



NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 14 2019

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Mewbourne Oil Company

Eddy County, N.M. Nad (83)

Section 10-9-22S-23E Bogle Flats Fed Unit 9 Y1AD

Bogle Flats Fed Unit 9 Y1AD 1H

Original Hole

30.015-45067

Design: Original Hole

Survey Report - Geographic

24 September, 2018





Microsoft Survey Report - Geographic



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 10-9-22S-23E Bogle Flats Fed Unit 9 Y1AD
Well: Bogle Flats Fed Unit 9 Y1AD 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bogle Flats Fed Unit 9 Y1AD 1H
TVD Reference: 4103 + 27 @ 4130.0usft (Silver Oak #4)
MD Reference: 4103 + 27 @ 4130.0usft (Silver Oak #4)
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 10-9-22S-23E Bogle Flats Fed Unit 9 Y1AD				
Site Position:		Northing:	513,905.50 usft	Latitude:	32° 24' 45.081 N
From:	Map	Easting:	460,704.40 usft	Longitude:	104° 35' 40.655 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.14 °

Well	Bogle Flats Fed Unit 9 Y1AD 1H				
Well Position	+N/-S	0.0 usft	Northing:	513,905.50 usft	Latitude: 32° 24' 45.081 N
	+E/-W	0.0 usft	Easting:	460,704.40 usft	Longitude: 104° 35' 40.655 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft	Ground Level: 4,103.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/24/2018	7.31	60.06	47,812.03141178

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	257.42	

Survey Program	Date 9/24/2018				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	454.0	MS gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline	
581.0	7,855.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	513,905.50	460,704.40	32° 24' 45.081 N	104° 35' 40.655 W
100.0	0.09	345.01	100.0	0.1	0.0	513,905.58	460,704.38	32° 24' 45.082 N	104° 35' 40.655 W
200.0	0.20	248.82	200.0	0.1	-0.2	513,905.59	460,704.20	32° 24' 45.082 N	104° 35' 40.657 W
300.0	0.40	132.38	300.0	-0.2	-0.1	513,905.29	460,704.29	32° 24' 45.079 N	104° 35' 40.656 W
400.0	0.25	181.64	400.0	-0.7	0.1	513,904.84	460,704.54	32° 24' 45.075 N	104° 35' 40.653 W
454.0	0.04	165.42	454.0	-0.8	0.1	513,904.70	460,704.55	32° 24' 45.073 N	104° 35' 40.653 W
454.0' MD MS Gyro Survey									
581.0	0.10	214.40	581.0	-0.9	0.1	513,904.57	460,704.49	32° 24' 45.072 N	104° 35' 40.654 W
707.0	0.10	235.00	707.0	-1.1	-0.1	513,904.41	460,704.34	32° 24' 45.070 N	104° 35' 40.656 W
833.0	0.40	241.90	833.0	-1.4	-0.5	513,904.14	460,703.86	32° 24' 45.068 N	104° 35' 40.661 W



