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Mewbourne Oil Company .

Lea County N.M.

Section 1-2-19S-32E Crazy Wolf 1/2 B2CD Fed Com 1H

Crazy Wolf 1/2 B2CD Fed Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

16 November, 2015



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APR 04 2016



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Crazy Wolf 1/2 B2CD Fed Com 1H
Project:	Lea County N.M.	TVD Reference:	3693 + 25 @ 3718.0usft (Patterson 250)
Site:	Section 1-2-19S-32E Crazy Wolf 1/2 B2CD Fed Com 1H	MD Reference:	3693 + 25 @ 3718.0usft (Patterson 250)
Well:	Crazy Wolf 1/2 B2CD Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Lea County N.M.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 1-2-19S-32E Crazy Wolf 1/2 B2CD Fed Com 1H				
Site Position:		Northing:	616,344.20 usft	Latitude:	32° 41' 34.529 N
From:	Map	Easting:	688,974.80 usft	Longitude:	103° 43' 8.643 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.33 °

Well	Crazy Wolf 1/2 B2CD Fed Com 1H				
Well Position	+N/-S	0.0 usft	Northing:	616,344.20 usft	Latitude: 32° 41' 34.529 N
	+E/-W	0.0 usft	Easting:	688,974.80 usft	Longitude: 103° 43' 8.643 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	25.0 usft	Ground Level: 3,693.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/16/2015	7.24	60.49	48,372

Design	Original Hole				
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	299.88

Survey Program	Date 11/16/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,945.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
9,069.0	16,928.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.36	27.62	100.0	0.3	0.1	0.0	0.36	0.36	0.00
200.0	0.27	348.11	200.0	0.8	0.2	0.2	0.23	-0.09	-39.51
300.0	0.42	11.04	300.0	1.4	0.3	0.5	0.20	0.15	22.93
400.0	0.45	344.55	400.0	2.1	0.2	0.9	0.20	0.03	-26.49
500.0	0.40	279.68	500.0	2.6	-0.2	1.5	0.46	-0.05	-64.87
600.0	0.56	15.04	600.0	3.1	-0.4	1.9	0.72	0.16	95.36
700.0	0.29	168.09	700.0	3.3	-0.3	1.9	0.83	-0.27	153.05
800.0	0.39	339.82	800.0	3.4	-0.3	2.0	0.68	0.10	171.73



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Site:	Section 1-2-19S-32E Crazy Wolf 1/2 B2CD Fed Com 1H	MD Reference:	3693 + 25 @ 3718.0usft (Patterson 250)
Well:	Crazy Wolf 1/2 B2CD Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker EDM

