



NM OIL CONSERVATION
ARTESIA DISTRICT
JUN 13 2017

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Mewbourne Oil Company

Eddy County, New Mexico

Section 18-20S-29E Derringer 18 B3EH Fed 2H

Derringer 18 B3EH Fed 2H

30-015-43578

Original Hole

Design: Original Hole

Standard Survey Report

09 March, 2017



Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-20S-29E Derringer 18 B3EH Fed 2H
Well: Derringer 18 B3EH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Derringer 18 B3EH Fed 2H
TVD Reference: 3260 + 27 @ 3287.0usft (Patterson 250)
MD Reference: 3260 + 27 @ 3287.0usft (Patterson 250)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Eddy County, New Mexico		
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 18-20S-29E Derringer 18 B3EH Fed 2H

Site Position: **From:** Map **Position Uncertainty:** 0.0 usft

Northing: 573,159.70 usft **Easting:** 565,540.20 usft **Slot Radius:** 13-3/16 "

Latitude: 32° 34' 31.953 N **Longitude:** 104° 7' 14.053 W **Grid Convergence:** 0.11 °

Well Derringer 18 B3EH Fed 2H

Well Position **+N/-S** 0.0 usft **+E/-W** 0.0 usft **Position Uncertainty** 0.0 usft

Northing: 573,159.70 usft **Easting:** 565,540.20 usft **Wellhead Elevation:** 27.0 usft

Latitude: 32° 34' 31.953 N **Longitude:** 104° 7' 14.053 W **Ground Level:** 3,260.0 usft

Wellbore	Original Hole					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	2/13/2017	7.27	60.30	48,123.92153929	

Design Original Hole

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 0.0 207.17

Survey Program	Date	3/9/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,231.0	Phoenix Tech Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline	
8,277.0	13,100.0	Stryker 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	0.32	329.97	100.0	0.2	-0.1	-0.2	0.32	0.32	0.00
200.0	0.25	339.70	200.0	0.7	-0.4	-0.5	0.08	-0.07	9.73
300.0	0.38	348.40	300.0	1.2	-0.5	-0.9	0.14	0.13	8.70
400.0	0.40	315.79	400.0	1.8	-0.8	-1.2	0.22	0.02	-32.61
500.0	0.36	1.80	500.0	2.4	-1.0	-1.6	0.30	-0.04	46.01
600.0	0.39	86.92	600.0	2.7	-0.7	-2.1	0.51	0.03	85.12
700.0	0.77	82.46	700.0	2.8	0.3	-2.6	0.38	0.38	-4.46
800.0	1.13	101.78	800.0	2.7	1.9	-3.3	0.48	0.36	19.32
900.0	0.98	110.02	900.0	2.2	3.7	-3.6	0.21	-0.15	8.24