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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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
960.0	0.40	354.10	960.0	-1.1	-1.0	513,904.38	460,703.43	32° 24' 45.070 N	104° 35' 40.666 W
1,085.0	0.50	304.50	1,085.0	-0.4	-1.5	513,905.12	460,702.93	32° 24' 45.077 N	104° 35' 40.672 W
1,211.0	0.20	354.20	1,211.0	0.1	-1.9	513,905.65	460,702.46	32° 24' 45.082 N	104° 35' 40.678 W
1,339.0	0.50	247.00	1,339.0	0.2	-2.5	513,905.65	460,701.92	32° 24' 45.083 N	104° 35' 40.684 W
1,465.0	0.60	228.80	1,465.0	-0.5	-3.5	513,905.00	460,700.92	32° 24' 45.076 N	104° 35' 40.696 W
1,576.0	0.50	261.50	1,576.0	-1.0	-4.4	513,904.55	460,700.00	32° 24' 45.072 N	104° 35' 40.706 W
1,607.0	0.50	261.90	1,607.0	-1.0	-4.7	513,904.51	460,699.73	32° 24' 45.071 N	104° 35' 40.709 W
1,639.0	1.80	250.60	1,639.0	-1.2	-5.3	513,904.32	460,699.12	32° 24' 45.069 N	104° 35' 40.717 W
1,671.0	4.70	241.50	1,670.9	-2.0	-6.9	513,903.53	460,697.50	32° 24' 45.061 N	104° 35' 40.735 W
1,702.0	8.30	239.60	1,701.7	-3.7	-10.0	513,901.79	460,694.45	32° 24' 45.044 N	104° 35' 40.771 W
1,734.0	12.40	240.20	1,733.2	-6.6	-14.9	513,898.91	460,689.47	32° 24' 45.016 N	104° 35' 40.829 W
1,765.0	16.50	242.50	1,763.2	-10.3	-21.7	513,895.23	460,682.68	32° 24' 44.979 N	104° 35' 40.908 W
1,797.0	20.00	243.00	1,793.6	-14.9	-30.6	513,890.64	460,673.77	32° 24' 44.933 N	104° 35' 41.012 W
1,828.0	23.10	243.50	1,822.4	-20.0	-40.8	513,885.52	460,663.60	32° 24' 44.882 N	104° 35' 41.130 W
1,859.0	26.10	244.20	1,850.8	-25.7	-52.4	513,879.84	460,652.01	32° 24' 44.826 N	104° 35' 41.265 W
1,890.0	29.50	245.10	1,878.0	-31.8	-65.5	513,873.66	460,638.95	32° 24' 44.764 N	104° 35' 41.418 W
1,922.0	32.40	246.10	1,905.5	-38.6	-80.4	513,866.86	460,623.96	32° 24' 44.697 N	104° 35' 41.592 W
1,953.0	35.10	247.00	1,931.2	-45.5	-96.2	513,860.01	460,608.16	32° 24' 44.629 N	104° 35' 41.776 W
1,985.0	38.00	247.70	1,956.9	-52.8	-113.8	513,852.68	460,590.57	32° 24' 44.556 N	104° 35' 41.981 W
2,013.0	40.40	248.20	1,978.6	-59.5	-130.2	513,846.04	460,574.17	32° 24' 44.489 N	104° 35' 42.173 W
2,045.0	42.70	248.20	2,002.6	-67.3	-149.9	513,838.16	460,554.47	32° 24' 44.411 N	104° 35' 42.402 W
2,077.0	44.90	248.10	2,025.7	-75.6	-170.5	513,829.91	460,533.91	32° 24' 44.329 N	104° 35' 42.642 W
2,108.0	46.90	247.80	2,047.2	-83.9	-191.1	513,821.56	460,513.28	32° 24' 44.246 N	104° 35' 42.882 W
2,139.0	48.70	247.30	2,068.1	-92.7	-212.3	513,812.79	460,492.05	32° 24' 44.158 N	104° 35' 43.130 W
2,171.0	50.70	246.60	2,088.8	-102.3	-234.8	513,803.23	460,469.60	32° 24' 44.063 N	104° 35' 43.391 W
2,203.0	52.20	246.00	2,108.7	-112.3	-257.7	513,793.17	460,446.69	32° 24' 43.963 N	104° 35' 43.658 W
