

Nearburg Producing

Fairchild 24, Well No. 2H
Eddy County, New Mexico
Quote No. 041511129

RECEIVED

MAY 04 2011

30-015-39013

Aim
Directional Services, LLC

SITE DETAILS

Fairchild 24 #2H

Site Centre Northing: 598684.50
Easting: 466010.50

Ground Level: 3417.00
Positional Uncertainty: 0.00
Convergence: -0.13

NMOCD ARTESIA

FIELD DETAILS

Eddy County, New Mexico

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: WMM_2010

System Datum: Mean Sea Level
Local North: Grid North

ANNOTATIONS

No.	TVD	MD	Annotation
1	2252.00	2252.00	KOP, Build 10.00°/100'
2	2824.96	3151.99	Hold 90.00°, 351.47° Azimuth
3	2825.00	5101.05	PBHL - Lateral



Azimuths to Grid North
True North: 0.13°
Magnetic North: 8.23°

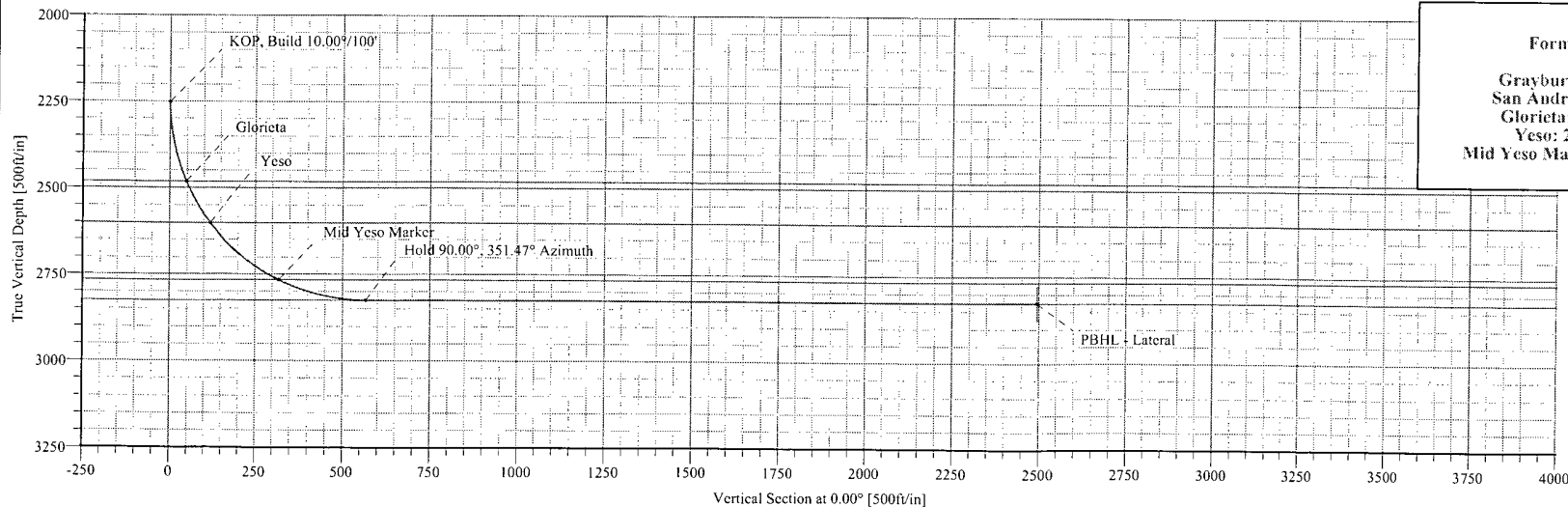
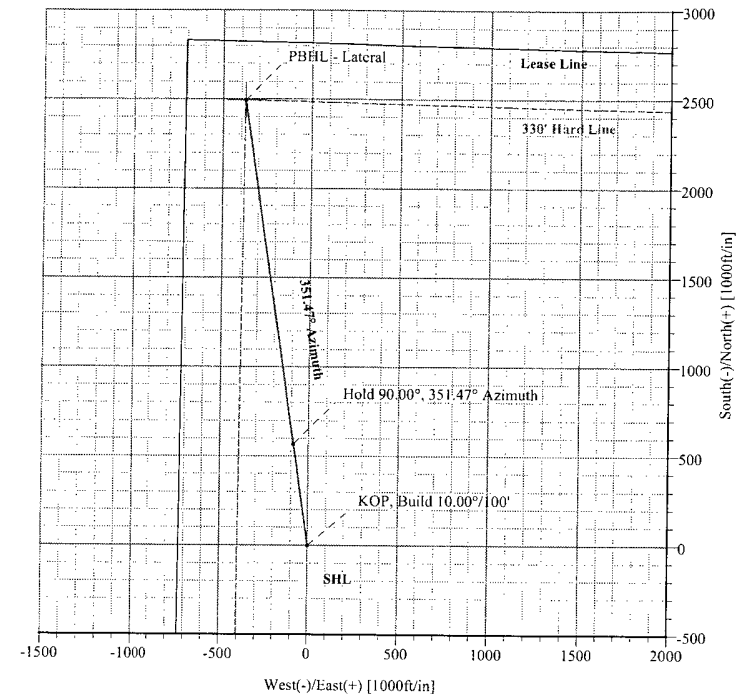
Magnetic Field
Strength: 48792nT
Dip Angle: 60.39°
Date: 2011/05/03
Model: WMM_2010

