

District NORTH	Field Name MV/DK COM	County SAN JUAN	State/Province NEW MEXICO	API / UWI 3004534873	
Original Spud Date 1/2/2013	Surface Legal Location 010-031N-012W-G	East/West Distance (ft) 1,955.00	East/West Reference FEL	North/South Distance (ft) 2,130.00	North/South Reference FNL

Well Config: VERTICAL - Original Hole, 3/19/2013 4:16:34 PM

ftKB (MD)	ftKB (TVD)	Schematic - Actual	Frm Final
0			
15			
16			
17			
18			
26			
35			
50			
197	197		
198	198		
228	228		
229	229		
234	234		
840	840		
898	898		
2,374	2,374		
2,670	2,670		
2,838	2,838		
3,140	3,140		
3,404	3,403		
3,419	3,418		
3,429	3,428		
3,620	3,620		
3,802	3,801		
4,300	4,299		
4,474	4,473		
4,545	4,544		
4,546	4,545		
4,589	4,589		
4,590	4,590		
4,616			
4,950			
4,952			
5,008			
5,018			
5,264			
5,400			
6,341			
6,800			
6,802			
6,946			
6,956			
7,065			
7,132			
7,185			
7,186			
7,258			
7,293			
7,338			
7,354			
7,359			
7,376			
7,377			
7,378			
7,380			

PCVD MAR 28 '13
OIL CONS. DIV.
DIST. 3

Surface, 9 5/8; 9,001, 15, 213.7

OJO ALAMO, 840

KIRTLAND, 898

FRUITLAND, 2,374

PICTURED CLIFFS, 2,670

LEWIS, 2,838

HUERFANITO BENTONITE,
3,404

CHACRA, 3,802

MASSIVE CLIFF HOUSE, 4,300

MENEFEE, 4,474

Intermediate1, 7, 6,250, 15, 4,575.1

POINT LOOKOUT, 5,008

PERF - POINT LOOKOUT, 5,018-5,264,
3/14/2013

MANCOS, 5,400

UPPER GALLUP, 6,341

GREENHORN, 7,065

GRANEROS, 7,132

TWO WELLS, 7,185

PERF - DAKOTA, 7,186-7,354, 3/14/2013

PAGUATE, 7,258

CUBERO, 7,293

ENCINAL, 7,338

Production1, 4 1/2, 4,000, 15, 7,363.2

INTEROFFICE MEMO

TO: Records & Regulatory
FROM: Sharon LeBeau

DATE: 2/22/2013
LOCATION: Farmington, N.M.

Final Geologic Summary

Well Name & No.: Richardson 8N API: 3004534873

Location: NE Section 10 Twp. 31N Rge. 12W

County & State: San Juan, New Mexico

Elevation: GL: 6184' KB: 6199'

Tops From: X Wireline Log X Mudlog Correlation

Ojo Alamo <u>840'</u>	Chacra <u>3802'</u>	Greenhorn <u>7065'</u>
Kirtland <u>898'</u>	Upper Cliff House <u>4212'</u>	Graneros <u>7132'</u>
Fruitland <u>2374'</u>	Massive Cliff House <u>4300'</u>	Dakota (Two Wells) <u>7185'</u>
Pictured Cliffs <u>2670'</u>	Menefee <u>4474'</u>	Paguate <u>7258'</u>
Lewis <u>2838'</u>	Point Lookout <u>5008'</u>	Cubero <u>7293'</u>
Huerfano Bentonite <u>3404'</u>	Mancos <u>5400'</u>	Oak Canyon <u>n/a</u>
	Upper Gallup <u>6341'</u>	Encinal <u>7338'</u>
		Burro Canyon <u>nde</u>
		Morrison <u> </u>

DTD 7380'
LTD 7359'

Electric Logs Run: Cement Bond Log

Well Cored? X No Yes

Well DST'd? X No Yes

Geologist: Sharon LeBeau