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
900.0	0.30	247.06	900.0	3.6	-0.7	2.4	0.50	-0.09	-92.76	
1,000.0	0.67	78.31	1,000.0	3.6	-0.3	2.1	0.97	0.37	-168.75	
1,100.0	0.90	331.20	1,100.0	4.4	-0.2	2.3	1.27	0.23	-107.11	
1,200.0	0.79	18.34	1,200.0	5.8	-0.3	3.1	0.68	-0.11	47.14	
1,300.0	1.00	344.87	1,300.0	7.3	-0.3	3.9	0.55	0.21	-33.47	
1,400.0	1.14	334.95	1,399.9	9.0	-1.0	5.3	0.23	0.14	-9.92	
1,500.0	1.09	332.55	1,499.9	10.7	-1.8	6.9	0.07	-0.05	-2.40	
1,600.0	0.78	326.07	1,599.9	12.2	-2.7	8.4	0.33	-0.31	-6.48	
1,700.0	0.74	328.24	1,699.9	13.3	-3.4	9.5	0.05	-0.04	2.17	
1,800.0	0.62	316.06	1,799.9	14.2	-4.1	10.6	0.19	-0.12	-12.18	
1,900.0	0.88	223.76	1,899.9	14.0	-5.0	11.3	1.10	0.26	-92.30	
2,000.0	0.71	301.57	1,999.9	13.8	-6.1	12.1	1.01	-0.17	77.81	
2,100.0	0.56	258.58	2,099.9	14.0	-7.1	13.1	0.49	-0.15	-42.99	
2,200.0	0.75	337.02	2,199.9	14.5	-7.8	14.0	0.84	0.19	78.44	
2,300.0	0.86	328.46	2,299.9	15.8	-8.4	15.2	0.16	0.11	-8.56	
2,400.0	0.91	321.26	2,399.8	17.0	-9.3	16.6	0.12	0.05	-7.20	
2,500.0	0.76	325.66	2,499.8	18.2	-10.2	17.9	0.16	-0.15	4.40	
2,600.0	0.66	354.75	2,599.8	19.3	-10.6	18.9	0.37	-0.10	29.09	
2,700.0	0.93	20.58	2,699.8	20.7	-10.4	19.3	0.44	0.27	25.83	
2,800.0	1.18	24.22	2,799.8	22.4	-9.7	19.5	0.26	0.25	3.64	
2,900.0	1.31	36.99	2,899.8	24.2	-8.6	19.5	0.31	0.13	12.77	
3,000.0	1.65	33.68	2,999.7	26.3	-7.1	19.3	0.35	0.34	-3.31	
3,100.0	1.64	37.09	3,099.7	28.7	-5.4	19.0	0.10	-0.01	3.41	
3,200.0	1.30	28.10	3,199.7	30.8	-4.0	18.9	0.41	-0.34	-8.99	
3,300.0	0.96	324.17	3,299.7	32.5	-4.0	19.6	1.23	-0.34	-63.93	
3,400.0	1.12	307.39	3,399.6	33.8	-5.3	21.4	0.34	0.16	-16.78	
3,500.0	0.91	312.97	3,499.6	34.9	-6.6	23.1	0.23	-0.21	5.58	
3,600.0	1.41	301.77	3,599.6	36.1	-8.2	25.1	0.55	0.50	-11.20	
3,700.0	1.09	311.45	3,699.6	37.4	-10.0	27.3	0.38	-0.32	9.68	
3,800.0	1.13	305.28	3,799.6	38.6	-11.5	29.2	0.13	0.04	-6.17	
3,900.0	1.22	316.46	3,899.5	39.9	-13.1	31.2	0.25	0.09	11.18	
4,000.0	1.14	304.65	3,999.5	41.2	-14.6	33.2	0.26	-0.08	-11.81	
4,100.0	1.08	318.56	4,099.5	42.5	-16.1	35.1	0.28	-0.06	13.91	
4,200.0	1.45	310.79	4,199.5	44.1	-17.6	37.2	0.41	0.37	-7.77	
4,300.0	1.02	221.05	4,299.5	44.2	-19.2	38.7	1.77	-0.43	-89.74	
4,400.0	1.05	299.65	4,399.4	44.0	-20.6	39.7	1.31	0.03	78.60	
4,500.0	1.13	291.78	4,499.4	44.8	-22.3	41.6	0.17	0.08	-7.87	
4,600.0	0.96	294.65	4,599.4	45.5	-23.9	43.4	0.18	-0.17	2.87	
4,700.0	0.96	295.45	4,699.4	46.2	-25.5	45.1	0.01	0.00	0.80	
4,800.0	0.97	307.84	4,799.4	47.1	-26.9	46.8	0.21	0.01	12.39	
4,900.0	1.05	297.18	4,899.4	48.0	-28.4	48.5	0.20	0.08	-10.66	
5,000.0	1.14	293.92	4,999.4	48.9	-30.1	50.4	0.11	0.09	-3.26	



