

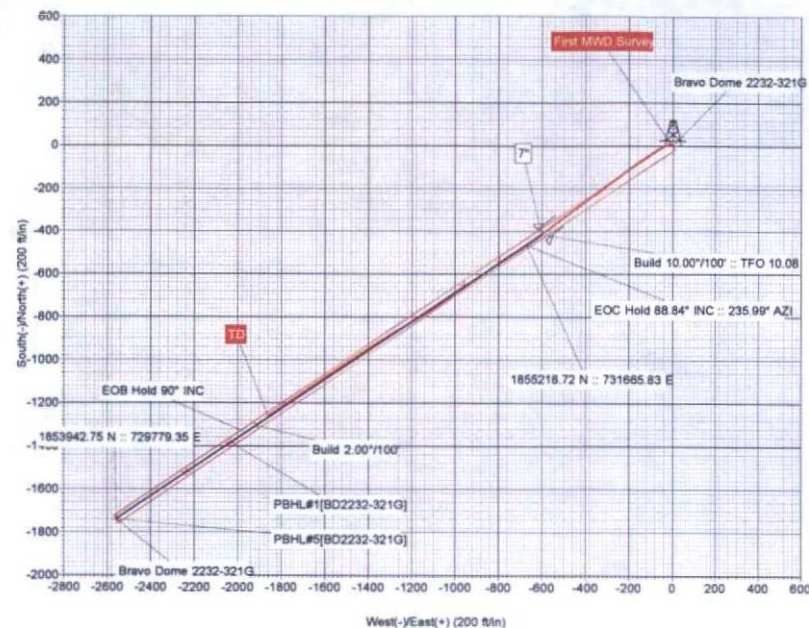
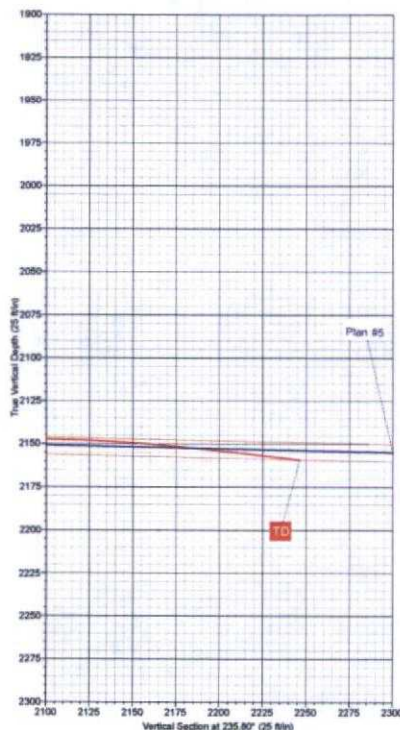
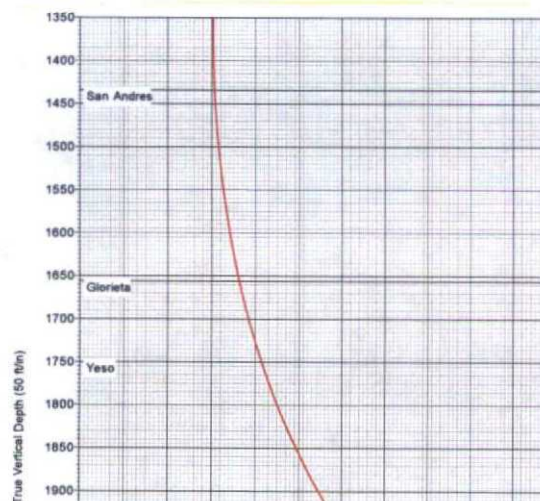


