



NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 26 2018

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Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 20-21-23S-28E Whitesnake 20-21 W2BC Fee 1H

Whitesnake 20-21 W2BC Fee 1H

Original Hole

30-015-43497

Design: Original Hole

Standard Survey Report

07 February, 2018





Microsoft Survey Report



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 20-21-23S-28E Whitesnake 20-21 W2BC Fee 1H
Well: Whitesnake 20-21 W2BC Fee 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Whitesnake 20-21 W2BC Fee 1H
TVD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
MD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, N.M. Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Section 20-21-23S-28E Whitesnake 20-21 W2BC Fee 1H

Site Position:	Northing:	471,562.40 usft	Latitude:	32° 17' 46.330 N
From: Map	Easting:	610,033.60 usft	Longitude:	104° 6' 39.625 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.12 °

Well Whitesnake 20-21 W2BC Fee 1H

Well Position	+N/-S	0.0 usft	Northing:	471,562.40 usft	Latitude:	32° 17' 46.330 N
	+E/-W	0.0 usft	Easting:	610,033.60 usft	Longitude:	104° 6' 39.625 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft	Ground Level:	3,049.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/3/2018	7.15	60.04	47,869.60467982

Design Original Hole

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	79.76

Survey Program Date 2/7/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	15,195.0	MWD Survey #1 (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	0.09	229.60	100.0	-0.1	-0.1	-0.1	0.09	0.09	0.00
200.0	0.07	135.56	200.0	-0.1	-0.1	-0.1	0.12	-0.02	-94.04
300.0	0.45	282.93	300.0	-0.1	-0.4	-0.4	0.51	0.38	147.37
341.0	0.51	280.21	341.0	0.0	-0.8	-0.7	0.16	0.15	-6.63
414.0	1.70	251.50	414.0	-0.3	-2.1	-2.1	1.75	1.63	-39.33
472.0	1.70	256.10	472.0	-0.8	-3.8	-3.8	0.24	0.00	7.93
533.0	1.50	250.00	532.9	-1.3	-5.4	-5.5	0.43	-0.33	-10.00
593.0	0.30	213.70	592.9	-1.7	-6.2	-6.4	2.12	-2.00	-60.50
653.0	0.40	93.20	652.9	-1.8	-6.1	-6.3	1.02	0.17	-200.83