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Well:	Crazy Wolf 1/2 B2CD Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	1.23	295.38	5,099.3	49.7	-32.0	52.5	0.09	0.09	1.46
5,200.0	1.43	301.58	5,199.3	50.8	-34.0	54.8	0.25	0.20	6.20
5,300.0	1.51	309.53	5,299.3	52.3	-36.1	57.4	0.22	0.08	7.95
5,400.0	1.35	296.14	5,399.2	53.7	-38.2	59.8	0.37	-0.16	-13.39
5,500.0	1.26	322.71	5,499.2	55.1	-39.9	62.0	0.61	-0.09	26.57
5,600.0	1.29	293.42	5,599.2	56.4	-41.6	64.2	0.65	0.03	-29.29
5,700.0	1.37	295.44	5,699.2	57.4	-43.7	66.5	0.09	0.08	2.02
5,800.0	1.33	292.22	5,799.1	58.3	-45.9	68.8	0.09	-0.04	-3.22
5,900.0	1.06	287.69	5,899.1	59.0	-47.8	70.9	0.29	-0.27	-4.53
6,000.0	1.16	289.65	5,999.1	59.7	-49.6	72.8	0.11	0.10	1.96
6,100.0	1.23	286.40	6,099.1	60.3	-51.6	74.8	0.10	0.07	-3.25
6,200.0	1.21	289.65	6,199.0	61.0	-53.6	76.9	0.07	-0.02	3.25
6,300.0	1.21	276.64	6,299.0	61.4	-55.7	78.9	0.27	0.00	-13.01
6,400.0	1.21	280.25	6,399.0	61.8	-57.8	80.9	0.08	0.00	3.61
6,500.0	0.94	281.23	6,499.0	62.1	-59.6	82.6	0.27	-0.27	0.98
6,600.0	1.27	324.96	6,599.0	63.2	-61.1	84.4	0.88	0.33	43.73
6,700.0	1.22	280.79	6,698.9	64.3	-62.7	86.4	0.94	-0.05	-44.17
6,800.0	0.91	280.80	6,798.9	64.6	-64.6	88.2	0.31	-0.31	0.01
6,900.0	1.07	297.53	6,898.9	65.2	-66.2	89.9	0.33	0.16	16.73
7,000.0	0.96	282.35	6,998.9	65.8	-67.8	91.6	0.29	-0.11	-15.18
7,100.0	1.08	274.42	7,098.9	66.1	-69.6	93.2	0.19	0.12	-7.93
7,200.0	1.30	267.80	7,198.9	66.1	-71.7	95.1	0.26	0.22	-6.62
7,300.0	1.43	269.77	7,298.8	66.0	-74.0	97.1	0.14	0.13	1.97
7,400.0	1.61	273.99	7,398.8	66.1	-76.7	99.4	0.21	0.18	4.22
7,500.0	2.06	284.87	7,498.7	66.7	-79.8	102.4	0.57	0.45	10.88
7,600.0	2.34	300.66	7,598.7	68.2	-83.3	106.2	0.66	0.28	15.79
7,700.0	1.98	316.39	7,698.6	70.5	-86.3	109.9	0.69	-0.36	15.73
7,800.0	1.76	326.56	7,798.6	73.0	-88.3	112.9	0.40	-0.22	10.17
7,900.0	1.76	328.29	7,898.5	75.6	-90.0	115.7	0.05	0.00	1.73
8,000.0	1.56	299.83	7,998.5	77.6	-91.9	118.4	0.84	-0.20	-28.46
8,100.0	2.30	285.16	8,098.4	78.8	-95.1	121.7	0.88	0.74	-14.67
8,200.0	3.30	267.86	8,198.3	79.2	-99.9	126.1	1.30	1.00	-17.30
8,300.0	3.50	261.09	8,298.1	78.6	-105.8	130.9	0.45	0.20	-6.77
8,400.0	3.30	259.83	8,397.9	77.7	-111.6	135.5	0.21	-0.20	-1.26
8,500.0	3.64	267.50	8,497.8	77.0	-117.6	140.4	0.57	0.34	7.67
8,600.0	2.87	275.79	8,597.6	77.1	-123.3	145.3	0.90	-0.77	8.29
8,700.0	2.72	276.44	8,697.5	77.6	-128.1	149.8	0.15	-0.15	0.65
8,800.0	2.65	275.87	8,797.4	78.1	-132.8	154.1	0.07	-0.07	-0.57
8,900.0	2.72	292.46	8,897.3	79.3	-137.3	158.5	0.78	0.07	16.59
8,945.0	2.50	286.83	8,942.2	80.0	-139.2	160.5	0.75	-0.49	-12.51
8945' MD Phoenix Gyro									
9,069.0	9.50	300.60	9,065.5	86.0	-150.6	173.4	5.72	5.65	11.10
9,101.0	15.10	303.70	9,096.7	89.6	-156.4	180.2	17.62	17.50	9.69