POST
DRILL

Bravo Dome 2232-321G
Union County, NM
Lateral #1
-1212.00 FNL
-960.00 FEL



SECTION DETAILS										
MD	Inc	Azi	TVD	+N-S	+E-W	Diag	V Sect	Target		
2512.00	81.50	231.70	2117.63	-414.94	-602.37	0.00	731.44			
2596.94	88.84	235.99	2124.78	-464.81	-670.66	10.00	815.95	PBHL#1(BD2232-321G)		
4096.94	88.84	235.99	2155.14	-1303.59	-1913.85	0.00	2315.83			
4154.94	90.00	235.99	2155.73	-1336.03	-1961.93	2.00	2373.63	PBHL#1(BD2232-321G)		
4874.74	90.00	235.99	2155.73	-1738.61	-2558.62	0.00	3093.43	PBHL#5(BD2232-321G)		

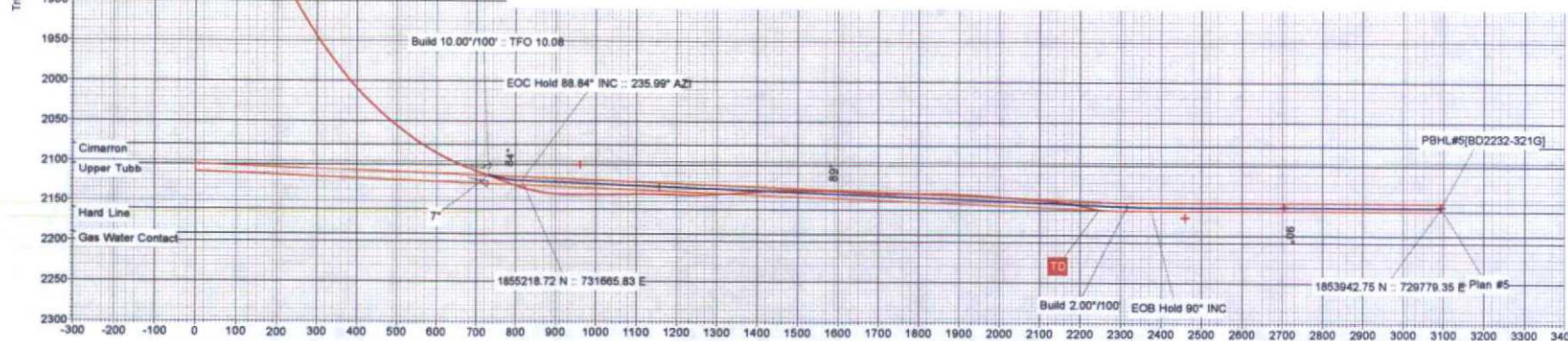


ANNOTATIONS

TVD	MD	Annotation
2104.00		Top of Tubb 1855663.53 N :: 732336.49
2117.63	2512.00	Build 10.00°/100° :: TFO 10.08
2124.78	2596.94	1855218.72 N :: 731665.83 E
2124.78	2596.94	EOC Hold 88.84° INC :: 235.99° AZI
2155.14	4096.94	Build 2.00°/100°
2155.73	4154.94	EOB Hold 90° INC
2155.73	4874.74	1853942.75 N :: 729779.35 E



Azimuths to Grid North
True North: -0.46°
Magnetic North: 7.35°
Magnetic Field
Strength: 50896.1nT
Dip Angle: 63.67°
Date: 9/15/2011
Model: IGRF200510



Vertical Section at 235.80° (100 ft/in)

Final

Plan: Plan #5 (Bravo Dome 2232-321G/Lateral #1)
Created By: Heather Vannoy Date: October 13, 2011

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Oxy Permian
Bravo Dome 2232-321G - MWD Survey #1

Union County, NM
Bravo Dome 2232-321G
Your Ref:

