

Aim Directional Services, LLC

Survey Report

30-015-39177

Company: Nearburg Producing Company	Date: 08/16/2011	Time: 06:44:26	Page: 1
Field: Eddy County, New Mexico	Co-ordinate(NE) Reference: Well #5H, Grid North		
Site: Huber "3" Fed #5H	Vertical(TVD) Reference: SITE 0.0		
Well: #5H	Section(VS) Reference: Well(0.00N,0.00E,0.14Azi)		
Wellpath: Aim MWD Surveys	Survey Calculation Method: Minimum Curvature	Db: Sypase	

Field: Eddy County, New Mexico		
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone	
Geo Datum: GRS 1980	Coordinate System: Well Centre	
Sys Datum: Mean Sea Level	Geomagnetic Model: WMM_2010	

Site: Huber "3" Fed #5H		
Site Position: Northing: 580256.20 ft Latitude: 32 35 41.541 N		
From: Map Easting: 456577.60 ft Longitude: 104 36 30.806 W		
Position Uncertainty: 0.00 ft North Reference: Grid		
Ground Level: 3443.00 ft Grid Convergence: -0.15 deg		

Well: #5H	Slot Name:	
Well Position: +N/-S 0.00 ft Northing: 580256.20 ft Latitude: 32 35 41.541 N		
+E/-W 0.00 ft Easting: 456577.60 ft Longitude: 104 36 30.806 W		
Position Uncertainty: 0.00 ft		

Wellpath: Aim MWD Surveys	Drilled From: MS Gyro Surveys	
Current Datum: SITE	Tie-on Depth: 1950.00 ft	
Magnetic Data: 07/28/2011	Above System Datum: Mean Sea Level	
Field Strength: 48734 nT	Declination: 8.08 deg	
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.34 deg	
ft	+N/-S ft	Direction deg
0.00	0.00	0.14

Survey: Aim MWD Surveys	Start Date: 07/28/2011	
Company: Aim Directional Services, LLC	Engineer: Allison Reinert	
Tool:	Tied-to: User Defined	

MD	Incl	Azim	TVD	N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
1950.00	0.75	257.40	1949.95	-7.48	-3.18	-7.49	0.00	0.00	0.00	Tie into MS Gyro Surveys
2039.00	1.60	0.80	2038.94	-6.37	-3.73	-6.38	2.16	0.96	116.18	
2102.00	1.60	1.30	2101.91	-4.61	-3.70	-4.62	0.02	0.00	0.79	
2134.00	3.10	4.90	2133.89	-3.30	-3.62	-3.31	4.71	4.69	11.25	
2165.00	5.50	5.20	2164.80	-0.98	-3.41	-0.99	7.74	7.74	0.97	
2197.00	8.10	3.90	2196.57	2.79	-3.12	2.79	8.14	8.12	-4.06	
2228.00	11.00	3.30	2227.14	7.93	-2.80	7.92	9.36	9.35	-1.94	
2260.00	14.00	1.80	2258.37	14.84	-2.50	14.84	9.43	9.37	-4.69	
2292.00	17.20	0.70	2289.19	23.45	-2.32	23.44	10.04	10.00	-3.44	
2323.00	20.10	359.80	2318.56	33.36	-2.29	33.35	9.40	9.35	-2.90	
2355.00	23.40	0.80	2348.28	45.21	-2.22	45.21	10.38	10.31	3.13	
2385.00	26.70	1.40	2375.45	57.91	-1.97	57.91	11.03	11.00	2.00	
2417.00	30.20	2.20	2403.58	73.15	-1.48	73.14	11.00	10.94	2.50	
2449.00	33.90	2.30	2430.70	90.11	-0.82	90.11	11.56	11.56	0.31	
2479.00	37.30	1.90	2455.09	107.56	-0.18	107.56	11.36	11.33	-1.33	
2511.00	40.60	1.80	2479.97	127.66	0.47	127.66	10.31	10.31	-0.31	
2542.00	44.00	1.90	2502.90	148.51	1.14	148.52	10.97	10.97	0.32	
2574.00	47.20	1.90	2525.29	171.36	1.90	171.36	10.00	10.00	0.00	
2606.00	50.30	0.80	2546.38	195.41	2.46	195.41	10.03	9.69	-3.44	
2638.00	53.50	0.50	2566.13	220.59	2.75	220.59	10.03	10.00	-0.94	
2669.00	56.50	0.40	2583.90	245.98	2.95	245.98	9.68	9.68	-0.32	
2701.00	59.80	0.40	2600.79	273.15	3.13	273.16	10.31	10.31	0.00	
2733.00	63.00	0.30	2616.10	301.25	3.31	301.25	10.00	10.00	-0.31	
2763.00	66.10	0.30	2628.99	328.33	3.45	328.34	10.33	10.33	0.00	
2794.00	69.20	0.10	2640.78	357.00	3.55	357.01	10.02	10.00	-0.65	

