

Pertinent Data Sheet - CEDAR HILL SWD #1

Location: 830' FNL 1775' FEL, SEC. 29 T32N R10W, SAN JUAN COUNTY, N.M.

Field: Morrison/Bluff/Entrada (Injection)

Elevation: 6059' GR
12' KB

TD: 8775'
PBTD: 8757'

GWI: 100.00%

Completed: 7-17-88

Casing Record:

Hole Size	Csq. Size	Wt. & Grade	Depth Set	Cement	Top/Cmt.
26"	20"	133# K-55	504'	875 sx	Circ Cmt
17-1/2"	13-3/8"	61,68# J,K-55	3110'	1450 sx	1263' @ 75%
		Stage Tool @ 1200'		900 sx	Circ Cmt
12-1/2"	9-5/8"	40# N-80	2954'-5770' *	960 sx	5200' CBL
8-3/4"	7"	23# N-80	8775'	400 sx	** 7250' CBL

* Liner shoe did not hold pressure test. Sq w/200 sx cmt under cmt ret. Perfed 2 holes @ 5765' & sq w/200 sx cmt

** Perfed 2 sq holes @ 7220' & sq w/825 sx cmt under ret. TOC @ 4280'

Tubing Record: 3-1/2"

9.3# N-80 EU, X-lock 7687' (plastic lined) 26' JTS
Otis WB Pkr @ 7666' 20,000# compression
Otis X Nipple @ 7665'
Otis X Nipple @ 7687'

Formation Tops:

Ojo Alamo	1380'	Greenhorn	7186'
Kirtland	1483'	Granerosokout	7243'
Fruitland	2467'	Dakota	7322'
Pictured Cliffs	2853'	Morrison	7576'
Lewis	3022'	Bluff	8140'
Cliffhouse	4400'	Summerville	8302'
Menefee	4779'	Todilto	8413'
Point Lookout	5135'	Entrada	8428'
Mancos	5580'	Chinle	8742'

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Logging Record: IES, GR-FDC

Stimulation: Perfed Entrada 8440'-8654' w/34 holes & fraced w/180,000# sand in 40# gel. Perfed Bluff 8165'-8310' w/18 holes & fraced w/85,000# sand in 40# gel. Perfed Morrison 7707'-8088' w/25 holes & fraced w/94,000# sand in 40# gel.

Workover History: 7-30-91: Found tight spot @ 8457' & fill @ 8671'. Mill out Pkr @ 7678'. Set RBP @ 7680' & pressure tested to 5000#-OK. Mill inside 7" csg 7867'-8681'. Perf Entrada 8446'-8654' w/4 spf (total 342 holes). Perf Bluff 8161'-8310' w/4 spf (total 302 holes). Perf Morrison 7707'-8092' w/4 spf (total 25 holes). Straddle Entrada & Bluff using RBP & pkr & fraced w/260,000# sand in 35# X-linked gel.

Injection History: Initial Injection: 9-2-88. BHT = 210 F. Cumulative Injection = 27 MMBW.

PMP

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UNIT B SEC 29 T32N R10W
SAN JUAN COUNTY, NEW MEXICO

