

PRIVATE & CONFIDENTIAL
TIGHT HOLE INFORMATION

NEW MEXICO

CACTUS AREA

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

JUN 09 1975

TD 16,346. PB 13,820. (RRD 6/2/75) Prep to acidize Zones 12,631-12,592. 6/6 RU Newsco (CTU). Blew tbg down to 5000' & dried up. RD Newsco. 6/7 RU Schl WL perforators w/5000# WP lubricator w/grease inj equip. Perf'd 12,626-12,631; 12,606-12,610; 12,592-12,597 & 12,550-12,564 (26') using Schl 2" OD tbg scallop gun w/6.2 gram 2" high temp hyper jet charges, 4 jets/ft. Ran magnet decentralized @ top & btm of gun. Zones perf'd by correlating to Schl CBL, VDL/GR log dated 4/30/75 (104 holes). FL 4895'. FL 4700' 7 a.m. 6/8/75. 6/8 Fin'd perf'd by Schl 12,509-12,517 (8') & 12,420-12,432 (12') - total 20' @ 4 jets/ft (80 holes). Total of 46', total zone 2 days w/184 holes. RU Newsco (CTU). Ran 3/4" tbg to 9000' jet tbg clear. Trace of muddy wtr, no oil or formation gas. Blew tbg dry. SD 1 hr. Blew tbg dry again. No more recovery of fluid. Shut well in @ 8 p.m.

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TD 16,346. PB 13,820. Prep to acidize zones 12,631-12,420. Heated treating fluids 1% KCl wtr & fresh wtr to cut acid wtr to 130 deg. WO acid from Hal - Farmington, N.M. Installed Hal isolation tool in top of X-mas tree. SD for daylight to start acid job.

JUN 10 1975

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JUN 11 1975

TD 16,346. PB 13,820. SI. 12-hr SITP & csg press 0. Mixed 1% KCl wtr by Hal. Press tested surface equip to 7500, ok. Filled tbg w/KCl wtr (50 bbls) - 3000# press. Press'd annulus to 3000#. Est inj rate of 6 B/M @ 6000#. Mixed acid & acidized zones 12,631-12,420 (46') 184 holes by Hal w/5000 gals (120 bbls) 15% HCl inhibited acid preceded w/breakdown fluid 1% KCl wtr. Tbg capacity 81 bbls + 10 bbls to est rate (total 91 bbls ahead). Flushed w/81 bbls 1% KCl wtr. Total trtmt = 292 bbls. Max trt'g press 6900#, min 6200, avg 6 B/M rate. No surface indication of ball action or formation break. Dropped 200 7/8" OD rubber balls during acid inj; 1 ball every 25 gals of acid. Temp of KCl wtr & acid = 110 deg. ISIP 4700#, 1 hr 3150#. Bled well to pit. Tbg press 0 in 15 mins. Back flwd est 75 bbls in 45 mins; tbg dead. RU Newsco. Ran 3/4" tbg to 10,000. Blew tbg dry. Waited 1 hr. Blew tbg dry. Made approx 5 bbls