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Lateral	2825.00	2494.10	-374.20	601178.60	465636.30	32°39'08.795N	104°34'45.482W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2252.00	0.00	0.00	2252.00	0.00	0.00	0.00	0.00	0.00	
2	3151.99	90.00	351.47	2824.96	566.60	-85.01	10.00	351.47	566.60	
3	5101.06	90.00	351.47	2825.00	2494.10	-374.20	0.00	0.00	2494.10	PBHL - Lateral



Formation Tops:

Grayburg: 472' KBTVD
San Andres: 902' KBTVD
Glorieta: 2482' KBTVD
Yeso: 2602' KBTVD
Mid Yeso Marker: 2767' KBTVD

Drawn By: SNH
Date Created: 04/15/11
Date Revised: 05/03/11

File: Nearburg Producing - Fairchild 24 #2H Lateral 1r1.gp32

Aim Directional Services

Planning Report - Geographic

Company: Nearburg Producing Company	Date: 2011/05/03	Time: 15:46:22	Page: 1
Field: Eddy County, New Mexico	Co-ordinate(NE) Reference: Well: #2H, Grid North		
Site: Fairchild 24 #2H	Vertical (TVD) Reference: SITE 3417.0		
Well: #2H	Section (VS) Reference: Well (0.00N;0.00E;0.00Azi)		
Wellpath: Lateral 1r1	Plan: Lateral 1r1		

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: Grid	
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: Lateral 1r1		Drilled From: Surface	
Current Datum: SITE	Height 3417.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 2011/05/03		Above System Datum: Mean Sea Level	
Field Strength: 48792 nT		Declination: 8.10 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.39 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	0.00

Plan: Lateral 1r1	Date Composed: 2011/05/03	
	Version: 1	
Principal: Yes	Tied-to: User Defined	

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
2252.00	0.00	0.00	2252.00	0.00	0.00	0.00	0.00	0.00	0.00	
3151.99	90.00	351.47	2824.96	566.60	-85.01	10.00	10.00	-0.95	351.47	
5101.06	90.00	351.47	2825.00	2494.10	-374.20	0.00	0.00	0.00	0.00	PBHL - Lateral