2,235.0	55.10	245.70	2,127.7	-122.9	-281.2	513,782.82	460,423.17	32° 24' 43.858 N	104° 35' 43.932 W
2,266.0	57.70	246.10	2,144.8	-133.4	-304.8	513,772.08	460,399.60	32° 24' 43.753 N	104° 35' 44.207 W
2,297.0	60.50	245.90	2,160.7	-144.2	-329.1	513,761.26	460,375.31	32° 24' 43.646 N	104° 35' 44.490 W
2,328.0	64.30	247.00	2,175.1	-155.2	-354.3	513,750.29	460,350.13	32° 24' 43.537 N	104° 35' 44.783 W
2,360.0	68.60	248.00	2,187.9	-166.4	-381.4	513,739.07	460,323.03	32° 24' 43.425 N	104° 35' 45.099 W
2,392.0	73.00	248.10	2,198.4	-177.7	-409.4	513,727.78	460,295.01	32° 24' 43.312 N	104° 35' 45.426 W
2,423.0	77.80	248.00	2,206.2	-188.9	-437.2	513,716.57	460,267.19	32° 24' 43.201 N	104° 35' 45.750 W
2,426.2	78.24	247.96	2,206.9	-190.1	-440.1	513,715.40	460,264.29	32° 24' 43.189 N	104° 35' 45.784 W
LP Bogle Flats Fed Unit 9 Y1AD 1H									
2,455.0	82.20	247.60	2,211.8	-200.8	-466.4	513,704.67	460,238.02	32° 24' 43.082 N	104° 35' 46.090 W
2,486.0	86.30	247.80	2,214.9	-212.5	-494.9	513,692.96	460,209.49	32° 24' 42.966 N	104° 35' 46.422 W
2,518.0	88.30	248.40	2,216.4	-224.5	-524.6	513,681.04	460,179.83	32° 24' 42.847 N	104° 35' 46.768 W
2,549.0	89.90	249.20	2,216.9	-235.7	-553.5	513,669.83	460,150.93	32° 24' 42.736 N	104° 35' 47.105 W
2,581.0	91.80	249.80	2,216.4	-246.9	-583.4	513,658.63	460,120.97	32° 24' 42.624 N	104° 35' 47.454 W
2,612.0	92.70	250.00	2,215.2	-257.5	-612.5	513,647.98	460,091.88	32° 24' 42.518 N	104° 35' 47.793 W
2,644.0	92.70	250.40	2,213.7	-268.3	-642.6	513,637.16	460,061.80	32° 24' 42.410 N	104° 35' 48.144 W
2,675.0	90.90	251.10	2,212.7	-278.6	-671.8	513,626.94	460,032.55	32° 24' 42.308 N	104° 35' 48.485 W
2,706.0	90.50	252.00	2,212.3	-288.4	-701.3	513,617.13	460,003.15	32° 24' 42.210 N	104° 35' 48.827 W
2,738.0	89.80	253.90	2,212.2	-297.8	-731.8	513,607.75	459,972.56	32° 24' 42.117 N	104° 35' 49.184 W
2,767.8	90.09	254.28	2,212.3	-305.9	-760.5	513,599.60	459,943.94	32° 24' 42.035 N	104° 35' 49.517 W
FTP Bogle Flats Fed Unit Y1AD									
2,769.0	90.10	254.30	2,212.3	-306.2	-761.7	513,599.26	459,942.74	32° 24' 42.032 N	104° 35' 49.531 W
2,801.0	90.50	255.40	2,212.1	-314.6	-792.5	513,590.89	459,911.85	32° 24' 41.949 N	104° 35' 49.892 W
2,833.0	90.40	257.20	2,211.8	-322.2	-823.6	513,583.32	459,880.77	32° 24' 41.873 N	104° 35' 50.254 W
2,864.0	90.90	258.10	2,211.5	-328.8	-853.9	513,576.69	459,850.49	32° 24' 41.806 N	104° 35' 50.607 W
2,896.0	90.70	259.30	2,211.0	-335.1	-885.3	513,570.42	459,819.11	32° 24' 41.744 N	104° 35' 50.973 W
2,928.0	90.00	261.70	2,210.8	-340.4	-916.8	513,565.14	459,787.55	32° 24' 41.691 N	104° 35' 51.341 W
2,959.0	90.30	262.40	2,210.8	-344.7	-947.5	513,560.85	459,756.85	32° 24' 41.647 N	104° 35' 51.699 W



