

## Stogner, Michael

**From:** Chavez, Frank  
**Sent:** Friday, March 31, 2000 4:57 PM  
**To:** Wrottenbery, Lori; Stogner, Michael  
**Cc:** Catanach, David; Ashley, Mark; Hebert, Lyn; Johnson, Roy  
**Subject:** 10 Foot Offset

Below are the measured deviations and calculated displacement for a typical Mesaverde well that I randomly picked from our files. Newer drilling techniques result in a little bit straighter hole, but not that straight. This well shows a total displacement of 179 feet. Some people argue that the angle is more spiral than displaced in one direction but I have never seen anything that supports that theory here in the SJB. A well within 10 feet of the line is very likely to wander across it.

depth	distance	angle	displacement
0			
758	758	1	13.22892
1256	498	1.5	13.03612
1757	501	0.5	4.371994
2256	499	1	8.708751
2784	528	1.5	13.82143
3284	500	1.5	13.08847
3845	561	2	19.57862
4364	519	1	9.057799
4864	500	2	17.44975
5179	315	1.75	9.619632
5684	505	2.75	24.22895
5934	250	3	13.08399
6313	379	3	19.83533
			179.1098

**DEVIATION REPORT**

Name of Company: Burlington Resources Oil & Gas Company  
Address: P. O. Box 4289, Farmington, NM 87499  
Lease Name and Number: SAN JUAN 30-6 UNIT #68A  
Unit Letter: 1,785' FSL -1,470' FWL  
Sec. Twn. Rge.: 25 030N 006W  
Pool and Formation: Blanco Mesaverde  
County: RIO ARRIBA

Depth (FL)	Deviation (Degrees)
758	1.00
1,256	1.50
1,757	.50
2,256	1.00
2,784	1.50
3,284	1.50
3,845	2.00
4,364	1.00
4,864	2.00
5,179	1.75
5,684	2.75
5,934	3.00
6,313	3.00

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OIL CON. DIV.  
BURLING

I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer for BURLINGTON RESOURCES OIL AND GAS CO., am authorized by said Company to make this report; and that this report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

*San Vaels*

Subscribed and sworn to before me this 7th day of August, 1997

*[Signature]*  
Notary Public in and for San Juan County, New Mexico  
My commission expires August 17, 2000