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Survey Report

Company: Nearburg Producing Company Field: Eddy County, New Mexico Site: Huber "3" Fed #5H Well: #5H Wellpath: Aim MWD Surveys	Date: 08/16/2011 Time: 06:44:26 Page: 2 Co-ordinate(NE) Reference: Well: #5H Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N:0.00E:0.14Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Aim MWD Surveys

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
2826.00	72.50	0.40	2651.28	387.22	3.68	387.23	10.35	10.31	0.94	
2856.00	75.60	0.80	2659.52	416.06	3.98	416.07	10.41	10.33	1.33	
2901.00	79.40	0.50	2669.26	459.98	4.48	459.99	8.47	8.44	-0.67	
2933.00	81.80	0.30	2674.48	491.55	4.70	491.56	7.53	7.50	-0.62	
2963.00	83.60	359.30	2678.30	521.31	4.60	521.32	6.85	6.00	-3.33	
2994.00	85.00	358.90	2681.38	552.15	4.11	552.16	4.70	4.52	-1.29	
3024.00	87.30	358.60	2683.39	582.07	3.46	582.08	7.73	7.67	-1.00	
3055.00	89.50	359.40	2684.25	613.05	2.92	613.06	7.55	7.10	2.58	
3085.00	90.00	359.30	2684.39	643.05	2.58	643.06	1.70	1.67	-0.33	
3116.00	90.50	359.40	2684.25	674.05	2.23	674.05	1.64	1.61	0.32	
3208.00	91.30	0.20	2682.81	766.04	1.90	766.04	1.23	0.87	0.87	
3301.00	90.40	357.90	2681.43	859.01	0.36	859.00	2.66	-0.97	-2.47	
3394.00	89.50	357.90	2681.51	951.94	-3.05	951.93	0.97	-0.97	0.00	
3487.00	89.30	358.00	2682.48	1044.88	-6.37	1044.86	0.24	-0.22	0.11	
3580.00	89.10	0.70	2683.78	1137.85	-7.43	1137.83	2.91	-0.22	2.90	
3673.00	89.60	0.60	2684.83	1230.84	-6.37	1230.82	0.55	0.54	-0.11	
3765.00	90.20	0.80	2684.99	1322.83	-5.25	1322.82	0.69	0.65	0.22	
3858.00	90.10	0.50	2684.75	1415.83	-4.19	1415.81	0.34	-0.11	-0.32	
3951.00	90.20	0.00	2684.51	1508.83	-3.79	1508.81	0.55	0.11	-0.54	
4046.00	89.40	1.60	2684.84	1603.81	-2.46	1603.80	1.88	-0.84	1.68	
4139.00	90.20	1.60	2685.16	1696.77	0.14	1696.77	0.86	0.86	0.00	
4234.00	91.70	1.20	2683.59	1791.73	2.46	1791.73	1.63	1.58	-0.42	
4328.00	91.10	0.90	2681.29	1885.69	4.18	1885.69	0.71	-0.64	-0.32	
4422.00	90.50	1.00	2679.98	1979.66	5.74	1979.67	0.65	-0.64	0.11	
4516.00	88.70	359.80	2680.64	2073.65	6.39	2073.66	2.30	-1.91	-1.28	
4611.00	89.50	359.90	2682.13	2168.64	6.14	2168.65	0.85	0.84	0.11	
4707.00	89.50	358.10	2682.97	2264.62	4.47	2264.62	1.87	0.00	-1.87	
4801.00	89.80	0.00	2683.54	2358.60	2.91	2358.60	2.05	0.32	2.02	
4895.00	90.50	1.00	2683.29	2452.59	3.73	2452.59	1.30	0.74	1.06	
4978.00	91.60	1.30	2681.77	2535.56	5.40	2535.57	1.37	1.33	0.36	
5072.00	91.00	359.10	2679.64	2629.53	5.72	2629.54	2.43	-0.64	-2.34	
5166.00	90.80	357.90	2678.16	2723.48	3.26	2723.48	1.29	-0.21	-1.28	
5260.00	89.50	358.40	2677.92	2817.43	0.23	2817.43	1.48	-1.38	0.53	
