

30-039-29555



Scientific Drilling Survey Report

BURLINGTON™
RESOURCES

Company: Burlington Resources
Field: Rio Arriba, NM
Site: Sec. 26 T28N R5W (San Juan 28-5#81M)
Well: San Juan 28-5#81M
Wellpath: OH

Date: 2005/12/20
Co-ordinate(NE) Reference: Well: San Juan 28-5#81M, Grid North
Vertical (TVD) Reference: GL 6733.0
Section (VS) Reference: Well (0.00N,0.00E,80.89Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Field: Rio Arriba, NM

United States of America

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone:

New Mexico, Western Zone

Coordinate System:

Well Centre

Geomagnetic Model:

bggm2005

Site: Sec. 26 T28N R5W (San Juan 28-5#81M)

 Surface: 305/S 976/W
 BNL: 145/S 1562/E

Site Position:
From: Lease Line
Position Uncertainty: 0.00 ft
Ground Level: 0.00 ft

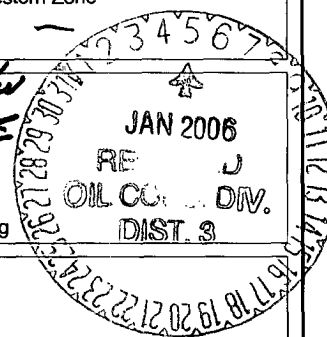
Northing:

ft

Easting:

ft

Latitude:
Longitude:
North Reference:
Grid Convergence:

 Grid
 0.30 deg

Well: San Juan 28-5#81M

Slot Name:

Well Position: +N/-S 0.00 ft **Northing:** 2047433.209 ft **Latitude:** 36 37 32.970 N
 +E/-W 0.00 ft **Easting:** 646626.547 ft **Longitude:** 107 20 1.152 W
Position Uncertainty: 0.00 ft

Wellpath: OH

Drilled From:

Surface

Current Datum: GL
Magnetic Data: 2005/09/16
Field Strength: 51375 nT

Height 6733.00 ft

Tie-on Depth:

0.00 ft

Above System Datum:

Mean Sea Level

Declination:

10.44 deg

Mag Dip Angle:

63.62 deg

Vertical Section: Depth From (TVD)
 ft

 +N/-S
 ft

 +E/-W
 ft

Direction
 deg

0.00

0.00

0.00

80.89

Survey: MWD
 32D1005734

Start Date: 2005/10/11

Company: Scientific Drilling

Engineer:
Tool: MWD;MWD - Standard ISCWSA

Tied-to:

From: Definitive Path

Survey: MWD

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
560.00	0.00	108.13	560.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
605.00	1.11	108.13	605.00	-0.14	0.41	0.39	2.47	2.47	0.00	MWD
635.00	2.44	97.13	634.98	-0.31	1.32	1.26	4.56	4.43	-36.67	MWD
666.00	3.79	97.83	665.94	-0.53	2.99	2.87	4.36	4.35	2.26	MWD
697.00	5.36	92.46	696.84	-0.73	5.46	5.27	5.24	5.06	-17.32	MWD
727.00	6.77	92.70	726.67	-0.87	8.62	8.38	4.70	4.70	0.80	MWD
758.00	8.25	89.72	757.40	-0.95	12.67	12.36	4.94	4.77	-9.61	MWD
789.00	9.74	86.41	788.02	-0.77	17.51	17.17	5.09	4.81	-10.68	MWD
820.00	11.48	85.45	818.49	-0.36	23.21	22.86	5.64	5.61	-3.10	MWD
851.00	12.99	82.92	848.78	0.31	29.74	29.41	5.17	4.87	-8.16	MWD
882.00	14.43	81.27	878.90	1.33	37.01	36.76	4.81	4.65	-5.32	MWD
913.00	15.99	79.79	908.81	2.67	45.04	44.89	5.19	5.03	-4.77	MWD
943.00	18.15	78.22	937.49	4.36	53.68	53.69	7.36	7.20	-5.23	MWD
974.00	20.12	77.38	966.77	6.51	63.61	63.84	6.42	6.35	-2.71	MWD
1004.00	21.84	78.01	994.79	8.79	74.10	74.56	5.78	5.73	2.10	MWD
1034.00	22.55	79.09	1022.56	11.04	85.21	85.88	2.73	2.37	3.60	MWD
1065.00	24.77	80.18	1050.95	13.28	97.45	98.32	7.30	7.16	3.52	MWD
1095.00	26.62	80.04	1077.99	15.51	110.26	111.32	6.17	6.17	-0.47	MWD
1126.00	28.55	78.80	1105.46	18.15	124.37	125.67	6.50	6.23	-4.00	MWD
1155.00	29.38	79.39	1130.83	20.81	138.16	139.71	3.03	2.86	2.03	MWD
1186.00	31.41	78.32	1157.57	23.84	153.55	155.38	6.78	6.55	-3.45	MWD
1218.00	32.22	79.07	1184.76	27.15	170.09	172.24	2.82	2.53	2.34	MWD
1249.00	32.80	79.40	1210.91	30.26	186.46	188.89	1.96	1.87	1.06	MWD