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,132.0	19.80	305.60	9,126.3	94.9	-164.0	189.5	15.27	15.16	6.13
9,164.0	24.30	302.70	9,155.9	101.7	-174.0	201.5	14.46	14.06	-9.06
9,195.0	26.90	298.90	9,183.9	108.5	-185.5	214.9	9.92	8.39	-12.26
9,227.0	28.70	297.30	9,212.2	115.5	-198.6	229.8	6.09	5.63	-5.00
9,258.0	30.70	296.50	9,239.1	122.5	-212.3	245.1	6.58	6.45	-2.58
9,290.0	33.90	294.80	9,266.2	129.9	-227.7	262.2	10.39	10.00	-5.31
9,321.0	37.50	292.40	9,291.3	137.1	-244.3	280.1	12.46	11.61	-7.74
9,353.0	39.70	292.00	9,316.3	144.6	-262.8	299.9	6.92	6.88	-1.25
9,384.0	42.00	291.80	9,339.8	152.2	-281.6	320.0	7.43	7.42	-0.65
9,416.0	44.70	292.10	9,363.1	160.4	-302.0	341.7	8.46	8.44	0.94
9,447.0	47.40	292.30	9,384.6	168.8	-322.6	363.9	8.72	8.71	0.65
9,479.0	49.10	293.20	9,405.9	178.1	-344.7	387.6	5.71	5.31	2.81
9,511.0	50.90	294.10	9,426.4	187.9	-367.1	411.9	6.02	5.63	2.81
9,542.0	52.40	294.40	9,445.7	197.9	-389.3	436.1	4.90	4.84	0.97
9,574.0	53.40	294.00	9,465.0	208.3	-412.6	461.5	3.28	3.13	-1.25
9,605.0	54.20	294.40	9,483.3	218.6	-435.4	486.4	2.78	2.58	1.29
9,637.0	55.60	292.40	9,501.7	229.0	-459.4	512.4	6.73	4.38	-6.25
9,668.0	58.30	292.20	9,518.6	238.8	-483.4	538.2	8.73	8.71	-0.65
9,700.0	58.90	290.40	9,535.3	248.8	-508.9	565.2	5.15	1.88	-5.63
9,731.0	59.10	288.40	9,551.2	257.6	-533.9	591.3	5.57	0.65	-6.45
9,763.0	59.20	285.30	9,567.7	265.6	-560.2	618.1	8.32	0.31	-9.69
9,794.0	60.70	283.40	9,583.2	272.2	-586.2	643.9	7.18	4.84	-6.13
9,826.0	64.70	283.90	9,597.8	278.9	-613.9	671.2	12.58	12.50	1.56
9,839.9	65.78	283.45	9,603.7	281.9	-626.2	683.4	8.28	7.74	-3.26
LP New Crazy Wolf 1/2 B2CD Fed Com 1H									
9,857.0	67.10	282.90	9,610.5	285.5	-641.4	698.3	8.28	7.75	-3.20
9,861.7	67.57	283.05	9,612.3	286.4	-645.6	702.5	10.42	9.99	3.18
LP 2 Crazy Wolf 1/2B2CD 1H									
9,889.0	70.30	283.90	9,622.1	292.4	-670.4	726.9	10.42	10.00	3.11
9,920.0	76.70	284.80	9,630.9	299.7	-699.2	755.6	20.83	20.65	2.90
9,952.0	78.90	286.60	9,637.7	308.2	-729.3	785.9	8.80	6.88	5.63
9,983.0	81.60	287.20	9,642.9	317.1	-758.5	815.6	8.92	8.71	1.94
10,015.0	84.60	284.70	9,646.8	325.8	-789.0	846.5	12.17	9.38	-7.81
10,025.0	85.60	284.30	9,647.6	328.3	-798.7	856.1	10.76	10.00	-4.00
10,100.0	91.60	283.10	9,649.5	346.1	-871.5	928.0	8.16	8.00	-1.60
10,132.0	91.90	282.90	9,648.5	353.3	-902.7	958.7	1.13	0.94	-0.63
10,226.0	91.80	282.90	9,645.5	374.2	-994.2	1,048.5	0.11	-0.11	0.00
10,321.0	90.30	279.40	9,643.7	392.6	-1,087.4	1,138.4	4.01	-1.58	-3.68
10,416.0	88.40	274.70	9,644.8	404.2	-1,181.7	1,226.0	5.34	-2.00	-4.95
10,511.0	91.60	272.10	9,644.8	409.9	-1,276.5	1,311.0	4.34	3.37	-2.74
10,606.0	90.80	271.00	9,642.8	412.4	-1,371.4	1,394.6	1.43	-0.84	-1.16
10,700.0	92.70	272.20	9,639.9	415.1	-1,465.3	1,477.3	2.39	2.02	1.28
10,795.0	95.00	273.70	9,633.6	419.9	-1,560.0	1,561.8	2.89	2.42	1.58