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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)
712.0	0.40	62.00	711.9	-1.7	-5.7	-5.9	0.36	0.00	-52.88
840.0	0.50	74.90	839.9	-1.4	-4.8	-4.9	0.11	0.08	10.08
935.0	0.50	93.70	934.9	-1.3	-3.9	-4.1	0.17	0.00	19.79
1,030.0	0.40	100.20	1,029.9	-1.4	-3.2	-3.4	0.12	-0.11	6.84
1,125.0	0.30	79.50	1,124.9	-1.4	-2.6	-2.8	0.17	-0.11	-21.79
1,220.0	0.60	78.00	1,219.9	-1.3	-1.9	-2.1	0.32	0.32	-1.58
1,315.0	0.70	76.30	1,314.9	-1.0	-0.9	-1.0	0.11	0.11	-1.79
1,411.0	0.70	84.50	1,410.9	-0.8	0.3	0.1	0.10	0.00	8.54
1,506.0	0.70	101.10	1,505.9	-0.9	1.4	1.3	0.21	0.00	17.47
1,601.0	0.60	124.70	1,600.9	-1.3	2.4	2.2	0.30	-0.11	24.84
1,696.0	1.00	124.80	1,695.9	-2.0	3.5	3.1	0.42	0.42	0.11
1,791.0	1.60	122.70	1,790.8	-3.2	5.3	4.7	0.63	0.63	-2.21
1,889.0	0.80	22.20	1,888.8	-3.3	6.7	6.0	1.95	-0.82	-102.55
1,983.0	0.90	13.90	1,982.8	-2.0	7.1	6.7	0.17	0.11	-8.83
2,078.0	1.20	46.80	2,077.8	-0.6	8.0	7.8	0.70	0.32	34.63
2,173.0	1.60	65.50	2,172.8	0.6	10.0	9.9	0.63	0.42	19.68
2,267.0	0.50	36.60	2,266.8	1.5	11.4	11.5	1.26	-1.17	-30.74
2,362.0	0.40	311.90	2,361.8	2.1	11.4	11.6	0.64	-0.11	-89.16
2,464.0	0.70	280.30	2,463.8	2.4	10.5	10.8	0.41	0.29	-30.98
2,559.0	2.20	42.30	2,558.7	3.9	11.2	11.7	2.78	1.58	128.42
2,653.0	2.40	38.40	2,652.7	6.7	13.6	14.6	0.27	0.21	-4.15
2,748.0	2.30	34.30	2,747.6	9.9	15.9	17.4	0.21	-0.11	-4.32
2,843.0	2.50	32.60	2,842.5	13.2	18.1	20.2	0.22	0.21	-1.79
2,938.0	2.30	33.20	2,937.4	16.5	20.3	22.9	0.21	-0.21	0.63
3,033.0	2.60	28.90	3,032.3	20.0	22.4	25.6	0.37	0.32	-4.53
3,128.0	2.60	32.70	3,127.2	23.7	24.6	28.4	0.18	0.00	4.00
3,223.0	2.60	31.40	3,222.1	27.4	26.9	31.3	0.06	0.00	-1.37
3,318.0	2.40	27.30	3,317.0	31.0	28.9	34.0	0.28	-0.21	-4.32
3,412.0	2.30	23.50	3,411.0	34.5	30.6	36.2	0.20	-0.11	-4.04
3,507.0	2.20	22.10	3,505.9	37.9	32.0	38.2	0.12	-0.11	-1.47
3,603.0	2.40	19.90	3,601.8	41.5	33.4	40.2	0.23	0.21	-2.29
3,698.0	2.80	19.90	3,696.7	45.5	34.9	42.4	0.42	0.42	0.00
3,793.0	2.90	17.70	3,791.6	50.0	36.4	44.7	0.16	0.11	-2.32
3,887.0	2.60	29.70	3,885.5	54.1	38.2	47.2	0.69	-0.32	12.77
3,982.0	2.60	28.00	3,980.4	57.9	40.2	49.9	0.08	0.00	-1.79
4,077.0	2.50	31.00	4,075.3	61.6	42.3	52.6	0.18	-0.11	3.16
4,172.0	2.60	30.00	4,170.2	65.2	44.5	55.3	0.12	0.11	-1.05
4,267.0	2.50	29.10	4,265.1	68.9	46.5	58.0	0.11	-0.11	-0.95
4,362.0	3.00	37.40	4,360.0	72.7	49.1	61.2	0.67	0.53	8.74
4,456.0	2.90	35.50	4,453.9	76.6	51.9	64.7	0.15	-0.11	-2.02
4,551.0	2.40	29.60	4,548.8	80.3	54.3	67.7	0.60	-0.53	-6.21
4,646.0	2.60	41.30	4,643.7	83.6	56.7	70.7	0.58	0.21	12.32