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Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: MWD

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1281.00	33.32	79.06	1237.73	33.52	203.60	206.34	1.73	1.62	-1.06	MWD
1311.00	33.69	78.98	1262.74	36.68	219.86	222.89	1.24	1.23	-0.27	MWD
1343.00	33.99	80.11	1289.32	39.91	237.38	240.71	2.18	0.94	3.53	MWD
1373.00	34.21	80.93	1314.16	42.68	253.97	257.53	1.70	0.73	2.73	MWD
1404.00	34.72	81.00	1339.72	45.43	271.30	275.07	1.65	1.65	0.23	MWD
1435.00	34.66	81.41	1365.21	48.13	288.74	292.71	0.78	-0.19	1.32	MWD
1467.00	35.16	81.11	1391.45	50.91	306.84	311.03	1.65	1.56	-0.94	MWD
1498.00	34.25	81.70	1416.94	53.55	324.29	328.68	3.13	-2.94	1.90	MWD
1529.00	34.46	81.75	1442.53	56.07	341.60	346.17	0.68	0.68	0.16	MWD
1592.00	34.98	82.00	1494.31	61.14	377.12	382.04	0.86	0.83	0.40	MWD
1654.00	35.29	81.81	1545.01	66.17	412.45	417.72	0.53	0.50	-0.31	MWD
1717.00	34.99	80.75	1596.53	71.66	448.29	453.98	1.08	-0.48	-1.68	MWD
1780.00	36.10	80.00	1647.79	77.79	484.39	490.60	1.89	1.76	-1.19	MWD
1812.00	35.89	80.82	1673.68	80.92	502.94	509.41	1.64	-0.66	2.56	MWD
1843.00	34.96	81.12	1698.94	83.74	520.68	527.38	3.05	-3.00	0.97	MWD
1906.00	31.52	80.01	1751.63	89.39	554.75	561.90	5.54	-5.46	-1.76	MWD
1963.00	32.10	79.81	1800.07	94.65	584.33	591.94	1.03	1.02	-0.35	MWD
2022.00	32.59	80.40	1849.91	100.07	615.42	623.50	0.99	0.83	1.00	MWD
2096.00	32.66	79.59	1912.24	107.01	654.71	663.40	0.60	0.09	-1.09	MWD
2127.00	32.97	78.92	1938.29	110.14	671.22	680.19	1.54	1.00	-2.16	MWD
2159.00	32.13	78.39	1965.26	113.52	688.10	697.39	2.77	-2.62	-1.66	MWD
2190.00	30.72	79.02	1991.72	116.69	703.95	713.54	4.67	-4.55	2.03	MWD
2221.00	30.77	78.02	2018.36	119.85	719.48	729.38	1.66	0.16	-3.23	MWD
2252.00	31.11	78.71	2044.95	123.06	735.09	745.30	1.59	1.10	2.23	MWD
2284.00	31.42	79.92	2072.30	126.14	751.41	761.90	2.19	0.97	3.78	MWD
2316.00	31.85	79.06	2099.55	129.20	767.91	778.68	1.95	1.34	-2.69	MWD
2347.00	32.29	78.41	2125.82	132.42	784.05	795.13	1.80	1.42	-2.10	MWD
2377.00	32.46	79.41	2151.15	135.51	799.81	811.18	1.87	0.57	3.33	MWD
2407.00	31.98	79.32	2176.53	138.46	815.53	827.17	1.61	-1.60	-0.30	MWD
2438.00	31.86	80.32	2202.85	141.35	831.67	843.56	1.75	-0.39	3.23	MWD
2469.00	32.16	80.11	2229.13	144.15	847.86	859.99	1.03	0.97	-0.68	MWD
2501.00	32.08	80.68	2256.23	146.99	864.63	877.00	0.98	-0.25	1.78	MWD
2531.00	31.25	79.94	2281.77	149.64	880.16	892.75	3.05	-2.77	-2.47	MWD
2562.00	31.67	79.07	2308.21	152.58	896.07	908.92	2.00	1.35	-2.81	MWD
2593.00	31.54	80.23	2334.61	155.50	912.05	925.16	2.01	-0.42	3.74	MWD
2625.00	32.11	79.92	2361.80	158.41	928.67	942.04	1.85	1.78	-0.97	MWD
2656.00	32.07	80.93	2388.07	161.15	944.91	958.50	1.74	-0.13	3.26	MWD
2687.00	32.43	80.96	2414.28	163.75	961.24	975.05	1.16	1.16	0.10	MWD
2718.00	33.60	79.98	2440.28	166.55	977.90	991.93	4.15	3.77	-3.16	MWD
2781.00	32.48	79.63	2493.09	172.63	1011.71	1026.28	1.80	-1.78	-0.56	MWD
2812.00	32.90	79.54	2519.18	175.66	1028.17	1043.02	1.36	1.35	-0.29	MWD
2903.00	33.19	80.25	2595.46	184.36	1077.02	1092.63	0.53	0.32	0.78	MWD
2966.00	33.87	80.43	2647.98	190.20	1111.33	1127.43	1.09	1.08	0.29	MWD
3026.00	33.54	80.06	2697.89	195.84	1144.14	1160.72	0.65	-0.55	-0.62	MWD
3087.00	31.65	81.21	2749.28	201.20	1176.56	1193.58	3.26	-3.10	1.89	MWD
3147.00	32.76	80.67	2800.05	206.23	1208.14	1225.55	1.91	1.85	-0.90	MWD
3211.00	33.50	80.47	2853.64	211.97	1242.64	1260.53	1.17	1.16	-0.31	MWD
3274.00	32.65	80.14	2906.44	217.76	1276.53	1294.91	1.38	-1.35	-0.52	MWD
3319.85	32.83	79.79	2945.00	222.08	1300.95	1319.70	0.57	0.40	-0.76	Ojo Alamo
3337.00	32.90	79.66	2959.41	223.74	1310.11	1329.01	0.57	0.40	-0.76	MWD
3399.00	33.98	79.55	3011.14	229.90	1343.72	1363.17	1.74	1.74	-0.18	MWD
3463.00	33.16	80.57	3064.47	236.01	1378.57	1398.55	1.56	-1.28	1.59	MWD
3524.00	33.27	80.64	3115.50	241.47	1411.54	1431.96	0.19	0.18	0.11	MWD



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Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: MWD

