

Aim Directional Services, LLC

Survey Report

30-015-39013

Company: Nearburg Producing Company	Date: 06/23/2011	Time: 11:11 02	Page: 1
Field: Eddy County, New Mexico	Co-ordinate(NE) Reference: Well #2H, Grnd North		
Site: Fairchild 24 #2H	Vertical (TVD) Reference: SITE 3417 0		
Well: #2H	Section (VS) Reference: Well (0.00N,0 00E,351 47Azi)		
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: Fairchild 24 #2H

Site Position:	Northing: 598684 50 ft	Latitude: 32 38 44 124 N
From: Map	Easting: 466010 50 ft	Longitude: 104 34 41 038 W
Position Uncertainty: 0 00 ft		North Reference: Grnd
Ground Level: 3417 00 ft		Grid Convergence: -0 13 deg

Well: #2H

Slot Name:

Well Position: +N/-S 0 00 ft	Northing: 598684 50 ft	Latitude: 32 38 44 124 N
+E/-W 0 00 ft	Easting: 466010 50 ft	Longitude: 104 34 41 038 W
Position Uncertainty: 0 00 ft		

Wellpath: Aim MWD Surveys

Drilled From: Gyrodata Gyro Surveys
Tie-on Depth: 2084 00 ft
Above System Datum: Mean Sea Level
Declination: 8 09 deg
Mag Dip Angle: 60 39 deg

Current Datum: SITE
Magnetic Data: 06/20/2011
Field Strength: 48779 nT
Vertical Section: Depth From (TVD) ft

+N/-S
ft

+E/-W
ft

Direction
deg

0 00

0 00

0 00

351 47

Survey: Aim MWD Surveys

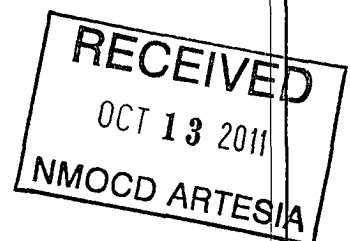
Start Date: 06/20/2011

Company: Aim Directional Services, LLC
Tool:

Engineer: Allison Reinert
Tied-to: User Defined

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
2084 00	1 09	346.35	2083 77	27 02	4 18	26 10	0 00	0 00	0 00	Tie into Gyrodata Gyro Su
2159 00	1 30	339 90	2158 76	28 51	3 71	27 65	0 33	0 28	-8 60	
2191 00	1 20	337 30	2190 75	29 16	3 46	28 33	0 36	-0 31	-8 12	
2222 00	1 30	341 00	2221 74	29 80	3 22	28 99	0 41	0 32	11 94	
2254 00	2 50	343 90	2253 72	30 81	2 91	30 04	3 76	3 75	9 06	
2285 00	5 70	350 00	2284 64	32 98	2 45	32 25	10 40	10 32	19 68	
2316 00	8 70	350 10	2315 39	36 80	1 78	36 13	9 68	9 68	0 32	
2348 00	11 90	349 90	2346 87	42 44	0 79	41 85	10 00	10 00	-0 62	
2379 00	15 00	349 50	2377 02	49 53	-0 50	49 06	10 00	10 00	-1 29	
2411 00	18 10	350 00	2407 69	58 50	-2 12	58 17	9 70	9 69	1 56	
2443 00	21 40	350 10	2437.80	69 15	-3 99	68 98	10 31	10 31	0 31	
2474 00	24 30	349 50	2466 37	80 99	-6 12	81 01	9 38	9 35	-1 94	
2506 00	27 60	350 30	2495 14	94 78	-8 57	95 00	10 37	10 31	2 50	
2537 00	30 50	350 70	2522 23	109 62	-11 06	110 05	9 38	9 35	1 29	
2569 00	33 00	352 10	2549 44	126 27	-13.57	126 89	8 14	7.81	4 37	
2601.00	35 50	351 70	2575 89	144 10	-16 11	144 90	7 84	7 81	-1 25	
2632 00	37 70	352 20	2600 78	162 40	-18 69	163 38	7 16	7 10	1 61	
2664 00	40 10	351 50	2625 68	182 29	-21 54	183 47	7 62	7 50	-2 19	
2695 00	43 30	351 30	2648 82	202 68	-24 63	204 09	10 33	10 32	-0 65	
2726 00	46 90	350 80	2670 70	224 36	-28 05	226 04	11 67	11 61	-1 61	
2757 00	50 30	350 20	2691 20	247 29	-31 89	249 29	11 06	10 97	-1 94	
2789 00	53 90	349 80	2710 85	272 16	-36 27	274 53	11 29	11 25	-1 25	
2820 00	57 10	350.00	2728 41	297 31	-40 75	300 06	10 34	10 32	0 65	
2851 00	59 60	350 90	2744 67	323 33	-45 13	326 44	8 43	8.06	2 90	