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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
2,991.0	91.00	262.90	2,210.4	-348.7	-979.3	513,556.76	459,725.12	32° 24' 41.606 N	104° 35' 52.069 W
3,022.0	91.50	263.70	2,209.7	-352.4	-1,010.1	513,553.14	459,694.34	32° 24' 41.570 N	104° 35' 52.428 W
3,054.0	91.80	265.20	2,208.8	-355.5	-1,041.9	513,550.05	459,662.50	32° 24' 41.538 N	104° 35' 52.799 W
3,085.0	92.50	265.70	2,207.6	-357.9	-1,072.8	513,547.59	459,631.62	32° 24' 41.513 N	104° 35' 53.159 W
3,117.0	92.70	266.60	2,206.2	-360.1	-1,104.7	513,545.44	459,599.73	32° 24' 41.491 N	104° 35' 53.531 W
3,148.0	92.45	268.60	2,204.8	-361.4	-1,135.6	513,544.15	459,568.79	32° 24' 41.478 N	104° 35' 53.892 W
3,179.0	91.90	269.70	2,203.6	-361.8	-1,166.6	513,543.69	459,537.81	32° 24' 41.472 N	104° 35' 54.254 W
3,211.0	89.90	270.80	2,203.1	-361.7	-1,198.6	513,543.83	459,505.82	32° 24' 41.473 N	104° 35' 54.627 W
3,242.0	89.70	270.90	2,203.2	-361.2	-1,229.6	513,544.29	459,474.82	32° 24' 41.477 N	104° 35' 54.988 W
3,274.0	90.20	271.40	2,203.3	-360.6	-1,261.6	513,544.93	459,442.83	32° 24' 41.482 N	104° 35' 55.362 W
3,306.0	90.50	271.10	2,203.1	-359.9	-1,293.6	513,545.63	459,410.84	32° 24' 41.488 N	104° 35' 55.735 W
3,338.0	91.00	271.30	2,202.6	-359.2	-1,325.6	513,546.30	459,378.85	32° 24' 41.494 N	104° 35' 56.108 W
3,369.0	91.70	271.90	2,201.9	-358.3	-1,356.5	513,547.16	459,347.87	32° 24' 41.502 N	104° 35' 56.470 W
3,401.0	92.10	272.50	2,200.8	-357.1	-1,388.5	513,548.39	459,315.91	32° 24' 41.513 N	104° 35' 56.842 W
3,432.0	90.60	272.20	2,200.1	-355.8	-1,419.5	513,549.86	459,284.94	32° 24' 41.525 N	104° 35' 57.204 W
3,464.0	89.90	271.80	2,200.0	-354.7	-1,451.4	513,550.78	459,252.96	32° 24' 41.535 N	104° 35' 57.577 W
3,495.0	88.80	270.90	2,200.3	-354.0	-1,482.4	513,551.51	459,221.98	32° 24' 41.542 N	104° 35' 57.938 W
3,526.0	88.80	270.40	2,201.0	-353.8	-1,513.4	513,551.88	459,190.98	32° 24' 41.545 N	104° 35' 58.300 W
3,558.0	89.80	270.00	2,201.4	-353.5	-1,545.4	513,551.97	459,158.99	32° 24' 41.545 N	104° 35' 58.673 W
3,589.0	91.60	270.00	2,201.0	-353.5	-1,576.4	513,551.97	459,127.99	32° 24' 41.544 N	104° 35' 59.035 W
3,620.0	92.40	270.10	2,199.9	-353.5	-1,607.4	513,552.00	459,097.01	32° 24' 41.544 N	104° 35' 59.396 W
3,652.0	93.50	270.00	2,198.3	-353.5	-1,639.3	513,552.02	459,065.05	32° 24' 41.543 N	104° 35' 59.769 W
3,684.0	94.10	269.60	2,196.1	-353.6	-1,671.3	513,551.91	459,033.12	32° 24' 41.541 N	104° 36' 0.141 W
3,715.0	94.80	269.50	2,193.7	-353.8	-1,702.2	513,551.67	459,002.22	32° 24' 41.538 N	104° 36' 0.502 W
3,747.0	94.30	270.40	2,191.2	-353.9	-1,734.1	513,551.64	458,970.32	32° 24' 41.537 N	104° 36' 0.874 W
3,779.0	92.90	270.90	2,189.2	-353.5	-1,766.0	513,552.01	458,938.39	32° 24' 41.540 N	104° 36' 1.247 W