*PST
DRILL*

Measured Dogleg Depth (ft)	Incl.	Azim.	Depth (ft)	Vertical Northings (ft)	Eastings (ft)	Vertical Section Rate (°/100ft)
729.00		0.490	306.960	728.99		-3.54
3.59	0.00					
805.00		0.700	299.800	804.98		-4.20
4.35	0.29					
900.00		0.400	288.500	899.98		-5.02
5.24	0.33					
995.00		0.700	305.000	994.97		-5.81
6.13	0.35					
1089.00		1.000	334.800	1088.96		-6.63
7.22	0.56					
1184.00		0.900	355.300	1183.95		-7.05
8.04	0.37					
1278.00		1.000	324.600	1277.94		-7.58
8.96	0.54					
1375.00		1.100	294.100	1374.92		-8.92
10.55	0.58					
1406.00		3.200	260.400	1405.90		-10.05
11.62	7.63					
1438.00		5.800	254.900	1437.80		-12.49
13.80	8.23					
1469.00		8.700	255.700	1468.55		-16.27
17.14	9.36					
1501.00		11.300	252.800	1500.06		-21.61
21.82	8.27					
1532.00		13.600	251.200	1530.33		-27.97
27.31	7.50					
1562.00		15.600	249.100	1559.36		-35.08
33.37	6.90					
1593.00		17.800	246.800	1589.05		-43.33
40.31	7.41					
1624.00		20.400	243.100	1618.34		-52.50
47.86	9.25					
1655.00		22.900	238.900	1647.15		-62.49
55.83	9.48					
1686.00		25.800	236.000	1675.39		-73.25
64.15	10.12					
1717.00		28.700	235.300	1702.95		-84.96
73.07	9.41					
1748.00		31.200	235.600	1729.81		-97.71
82.76	8.08					
1778.00		33.800	236.500	1755.11		-111.08
92.98	8.82					
1809.00		36.300	236.800	1780.48		-125.95
104.41	8.08					
1840.00		38.900	236.700	1805.04		-141.77
116.58	8.39					
1870.00		41.300	235.300	1827.99		-157.78

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128.81	8.55					
1901.00		43.500	233.900	1850.88	-89.75	-174.82
141.65	7.72					
1932.00		45.800	232.300	1872.93	-102.83	-192.23
154.57	8.26					
1963.00		48.200	231.900	1894.07	-116.76	-210.12
167.70	7.80					
1993.00		50.100	232.400	1913.70	-130.68	-228.04
180.86	6.46					
2023.00		52.000	232.800	1932.55	-144.85	-246.57
194.54	6.42					
2054.00		53.900	233.200	1951.23	-159.74	-266.33
209.19	6.21					
2085.00		55.900	233.300	1969.06	-174.91	-286.65
224.29	6.46					
2115.00		57.800	233.200	1985.46	-189.94	-306.78
239.24	6.34					
2146.00		60.200	232.800	2001.43	-205.93	-328.00
254.97	7.82					
2177.00		62.400	232.400	2016.31	-222.45	-349.59
270.91	7.19					
2207.00		64.400	232.500	2029.74	-238.79	-370.86
286.58	6.67					
2238.00		66.500	233.100	2042.62	-255.84	-393.32
303.20	7.00					
2269.00		68.300	233.600	2054.54	-272.92	-416.28
320.28	5.99					
2299.00		69.700	233.300	2065.29	-289.60	-438.78
337.04	4.76					
2330.00		71.400	233.500	2075.61	-307.03	-462.25
354.50	5.52					
2360.00		73.400	233.200	2084.68	-324.10	-485.19
371.57	6.73					
2391.00		75.500	232.900	2092.99	-342.05	-509.05
389.27	6.84					
2422.00		77.100	232.300	2100.33	-360.34	-532.98
406.93	5.49					
2454.00		77.900	231.700	2107.26	-379.58	-557.60
424.98	3.10					
2559.00		80.800	236.600	2126.67	-439.97	-641.21
487.71	5.35					
2592.00		80.400	236.100	2132.06	-458.01	-668.32
508.49	1.92					
2622.00		83.400	235.500	2136.29	-474.70	-692.88
527.21	10.19					
2653.00		85.400	235.200	2139.31	-492.24	-718.26
546.48	6.52					
2684.00		88.100	235.500	2141.07	-509.84	-743.71
565.81	8.76					
2714.00		90.000	234.300	2141.57	-527.08	-768.25
584.36	7.49					
2745.00		90.100	234.400	2141.54	-545.15	-793.44
603.29	0.46					
2775.00		90.000	234.600	2141.51	-562.57	-817.87
621.68	0.75					
2806.00		90.200	234.500	2141.46	-580.55	-843.12
640.70	0.72					
2837.00		90.300	233.700	2141.33	-598.73	-868.23
659.52	2.60					
2867.00		90.800	234.200	2141.04	-616.38	-892.49
677.68	2.36					
2898.00		90.800	234.600	2140.60	-634.43	-917.69
696.64	1.29					