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
3532.97	33.26	80.64	3123.00	242.27	1416.39	1436.88	0.08	-0.08	0.05	Kirtland
3586.00	33.22	80.67	3167.35	246.99	1445.08	1465.95	0.09	-0.08	0.05	MWD
3650.00	34.12	79.99	3220.62	252.95	1480.05	1501.43	1.52	1.41	-1.06	MWD
3712.00	34.37	80.55	3271.87	258.85	1514.44	1536.32	0.65	0.40	0.90	MWD
3775.00	34.39	80.32	3323.86	264.76	1549.52	1571.89	0.21	0.03	-0.37	MWD
3838.00	33.84	80.03	3376.02	270.79	1584.34	1607.23	0.91	-0.87	-0.46	MWD
3896.88	33.59	79.51	3425.00	276.59	1616.50	1639.90	0.65	-0.42	-0.89	Fruitland
3900.00	33.58	79.48	3427.60	276.90	1618.20	1641.63	0.65	-0.42	-0.89	MWD
3961.00	32.91	79.86	3478.61	282.90	1651.10	1675.06	1.15	-1.10	0.62	MWD
4022.00	32.39	79.51	3529.97	288.79	1683.47	1707.96	0.91	-0.85	-0.57	MWD
4085.00	31.90	79.72	3583.32	294.84	1716.44	1741.48	0.80	-0.78	0.33	MWD
4105.86	32.21	79.76	3601.00	296.81	1727.34	1752.55	1.50	1.50	0.21	Pictured Cliffs
4147.00	32.83	79.85	3635.68	300.72	1749.11	1774.66	1.50	1.50	0.21	MWD
4209.00	31.86	80.73	3688.06	306.32	1781.80	1807.83	1.74	-1.56	1.42	MWD
4254.81	31.73	81.33	3727.00	310.08	1805.64	1831.96	0.74	-0.28	1.31	Lewis
4270.00	31.69	81.53	3739.92	311.27	1813.54	1839.95	0.74	-0.28	1.32	MWD
4332.00	29.94	84.95	3793.17	315.03	1845.06	1871.67	3.99	-2.82	5.52	MWD
4394.00	29.37	84.77	3847.05	317.78	1875.61	1902.27	0.93	-0.92	-0.29	MWD
4456.00	28.67	85.35	3901.27	320.37	1905.58	1932.27	1.22	-1.13	0.94	MWD
4519.00	27.69	85.48	3956.80	322.75	1935.23	1961.93	1.56	-1.56	0.21	MWD
4581.00	26.86	84.80	4011.90	325.16	1963.54	1990.26	1.43	-1.34	-1.10	MWD
4644.00	26.12	85.28	4068.29	327.59	1991.54	2018.29	1.22	-1.17	0.76	MWD
4675.00	26.54	84.20	4096.07	328.85	2005.23	2032.00	2.06	1.35	-3.48	MWD
4707.00	27.11	82.78	4124.63	330.49	2019.58	2046.43	2.68	1.78	-4.44	MWD
4737.00	26.80	83.23	4151.37	332.15	2033.07	2060.02	1.24	-1.03	1.50	MWD
4795.00	26.78	82.11	4203.15	335.48	2059.00	2086.15	0.87	-0.03	-1.93	MWD