Section 1 : Start DLS 10.00 TFO 351.47

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	TFO deg
2252.00	0.00	0.00	2252.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	4.80	351.47	2299.94	1.99	-0.30	1.99	10.00	10.00	0.00	0.00
2350.00	9.80	351.47	2349.52	8.27	-1.24	8.27	10.00	10.00	0.00	0.00
2400.00	14.80	351.47	2398.36	18.80	-2.82	18.80	10.00	10.00	0.00	0.00
2450.00	19.80	351.47	2446.08	33.50	-5.03	33.50	10.00	10.00	0.00	0.00
2488.67	23.67	351.47	2482.00	47.66	-7.15	47.66	10.00	10.00	0.00	0.00
2500.00	24.80	351.47	2492.33	52.25	-7.84	52.25	10.00	10.00	0.00	0.00
2550.00	29.80	351.47	2536.75	74.93	-11.24	74.93	10.00	10.00	0.00	0.00
2600.00	34.80	351.47	2578.99	101.34	-15.20	101.34	10.00	10.00	0.00	0.00
2628.52	37.65	351.47	2602.00	118.01	-17.70	118.01	10.00	10.00	0.00	0.00
2650.00	39.80	351.47	2618.76	131.29	-19.70	131.29	10.00	10.00	0.00	0.00
2700.00	44.80	351.47	2655.73	164.56	-24.69	164.56	10.00	10.00	0.00	0.00
2750.00	49.80	351.47	2689.62	200.89	-30.14	200.89	10.00	10.00	0.00	0.00
2800.00	54.80	351.47	2720.19	240.00	-36.01	240.00	10.00	10.00	0.00	0.00
2850.00	59.80	351.47	2747.19	281.60	-42.25	281.60	10.00	10.00	0.00	0.00
2892.07	64.01	351.47	2767.00	318.29	-47.75	318.29	10.00	10.00	0.00	0.00
2900.00	64.80	351.47	2770.43	325.36	-48.82	325.36	10.00	10.00	0.00	0.00
2950.00	69.80	351.47	2789.72	370.96	-55.66	370.96	10.00	10.00	0.00	0.00
3000.00	74.80	351.47	2804.91	418.06	-62.72	418.06	10.00	10.00	0.00	0.00
3050.00	79.80	351.47	2815.90	466.28	-69.96	466.28	10.00	10.00	0.00	0.00
3100.00	84.80	351.47	2822.60	515.26	-77.31	515.26	10.00	10.00	0.00	0.00

Aim Directional Services

Planning Report - Geographic

Company: Nearburg Producing Company
Field: Eddy County, New Mexico
Site: Fairchild 24 #2H
Well: #2H
Wellpath: Lateral 1r1

Date: 2011/05/03 Time: 15:46:22 Page: 2
Co-ordinate(NE) Reference: Well: #2H, Grid North
Vertical (TVD) Reference: SITE 3417.0
Section (VS) Reference: Well (0.00N;0.00E;0.00Azi)
Plan: Lateral 1r1

Section 1 : Start DLS 10.00 TFO 351.47

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	TFO deg
3151.99	90.00	351.47	2824.96	566.60	-85.01	566.60	10.00	10.00	0.00	0.00

Section 2 : Start Hold

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	TFO deg
3200.00	90.00	351.47	2824.96	614.08	-92.13	614.08	0.00	0.00	0.00	0.00
3300.00	90.00	351.47	2824.96	712.98	-106.97	712.98	0.00	0.00	0.00	0.00
3400.00	90.00	351.47	2824.96	811.87	-121.81	811.87	0.00	0.00	0.00	0.00
3500.00	90.00	351.47	2824.97	910.76	-136.65	910.76	0.00	0.00	0.00	0.00
3600.00	90.00	351.47	2824.97	1009.66	-151.48	1009.66	0.00	0.00	0.00	0.00
3700.00	90.00	351.47	2824.97	1108.55	-166.32	1108.55	0.00	0.00	0.00	0.00
3800.00	90.00	351.47	2824.97	1207.44	-181.16	1207.44	0.00	0.00	0.00	0.00
3900.00	90.00	351.47	2824.97	1306.34	-196.00	1306.34	0.00	0.00	0.00	0.00
4000.00	90.00	351.47	2824.98	1405.23	-210.83	1405.23	0.00	0.00	0.00	0.00
4100.00	90.00	351.47	2824.98	1504.12	-225.67	1504.12	0.00	0.00	0.00	0.00
4200.00	90.00	351.47	2824.98	1603.02	-240.51	1603.02	0.00	0.00	0.00	0.00
4300.00	90.00	351.47	2824.98	1701.91	-255.34	1701.91	0.00	0.00	0.00	0.00
4400.00	90.00	351.47	2824.98	1800.80	-270.18	1800.80	0.00	0.00	0.00	0.00
4500.00	90.00	351.47	2824.99	1899.70	-285.02	1899.70	0.00	0.00	0.00	0.00
4600.00	90.00	351.47	2824.99	1998.59	-299.86	1998.59	0.00	0.00	0.00	0.00
4700.00	90.00	351.47	2824.99	2097.48	-314.69	2097.48	0.00	0.00	0.00	0.00
4800.00	90.00	351.47	2824.99	2196.37	-329.53	2196.37	0.00	0.00	0.00	0.00
4900.00	90.00	351.47	2825.00	2295.27	-344.37	2295.27	0.00	0.00	0.00	0.00
5000.00	90.00	351.47	2825.00	2394.16	-359.21	2394.16	0.00	0.00	0.00	0.00
5101.06	90.00	351.47	2825.00	2494.10	-374.20	2494.10	0.00	0.00	0.00	0.00