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4,740.0	2.40	33.30	4,737.6	86.9	59.2	73.7	0.43	-0.21	-8.51
4,836.0	2.90	42.40	4,833.5	90.3	61.9	77.0	0.68	0.52	9.48
4,930.0	2.70	36.80	4,927.4	93.9	64.9	80.5	0.36	-0.21	-5.96
5,025.0	3.30	51.80	5,022.2	97.3	68.4	84.6	1.03	0.63	15.79
5,120.0	3.10	48.30	5,117.1	100.7	72.4	89.2	0.29	-0.21	-3.68
5,213.0	2.80	54.60	5,210.0	103.7	76.2	93.4	0.47	-0.32	6.77
5,308.0	2.60	55.40	5,304.9	106.3	79.8	97.4	0.21	-0.21	0.84
5,403.0	2.80	56.50	5,399.8	108.8	83.5	101.5	0.22	0.21	1.16
5,498.0	2.40	60.30	5,494.7	111.1	87.2	105.5	0.46	-0.42	4.00
5,593.0	3.30	48.10	5,589.6	113.9	91.0	109.7	1.14	0.95	-12.84
5,687.0	2.90	46.40	5,683.4	117.3	94.7	114.0	0.44	-0.43	-1.81
5,782.0	2.80	44.50	5,778.3	120.6	98.1	117.9	0.14	-0.11	-2.00
5,877.0	2.50	47.00	5,873.2	123.7	101.2	121.6	0.34	-0.32	2.63
5,971.0	2.20	43.20	5,967.1	126.4	103.9	124.7	0.36	-0.32	-4.04
6,066.0	2.20	22.50	6,062.0	129.4	105.9	127.2	0.83	0.00	-21.79
6,160.0	2.20	4.00	6,156.0	132.9	106.7	128.6	0.75	0.00	-19.68
6,256.0	0.50	41.10	6,251.9	135.1	107.1	129.4	1.90	-1.77	38.65
6,352.0	3.00	99.00	6,347.9	135.0	109.9	132.1	2.88	2.60	60.31
6,447.0	2.20	94.00	6,442.8	134.5	114.1	136.2	0.87	-0.84	-5.26
6,541.0	2.30	73.90	6,536.7	134.9	117.7	139.8	0.84	0.11	-21.38
6,636.0	2.70	42.80	6,631.6	137.0	121.1	143.5	1.47	0.42	-32.74
6,731.0	3.30	33.70	6,726.5	140.9	124.1	147.2	0.80	0.63	-9.58
6,826.0	2.50	40.10	6,821.4	144.8	127.0	150.7	0.91	-0.84	6.74
6,920.0	3.30	38.10	6,915.3	148.5	130.0	154.3	0.86	0.85	-2.13
7,015.0	3.10	27.00	7,010.1	152.9	132.8	157.9	0.68	-0.21	-11.68
7,110.0	2.90	22.20	7,105.0	157.5	134.9	160.7	0.34	-0.21	-5.05
7,204.0	3.60	18.70	7,198.8	162.5	136.8	163.4	0.77	0.74	-3.72
7,299.0	3.30	23.60	7,293.7	167.8	138.8	166.4	0.44	-0.32	5.16
7,395.0	2.90	24.90	7,389.5	172.5	140.9	169.3	0.42	-0.42	1.35
7,489.0	3.10	24.90	7,483.4	177.0	143.0	172.2	0.21	0.21	0.00
7,584.0	4.20	34.70	7,578.2	182.2	146.1	176.1	1.33	1.16	10.32
7,678.0	2.80	16.50	7,672.0	187.2	148.7	179.6	1.88	-1.49	-19.36
7,773.0	3.20	22.30	7,766.9	191.9	150.3	182.0	0.53	0.42	6.11
7,868.0	3.40	36.40	7,861.7	196.6	153.0	185.5	0.88	0.21	14.84
7,962.0	3.00	39.20	7,955.6	200.8	156.2	189.4	0.46	-0.43	2.98
8,057.0	3.30	35.00	8,050.5	204.9	159.4	193.2	0.40	0.32	-4.42
8,152.0	1.80	25.90	8,145.4	208.5	161.6	196.1	1.63	-1.58	-9.58
8,247.0	2.10	41.40	8,240.3	211.1	163.4	198.3	0.64	0.32	16.32
8,342.0	4.40	29.80	8,335.1	215.6	166.4	202.0	2.51	2.42	-12.21
8,437.0	4.40	21.40	8,429.9	222.2	169.5	206.3	0.68	0.00	-8.84
8,532.0	5.20	33.90	8,524.5	229.1	173.2	211.2	1.38	0.84	13.16
8,626.0	4.00	36.70	8,618.2	235.3	177.6	216.6	1.30	-1.28	2.98
8,720.0	2.90	31.60	8,712.1	240.0	180.8	220.5	1.21	-1.17	-5.43