4816.14	27.00	81.21	4222.00	336.87	2068.46	2095.71	2.18	1.02	-4.25	Hurfanito Bentonite
4830.00	27.14	80.63	4234.34	337.86	2074.69	2102.01	2.18	1.04	-4.20	MWD
4861.00	27.23	79.95	4261.92	340.25	2088.65	2116.17	1.04	0.29	-2.19	MWD
4893.00	27.32	79.26	4290.36	342.90	2103.07	2130.83	1.03	0.28	-2.16	MWD
4923.00	27.06	79.14	4317.05	345.47	2116.54	2144.54	0.89	-0.87	-0.40	MWD
4954.00	26.97	78.25	4344.66	348.23	2130.34	2158.61	1.34	-0.29	-2.87	MWD
5017.00	27.24	78.19	4400.74	354.09	2158.44	2187.28	0.43	0.43	-0.10	MWD
5080.00	26.57	78.83	4456.92	359.77	2186.38	2215.76	1.16	-1.06	1.02	MWD
5171.00	26.71	78.88	4538.26	367.65	2226.41	2256.54	0.16	0.15	0.05	MWD
5212.10	26.57	78.13	4575.00	371.33	2244.47	2274.95	0.88	-0.34	-1.82	Chacra
5234.00	26.50	77.73	4594.59	373.37	2254.04	2284.72	0.88	-0.33	-1.83	MWD
5266.00	26.71	77.39	4623.21	376.46	2268.03	2299.03	0.81	0.66	-1.06	MWD
5297.00	26.96	78.19	4650.87	379.42	2281.71	2313.00	1.42	0.81	2.58	MWD
5328.00	27.01	81.31	4678.49	381.92	2295.55	2327.06	4.57	0.16	10.06	MWD
5359.00	27.01	81.15	4706.11	384.07	2309.46	2341.14	0.23	0.00	-0.52	MWD
5390.00	27.19	81.13	4733.71	386.24	2323.42	2355.26	0.58	0.58	-0.06	MWD
5452.00	27.26	80.41	4788.84	390.79	2351.41	2383.63	0.54	0.11	-1.16	MWD
5545.00	27.34	79.06	4871.48	398.39	2393.38	2426.27	0.67	0.09	-1.45	MWD
5608.00	25.36	80.25	4927.93	403.42	2420.89	2454.22	3.25	-3.14	1.89	MWD
5640.00	24.62	79.95	4956.94	405.75	2434.20	2467.74	2.35	-2.31	-0.94	MWD
5671.00	23.89	80.11	4985.20	407.95	2446.75	2480.47	2.36	-2.35	0.52	MWD
5702.00	22.73	80.85	5013.67	409.98	2458.84	2492.74	3.86	-3.74	2.39	MWD
5732.00	21.81	81.17	5041.43	411.76	2470.07	2504.11	3.09	-3.07	1.07	MWD
5764.00	21.39	81.11	5071.19	413.57	2481.71	2515.89	1.31	-1.31	-0.19	MWD
5794.00	21.08	81.91	5099.15	415.18	2492.46	2526.75	1.41	-1.03	2.67	MWD
5825.00	20.15	81.70	5128.16	416.73	2503.26	2537.67	3.01	-3.00	-0.68	MWD
5885.33	19.03	81.58	5185.00	419.67	2523.27	2557.89	1.86	-1.85	-0.19	Uppercliff House