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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)
1,000.0	0.93	114.85	999.9	1.6	5.3	-3.8	0.09	-0.05	4.83
1,100.0	0.90	139.48	1,099.9	0.6	6.5	-3.5	0.39	-0.03	24.63
1,200.0	0.91	134.60	1,199.9	-0.5	7.6	-3.0	0.08	0.01	-4.88
1,300.0	1.14	156.56	1,299.9	-2.0	8.5	-2.1	0.45	0.23	21.96
1,400.0	1.79	168.40	1,399.9	-4.5	9.2	-0.3	0.71	0.65	11.84
1,500.0	1.75	178.60	1,499.8	-7.5	9.6	2.3	0.32	-0.04	10.20
1,600.0	1.83	181.18	1,599.8	-10.6	9.6	5.1	0.11	0.08	2.58
1,700.0	2.22	178.89	1,699.7	-14.2	9.6	8.2	0.40	0.39	-2.29
1,800.0	2.06	182.10	1,799.6	-17.9	9.6	11.5	0.20	-0.16	3.21
1,900.0	3.28	174.20	1,899.5	-22.5	9.8	15.6	1.27	1.22	-7.90
2,000.0	3.71	170.38	1,999.3	-28.6	10.6	20.6	0.49	0.43	-3.82
2,100.0	3.23	177.34	2,099.2	-34.6	11.3	25.6	0.64	-0.48	6.96
2,200.0	2.70	176.55	2,199.0	-39.7	11.6	30.1	0.53	-0.53	-0.79
2,300.0	2.95	171.43	2,298.9	-44.6	12.1	34.2	0.35	0.25	-5.12
2,400.0	3.05	177.40	2,398.8	-49.8	12.6	38.6	0.33	0.10	5.97
2,500.0	2.96	179.88	2,498.6	-55.1	12.7	43.2	0.16	-0.09	2.48
2,600.0	2.96	182.11	2,598.5	-60.2	12.6	47.8	0.12	0.00	2.23
2,700.0	2.63	183.82	2,698.4	-65.1	12.4	52.3	0.34	-0.33	1.71
2,800.0	2.23	188.07	2,798.3	-69.3	12.0	56.2	0.44	-0.40	4.25
2,900.0	2.07	194.73	2,898.2	-73.0	11.2	59.8	0.30	-0.16	6.66
3,000.0	1.96	195.53	2,998.2	-76.4	10.3	63.3	0.11	-0.11	0.80
3,100.0	2.17	193.63	3,098.1	-79.9	9.4	66.8	0.22	0.21	-1.90
3,200.0	2.38	208.03	3,198.0	-83.6	8.0	70.7	0.61	0.21	14.40
3,300.0	2.42	212.38	3,297.9	-87.2	5.9	74.9	0.19	0.04	4.35
3,400.0	2.31	210.48	3,397.8	-90.7	3.7	79.0	0.14	-0.11	-1.90
3,500.0	2.29	207.72	3,497.8	-94.2	1.8	83.0	0.11	-0.02	-2.76
3,600.0	2.13	209.83	3,597.7	-97.6	-0.1	86.8	0.18	-0.16	2.11
3,700.0	2.29	215.81	3,697.6	-100.8	-2.2	90.7	0.28	0.16	5.98
3,800.0	2.08	217.15	3,797.5	-103.9	-4.4	94.4	0.22	-0.21	1.34
3,900.0	2.09	221.06	3,897.5	-106.7	-6.7	98.0	0.14	0.01	3.91
4,000.0	1.88	242.47	3,997.4	-108.8	-9.4	101.1	0.77	-0.21	21.41
4,100.0	1.83	247.76	4,097.4	-110.2	-12.3	103.7	0.18	-0.05	5.29
4,200.0	1.94	240.85	4,197.3	-111.6	-15.3	106.3	0.25	0.11	-6.91
4,300.0	1.85	257.08	4,297.3	-112.8	-18.3	108.7	0.54	-0.09	16.23
4,400.0	1.81	260.75	4,397.2	-113.4	-21.4	110.7	0.12	-0.04	3.67
4,500.0	1.96	247.47	4,497.1	-114.3	-24.6	112.9	0.46	0.15	-13.28
4,600.0	2.27	244.30	4,597.1	-115.8	-28.0	115.8	0.33	0.31	-3.17
4,700.0	2.21	246.15	4,697.0	-117.5	-31.5	118.9	0.09	-0.06	1.85
4,800.0	2.21	249.92	4,796.9	-118.9	-35.1	121.8	0.15	0.00	3.77
4,900.0	2.42	253.02	4,896.8	-120.2	-38.9	124.7	0.24	0.21	3.10
5,000.0	2.40	264.40	4,996.8	-121.0	-43.0	127.3	0.48	-0.02	11.38
5,100.0	2.15	271.32	5,096.7	-121.2	-47.0	129.3	0.37	-0.25	6.92
5,200.0	2.27	277.93	5,196.6	-120.9	-50.8	130.7	0.28	0.12	6.61