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
2252.00	0.00	0.00	2252.00	0.00	0.00	598684.50	466010.50	32	38	44.124 N	104	34	41.038 W
2300.00	4.80	351.47	2299.94	1.99	-0.30	598686.49	466010.20	32	38	44.143 N	104	34	41.041 W
2350.00	9.80	351.47	2349.52	8.27	-1.24	598692.77	466009.26	32	38	44.205 N	104	34	41.052 W
2400.00	14.80	351.47	2398.36	18.80	-2.82	598703.30	466007.68	32	38	44.309 N	104	34	41.071 W
2450.00	19.80	351.47	2446.08	33.50	-5.03	598718.00	466005.47	32	38	44.455 N	104	34	41.097 W
2488.67	23.67	351.47	2482.00	47.66	-7.15	598732.16	466003.35	32	38	44.595 N	104	34	41.123 W
2500.00	24.80	351.47	2492.33	52.25	-7.84	598736.75	466002.66	32	38	44.640 N	104	34	41.131 W
2550.00	29.80	351.47	2536.75	74.93	-11.24	598759.43	465999.26	32	38	44.865 N	104	34	41.171 W
2600.00	34.80	351.47	2578.99	101.34	-15.20	598785.84	465995.30	32	38	45.126 N	104	34	41.218 W
2628.52	37.65	351.47	2602.00	118.01	-17.70	598802.51	465992.80	32	38	45.291 N	104	34	41.248 W
2650.00	39.80	351.47	2618.76	131.29	-19.70	598815.79	465990.80	32	38	45.422 N	104	34	41.272 W
2700.00	44.80	351.47	2655.73	164.56	-24.69	598849.06	465985.81	32	38	45.751 N	104	34	41.331 W
2750.00	49.80	351.47	2689.62	200.89	-30.14	598885.39	465980.36	32	38	46.111 N	104	34	41.396 W
2800.00	54.80	351.47	2720.19	240.00	-36.01	598924.50	465974.49	32	38	46.498 N	104	34	41.465 W
2850.00	59.80	351.47	2747.19	281.60	-42.25	598966.10	465968.25	32	38	46.909 N	104	34	41.539 W
2892.07	64.01	351.47	2767.00	318.29	-47.75	599002.79	465962.75	32	38	47.272 N	104	34	41.605 W
2900.00	64.80	351.47	2770.43	325.36	-48.82	599009.86	465961.68	32	38	47.342 N	104	34	41.617 W
2950.00	69.80	351.47	2789.72	370.96	-55.66	599055.46	465954.84	32	38	47.793 N	104	34	41.699 W
3000.00	74.80	351.47	2804.91	418.06	-62.72	599102.56	465947.78	32	38	48.259 N	104	34	41.783 W
3050.00	79.80	351.47	2815.90	466.28	-69.96	599150.78	465940.54	32	38	48.736 N	104	34	41.868 W
3100.00	84.80	351.47	2822.60	515.26	-77.31	599199.76	465933.19	32	38	49.220 N	104	34	41.956 W
3151.99	90.00	351.47	2824.96	566.60	-85.01	599251.10	465925.49	32	38	49.728 N	104	34	42.047 W
3200.00	90.00	351.47	2824.96	614.08	-92.13	599298.58	465918.37	32	38	50.198 N	104	34	42.132 W
3300.00	90.00	351.47	2824.96	712.98	-106.97	599397.48	465903.53	32	38	51.176 N	104	34	42.308 W
3400.00	90.00	351.47	2824.96	811.87	-121.81	599496.37	465888.69	32	38	52.154 N	104	34	42.484 W
3500.00	90.00	351.47	2824.97	910.76	-136.65	599595.26	465873.85	32	38	53.133 N	104	34	42.660 W
3600.00	90.00	351.47	2824.97	1009.66	-151.48	599694.16	465859.02	32	38	54.111 N	104	34	42.837 W