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8,815.0	3.10	44.60	8,806.9	243.8	183.8	224.2	0.74	0.21	13.68
8,910.0	2.30	70.10	8,901.8	246.3	187.4	228.2	1.50	-0.84	26.84
9,005.0	2.80	58.30	8,996.7	248.2	191.2	232.3	0.76	0.53	-12.42
9,100.0	2.60	60.00	9,091.6	250.5	195.0	236.4	0.23	-0.21	1.79
9,195.0	2.20	59.40	9,186.5	252.5	198.5	240.2	0.42	-0.42	-0.63
9,290.0	2.70	56.00	9,281.5	254.7	201.9	243.9	0.55	0.53	-3.58
9,385.0	2.50	58.60	9,376.4	257.0	205.5	247.9	0.24	-0.21	2.74
9,480.0	1.90	58.40	9,471.3	258.9	208.6	251.3	0.63	-0.63	-0.21
9,574.0	2.20	53.10	9,565.2	260.8	211.4	254.4	0.38	0.32	-5.64
9,608.9	2.11	50.09	9,600.1	261.6	212.4	255.5	0.42	-0.27	-8.62
B.B. Whitesnake 20-21 W2BC Fee 1H									
9,651.0	2.00	46.10	9,642.2	262.6	213.5	256.8	0.42	-0.25	-9.48
9,697.0	2.90	62.70	9,688.1	263.7	215.2	258.6	2.47	1.96	36.09
9,729.0	6.00	70.60	9,720.0	264.6	217.5	261.0	9.85	9.69	24.69
9,761.0	10.10	75.60	9,751.7	265.9	221.8	265.5	12.99	12.81	15.63
9,792.0	13.10	75.40	9,782.1	267.4	227.8	271.7	9.68	9.68	-0.65
9,824.0	15.90	75.50	9,813.1	269.5	235.5	279.7	8.75	8.75	0.31
9,856.0	18.20	78.60	9,843.6	271.5	244.7	289.0	7.73	7.19	9.69
9,887.0	20.60	83.10	9,872.9	273.2	254.8	299.3	9.12	7.74	14.52
9,919.0	22.80	87.40	9,902.6	274.1	266.6	311.1	8.48	6.88	13.44
9,951.0	25.90	88.90	9,931.8	274.5	279.8	324.1	9.88	9.69	4.69
9,982.0	29.50	89.60	9,959.2	274.7	294.2	338.4	11.66	11.61	2.26
10,014.0	32.20	88.60	9,986.7	275.0	310.6	354.6	8.59	8.44	-3.13
10,045.0	35.50	88.80	10,012.4	275.4	327.9	371.6	10.65	10.65	0.65
10,077.0	39.70	90.10	10,037.8	275.5	347.4	390.8	13.36	13.13	4.06
10,108.0	42.30	91.70	10,061.2	275.2	367.7	410.8	9.04	8.39	5.16
10,140.0	45.10	92.00	10,084.3	274.5	389.8	432.4	8.77	8.75	0.94
10,172.0	49.20	92.20	10,106.1	273.6	413.3	455.3	12.82	12.81	0.63
10,203.0	52.30	91.90	10,125.7	272.8	437.3	478.8	10.03	10.00	-0.97
10,235.0	54.10	91.00	10,144.8	272.1	462.9	503.9	6.06	5.63	-2.81
10,267.0	56.70	90.20	10,163.0	271.9	489.2	529.7	8.38	8.13	-2.50
10,298.0	60.70	89.60	10,179.1	271.9	515.7	555.8	13.01	12.90	-1.94
10,323.0	63.90	88.80	10,190.7	272.2	537.8	577.6	13.11	12.80	-3.20
10,387.8	69.34	88.28	10,216.4	273.7	597.3	636.4	8.43	8.40	-0.80
LP Whitesnake 20-21 W2BC Fee 1H									
10,398.0	70.20	88.20	10,220.0	274.0	606.8	645.9	8.43	8.40	-0.77
10,429.0	73.20	86.80	10,229.7	275.3	636.2	675.0	10.58	9.68	-4.52
10,461.0	74.60	86.60	10,238.6	277.1	666.9	705.5	4.42	4.38	-0.63
10,492.0	75.70	86.40	10,246.5	278.9	696.8	735.3	3.60	3.55	-0.65
10,524.0	76.20	86.20	10,254.3	280.9	727.8	766.1	1.68	1.56	-0.63
10,555.0	79.80	87.80	10,260.7	282.5	758.1	796.2	12.66	11.61	5.16
10,587.0	81.60	87.60	10,265.9	283.8	789.6	827.5	5.66	5.63	-0.63

