



Directional Drilling

Horizontal Drilling

MWD/LWD

Mud Motors

30-015-39177

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

Aim Directional Services, LLC

Survey Report

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: Sybase

Field: Eddy County, New Mexico

Map System: US State Plane Coordinate System 1983
 Geo Datum: GRS 1980
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Well Centre
 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

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

Survey: Aim MWD Surveys

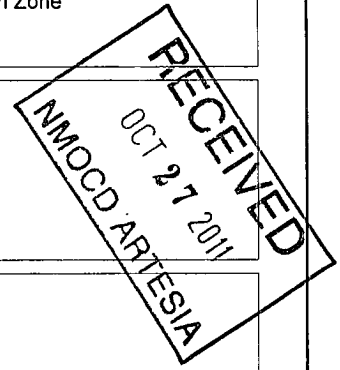
Start Date: 07/28/2011

Company: Aim Directional Services, LLC
 Tool:

Engineer: Allison Reinert
 Tied-to: User Defined

Survey: Aim MWD Surveys

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DES	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	



Aim Directional Services, LLC

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(N/E) 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

Aim Directional Services, LLC

Survey Report

Company:	Nearburg Producing Company	Date:	08/16/2011	Time:	06:44:26	Page:	3
Field:	Eddy County, New Mexico	Co-ordinate(NE) Reference:	Well: #5H Grid North	Vertical (TVD) Reference:	SITE 0:0		
Site:	Huber #3 Fed #5H	Section (VS) Reference:	Well (0.00N:0.00E:0.14Azi)	Survey Calculation Method:	Minimum Curvature	Db:	Sybase
Well:	#5H						
Wellpath:	Aim MWD Surveys						

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