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Crazy Wolf 1/2 B2CD Fed Com 1H
Project:	Lea County N.M.	TVD Reference:	3693 + 25 @ 3718.0usft (Patterson 250)
Site:	Section 1-2-19S-32E Crazy Wolf 1/2 B2CD Fed Com 1H	MD Reference:	3693 + 25 @ 3718.0usft (Patterson 250)
Well:	Crazy Wolf 1/2 B2CD Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,889.0	93.40	275.50	9,626.7	427.5	-1,653.4	1,646.6	2.56	-1.70	1.91
10,984.0	95.20	276.70	9,619.5	437.5	-1,747.6	1,733.3	2.28	1.89	1.26
11,079.0	93.00	277.20	9,612.8	449.0	-1,841.7	1,820.5	2.37	-2.32	0.53
11,173.0	90.50	276.60	9,609.9	460.3	-1,934.9	1,907.0	2.74	-2.66	-0.64
11,267.0	91.40	275.20	9,608.3	469.9	-2,028.4	1,992.9	1.77	0.96	-1.49
11,362.0	89.60	274.40	9,607.5	477.9	-2,123.1	2,078.9	2.07	-1.89	-0.84
11,459.0	89.90	274.40	9,607.9	485.3	-2,219.8	2,166.5	0.31	0.31	0.00
11,551.0	88.40	274.50	9,609.3	492.5	-2,311.5	2,249.6	1.63	-1.63	0.11
11,645.0	87.70	275.30	9,612.5	500.5	-2,405.1	2,334.7	1.13	-0.74	0.85
11,740.0	88.50	275.30	9,615.6	509.3	-2,499.6	2,421.1	0.84	0.84	0.00
11,835.0	88.70	275.00	9,618.0	517.8	-2,594.2	2,507.3	0.38	0.21	-0.32
11,929.0	91.10	274.80	9,618.1	525.8	-2,687.9	2,592.5	2.56	2.55	-0.21
12,024.0	91.60	275.30	9,615.9	534.2	-2,782.5	2,678.7	0.74	0.53	0.53
12,118.0	91.70	276.20	9,613.2	543.6	-2,876.0	2,764.5	0.96	0.11	0.96
12,213.0	90.20	276.00	9,611.6	553.7	-2,970.4	2,851.4	1.59	-1.58	-0.21
12,308.0	89.80	275.90	9,611.6	563.5	-3,064.9	2,938.2	0.43	-0.42	-0.11
12,402.0	88.90	274.40	9,612.7	572.0	-3,158.5	3,023.6	1.86	-0.96	-1.60
12,497.0	91.40	272.60	9,612.4	577.8	-3,253.3	3,108.7	3.24	2.63	-1.89
12,592.0	91.70	273.40	9,609.8	582.7	-3,348.2	3,193.4	0.90	0.32	0.84
12,687.0	91.20	273.30	9,607.4	588.3	-3,443.0	3,278.4	0.54	-0.53	-0.11
12,781.0	89.30	273.30	9,607.0	593.7	-3,536.8	3,362.5	2.02	-2.02	0.00
12,875.0	91.30	274.00	9,606.5	599.7	-3,630.6	3,446.8	2.25	2.13	0.74
12,970.0	90.40	273.80	9,605.1	606.1	-3,725.4	3,532.2	0.97	-0.95	-0.21
13,065.0	92.40	274.90	9,602.8	613.3	-3,820.1	3,617.9	2.40	2.11	1.16
13,159.0	93.20	276.70	9,598.2	622.8	-3,913.5	3,703.6	2.09	0.85	1.91
13,254.0	93.30	277.30	9,592.8	634.4	-4,007.6	3,791.0	0.64	0.11	0.63
13,348.0	90.90	276.60	9,589.4	645.8	-4,100.8	3,877.5	2.66	-2.55	-0.74
13,443.0	90.70	277.50	9,588.1	657.4	-4,195.1	3,965.0	0.97	-0.21	0.95
13,538.0	91.00	278.60	9,586.7	670.7	-4,289.2	4,053.2	1.20	0.32	1.16
13,632.0	91.90	279.40	9,584.3	685.4	-4,382.0	4,141.0	1.28	0.96	0.85
13,727.0	89.60	279.20	9,583.0	700.8	-4,475.7	4,229.9	2.43	-2.42	-0.21
13,849.0	88.80	279.40	9,584.7	720.5	-4,596.1	4,344.1	0.68	-0.66	0.16
13,943.0	88.70	278.90	9,586.8	735.4	-4,688.9	4,432.0	0.54	-0.11	-0.53
14,038.0	89.30	277.50	9,588.4	749.0	-4,782.9	4,520.3	1.60	0.63	-1.47
14,133.0	92.00	275.60	9,587.4	759.8	-4,877.3	4,607.5	3.48	2.84	-2.00
14,227.0	93.00	273.70	9,583.3	767.4	-4,970.9	4,692.4	2.28	1.06	-2.02
14,321.0	92.40	273.50	9,578.8	773.3	-5,064.6	4,776.6	0.67	-0.64	-0.21
14,416.0	91.60	271.80	9,575.5	777.7	-5,159.4	4,861.0	1.98	-0.84	-1.79
14,510.0	91.50	272.50	9,573.0	781.2	-5,253.3	4,944.2	0.75	-0.11	0.74
14,604.0	91.50	273.60	9,570.5	786.2	-5,347.1	5,028.1	1.17	0.00	1.17
14,699.0	91.00	274.80	9,568.4	793.2	-5,441.9	5,113.7	1.37	-0.53	1.26
14,794.0	91.50	274.00	9,566.4	800.5	-5,536.5	5,199.4	0.99	0.53	-0.84