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5887.00	19.00	81.58	5186.58	419.75	2523.81	2558.44	1.86	-1.85	-0.20	MWD
5918.00	18.63	79.89	5215.92	421.36	2533.68	2568.43	2.12	-1.19	-5.45	MWD
5949.00	17.83	79.88	5245.37	423.06	2543.23	2578.13	2.58	-2.58	-0.03	MWD
5980.00	16.64	80.05	5274.97	424.67	2552.27	2587.31	3.84	-3.84	0.55	MWD
6012.00	15.76	79.79	5305.70	426.23	2561.06	2596.24	2.76	-2.75	-0.81	MWD
6043.00	16.11	79.13	5335.51	427.78	2569.43	2604.75	1.27	1.13	-2.13	MWD
6098.46	14.56	79.83	5389.00	430.47	2583.85	2619.41	2.81	-2.79	1.27	Massive Cliff House
6106.00	14.35	79.94	5396.30	430.80	2585.70	2621.29	2.81	-2.79	1.42	MWD
6138.00	13.28	82.44	5427.37	431.97	2593.25	2628.93	3.83	-3.34	7.81	MWD
6165.32	12.53	83.28	5454.00	432.73	2599.30	2635.03	2.83	-2.74	3.07	Menefee
6169.00	12.43	83.40	5457.59	432.83	2600.09	2635.82	2.83	-2.74	3.28	MWD
6200.00	12.40	82.63	5487.87	433.64	2606.71	2642.48	0.54	-0.10	-2.48	MWD
6232.00	11.96	83.89	5519.15	434.43	2613.41	2649.23	1.61	-1.37	3.94	MWD
6262.00	11.98	82.91	5548.50	435.14	2619.59	2655.45	0.68	0.07	-3.27	MWD
6293.00	11.59	81.09	5578.84	436.02	2625.86	2661.78	1.74	-1.26	-5.87	MWD
6324.00	10.38	81.12	5609.27	436.94	2631.70	2667.68	3.90	-3.90	0.10	MWD
6355.00	10.00	79.79	5639.79	437.85	2637.11	2673.17	1.44	-1.23	-4.29	MWD
6386.00	9.87	80.12	5670.32	438.78	2642.37	2678.51	0.46	-0.42	1.06	MWD
6418.00	9.34	81.39	5701.87	439.64	2647.64	2683.85	1.78	-1.66	3.97	MWD
6450.00	8.81	82.03	5733.47	440.37	2652.64	2688.90	1.69	-1.66	2.00	MWD
6481.00	8.02	81.63	5764.14	441.01	2657.13	2693.44	2.56	-2.55	-1.29	MWD
6507.11	7.79	80.85	5790.00	441.56	2660.68	2697.03	0.96	-0.87	-2.98	Point Lookout
6512.00	7.75	80.70	5794.84	441.66	2661.33	2697.69	0.96	-0.87	-3.09	MWD
6527.00	7.32	81.81	5809.71	441.96	2663.27	2699.65	3.03	-2.87	7.40	MWD
6544.00	6.96	85.71	5826.58	442.19	2665.37	2701.76	3.55	-2.12	22.94	MWD
6575.00	6.90	82.81	5857.36	442.57	2669.09	2705.50	1.15	-0.19	-9.35	MWD
6606.00	6.20	82.63	5888.15	443.02	2672.60	2709.03	2.26	-2.26	-0.58	MWD
6637.00	5.74	82.21	5918.99	443.44	2675.80	2712.25	1.49	-1.48	-1.35	MWD
6668.00	5.48	80.78	5949.84	443.89	2678.79	2715.28	0.95	-0.84	-4.61	MWD
6699.00	4.70	77.20	5980.71	444.41	2681.49	2718.03	2.72	-2.52	-11.55	MWD
6729.00	4.07	78.84	6010.63	444.88	2683.74	2720.32	2.14	-2.10	5.47	MWD
6759.00	3.70	80.08	6040.56	445.26	2685.73	2722.35	1.26	-1.23	4.13	MWD
6945.00	1.50	82.00	6226.36	446.63	2694.06	2730.79	1.18	-1.18	1.03	MWD
7024.68	1.76	78.98	6306.00	447.01	2696.29	2733.06	0.34	0.33	-3.78	Mancos
7393.00	3.00	72.00	6674.00	451.07	2711.01	2748.24	0.34	0.34	-1.90	MWD
7688.31	2.26	91.63	6969.00	453.29	2724.17	2761.58	0.39	-0.25	6.65	Gallup
7873.00	2.00	110.00	7153.57	452.09	2730.83	2767.97	0.39	-0.14	9.95	MWD
8417.00	2.00	160.00	7697.27	439.92	2743.00	2778.05	0.31	0.00	9.19	MWD