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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)
5,300.0	2.37	292.12	5,296.5	-119.8	-54.7	131.6	0.58	0.10	14.19
5,400.0	2.12	287.89	5,396.4	-118.5	-58.4	132.0	0.30	-0.25	-4.23
5,500.0	1.69	287.01	5,496.4	-117.5	-61.5	132.6	0.43	-0.43	-0.88
5,600.0	1.51	291.51	5,596.4	-116.6	-64.2	133.0	0.22	-0.18	4.50
5,700.0	1.52	289.41	5,696.3	-115.6	-66.6	133.3	0.06	0.01	-2.10
5,800.0	1.54	289.11	5,796.3	-114.8	-69.2	133.7	0.02	0.02	-0.30
5,900.0	1.38	288.14	5,896.3	-113.9	-71.6	134.0	0.16	-0.16	-0.97
6,000.0	1.00	285.74	5,996.2	-113.3	-73.6	134.4	0.38	-0.38	-2.40
6,100.0	0.74	250.75	6,096.2	-113.3	-75.0	135.0	0.58	-0.26	-34.99
6,200.0	0.29	290.93	6,196.2	-113.4	-75.9	135.5	0.55	-0.45	40.18
6,300.0	0.49	256.53	6,296.2	-113.4	-76.5	135.9	0.30	0.20	-34.40
6,400.0	1.00	351.93	6,396.2	-112.7	-77.0	135.4	1.15	0.51	95.40
6,500.0	0.46	346.17	6,496.2	-111.4	-77.3	134.4	0.54	-0.54	-5.76
6,600.0	0.69	207.40	6,596.2	-111.6	-77.6	134.7	1.08	0.23	-138.77
6,700.0	0.90	48.36	6,696.2	-111.6	-77.3	134.6	1.56	0.21	-159.04
6,800.0	1.31	231.02	6,796.2	-111.8	-77.6	134.9	2.21	0.41	-177.34
6,900.0	1.67	185.45	6,896.2	-113.9	-78.7	137.3	1.20	0.36	-45.57
7,000.0	1.57	172.12	6,996.1	-116.7	-78.6	139.8	0.39	-0.10	-13.33
7,100.0	1.86	195.76	7,096.1	-119.7	-78.9	142.5	0.76	0.29	23.64
7,200.0	1.84	187.33	7,196.0	-122.8	-79.5	145.6	0.27	-0.02	-8.43
7,300.0	1.95	184.87	7,296.0	-126.1	-79.9	148.7	0.14	0.11	-2.46
7,400.0	2.15	189.91	7,395.9	-129.7	-80.3	152.0	0.27	0.20	5.04
7,500.0	1.46	157.83	7,495.9	-132.7	-80.2	154.6	1.20	-0.69	-32.08
7,600.0	1.36	158.26	7,595.8	-135.0	-79.2	156.3	0.10	-0.10	0.43
7,700.0	1.36	148.34	7,695.8	-137.1	-78.2	157.6	0.24	0.00	-9.92
7,800.0	1.76	153.70	7,795.8	-139.5	-76.9	159.2	0.43	0.40	5.36
7,900.0	2.20	162.05	7,895.7	-142.7	-75.6	161.4	0.53	0.44	8.35
8,000.0	2.80	155.35	7,995.6	-146.7	-74.0	164.3	0.67	0.60	-6.70
8,100.0	4.96	149.30	8,095.4	-152.6	-70.8	168.1	2.20	2.16	-6.05
8,200.0	5.51	190.18	8,195.0	-161.1	-69.4	175.0	3.69	0.55	40.88
8,231.0	5.93	200.57	8,225.8	-164.1	-70.2	178.0	3.60	1.35	33.52
8231' MD Phoenix Tech Gyro									
8,277.0	4.70	206.10	8,271.6	-168.0	-71.9	182.3	2.89	-2.67	12.02
8,309.0	5.90	155.90	8,303.5	-170.7	-71.8	184.6	14.44	3.75	-156.88
8,340.0	10.90	137.70	8,334.2	-174.3	-69.2	186.6	18.07	16.13	-58.71
8,371.0	13.20	122.40	8,364.5	-178.3	-64.2	188.0	12.64	7.42	-49.35
8,402.0	15.50	108.80	8,394.5	-181.6	-57.3	187.7	13.12	7.42	-43.87
8,433.0	17.90	95.10	8,424.2	-183.3	-48.6	185.3	14.82	7.74	-44.19
8,464.0	20.40	79.20	8,453.5	-182.7	-38.6	180.2	18.58	8.06	-51.29
8,495.0	24.80	71.70	8,482.2	-179.7	-27.1	172.2	16.94	14.19	-24.19
8,526.0	29.10	68.00	8,509.8	-174.8	-13.9	161.9	14.88	13.87	-11.94
8,558.0	32.90	71.10	8,537.2	-169.1	1.5	149.7	12.88	11.88	9.69
8,589.0	33.60	72.00	8,563.1	-163.7	17.7	137.6	2.76	2.26	2.90