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Crazy Wolf 1/2 B2CD Fed Com 1H
Project:	Lea County N.M.	TVD Reference:	3693 + 25 @ 3718.0usft (Patterson 250)
Site:	Section 1-2-19S-32E Crazy Wolf 1/2 B2CD Fed Com 1H	MD Reference:	3693 + 25 @ 3718.0usft (Patterson 250)
Well:	Crazy Wolf 1/2 B2CD Fed Com 1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,889.0	90.40	274.90	9,564.8	807.8	-5,631.2	5,285.2	1.50	-1.16	0.95
14,983.0	91.20	273.30	9,563.5	814.6	-5,725.0	5,369.8	1.90	0.85	-1.70
15,077.0	93.70	273.70	9,559.5	820.3	-5,818.7	5,453.9	2.69	2.66	0.43
15,172.0	91.30	272.90	9,555.3	825.8	-5,913.5	5,538.8	2.66	-2.53	-0.84
15,267.0	92.00	272.80	9,552.6	830.5	-6,008.3	5,623.4	0.74	0.74	-0.11
15,361.0	91.10	273.20	9,550.0	835.4	-6,102.1	5,707.2	1.05	-0.96	0.43
15,456.0	90.50	273.70	9,548.7	841.1	-6,197.0	5,792.3	0.82	-0.63	0.53
15,550.0	89.00	273.70	9,549.1	847.2	-6,290.8	5,876.6	1.60	-1.60	0.00
15,644.0	91.00	274.70	9,549.1	854.1	-6,384.5	5,961.3	2.38	2.13	1.06
15,740.0	91.40	274.40	9,547.1	861.7	-6,480.2	6,048.1	0.52	0.42	-0.31
15,834.0	91.30	274.30	9,544.9	868.8	-6,573.9	6,132.9	0.15	-0.11	-0.11
15,929.0	91.30	274.70	9,542.8	876.3	-6,668.6	6,218.7	0.42	0.00	0.42
16,023.0	89.70	274.60	9,541.9	883.9	-6,762.3	6,303.7	1.71	-1.70	-0.11
16,117.0	89.50	274.50	9,542.6	891.3	-6,856.0	6,388.7	0.24	-0.21	-0.11
16,212.0	89.50	273.20	9,543.4	897.7	-6,950.7	6,474.1	1.37	0.00	-1.37
16,306.0	89.10	270.40	9,544.6	900.7	-7,044.7	6,557.0	3.01	-0.43	-2.98
16,401.0	92.10	269.60	9,543.6	900.7	-7,139.7	6,639.3	3.27	3.16	-0.84
16,496.0	91.60	269.70	9,540.5	900.1	-7,234.6	6,721.4	0.54	-0.53	0.11
16,591.0	91.50	269.30	9,537.9	899.3	-7,329.6	6,803.3	0.43	-0.11	-0.42
16,685.0	91.30	269.40	9,535.6	898.2	-7,423.5	6,884.2	0.24	-0.21	0.11
16,780.0	90.50	268.90	9,534.1	896.8	-7,518.5	6,965.9	0.99	-0.84	-0.53
16,874.0	90.20	268.90	9,533.6	895.0	-7,612.5	7,046.5	0.32	-0.32	0.00
16,927.9	90.20	268.90	9,533.4	893.9	-7,666.3	7,092.7	0.00	0.00	0.00
Old PBHL Crazy Wolf 1/2 B2CD Fed Com 1H									
16,928.0	90.20	268.90	9,533.4	893.9	-7,666.5	7,092.8	0.00	0.00	0.00
16928' MD Projected to Bit									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,945.0	8,942.2	80.0	-139.2	8945' MD Phoenix Gyro
16,928.0	9,533.4	893.9	-7,666.5	16928' MD Projected to Bit