3,810.0	92.50	271.00	2,187.7	-353.0	-1,797.0	513,552.52	458,907.42	32° 24' 41.544 N	104° 36' 1.608 W
3,841.0	92.60	271.10	2,186.3	-352.4	-1,827.9	513,553.09	458,876.46	32° 24' 41.549 N	104° 36' 1.969 W
3,873.0	92.90	271.40	2,184.8	-351.7	-1,859.9	513,553.78	458,844.51	32° 24' 41.555 N	104° 36' 2.342 W
3,904.0	93.20	271.40	2,183.2	-351.0	-1,890.8	513,554.54	458,813.56	32° 24' 41.562 N	104° 36' 2.703 W
3,936.0	93.70	271.70	2,181.2	-350.1	-1,922.8	513,555.40	458,781.63	32° 24' 41.570 N	104° 36' 3.075 W
3,968.0	93.80	272.50	2,179.1	-348.9	-1,954.7	513,556.57	458,749.72	32° 24' 41.580 N	104° 36' 3.448 W
3,999.0	92.60	272.40	2,177.4	-347.6	-1,985.6	513,557.90	458,718.80	32° 24' 41.593 N	104° 36' 3.808 W
4,031.0	92.70	272.40	2,175.9	-346.3	-2,017.5	513,559.24	458,686.86	32° 24' 41.605 N	104° 36' 4.181 W
4,062.0	93.20	272.80	2,174.3	-344.9	-2,048.5	513,560.64	458,655.93	32° 24' 41.618 N	104° 36' 4.542 W
4,094.0	93.00	273.10	2,172.6	-343.2	-2,080.4	513,562.28	458,624.02	32° 24' 41.634 N	104° 36' 4.914 W
4,125.0	91.90	273.10	2,171.3	-341.5	-2,111.3	513,563.96	458,593.09	32° 24' 41.650 N	104° 36' 5.275 W
4,157.0	91.50	272.90	2,170.3	-339.9	-2,143.2	513,565.63	458,561.15	32° 24' 41.665 N	104° 36' 5.648 W
4,188.0	91.60	273.10	2,169.5	-338.2	-2,174.2	513,567.25	458,530.21	32° 24' 41.681 N	104° 36' 6.009 W
4,219.0	91.80	272.80	2,168.6	-336.7	-2,205.1	513,568.85	458,499.26	32° 24' 41.696 N	104° 36' 6.370 W
4,251.0	91.30	270.90	2,167.7	-335.6	-2,237.1	513,569.88	458,467.29	32° 24' 41.705 N	104° 36' 6.743 W
4,282.0	91.60	270.70	2,166.9	-335.2	-2,268.1	513,570.31	458,436.30	32° 24' 41.709 N	104° 36' 7.104 W
4,313.0	92.00	270.30	2,166.0	-334.9	-2,299.1	513,570.59	458,405.32	32° 24' 41.710 N	104° 36' 7.466 W
4,345.0	92.70	270.70	2,164.6	-334.6	-2,331.1	513,570.86	458,373.35	32° 24' 41.712 N	104° 36' 7.839 W
4,376.0	93.30	270.80	2,163.0	-334.2	-2,362.0	513,571.27	458,342.39	32° 24' 41.716 N	104° 36' 8.200 W
4,408.0	92.60	270.90	2,161.4	-333.8	-2,394.0	513,571.74	458,310.44	32° 24' 41.720 N	104° 36' 8.573 W
4,439.0	91.20	270.50	2,160.3	-333.4	-2,424.9	513,572.12	458,279.46	32° 24' 41.723 N	104° 36' 8.934 W
4,470.0	90.80	270.30	2,159.8	-333.2	-2,455.9	513,572.34	458,248.47	32° 24' 41.724 N	104° 36' 9.296 W
4,500.0	90.90	270.40	2,159.4	-333.0	-2,485.9	513,572.52	458,218.47	32° 24' 41.725 N	104° 36' 9.645 W
4,532.0	91.10	270.20	2,158.8	-332.8	-2,517.9	513,572.69	458,186.48	32° 24' 41.726 N	104° 36' 10.019 W
4,563.0	91.30	270.20	2,158.2	-332.7	-2,548.9	513,572.80	458,155.48	32° 24' 41.726 N	104° 36' 10.380 W
4,594.0	91.60	270.20	2,157.4	-332.6	-2,579.9	513,572.91	458,124.49	32° 24' 41.726 N	104° 36' 10.742 W
4,625.0	92.00	270.20	2,156.4	-332.5	-2,610.9	513,573.01	458,093.51	32° 24' 41.727 N	104° 36' 11.103 W
4,657.0	92.50	270.00	2,155.1	-332.4	-2,642.9	513,573.07	458,061.53	32° 24' 41.726 N	104° 36' 11.476 W