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8,620.0	35.40	71.90	8,588.7	-158.3	34.3	125.1	5.81	5.81	-0.32
8,651.0	38.10	72.30	8,613.5	-152.6	52.0	112.0	8.74	8.71	1.29
8,682.0	40.20	71.00	8,637.6	-146.4	70.6	98.0	7.27	6.77	-4.19
8,714.0	40.40	69.30	8,662.0	-139.4	90.0	82.9	3.49	0.63	-5.31
8,745.0	40.50	69.00	8,685.6	-132.2	108.8	67.9	0.71	0.32	-0.97
8,776.0	42.10	69.40	8,708.8	-125.0	128.0	52.7	5.23	5.16	1.29
8,808.0	44.40	73.00	8,732.2	-117.9	148.7	37.0	10.54	7.19	11.25
8,839.0	48.30	75.40	8,753.5	-111.8	170.3	21.7	13.77	12.58	7.74
8,864.0	50.60	77.50	8,769.8	-107.4	188.8	9.3	11.20	9.20	8.40
8,895.0	53.60	78.70	8,788.8	-102.3	212.7	-6.1	10.15	9.68	3.87
8,927.0	56.20	76.20	8,807.2	-96.6	238.2	-22.8	10.34	8.13	-7.81
8,958.0	59.20	81.20	8,823.8	-91.5	263.9	-39.1	16.71	9.68	16.13
8,989.0	63.50	80.90	8,838.7	-87.3	290.8	-55.1	13.90	13.87	-0.97
9,020.0	67.40	80.50	8,851.6	-82.7	318.6	-71.9	12.64	12.58	-1.29
9,051.0	71.20	79.20	8,862.5	-77.6	347.1	-89.5	12.87	12.26	-4.19
9,082.0	73.70	78.40	8,871.9	-71.9	376.1	-107.8	8.43	8.06	-2.58
9,095.0	75.00	77.60	8,875.4	-69.3	388.4	-115.7	11.62	10.00	-6.15
9,168.0	78.20	74.50	8,892.3	-52.2	457.3	-162.4	6.02	4.38	-4.25
9,198.7	78.10	76.32	8,898.6	-44.6	486.3	-182.4	5.82	-0.31	5.94
LP Derringer 18 B3EH Fed 1H									
9,200.0	78.10	76.40	8,898.9	-44.3	487.6	-183.3	5.82	-0.29	5.94
9,231.0	77.60	76.50	8,905.4	-37.2	517.1	-203.0	1.64	-1.61	0.32
9,262.0	78.30	76.80	8,911.8	-30.2	546.6	-222.7	2.45	2.26	0.97
9,293.0	79.80	77.10	8,917.7	-23.3	576.2	-242.4	4.93	4.84	0.97
9,324.0	81.90	77.20	8,922.7	-16.5	606.0	-262.1	6.78	6.77	0.32
9,355.0	83.60	77.90	8,926.6	-9.9	636.1	-281.7	5.92	5.48	2.26
9,386.0	85.50	79.80	8,929.5	-3.9	666.3	-300.8	8.65	6.13	6.13
9,418.0	86.90	82.00	8,931.6	1.1	697.9	-319.7	8.14	4.38	6.88
9,449.0	87.30	83.10	8,933.2	5.2	728.6	-337.3	3.77	1.29	3.55
9,480.0	87.30	83.00	8,934.7	8.9	759.3	-354.7	0.32	0.00	-0.32
9,573.0	89.50	87.60	8,937.3	16.5	851.9	-403.7	5.48	2.37	4.95
9,666.0	89.90	87.60	8,937.8	20.4	944.8	-449.6	0.43	0.43	0.00
9,760.0	88.80	87.60	8,938.8	24.3	1,038.7	-496.0	1.17	-1.17	0.00
9,853.0	87.50	87.60	8,941.8	28.2	1,131.6	-541.9	1.40	-1.40	0.00
9,947.0	87.90	88.50	8,945.6	31.4	1,225.5	-587.6	1.05	0.43	0.96
10,040.0	88.50	89.60	8,948.5	33.0	1,318.4	-631.4	1.35	0.65	1.18
10,133.0	88.90	89.90	8,950.6	33.4	1,411.4	-674.2	0.54	0.43	0.32
10,227.0	88.70	89.50	8,952.6	33.9	1,505.4	-717.6	0.48	-0.21	-0.43
10,321.0	91.10	89.80	8,952.8	34.4	1,599.4	-761.0	2.57	2.55	0.32
10,414.0	91.10	89.20	8,951.0	35.3	1,692.3	-804.2	0.65	0.00	-0.65
10,508.0	86.60	87.80	8,952.9	37.7	1,786.3	-849.3	5.01	-4.79	-1.49
10,602.0	90.30	87.90	8,955.4	41.2	1,880.2	-895.3	3.94	3.94	0.11
10,696.0	90.00	86.90	8,955.2	45.5	1,974.1	-941.9	1.11	-0.32	-1.06
10,789.0	89.70	86.80	8,955.4	50.6	2,066.9	-988.9	0.34	-0.32	-0.11

