



Schematic Regulatory

GRENIER A #4M

District NORTH	Field Name MV/DK COM	County SAN JUAN	State/Province NEW MEXICO	API / UWI 3004535106	
Original Spud Date 12/20/2012	Surface Legal Location 026-030N-010W-D	East/West Distance (ft) 660.00	East/West Reference FWL	North/South Distance (ft) 755.00	North/South Reference FNL

Well Config: VERTICAL - Original Hole, 3/11/2013 8:02:36 AM

ftKB (MD)	ftKB (TVD)	Schematic - Actual	Frm Final
15			
16			
17			
18			
53			RCVD MAR 11 '13
100			OIL CONS. DIV.
198	197		DIST. 3
199	199		
229	229		
230	230		
235	235		
1,416	1,415		OJO ALAMO, 1,416
1,554	1,553		KIRTLAND, 1,554
2,345	2,344		FRUITLAND, 2,345
2,724	2,723		PICTURED CLIFFS, 2,724
2,884	2,882		FWIS 2 884
3,437	3,435		HUERFANITO BENTONITE,
3,460	3,458		3,437
3,470	3,468		
3,640	3,638		
3,696	3,694		CHACRA, 3,696
3,697	3,695		
4,222	4,220		UPPER CLIFF HOUSE, 4,222
4,322	4,319		MASSIVE CLIFF HOUSE, 4,322
4,450	4,448		
4,452	4,450		
4,472	4,470		MENEFEE, 4,472
4,578	4,576		
4,579	4,576		
4,622	4,619		
4,622	4,620		
4,642			
4,712			
4,870			
4,882			
4,884			
4,961			POINT LOOKOUT, 4,961
4,962			
5,284			
5,330			MANCOS, 5,330
6,223			UPPER GALLUP, 6,223
6,660			
6,662			
6,851			
6,861			
6,954			GREENHORN, 6,954
7,009			GRANEROS, 7,009
7,060			TWO WELLS, 7,060
7,062			
7,148			PAGUATE, 7,148
7,196			UPPER CUBERO, 7,196
7,214			
7,217			
7,240			
7,240			
7,241			
7,243			

INTEROFFICE MEMO

TO: Records & Regulatory

DATE: 1/21/2013

FROM: Sharon LeBeau

LOCATION: Farmington, N.M.

Final Geologic Summary

Well Name & No.: Grenier A 4M API: 3004535106

Location: NW Section 26 Twp. 30N Rge. 10W

County & State: San Juan, New Mexico

Elevation: GL: 6131' KB: 6146'

Tops From: X Wireline Log X Mudlog Correlation

Ojo Alamo <u>1416'</u>	Chacra <u>3696'</u>	Greenhorn <u>6954'</u>
Kirtland <u>1554'</u>	Upper Cliff House <u>4222'</u>	Graneros <u>7009'</u>
Fruitland <u>2345'</u>	Massive Cliff House <u>4322'</u>	Dakota (Two Wells) <u>7060'</u>
Pictured Cliffs <u>2724'</u>	Menefee <u>4472'</u>	Paguate <u>7148'</u>
Lewis <u>2884'</u>	Point Lookout <u>4961'</u>	Cubero <u>7196'</u>
Huerfanito Bentonite <u>3437'</u>	Mancos <u>5330'</u>	Oak Canyon <u>n/a</u>
	Upper Gallup <u>6223'</u>	Encinal <u>nde</u>
		Burro Canyon <u></u>
		Morrison <u></u>
		OHTD <u>7243'</u>
		LTD <u>7217'</u>

Electric Logs Run: Cement Bond Log w/ Gamma Ray, VDL and Casing Collars

Well Cored? X No Yes

Well DST'd? X No Yes

Geologist: Sharon LeBeau