Microsoft
Survey Report - Geographic



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 10-8-22S-23E Bogle Flats Fed Unit 9 Y1AD
Well: Bogle Flats Fed Unit 9 Y1AD 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bogle Flats Fed Unit 9 Y1AD 1H
TVD Reference: 4103 + 27 @ 4130.0usft (Silver Oak #4)
MD Reference: 4103 + 27 @ 4130.0usft (Silver Oak #4)
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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,689.0	92.50	270.20	2,153.7	-332.4	-2,674.8	513,573.13	458,029.56	32° 24' 41.728 N	104° 36' 11.849 W
4,720.0	92.80	270.20	2,152.3	-332.3	-2,705.8	513,573.23	457,998.60	32° 24' 41.727 N	104° 36' 12.210 W
4,751.0	93.20	270.20	2,150.7	-332.2	-2,736.8	513,573.34	457,967.84	32° 24' 41.727 N	104° 36' 12.572 W
4,783.0	93.80	270.20	2,148.7	-332.0	-2,768.7	513,573.45	457,935.70	32° 24' 41.727 N	104° 36' 12.944 W
4,814.0	93.50	270.10	2,146.8	-332.0	-2,799.6	513,573.53	457,904.76	32° 24' 41.727 N	104° 36' 13.305 W
4,846.0	92.00	269.30	2,145.2	-332.1	-2,831.6	513,573.37	457,872.80	32° 24' 41.725 N	104° 36' 13.678 W
4,877.0	92.40	269.50	2,144.0	-332.5	-2,862.6	513,573.04	457,841.83	32° 24' 41.721 N	104° 36' 14.039 W
4,909.0	92.80	269.10	2,142.6	-332.8	-2,894.5	513,572.65	457,809.86	32° 24' 41.716 N	104° 36' 14.412 W
4,941.0	92.30	270.00	2,141.2	-333.1	-2,926.5	513,572.40	457,777.89	32° 24' 41.713 N	104° 36' 14.785 W
4,972.0	90.20	269.90	2,140.5	-333.1	-2,957.5	513,572.37	457,746.90	32° 24' 41.712 N	104° 36' 15.147 W
5,003.0	90.10	269.80	2,140.4	-333.2	-2,988.5	513,572.29	457,715.90	32° 24' 41.710 N	104° 36' 15.508 W
5,035.0	91.30	270.30	2,140.0	-333.2	-3,020.5	513,572.32	457,683.91	32° 24' 41.710 N	104° 36' 15.881 W
5,066.0	92.00	270.00	2,139.1	-333.1	-3,051.5	513,572.40	457,652.92	32° 24' 41.710 N	104° 36' 16.243 W
5,098.0	91.90	271.00	2,138.0	-332.8	-3,083.5	513,572.68	457,620.94	32° 24' 41.712 N	104° 36' 16.616 W
5,129.0	90.40	270.90	2,137.4	-332.3	-3,114.4	513,573.19	457,589.95	32° 24' 41.716 N	104° 36' 16.978 W
5,161.0	90.60	271.10	2,137.1	-331.7	-3,146.4	513,573.75	457,557.96	32° 24' 41.721 N	104° 36' 17.351 W
5,192.0	91.40	271.30	2,136.6	-331.1	-3,177.4	513,574.40	457,526.97	32° 24' 41.726 N	104° 36' 17.712 W
5,222.0	92.00	271.50	2,135.7	-330.4	-3,207.4	513,575.13	457,496.99	32° 24' 41.733 N	104° 36' 18.062 W
5,254.0	91.30	271.80	2,134.8	-329.4	-3,239.4	513,576.06	457,465.02	32° 24' 41.741 N	104° 36' 18.435 W
5,286.0	90.10	272.00	2,134.4	-328.4	-3,271.4	513,577.12	457,433.04	32° 24' 41.751 N	104° 36' 18.808 W
5,317.0	89.70	271.70	2,134.4	-327.4	-3,302.3	513,578.12	457,402.06	32° 24' 41.760 N	104° 36' 19.170 W
5,348.0	91.00	271.90	2,134.2	-326.4	-3,333.3	513,579.09	457,371.07	32° 24' 41.769 N	104° 36' 19.531 W
5,380.0	91.90	272.30	2,133.4	-325.2	-3,365.3	513,580.26	457,339.10	32° 24' 41.780 N	104° 36' 19.904 W
5,411.0	92.40	272.00	2,132.3	-324.1	-3,396.3	513,581.43	457,308.15	32° 24' 41.790 N	104° 36' 20.265 W
5,443.0	91.00	271.80	2,131.3	-323.1	-3,428.2	513,582.43	457,276.18	32° 24' 41.799 N	104° 36' 20.638 W
