2.75', 1 Baker 2-3/8" OD 8 RT Safety jt .85', 1 2" x 2" x 4" Kobe pump 14.42', 1 2-3/8" OD 4.70# 8 RT EUE J-55 tbgs sub 4.13', 1 jt 2-3/8" OD 4.70# 8 RT EUE J-55 tbgs 31.14', 1 Kobe check valve 1.05', 1 jt 2-3/8" OD 4.70# 8 RT EUE J-55 tubing 31.18', 1 Kobe circ valve 1.42', 316 jts 2-3/8" OD 4.70# 8 RT EUE J-55 tbgs 9658.81', 1 2-3/8" OD 4.70# 8 RT EUE N-80 tbgs sub. Tbg set at 9626'.

Returned well to production.