



Scientific Drilling

Gyroscopic Survey Report for MARBOB SURVEY

Well Location	EDDY COUNTY, NEW MEXICO
Well Name	SHOWSTOPPER 7 FC NO.1
Rig Name	PATRIOT NO.3
Survey Date	7/14/2009
Latitude	32.10 deg
North Reference	Grid North
Grid Correction	-0.17 deg
Depth Reference	TOP OF DRILL STRING
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 269.02Azim (deg)
Definitive Survey	FINAL SURVEY
Operator	VICTOR MELENDEZ JR

Comments



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Survey Report

Well Name:		SHOWSTOPPER 7 FC NO.1								
Survey:		FINAL SURVEY								
Survey Date:		7/14/2009								
MD ft	Inc deg	Azim deg	TVD ft	VS ft	Northing ft	Easting ft	DLS deg/100ft	Closure Distance ft	Closure Angle deg	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00	
100.00	0.09	223.28	100.00	0.05	-0.06	-0.05	0.09	0.08	223.28	
200.00	0.21	168.24	200.00	0.08	-0.29	-0.07	0.17	0.30	193.76	
300.00	0.22	230.49	300.00	0.19	-0.59	-0.18	0.22	0.62	197.27	
400.00	0.32	226.58	400.00	0.55	-0.91	-0.54	0.10	1.05	210.65	
500.00	0.43	236.61	500.00	1.08	-1.31	-1.05	0.12	1.68	218.89	
600.00	0.64	264.02	599.99	1.94	-1.57	-1.92	0.32	2.48	230.70	
700.00	0.76	297.18	699.98	3.08	-1.32	-3.06	0.42	3.33	246.66	
800.00	1.01	313.04	799.97	4.30	-0.42	-4.30	0.34	4.32	264.47	
900.00	0.73	328.78	899.96	5.26	0.73	-5.27	0.36	5.32	277.87	
1000.00	0.32	65.60	999.96	5.32	1.39	-5.35	0.83	5.52	284.54	
1100.00	0.37	134.41	1099.96	4.84	1.27	-4.86	0.39	5.02	284.68	
1200.00	0.48	125.14	1199.95	4.27	0.80	-4.28	0.13	4.36	280.61	
1300.00	0.46	112.36	1299.95	3.56	0.41	-3.57	0.11	3.59	276.51	
1400.00	0.60	98.20	1399.95	2.68	0.18	-2.68	0.19	2.69	273.85	
1500.00	0.77	69.06	1499.94	1.53	0.35	-1.54	0.38	1.58	282.65	
1600.00	0.89	62.38	1599.93	0.21	0.94	-0.23	0.16	0.97	346.55	
1700.00	0.76	53.37	1699.92	-1.02	1.70	0.99	0.18	1.97	30.33	
1800.00	0.97	61.22	1799.91	-2.31	2.51	2.27	0.24	3.38	42.21	
1900.00	1.21	60.31	1899.89	-3.99	3.44	3.93	0.23	5.22	48.85	
2000.00	1.72	61.27	1999.86	-6.24	4.68	6.16	0.52	7.74	52.80	
2100.00	2.23	66.63	2099.80	-9.37	6.17	9.27	0.53	11.13	56.33	
2200.00	2.23	67.09	2199.72	-12.97	7.70	12.84	0.02	14.97	59.05	
2300.00	2.39	69.01	2299.64	-16.73	9.20	16.57	0.18	18.96	60.96	
2400.00	2.88	78.83	2399.53	-21.16	10.43	20.98	0.67	23.44	63.56	
2500.00	3.12	88.16	2499.40	-26.36	11.01	26.17	0.54	28.39	67.19	
2600.00	2.48	85.14	2599.28	-31.24	11.28	31.05	0.67	33.03	70.03	
2700.00	2.45	85.00	2699.19	-35.52	11.65	35.33	0.03	37.20	71.75	
2800.00	2.02	94.35	2799.11	-39.40	11.70	39.21	0.56	40.92	73.38	
2900.00	2.05	93.65	2899.05	-42.94	11.45	42.75	0.04	44.25	75.00	
3000.00	2.15	91.52	2998.98	-46.59	11.29	46.40	0.13	47.76	76.32	
3100.00	1.86	96.13	3098.92	-50.08	11.07	49.89	0.33	51.11	77.49	
3200.00	1.88	98.02	3198.87	-53.31	10.67	53.13	0.06	54.19	78.65	
3300.00	1.48	100.91	3298.82	-56.19	10.19	56.02	0.40	56.94	79.69	
3400.00	1.47	105.65	3398.79	-58.68	9.60	58.53	0.12	59.31	80.68	
3500.00	1.48	106.59	3498.76	-61.15	8.89	61.00	0.03	61.65	81.71	
3600.00	1.18	112.75	3598.73	-63.32	8.12	63.19	0.33	63.71	82.68	
3700.00	0.89	120.79	3698.71	-64.92	7.33	64.80	0.33	65.22	83.55	
3800.00	0.90	119.46	3798.70	-66.25	6.55	66.15	0.02	66.47	84.35	



