

|                                 |                                           |                                     |                              |                                       |                              |
|---------------------------------|-------------------------------------------|-------------------------------------|------------------------------|---------------------------------------|------------------------------|
| District<br>NORTH               | Field Name<br>MV/MNCS/DK                  | County<br>SAN JUAN                  | State/Province<br>NEW MEXICO | API / UWI<br>3004535177               |                              |
| Original Spud Date<br>3/27/2013 | Surface Legal Location<br>007-030N-010W-G | East/West Distance (ft)<br>2,597.00 | East/West Reference<br>FEL   | North/South Distance (ft)<br>1,650.00 | North/South Reference<br>FNL |

Well Config: DEVIATED - Original Hole, 5/14/2013 9:29:39 AM

| ftKB (MD) | ftKB (TVD) | Schematic - Actual | Frm Final                   |
|-----------|------------|--------------------|-----------------------------|
| 15        |            |                    |                             |
| 16        |            |                    |                             |
| 18        |            |                    |                             |
| 32        |            |                    |                             |
| 317       |            |                    |                             |
| 318       |            |                    |                             |
| 348       |            |                    |                             |
| 349       |            |                    |                             |
| 354       |            |                    |                             |
| 567       | 566        |                    |                             |
| 1,365     | 1,350      |                    | OJO ALAMO, 1,365            |
| 1,495     | 1,473      |                    | KIRTLAND, 1,495             |
| 2,478     | 2,372      |                    | FRUITLAND, 2,478            |
| 2,670     | 2,544      |                    |                             |
| 2,920     | 2,768      |                    | PICTURED CLIFFS, 2,920      |
| 3,108     | 2,939      |                    | I FWIS 3,108                |
| 3,714     | 3,511      |                    | HUERFANITO BENTONITE, 3,714 |
| 3,719     | 3,517      |                    |                             |
| 3,731     | 3,528      |                    |                             |
| 4,027     | 3,822      |                    | CHACRA, 4,027               |
| 4,490     | 4,285      |                    | UPPER CLIFF HOUSE, 4,490    |
| 4,600     | 4,395      |                    | MASSIVE CLIFF HOUSE, 4,600  |
| 4,772     | 4,566      |                    | MENEFEE, 4,772              |
| 4,920     | 4,715      |                    |                             |
| 4,921     | 4,715      |                    |                             |
| 4,961     |            |                    |                             |
| 4,962     |            |                    |                             |
| 4,964     |            |                    |                             |
| 4,987     |            |                    |                             |
| 5,172     |            |                    |                             |
| 5,189     |            |                    |                             |
| 5,191     |            |                    |                             |
| 5,257     |            |                    | POINT LOOKOUT, 5,257        |
| 5,258     |            |                    |                             |
| 5,488     |            |                    |                             |
| 5,549     |            |                    |                             |
| 5,551     |            |                    |                             |
| 5,611     |            |                    | MANCOS, 5,611               |
| 6,508     |            |                    | UPPER GALLUP, 6,508         |
| 6,521     |            |                    |                             |
| 6,746     |            |                    |                             |
| 6,859     |            |                    |                             |
| 6,861     |            |                    |                             |
| 7,148     |            |                    |                             |
| 7,157     |            |                    |                             |
| 7,245     |            |                    | GREENHORN, 7,245            |
| 7,294     |            |                    | GRANEROS, 7,294             |
| 7,347     |            |                    | TWO WELLS, 7,347            |
| 7,352     |            |                    |                             |
| 7,434     |            |                    | PAGUATE, 7,434              |
| 7,470     |            |                    | UPPER CUBERO, 7,470         |
| 7,526     |            |                    |                             |
| 7,529     |            |                    |                             |
| 7,536     |            |                    |                             |
| 7,537     |            |                    |                             |
| 7,538     |            |                    |                             |
| 7,539     |            |                    |                             |

# INTEROFFICE MEMO

TO: Records & Regulatory  
FROM: Sharon LeBeau

DATE: 4/12/2013  
LOCATION: Farmington, N.M.

## Final Geologic Summary

Well Name & No.: Sullivan 1N API: 3004535177

Location: NE Section 7 Twp. 30N Rge. 10W

County & State: San Juan, New Mexico

Elevation: GL: 6186' KB: 6201'

Tops From: X Wireline Log X Mudlog      Correlation

|                      |              |                     |              |                    |                   |
|----------------------|--------------|---------------------|--------------|--------------------|-------------------|
| Ojo Alamo            | <u>1365'</u> | Chacra              | <u>4027'</u> | Greenhorn          | <u>7245'</u>      |
| Kirtland             | <u>1495'</u> | Upper Cliff House   | <u>4490'</u> | Graneros           | <u>7294'</u>      |
| Fruitland            | <u>2478'</u> | Massive Cliff House | <u>4600'</u> | Dakota (Two Wells) | <u>7347'</u>      |
| Pictured Cliffs      | <u>2920'</u> | Menefee             | <u>4772'</u> | Paguate            | <u>7434'</u>      |
| Lewis                | <u>3108'</u> | Point Lookout       | <u>5257'</u> | Cubero             | <u>7470'</u>      |
| Huerfanito Bentonite | <u>3714'</u> | Mancos              | <u>5611'</u> | Encinal            | <u>not logged</u> |
|                      |              | Upper Gallup        | <u>6508'</u> | Burro Canyon       | <u>          </u> |
|                      |              | El Vado             | <u>6508'</u> | Morrison           | <u>          </u> |
|                      |              | El Vado A           | <u>6566'</u> |                    |                   |
|                      |              | El Vado B           | <u>6649'</u> |                    |                   |
|                      |              | El Valdo C          | <u>6723'</u> |                    |                   |
|                      |              | Basal Niobrara      | <u>6764'</u> |                    |                   |
|                      |              |                     |              | OH TD              | <u>7539'</u>      |
|                      |              |                     |              | LTD                | <u>7529'</u>      |

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

Well Cored? X No      Yes

Well DST'd? X No      Yes

Geologist: Sharon LeBeau