

District NORTH	Field Name MV/DK COM	County SAN JUAN	State/Province NEW MEXICO	API / UWI 3004535323	
Original Spud Date 8/24/2012	Surface Legal Location 023-030N-011W-K	East/West Distance (ft) 2,091.00	East/West Reference FWL	North/South Distance (ft) 1,930.00	North/South Reference FSL

Well Config: DEVIATED - Original Hole, 11/2/2012 1:13:31 PM

ftKB (MD)	ftKB (TVD)	Schematic - Actual	Form Final
15			
16			
17			
18			RCVD NOV 2 '12
26			OIL CONS. DIV.
197			DIST. 3
198			
228			
229		Surface; 9 5/8; 9,001; 15, -214.0	
234			
952	946		OJO ALAMO, 952
1,122	1,111		KIRTLAND, 1,122
2,003	1,970		FRUITLAND, 2,003
2,396	2,363		PICTURED CLIFFS, 2,396
2,588	2,555		LEWIS, 2,588
3,127	3,094		
3,137	3,104		
3,160	3,127		HUERFANITO BENTONITE,
3,415	3,382		3,160
3,640	3,607		CHACRA, 3,415
3,983	3,949		
4,000	3,966		UPPER CLIFF HOUSE, 3,983
4,002	3,968		
4,063	4,029		MASSIVE CLIFF HOUSE, 4,063
4,198	4,164		MENELEE, 4,198
4,299	4,265		
4,300	4,266		
4,340	4,306		
4,341	4,307	Intermediate 1; 7; 6,366; 15; 4,326 4	
4,361	4,327		
4,402			
4,684		PERF - MENELEE, 4,402-4,684, 10/17/2012	
4,710			
4,712			
4,724			POINT LOOKOUT, 4,724
4,730			
5,150		PERF - POINT LOOKOUT, 4,730-5,150, 10/16/2012	
5,160			MANCOS, 5,160
5,520			
5,522			
5,982			UPPER GALLUP, 5,982
6,596			
6,606			
6,701			GREENHORN, 6,701
6,755			GRANEROS, 6,755
6,814			TWO WELLS, 6,814
6,884		PERF - DAKOTA, 6,814-6,930, 10/15/2012	PAGUATE, 6,884
6,930			
6,934			
6,947			
6,948			
6,948		Production 1; 4 1/2; 4,000; 15; 6,933.4	
6,950			

INTEROFFICE MEMO

TO: Records & Regulatory
FROM: Sharon Nez

DATE: 9/18/2012
LOCATION: Farmington, N.M.

Final Geologic Summary

Well Name & No.: Hartman 23 1P API: 3004535323

Location: SW Section 23 Twp. 030N Rge. 011W

County & State: San Juan, New Mexico

Elevation: GL 5964' KB 5979'

Tops From: X Wireline Log X Mudlog Correlation

Ojo Alamo <u>952'</u>	Chacra <u>3415'</u>	Greenhorn <u>6701'</u>
Kirtland <u>1122'</u>	Upper Cliff House <u>3983'</u>	Graneros <u>6755'</u>
Fruitland <u>2003'</u>	Massive Cliff House <u>4063'</u>	Dakota (Two Wells) <u>6814'</u>
Pictured Cliffs <u>2396'</u>	Menefee <u>4198'</u>	Paguate <u>6884'</u>
Lewis <u>2588'</u>	Point Lookout <u>4724'</u>	Upper Cubero <u>not logged</u>
Huerfano Bentonite <u>3160'</u>	Mancos <u>5160'</u>	Lower Cubero <u> </u>
	Upper Gallup <u>5982'</u>	Oak Canyon <u> </u>
		Encinal <u> </u>
		Burro Canyon <u> </u>
		Morrison <u> </u>
		PBTD <u>6946'</u>
		LTD <u>6934'</u>

Electric Logs Run: Gamma Ray/CCL Acoustic Cement Bond Log

Well Cored? X No Yes

Well DST'd? X No Yes

Geologist Sharon Nez