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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





Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 1-2-19S-32E Crazy Wolf 1/2 B2CD Fed Com 1H
Well: Crazy Wolf 1/2 B2CD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Crazy Wolf 1/2 B2CD Fed Com 1H
TVD Reference: 3693 + 25 @ 3718.0usft (Patterson 250)
MD Reference: 3693 + 25 @ 3718.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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



Stryker Directional Survey Report



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 1-2-19S-32E Crazy Wolf 1/2 B2CD Fed Com 1H
Well: Crazy Wolf 1/2 B2CD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Crazy Wolf 1/2 B2CD Fed Com 1H
TVD Reference: 3693 + 25 @ 3718.0usft (Patterson 250)
MD Reference: 3693 + 25 @ 3718.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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



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Well: Crazy Wolf 1/2 B2CD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Crazy Wolf 1/2 B2CD Fed Com 1H
TVD Reference: 3693 + 25 @ 3718.0usft (Patterson 250)
MD Reference: 3693 + 25 @ 3718.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
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