Aim Directional Services

Planning Report - Geographic

Company: Nearburg Producing Company Field: Eddy County, New Mexico Site: Fairchild 24 #2H Well: #2H Wellpath: Lateral 1r1	Date: 2011/05/03 Time: 15:46:22 Page: 3 Co-ordinate(NE) Reference: Well: #2H, Grid North Vertical (TVD) Reference: SITE 3417.0 Section (VS) Reference: Well (0.00N:0.00E:0.00Azi) Plan: Lateral 1r1
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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
3700.00	90.00	351.47	2824.97	1108.55	-166.32	599793.05	465844.18	32	38	55.089 N	104	34	43.013 W
3800.00	90.00	351.47	2824.97	1207.44	-181.16	599891.94	465829.34	32	38	56.067 N	104	34	43.189 W
3900.00	90.00	351.47	2824.97	1306.34	-196.00	599990.84	465814.50	32	38	57.046 N	104	34	43.365 W
4000.00	90.00	351.47	2824.98	1405.23	-210.83	600089.73	465799.67	32	38	58.024 N	104	34	43.542 W
4100.00	90.00	351.47	2824.98	1504.12	-225.67	600188.62	465784.83	32	38	59.002 N	104	34	43.718 W
4200.00	90.00	351.47	2824.98	1603.02	-240.51	600287.52	465769.99	32	38	59.980 N	104	34	43.894 W
4300.00	90.00	351.47	2824.98	1701.91	-255.34	600386.41	465755.16	32	39	0.959 N	104	34	44.070 W
4400.00	90.00	351.47	2824.98	1800.80	-270.18	600485.30	465740.32	32	39	1.937 N	104	34	44.246 W
4500.00	90.00	351.47	2824.99	1899.70	-285.02	600584.20	465725.48	32	39	2.915 N	104	34	44.423 W
4600.00	90.00	351.47	2824.99	1998.59	-299.86	600683.09	465710.64	32	39	3.893 N	104	34	44.599 W
4700.00	90.00	351.47	2824.99	2097.48	-314.69	600781.98	465695.81	32	39	4.872 N	104	34	44.775 W
4800.00	90.00	351.47	2824.99	2196.37	-329.53	600880.87	465680.97	32	39	5.850 N	104	34	44.951 W
4900.00	90.00	351.47	2825.00	2295.27	-344.37	600979.77	465666.13	32	39	6.828 N	104	34	45.128 W
5000.00	90.00	351.47	2825.00	2394.16	-359.21	601078.66	465651.29	32	39	7.806 N	104	34	45.304 W
5101.06	90.00	351.47	2825.00	2494.10	-374.20	601178.60	465636.30	32	39	8.795 N	104	34	45.482 W

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
PBHL - Lateral			2825.00	2494.10	-374.20	601178.60	465636.30	32	39	8.795 N	104	34	45.482 W

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
	0.00	Grayburg		0.00	0.00
	0.00	San Andres		0.00	0.00
2488.67	2482.00	Glorieta		0.00	0.00
2628.52	2602.00	Yeso		0.00	0.00
2892.07	2767.00	Mid Yeso Marker		0.00	0.00
5000.00	2825.00	Target Center Line		0.00	0.00

Annotation

MD ft	TVD ft	
2252.00	2252.00	KOP, Build 10.00°/100'
3151.99	2824.96	Hold 90.00°, 351.47° Azimuth
5101.05	2825.00	PBHL - Lateral