5,475.0	90.90	270.80	2,130.8	-322.4	-3,460.2	513,583.10	457,244.19	32° 24' 41.805 N	104° 36' 21.011 W
5,506.0	91.80	270.70	2,130.1	-322.0	-3,491.2	513,583.51	457,213.20	32° 24' 41.808 N	104° 36' 21.373 W
5,537.0	92.40	270.70	2,128.9	-321.6	-3,522.2	513,583.88	457,182.22	32° 24' 41.811 N	104° 36' 21.734 W
5,569.0	92.50	270.50	2,127.6	-321.3	-3,554.1	513,584.22	457,150.26	32° 24' 41.814 N	104° 36' 22.107 W
5,600.0	92.70	270.10	2,126.2	-321.1	-3,585.1	513,584.38	457,119.29	32° 24' 41.815 N	104° 36' 22.468 W
5,631.0	90.90	268.90	2,125.2	-321.4	-3,616.1	513,584.11	457,088.31	32° 24' 41.811 N	104° 36' 22.830 W
5,662.0	90.60	268.40	2,124.8	-322.1	-3,647.1	513,583.38	457,057.32	32° 24' 41.803 N	104° 36' 23.191 W
5,694.0	91.10	268.60	2,124.3	-323.0	-3,679.1	513,582.54	457,025.33	32° 24' 41.794 N	104° 36' 23.564 W
5,725.0	92.10	268.50	2,123.4	-323.7	-3,710.0	513,581.76	456,994.36	32° 24' 41.786 N	104° 36' 23.926 W
5,757.0	91.60	268.80	2,122.4	-324.5	-3,742.0	513,581.01	456,962.38	32° 24' 41.777 N	104° 36' 24.299 W
5,788.0	90.30	268.20	2,121.9	-325.3	-3,773.0	513,580.19	456,931.40	32° 24' 41.769 N	104° 36' 24.660 W
5,820.0	90.20	268.80	2,121.7	-326.2	-3,805.0	513,579.30	456,899.41	32° 24' 41.759 N	104° 36' 25.033 W
5,851.0	91.60	269.30	2,121.3	-326.8	-3,836.0	513,578.73	456,868.42	32° 24' 41.752 N	104° 36' 25.395 W
5,883.0	92.80	269.50	2,120.0	-327.1	-3,868.0	513,578.40	456,836.45	32° 24' 41.748 N	104° 36' 25.768 W
5,914.0	92.00	270.00	2,118.7	-327.2	-3,898.9	513,578.26	456,805.47	32° 24' 41.746 N	104° 36' 26.129 W
5,946.0	90.50	270.40	2,118.0	-327.1	-3,930.9	513,578.37	456,773.48	32° 24' 41.747 N	104° 36' 26.502 W
5,995.0	91.60	271.10	2,117.1	-326.5	-3,979.9	513,579.02	456,724.50	32° 24' 41.752 N	104° 36' 27.074 W
6,026.0	90.60	271.60	2,116.5	-325.8	-4,010.9	513,579.75	456,693.51	32° 24' 41.758 N	104° 36' 27.435 W
6,058.0	89.40	272.20	2,116.5	-324.7	-4,042.9	513,580.81	456,661.53	32° 24' 41.768 N	104° 36' 27.808 W
6,089.0	89.20	272.20	2,116.9	-323.5	-4,073.8	513,582.00	456,630.55	32° 24' 41.779 N	104° 36' 28.170 W
6,121.0	89.10	272.00	2,117.4	-322.3	-4,105.8	513,583.17	456,598.58	32° 24' 41.790 N	104° 36' 28.543 W
6,152.0	90.00	272.20	2,117.6	-321.2	-4,136.8	513,584.30	456,567.60	32° 24' 41.800 N	104° 36' 28.904 W
6,184.0	90.50	272.20	2,117.5	-320.0	-4,168.8	513,585.53	456,535.62	32° 24' 41.811 N	104° 36' 29.277 W
6,215.0	91.00	272.20	2,117.1	-318.8	-4,199.7	513,586.72	456,504.65	32° 24' 41.822 N	104° 36' 29.639 W
6,247.0	91.30	272.00	2,116.5	-317.6	-4,231.7	513,587.90	456,472.68	32° 24' 41.833 N	104° 36' 30.012 W
6,278.0	91.30	272.10	2,115.7	-316.5	-4,262.7	513,589.00	456,441.71	32° 24' 41.843 N	104° 36' 30.373 W
6,310.0	89.50	271.30	2,115.5	-315.5	-4,294.7	513,589.95	456,409.72	32° 24' 41.852 N	104° 36' 30.746 W
6,342.0	89.50	270.90	2,115.8	-314.9	-4,326.7	513,590.57	456,377.73	32° 24' 41.857 N	104° 36' 31.119 W
6,373.0	89.70	270.80	2,116.0	-314.5	-4,357.7	513,591.03	456,346.73	32° 24' 41.861 N	104° 36' 31.481 W