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2929.00		89.000	234.400	2140.66	-652.43	-942.93
715.63	5.84					
2960.00		88.400	234.000	2141.36	-670.56	-968.06
734.50	2.33					
2991.00		89.200	234.800	2142.01	-688.60	-993.26
753.45	3.65					
3022.00		90.000	235.900	2142.23	-706.22	-1018.76
772.81	4.39					
3052.00		90.900	235.400	2141.99	-723.15	-1043.53
791.67	3.43					
3083.00		91.700	234.900	2141.29	-740.86	-1068.96
810.94	3.04					
3114.00		91.900	235.400	2140.31	-758.56	-1094.39
830.21	1.74					
3144.00		92.200	237.200	2139.24	-775.20	-1119.33
849.31	6.08					
3175.00		91.600	238.100	2138.21	-791.78	-1145.51
869.62	3.49					
3206.00		91.900	239.600	2137.27	-807.80	-1172.02
890.41	4.93					
3237.00		90.700	239.100	2136.56	-823.60	-1198.69
911.41	4.19					
3271.00		90.400	240.100	2136.24	-840.81	-1228.01
934.55	3.07					
3301.00		89.900	240.100	2136.16	-855.76	-1254.02
955.16	1.67					
3332.00		89.800	238.900	2136.24	-871.50	-1280.73
976.22	3.88					
3363.00		89.100	237.700	2136.54	-887.78	-1307.10
996.80	4.48					
3393.00		88.000	237.200	2137.30	-903.92	-1332.38
1016.38	4.03					
3424.00		88.100	237.400	2138.35	-920.66	-1358.45
1036.54	0.72					
3455.00		88.400	236.800	2139.30	-937.49	-1384.47
1056.62	2.16					
3485.00		89.500	237.100	2139.85	-953.85	-1409.61
1076.00	3.80					
3516.00		90.300	236.400	2139.90	-970.84	-1435.53
1095.94	3.43					
3547.00		90.300	235.700	2139.74	-988.16	-1461.25
1115.60	2.26					
3580.00		89.800	235.500	2139.71	-1006.80	-1488.47
1136.32	1.63					
3611.00		90.400	235.400	2139.66	-1024.38	-1514.01
1155.72	1.96					
3644.00		89.300	236.100	2139.74	-1042.95	-1541.28
1176.51	3.95					
3675.00		88.700	236.700	2140.28	-1060.10	-1567.10
1196.31	2.74					
3706.00		88.100	237.000	2141.15	-1077.05	-1593.04
1216.29	2.16					
3738.00		88.400	235.200	2142.13	-1094.89	-1619.59
1236.59	5.70					
3769.00		88.000	235.200	2143.10	-1112.57	-1645.03
1255.87	1.29					
3801.00		87.200	235.200	2144.44	-1130.82	-1671.29
1275.78	2.50					
3834.00		87.800	235.400	2145.88	-1149.59	-1698.39
1296.34	1.92					
3865.00		88.600	235.100	2146.85	-1167.25	-1723.85
1315.65	2.76					
3897.00		88.600	235.500	2147.64	-1185.46	-1750.15

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1335.61	1.25					
3928.00		86.300	236.000	2149.01	-1202.89	-1775.75
1355.12	7.59					
3960.00		84.500	236.100	2151.58	-1220.70	-1802.21
1375.34	5.63					
4030.00		83.060	236.100	2159.17	-1259.51	-1859.96
1419.51	2.06					