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
3319.85	2945.00	Ojo Alamo		0.00	80.67
3532.97	3123.00	Kirtland		0.00	80.67
3896.88	3425.00	Fruitland		0.00	80.67
4105.86	3601.00	Pictured Cliffs		0.00	80.67
4254.81	3727.00	Lewis		0.00	80.67
4816.14	4222.00	Hurfanito Bentonite		0.00	80.67
5212.10	4575.00	Chacra		0.00	80.67
5885.33	5185.00	Uppercliff House		0.00	80.67
6098.46	5389.00	Massive Cliff House		0.00	80.67
6165.32	5454.00	Menefee		0.00	80.67
6507.11	5790.00	Point Lookout		0.00	80.67
7024.68	6306.00	Mancos		0.00	80.67
7688.31	6969.00	Gallup		0.00	80.67
	0.00	Greenhorn		0.00	80.67



Scientific Drilling Survey Report

BURLINGTON™
RESOURCES

Company: Burlington Resources	Date: 2005/12/20	Time: 08:29:50	Page: 5
Field: Rio Arriba, NM	Co-ordinate(NE) Reference:	Well: San Juan 28-5#81M, Grid North	
Site: Sec. 26 T28N R5W (San Juan 28-5#81M)	Vertical (TVD) Reference:	GL 6733.0	
Well: San Juan 28-5#81M	Section (VS) Reference:	Well (0.00N,0.00E,80.89Azi)	
Wellpath: OH	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
	0.00	Graneros		0.00	80.67
	0.00	Dakota		0.00	80.67
	0.00	Upper Cubero		0.00	80.67
	0.00	Lower Cubero		0.00	80.67
	0.00	Oak Canyon		0.00	80.67
	0.00	Formation 21		0.00	80.67