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3900.00	0.63	117.95	3898.69	-67.40	5.90	67.31	0.27	67.57	84.99	
4000.00	0.74	119.91	3998.68	-68.44	5.32	68.36	0.12	68.57	85.55	
4100.00	0.73	116.93	4098.68	-69.56	4.71	69.49	0.04	69.65	86.12	
4200.00	0.64	129.60	4198.67	-70.55	4.07	70.49	0.18	70.61	86.70	
4300.00	0.41	146.81	4298.66	-71.16	3.41	71.12	0.28	71.20	87.25	
4400.00	0.49	147.50	4398.66	-71.58	2.75	71.54	0.08	71.59	87.79	
4500.00	0.55	144.10	4498.66	-72.07	2.01	72.05	0.07	72.08	88.40	
4600.00	0.58	149.79	4598.65	-72.59	1.19	72.58	0.06	72.59	89.06	
4700.00	0.62	152.37	4698.65	-73.08	0.27	73.09	0.06	73.09	89.79	
4800.00	0.63	146.85	4798.64	-73.62	-0.67	73.64	0.06	73.64	90.52	
4900.00	0.65	145.81	4898.63	-74.22	-1.60	74.26	0.02	74.28	91.24	
5000.00	0.65	144.63	4998.63	-74.85	-2.53	74.91	0.01	74.95	91.94	
5100.00	0.60	146.25	5098.62	-75.45	-3.43	75.52	0.05	75.60	92.60	
5200.00	0.76	155.70	5198.62	-76.00	-4.47	76.09	0.19	76.22	93.36	
5300.00	0.79	158.66	5298.61	-76.50	-5.71	76.61	0.05	76.83	94.27	
5400.00	0.84	156.89	5398.60	-77.02	-7.03	77.15	0.06	77.47	95.20	
5500.00	0.88	156.98	5498.58	-77.58	-8.41	77.74	0.03	78.19	96.17	
5600.00	0.88	168.45	5598.57	-78.01	-9.86	78.19	0.18	78.81	97.19	
5700.00	0.88	162.35	5698.56	-78.37	-11.34	78.57	0.09	79.39	98.21	
5800.00	0.94	164.25	5798.55	-78.80	-12.86	79.03	0.07	80.07	99.24	
5900.00	0.38	239.61	5898.54	-78.72	-13.82	78.96	0.92	80.16	99.93	
6000.00	1.14	171.24	5998.54	-78.56	-14.97	78.82	1.06	80.23	100.75	
6100.00	1.14	168.81	6098.52	-78.87	-16.92	79.17	0.05	80.96	102.07	
6118.00	1.31	168.41	6116.51	-78.94	-17.30	79.24	0.93	81.11	102.32	