

PRIVATE & CONFIDENTIAL
TIGHT HOLE INFORMATION

NEW MEXICO

CACTUS AREA

Shell-Isleta Central #1
(WC) Loffland #8
16,300' Entrada Test
KB 5066', GL 5044'
Sidetracked @ 951'
9-5/8" csg @ 5334'
7" csg @ 14,104'

TD 16,346. PB 13,820. Prep to reacidize. Pmp'd 20 bbls acid followed w/100 bbls wtr w/1% KCl. Formation did not break down. Pmp rate avg .65 bbls/min @ 5000 psi.

MAY 9 1975

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TD 16,346. PB 13,820. Prep to AT. 5/10 RU Hal & press tested liner to 10,000 psi. Pmp'd 58 bbls 1% KCl @ 3 B/M. Pmp'd 790 bbls 15% HCl. Inj'd 1680 gals & inj'd 1 RCN ball sealer (S.G. 1.4) every 42 gals for a total of 40 balls. Flushed w/130 bbls 1% KCl. Avg inj rate 3.3 B/M. Avg inj press 6300 psi. ISIP 5200 psi, 5-min SI 4500, 10-min SI 4250, 15-min SI 4050. 5/11 Well SI 8 hrs - 2400 psi press. RU Nowsco & blew well down to 9000'. After 1 hr, slight trace of gas to surface. After 2-1/2 hrs fluid level rose 2075'. 5/12 Cont'd blowing well down w/nitrogen. RU Schl & perf'd interval 13,236-13,246 & 13,210-13,226 w/4 JSPF. Total of 104 bbls. After firing last gun 13,210-13,226, encountered tight spot @ 8800' & pulled out of rope socket. PU 20' sinker bar & found gun @ 8051'. Hit gun twice & knocked to btm. Ran sinker bar to btm of perfs. Did not encounter gun. 5 a.m. tbg press 575 psi.

MAY 12 1975

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TD 16,346. PB 13,820. Heating acid & wtr. RU Hal & tested lines to 10,000 psi. RU hot oil trucks. SITP 800 psi.

MAY 13 1975