

DATE OCT 18 2004

WELLBORE SCHEMATIC AND HISTORY

CURRENT COMPLETION SCHEMATIC		LEASE NAME		Cooper Jal Unit		WELL NO.		135 WIW					
Surface Csg Hole Size: 11 in Csg. Size: 8 5/8 in Set @: 290 ft Sxs Cmt: 125 Circ: Yes TOC @: surf TOC by: circ		STATUS:		Active		Water Injector		API# 30-025-09641					
		LOCATION:		990 FSL & 1980 FEL, Sec 24, T - 24S, R - 36E, Lee County, New Mexico									
		SPUD DATE:		TD		3650		KB		3,318'			
		INT. COMP. DATE:		03/01/54		PBTD		3530		GL 3,312'			
Production Csg Hole Size: 7 7/8 in Csg. Size: 5 1/2 in Set @: 3472 ft Sxs Cmt: 400 Circ: No TOC @: 2728 f / surf TOC by: CBL		ELECTRIC LOGS: Micro Laterolog (2-23-54 Schlumberger) GR-CNLI (8-25-86 Dresser Atlas) GR-VDR-CBL (8-25-86 Dresser Atlas)		GEOLOGICAL DATA CORES, DST'S or MUD LOGS:		HYDROCARBON BEARING ZONE DEPTH TOPS:		CASING PROFILE SURF: 8 5/8" - 28#, J-55 set @ 290' Cmt'd w/125 sxs - circ cmt to surf. PROD: 5 1/2" - 14#, J-55 set @ 3472' Cmt'd w/400 sxs - TOC @ 2728' from surf by cement bond log. LINER: None					
										CURRENT PERFORATION DATA CSG. PERFS: 3019', 22, 24, 26, 28, 30, 32, 34, 43, 45, 47, 49, 56, 59, 62, 70, 72, 74, 76, 82, 93, 97, 3102', 06, 09, 16, 27, 30, 38, 45, 51, 56, 65, 70, 76, 83, 90, 94, 3201', 03, & 10 w/ 2 spf (84 holes total) 3285' - 3302' & 3358 - 62' w/ 1 spf (21 holes total)		OPEN HOLE: 3472 - 3650'	
										TUBING DETAIL 4/5/1999 <u>Length (ft)</u> 6.00 KB 2916.00 90 jts - 2 3/8" 4.7#, CL, J-55, 8rd EUE tbg. 3.00 1- 5 1/2" x 2 3/8" Baker Model AD-1 packer 2925.00 btm		ROD DETAIL <u>Detail</u>	
										WELL HISTORY SUMMARY 1-Mar-54 Initial completion interval: 3472 - 3575' (7 R/VRS/Queen OH). Natural completion. IP= 61 bopd, 0 bwpd, & 72 Mcf/gpd (flowing) 9-Sep-54 Frac w/ 4,000 gals lse oil & 4,000#s sand. 15-Jun-73 Placed well on rod pump. 8-Oct-74 C/O fill to 3575'. Jetwash OH 3472 - 3575' 11-Feb-75 Tagged for fill - No fill. 29-Aug-86 C/O OH 3480 - 3575' (95' fill). Deepened to 3650'. Ran CBL, TOC @ 2728'. Acct'd OH (3472 - 3650') w/2,000 gals; Frac w/34,000 gals X-L gel carrying 80,000#s 12/20 sand in 2 equal stages. Max sand concentration of 7 ppg. C/O to 3650'. Perf (Jalmat) 3019 - 3210' w/ 2 spf, (84 holes total) & 3285 - 3362' w/ 1 spf (21 holes total). Acct'd all open perfs w/ 2,000 gals; Frac w/ 30,000 gals X-L gel carrying 50,000#s 12/20 sand in 2 equal stages using rock salt diversion. Max sand concentration 7 ppg. C/O to 3650'. Lost RBP in OH. Top @ 3530'. CONVERTED TO COMINGLED DOWNHOLE INJECTOR. (Jalmat & Langlie Mattix) 13-Feb-87 C/O OH fill from 3472 - 3524' (52' fill). PBTD @ 3524'. 9-Sep-87 C/O OH fill from 3495 - 3524' (29' fill). PBTD @ 3524'. 22-Jul-88 C/O OH fill from 3475 - 3524' (49' fill). PBTD @ 3524'. 15-Nov-93 Replaced 2 jts tbg & rod pmp. Placed well on production. 9-Jan-94 Ran 91 jts - 2 3/8" tbg & pkr. Set pkr @ 2956'. 5-Dec-94 LD rods & pmp (junk). C/O to 3524' (scale & formation). Tagged solid @ 3524'. Acct'd perfs & OH w. 8,400 gals 20% NEFE HCL mixed with 170 gals xylene using 5,600#s rock salt generating 8 stages. AIR=3 bpm PM=500 - 126 psi. ISIP = 280 psi. P5min = vacuum. Ran 2 3/8" CL tbg & pkr. Set pkr @ 2956'. Inject @ 933 bwpd, TP=vacuum. 2-Apr-99 Reset pkr @ 2925'. Test csg & pkr @ 500 psi. OK. Initiate injection @ 580 bwpd, TP=580 psi. 14-Feb-02 Tag TD using SL unit (1 1/4" x 5' sinker bar). Tag fill @ 3524' (137' of fill)			
Surface Csg Hole Size: 11 in Csg. Size: 8 5/8 in Set @: 290 ft Sxs Cmt: 125 Circ: Yes TOC @: surf TOC by: circ		TOC @ 2728' By CBL		pkp @ 2925'		3019 - 3097'		3102 - 3194'					
3201, 03, & 10'		3285 - 3302'		3358 - 62'		OH Interval 3472 - 3650'		Fill at 3524' CIBP pushed into OH to 3530'					
PBTD: 3530 ft TD: 3650 ft		OH ID: 4 3/4 in		PREPARED BY: Larry S. Adams		D. Camzales		UPDATED 20-May-04					