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Local Co-ordinate Reference: Well Whitesnake 20-21 W2BC Fee 1H
TVD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
MD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
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)
10,619.0	81.90	88.00	10,270.5	285.0	821.3	858.9	1.55	0.94	1.25
10,650.0	81.90	88.20	10,274.9	286.0	852.0	889.2	0.64	0.00	0.65
10,682.0	82.80	89.60	10,279.1	286.6	883.7	920.5	5.17	2.81	4.38
10,713.0	85.80	89.70	10,282.2	286.8	914.5	950.9	9.68	9.68	0.32
10,808.0	89.60	92.10	10,286.0	285.3	1,009.4	1,044.0	4.73	4.00	2.53
10,902.0	87.10	91.40	10,288.7	282.5	1,103.3	1,135.9	2.76	-2.66	-0.74
10,997.0	90.80	94.60	10,290.5	277.5	1,198.1	1,228.4	5.15	3.89	3.37
11,093.0	89.00	94.40	10,290.6	269.9	1,293.8	1,321.2	1.89	-1.88	-0.21
11,188.0	85.20	91.80	10,295.4	264.8	1,388.5	1,413.5	4.84	-4.00	-2.74
11,283.0	87.80	89.00	10,301.2	264.2	1,483.3	1,506.7	4.02	2.74	-2.95
11,377.0	89.10	88.40	10,303.8	266.3	1,577.3	1,599.5	1.52	1.38	-0.64
11,473.0	87.50	87.50	10,306.6	269.7	1,673.2	1,694.5	1.91	-1.67	-0.94
11,568.0	85.90	85.10	10,312.1	275.8	1,767.8	1,788.7	3.03	-1.68	-2.53
11,664.0	90.30	87.20	10,315.3	282.3	1,863.5	1,884.0	5.08	4.58	2.19
11,758.0	91.40	87.20	10,313.9	286.9	1,957.4	1,977.2	1.17	1.17	0.00
11,853.0	92.70	92.60	10,310.5	287.0	2,052.3	2,070.6	5.84	1.37	5.68
11,948.0	89.40	92.60	10,308.7	282.7	2,147.2	2,163.2	3.47	-3.47	0.00
12,044.0	88.50	90.50	10,310.5	280.1	2,243.1	2,257.2	2.38	-0.94	-2.19
12,139.0	87.00	93.20	10,314.2	277.1	2,338.0	2,350.0	3.25	-1.58	2.84
12,234.0	88.70	90.40	10,317.8	274.1	2,432.8	2,442.8	3.45	1.79	-2.95
12,329.0	85.60	87.50	10,322.5	275.8	2,527.7	2,536.5	4.47	-3.26	-3.05
12,423.0	87.80	86.30	10,327.9	280.9	2,621.4	2,629.6	2.66	2.34	-1.28
12,519.0	87.80	87.40	10,331.6	286.2	2,717.2	2,724.8	1.14	0.00	1.15
12,551.0	89.50	88.90	10,332.4	287.2	2,749.1	2,756.4	7.08	5.31	4.69
12,582.0	87.70	84.80	10,333.1	288.9	2,780.1	2,787.2	14.44	-5.81	-13.23
12,615.0	87.60	86.00	10,334.5	291.5	2,812.9	2,820.0	3.65	-0.30	3.64
12,646.0	89.10	89.60	10,335.4	292.7	2,843.9	2,850.7	12.58	4.84	11.61
12,678.0	91.30	91.80	10,335.3	292.3	2,875.9	2,882.1	9.72	6.88	6.88
12,709.0	91.30	92.70	10,334.6	291.1	2,906.9	2,912.3	2.90	0.00	2.90
12,741.0	91.30	93.60	10,333.8	289.4	2,938.8	2,943.5	2.81	0.00	2.81
12,773.0	90.50	93.20	10,333.3	287.5	2,970.7	2,974.5	2.80	-2.50	-1.25
12,805.0	89.70	93.30	10,333.3	285.7	3,002.7	3,005.7	2.52	-2.50	0.31
12,836.0	89.60	95.40	10,333.5	283.3	3,033.6	3,035.7	6.78	-0.32	6.77
12,868.0	88.30	94.70	10,334.0	280.5	3,065.5	3,066.5	4.61	-4.06	-2.19
12,878.4	88.10	94.67	10,334.4	279.6	3,075.8	3,076.6	1.96	-1.94	-0.32
Point									
12,899.0	87.70	94.60	10,335.1	278.0	3,096.4	3,096.5	1.96	-1.94	-0.32
12,994.0	87.20	95.40	10,339.3	269.7	3,190.9	3,188.0	0.99	-0.53	0.84
13,088.0	87.60	96.00	10,343.6	260.4	3,284.3	3,278.3	0.77	0.43	0.64
13,184.0	88.40	95.40	10,347.0	250.9	3,379.8	3,370.6	1.04	0.83	-0.63
13,278.0	86.50	94.00	10,351.1	243.2	3,473.4	3,461.3	2.51	-2.02	-1.49
13,373.0	88.40	90.40	10,355.4	239.5	3,568.2	3,554.0	4.28	2.00	-3.79
13,467.0	87.30	88.90	10,358.9	240.1	3,662.1	3,646.5	1.98	-1.17	-1.60

Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 20-21-23S-28E Whitesnake 20-21 W2BC Fee 1H
Well: Whitesnake 20-21 W2BC Fee 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Whitesnake 20-21 W2BC Fee 1H
TVD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
MD Reference: 3049 + 27 @ 3076.0usft (Patterson 231)
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)
13,561.0	87.00	87.40	10,363.6	243.1	3,756.0	3,739.4	1.63	-0.32	-1.60
13,656.0	90.20	88.20	10,365.9	246.8	3,850.8	3,833.4	3.47	3.37	0.84
13,751.0	88.50	88.80	10,367.0	249.3	3,945.8	3,927.3	1.90	-1.79	0.63
13,846.0	88.90	89.80	10,369.1	250.4	4,040.8	4,021.0	1.13	0.42	1.05
13,941.0	87.80	89.60	10,371.9	250.9	4,135.7	4,114.5	1.18	-1.16	-0.21
14,036.0	86.70	89.40	10,376.4	251.7	4,230.6	4,208.0	1.18	-1.16	-0.21
14,130.0	86.60	89.20	10,381.9	252.9	4,324.4	4,300.6	0.24	-0.11	-0.21
14,225.0	86.90	83.30	10,387.3	259.1	4,419.0	4,394.8	6.21	0.32	-6.21
14,319.0	92.00	85.90	10,388.2	267.9	4,512.6	4,488.4	6.09	5.43	2.77
14,414.0	90.50	88.00	10,386.1	273.0	4,607.4	4,582.6	2.72	-1.58	2.21
14,509.0	88.90	90.30	10,386.6	274.4	4,702.4	4,676.3	2.95	-1.68	2.42
14,572.0	83.90	87.30	10,390.6	275.7	4,765.2	4,738.4	9.25	-7.94	-4.76
14,603.0	83.00	87.10	10,394.1	277.2	4,796.0	4,768.9	2.97	-2.90	-0.65
14,635.0	87.10	88.50	10,396.9	278.4	4,827.8	4,800.5	13.53	12.81	4.38
14,667.0	89.90	88.20	10,397.7	279.4	4,859.8	4,832.1	8.80	8.75	-0.94
14,699.0	89.80	88.40	10,397.8	280.3	4,891.8	4,863.8	0.70	-0.31	0.63
14,730.0	92.00	88.80	10,397.3	281.1	4,922.8	4,894.4	7.21	7.10	1.29
14,762.0	92.70	90.60	10,396.0	281.2	4,954.8	4,925.9	6.03	2.19	5.63
14,794.0	95.00	93.30	10,393.9	280.1	4,986.7	4,957.1	11.07	7.19	8.44
14,825.0	94.10	93.30	10,391.4	278.4	5,017.5	4,987.1	2.90	-2.90	0.00
14,857.0	94.00	93.30	10,389.1	276.5	5,049.4	5,018.2	0.31	-0.31	0.00
14,888.0	92.80	93.20	10,387.3	274.8	5,080.3	5,048.2	3.88	-3.87	-0.32
14,919.0	92.30	93.70	10,385.9	272.9	5,111.2	5,078.3	2.28	-1.61	1.61
14,951.0	91.00	94.40	10,385.0	270.6	5,143.1	5,109.3	4.61	-4.06	2.19
14,983.0	88.10	93.90	10,385.3	268.3	5,175.0	5,140.3	9.20	-9.06	-1.56
15,014.0	85.10	93.30	10,387.1	266.4	5,205.9	5,170.4	9.87	-9.68	-1.94
15,046.0	85.60	93.50	10,389.7	264.5	5,237.7	5,201.4	1.68	1.56	0.63
15,078.0	85.50	92.80	10,392.2	262.7	5,269.6	5,232.4	2.20	-0.31	-2.19
15,131.0	85.60	92.80	10,396.3	260.2	5,322.4	5,283.9	0.19	0.19	0.00
15,195.0	85.60	92.80	10,401.2	257.0	5,386.1	5,346.0	0.00	0.00	0.00