Company: Mewbourne Oil Company
Project: Eddy County, New Mexico
Site: Section 18-20S-29E Derringer 18 B3EH Fed 2H
Well: Derringer 18 B3EH Fed 2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Derringer 18 B3EH Fed 2H
TVD Reference: 3260 + 27 @ 3287.0usft (Patterson 250)
MD Reference: 3260 + 27 @ 3287.0usft (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)
10,883.0	90.20	86.20	8,955.5	56.4	2,160.7	-1,036.8	0.83	0.53	-0.64
10,976.0	90.70	88.80	8,954.8	60.4	2,253.6	-1,082.9	2.85	0.54	2.80
11,070.0	89.30	89.70	8,954.8	61.6	2,347.6	-1,126.9	1.77	-1.49	0.96
11,163.0	88.00	89.20	8,956.9	62.5	2,440.6	-1,170.1	1.50	-1.40	-0.54
11,257.0	88.80	90.60	8,959.6	62.7	2,534.6	-1,213.2	1.71	0.85	1.49
11,350.0	88.30	90.40	8,961.9	61.9	2,627.5	-1,254.9	0.58	-0.54	-0.22
11,443.0	88.30	89.20	8,964.7	62.2	2,720.5	-1,297.7	1.29	0.00	-1.29
11,537.0	87.30	88.00	8,968.3	64.5	2,814.4	-1,342.6	1.66	-1.06	-1.28
11,630.0	86.90	88.60	8,973.0	67.3	2,907.2	-1,387.4	0.77	-0.43	0.65
11,724.0	89.50	90.10	8,975.9	68.3	3,001.2	-1,431.3	3.19	2.77	1.60
11,817.0	90.00	90.10	8,976.4	68.2	3,094.2	-1,473.6	0.54	0.54	0.00
11,911.0	88.90	89.80	8,977.3	68.2	3,188.1	-1,516.6	1.21	-1.17	-0.32
12,004.0	88.80	90.00	8,979.1	68.4	3,281.1	-1,559.2	0.24	-0.11	0.22
12,098.0	88.60	90.20	8,981.3	68.2	3,375.1	-1,602.0	0.30	-0.21	0.21
12,191.0	90.60	90.70	8,981.9	67.5	3,468.1	-1,643.8	2.22	2.15	0.54
12,285.0	87.80	90.00	8,983.2	66.9	3,562.1	-1,686.2	3.07	-2.98	-0.74
12,378.0	88.00	90.20	8,986.6	66.8	3,655.0	-1,728.5	0.30	0.22	0.22
12,472.0	90.90	91.30	8,987.5	65.5	3,749.0	-1,770.3	3.30	3.09	1.17
12,565.0	90.30	90.70	8,986.6	63.9	3,842.0	-1,811.3	0.91	-0.65	-0.65
12,659.0	90.50	90.70	8,985.9	62.8	3,936.0	-1,853.2	0.21	0.21	0.00
12,753.0	89.30	90.40	8,986.1	61.9	4,029.9	-1,895.3	1.32	-1.28	-0.32
12,846.0	88.30	89.80	8,988.0	61.7	4,122.9	-1,937.6	1.25	-1.08	-0.65
12,940.0	89.20	89.70	8,990.1	62.1	4,216.9	-1,980.9	0.96	0.96	-0.11
13,035.0	87.30	89.20	8,993.0	63.0	4,311.8	-2,025.1	2.07	-2.00	-0.53
13,100.0	87.30	89.20	8,996.0	63.9	4,376.8	-2,055.5	0.00	0.00	0.00

13100' MD Projected to Bit - PBHL Derringer 18 B3EH Fed 1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
8,231.0	8,225.8	-164.1	-70.2	8231' MD Phoenix Tech Gyro
13,100.0	8,996.0	63.9	4,376.8	13100' MD Projected to Bit