5352.00	90.10	358.60	2678.24	2909.40	-2.18	2909.39	0.69	0.65	0.22	
5444.00	88.50	357.60	2679.36	3001.34	-5.23	3001.32	2.05	-1.74	-1.09	
5536.00	88.20	359.90	2682.01	3093.27	-7.23	3093.25	2.52	-0.33	2.50	
5629.00	87.30	0.00	2685.66	3186.20	-7.32	3186.17	0.97	-0.97	0.11	
5722.00	84.90	357.20	2691.99	3278.94	-9.58	3278.91	3.96	-2.58	-3.01	
5815.00	88.00	359.20	2697.75	3371.70	-12.49	3371.66	3.96	3.33	2.15	
5908.00	90.80	1.60	2698.72	3464.68	-11.84	3464.64	3.97	3.01	2.58	
6000.00	90.70	1.20	2697.52	3556.64	-9.59	3556.61	0.45	-0.11	-0.43	
6093.00	90.50	1.60	2696.54	3649.61	-7.32	3649.58	0.48	-0.22	0.43	
6187.00	90.20	1.80	2695.97	3743.57	-4.53	3743.54	0.38	-0.32	0.21	
6282.00	90.80	2.60	2695.14	3838.49	-0.89	3838.48	1.05	0.63	0.84	
6374.00	91.00	1.20	2693.70	3930.43	2.16	3930.42	1.54	0.22	-1.52	
6469.00	91.00	0.80	2692.04	4025.40	3.82	4025.39	0.42	0.00	-0.42	
6563.00	90.90	0.40	2690.48	4119.38	4.81	4119.38	0.44	-0.11	-0.43	
6659.00	90.50	1.20	2689.31	4215.36	6.15	4215.36	0.93	-0.42	0.83	
6754.00	91.20	0.80	2687.90	4310.34	7.80	4310.34	0.85	0.74	-0.42	
6848.00	90.90	0.60	2686.17	4404.31	8.95	4404.32	0.38	-0.32	-0.21	
6943.00	90.70	0.20	2684.85	4499.30	9.61	4499.31	0.47	-0.21	-0.42	
7038.00	90.20	0.30	2684.10	4594.30	10.03	4594.31	0.54	-0.53	0.11	
7133.00	90.20	359.80	2683.77	4689.30	10.11	4689.31	0.53	0.00	-0.53	
7197.00	90.10	0.10	2683.60	4753.30	10.06	4753.31	0.49	-0.16	0.47	
7251.00	90.40	0.30	2683.37	4807.29	10.24	4807.30	0.67	0.56	0.37	Last MWD Survey Taken

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Survey: Aim MWD Surveys

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
7300.00	90.40	0.30	2683.03	4856.29	10.50	4856.30	0.00	0.00	0.00	Projection to TD

Annotation

MD ft	TVD ft	
1950.00	1949.95	Tie into MS Gyro Surveys
7251.00	2683.37	Last MWD Survey Taken
7300.00	2683.03	Projection to TD

Aim

Directional Services, LLC

· Directional Drilling

· Horizontal Drilling

· MWD/LWD

· Mud Motors

State of New Mexico
County of Eddy

I, Thomas Rinald, certify that; I am employed by Aim Directional Services, LLC; that I did on the day(s) of July 27, 2011 through August 15, 2011 conduct or supervise the taking of a directional MWD survey from a depth of 2039 feet to a depth of 7300 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Aim Directional Services, LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of Nearburg Producing for Huber 3 Fed #5H in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Aim Directional Services, LLC.



Thomas Rinald
VP Operations

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