Aim Directional Services, LLC

Survey Report

Company: Nearburg Producing Company Field: Eddy County, New Mexico Site: Fairchild 24 #2H Well: #2H Wellpath: Aim MWD Surveys	Date: 06/23/2011 Time: 11:11 02 Page: 2 Co-ordinate(NE) Reference: Well #2H, Grnd North Vertical (TVD) Reference: SITE 3417.0 Section (VS) Reference: Well (0 00N,0 00E,351 47Az) 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
2882 00	62 20	351 20	2759 75	350 08	-49 34	353 53	8 43	8 39	0 97	
2914 00	66 10	351 70	2773 70	378 56	-53 62	382 32	12 27	12 19	1 56	
2945 00	69 20	351 70	2785 49	406 92	-57 76	410 99	10 00	10 00	0 00	
2977 00	72 00	351 70	2796 11	436 79	-62 11	441 17	8 75	8 75	0 00	
3008 00	74 60	351 60	2805 02	466 16	-66 42	470 86	8 39	8 39	-0 32	
3039 00	78 80	351.20	2812 15	495 98	-70.94	501 02	13 61	13 55	-1 29	
3071 00	83 00	351 10	2817 21	527 20	-75 80	532 61	13 13	13 12	-0 31	
3114 00	85 60	350 70	2821.48	569 44	-82 56	575 39	6 12	6 05	-0.93	
3145 00	88 30	352 20	2823 13	600 05	-87 16	606 34	9 96	8 71	4 84	
3176 00	90 10	350 70	2823 56	630 70	-91 77	637 34	7 56	5 81	-4 84	
3207 00	90 60	350 60	2823 37	661 29	-96 81	668 33	1 64	1 61	-0 32	
3300 00	91 40	350.80	2821 75	753 05	-111 84	761 31	0 89	0 86	0 22	
3393 00	91 40	351 70	2819 48	844 94	-125 98	854 28	0 97	0 00	0 97	
3486 00	90 50	352 00	2817 94	936 99	-139 16	947 27	1 02	-0 97	0 32	
3577 00	90 50	350 60	2817 14	1026 94	-152 92	1038 26	1 54	0 00	-1 54	
3670 00	90 80	350 40	2816 09	1118 65	-168 27	1131 24	0 39	0 32	-0 22	
3764 00	90 60	350 20	2814 94	1211 30	-184 11	1225 21	0 30	-0 21	-0 21	
3857 00	90 50	351 20	2814 05	1303 08	-199 14	1318 20	1 08	-0 11	1 08	
3951 00	90 30	351 70	2813 39	1396 03	-213 11	1412 20	0 57	-0 21	0 53	
4043 00	90 40	352 40	2812 83	1487 14	-225 84	1504 19	0 77	0 11	0 76	
4135 00	90 20	353 10	2812 35	1578 41	-237 45	1596 17	0 79	-0 22	0 76	
4231 00	90 90	351 90	2811 43	1673 58	-249 98	1692 14	1 45	0 73	-1 25	
4325 00	90 90	353 10	2809 95	1766 76	-262 24	1786 11	1 28	0 00	1 28	
4419 00	90 40	351 80	2808 88	1859 94	-274 59	1880 09	1 48	-0 53	-1 38	
4514 00	90 50	351 70	2808 14	1953 95	-288 23	1975 09	0 15	0 11	-0 11	
4609 00	90 80	351 50	2807 06	2047 93	-302 10	2070 08	0 38	0 32	-0 21	
4703 00	91 20	351 90	2805 42	2140 93	-315 67	2164 07	0 60	0 43	0 43	
4798 00	91 40	350 70	2803 26	2234 81	-330 04	2259 04	1 28	0 21	-1 26	
4892 00	91 50	350 00	2800 88	2327 45	-345.79	2352 99	0 75	0 11	-0 74	
4955 00	91 50	350 70	2799 23	2389 53	-356 34	2415 96	1 11	0 00	1 11	Last MWD Survey Taken Projection to TD
5035 00	91 50	350 70	2797.14	2468 45	-369 27	2495 92	0 00	0 00	0 00	

Annotation

MD ft	TVD ft	
2084 00	2083 77	Tie into Gyrodata Gyro Surveys
4955 00	2799 23	Last MWD Survey Taken
5035 00	2797 14	Projection to TD



· 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 June 18, 2011 through June 23, 2011 conduct or supervise the taking of a directional MWD survey from a depth of 2159 feet to a depth of 5035 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 Fairchild 24 #2H 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