COMPANY: Mewbourne Oil Company
WELL: Crazy Wolf 1/2 B2CD Fed Com 1H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson Patterson 250

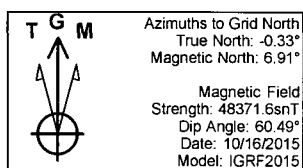


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.91°

OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001					
3693 + 25 @ 3718.0usft (Patterson 250)					
GROUND ELEVATION: 3693.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	616344.20	688974.80	32° 41' 34.529 N	103° 43' 8.643 W

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	8945.0	2.50	286.83	8942.2	80.0	-139.2	0.00	0.00	148.0	
2	9050.0	2.50	286.83	9047.1	81.3	-143.6	0.00	0.00	152.5	
3	9276.7	28.41	345.06	9264.1	135.9	-162.6	11.99	62.35	178.0	
4	9958.1	91.05	274.77	9620.0	360.2	-625.0	11.99	-72.03	664.5	LP 2 Crazy Wolf 1/2B2CD 1H
5	17026.0	91.05	274.77	9491.0	947.7	-7667.2	0.00	0.00	7725.6	Old PBHL Crazy Wolf 1/2 B2CD Fed Com 1H



SHL 1301' FNL; 2570' FeL
 Section 1-19S-32E
 PBHL 500' FNL; 330' FWL
 Section 2-19S-32E