15195' MD Projected to Bit - PBHL Whitesnake 20-21 W2BC Fee 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
15,195.0	10,401.2	257.0	5,386.1	15195' MD Projected to Bit

GEODETIC ZONE: New Mexico Eastern Zone										Slot
3049 + 27 @ 3076.0usft (Patterson 231)										
GROUND ELEVATION: 3049.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude					
0.0	0.0	471562.40	610033.60	32° 17'	46.330 N	104° 6'	39.625 W			
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2688.5	2.83	37.95	2688.4	3.7	2.9	1.50	37.95	3.1	
4	9419.8	2.83	37.95	9411.6	265.5	207.1	0.00	0.00	222.7	
5	9608.3	0.00	0.00	9600.0	269.2	209.9	1.50	180.00	225.8	B.B. Whitesnake 20-21 W2BC Fee 1H
6	9711.7	0.00	0.00	9703.3	269.2	209.9	0.00	0.00	225.8	
7	10594.6	88.29	89.23	10276.0	276.7	765.7	10.00	89.23	781.0	
8	12907.8	88.29	89.23	10345.0	307.9	3077.8	0.00	0.00	3090.8	Point
9	12975.0	88.37	89.55	10347.0	308.6	3144.9	0.50	77.03	3157.8	
10	15221.5	88.37	89.55	10411.0	326.1	5390.4	0.00	0.00	5400.3	PBHL Whitesnake 20-21 W2BC Fee 1H