Microsoft
Survey Report - Geographic



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 10-9-22S-23E Bogle Flats Fed Unit 9 Y1AD
Well: Bogle Flats Fed Unit 9 Y1AD 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bogle Flats Fed Unit 9 Y1AD 1H
TVD Reference: 4103 + 27 @ 4130.0usft (Silver Oak #4)
MD Reference: 4103 + 27 @ 4130.0usft (Silver Oak #4)
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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,405.0	90.50	271.10	2,116.0	-313.9	-4,389.7	513,591.56	456,314.74	32° 24' 41.865 N	104° 36' 31.854 W
6,436.0	91.30	271.20	2,115.5	-313.3	-4,420.7	513,592.18	456,283.75	32° 24' 41.871 N	104° 36' 32.216 W
6,468.0	92.00	271.50	2,114.6	-312.6	-4,452.6	513,592.93	456,251.77	32° 24' 41.877 N	104° 36' 32.589 W
6,499.0	92.50	271.30	2,113.3	-311.8	-4,483.6	513,593.69	456,220.80	32° 24' 41.884 N	104° 36' 32.950 W
6,531.0	92.50	270.90	2,111.9	-311.2	-4,515.6	513,594.30	456,188.84	32° 24' 41.889 N	104° 36' 33.323 W
6,562.0	91.30	270.10	2,110.9	-310.9	-4,546.5	513,594.57	456,157.86	32° 24' 41.891 N	104° 36' 33.684 W
6,594.0	91.40	269.70	2,110.2	-311.0	-4,578.5	513,594.52	456,125.87	32° 24' 41.890 N	104° 36' 34.058 W
6,626.0	91.80	269.30	2,109.3	-311.3	-4,610.5	513,594.24	456,093.88	32° 24' 41.886 N	104° 36' 34.431 W
6,657.0	92.40	269.50	2,108.1	-311.6	-4,641.5	513,593.91	456,062.91	32° 24' 41.882 N	104° 36' 34.792 W
6,688.0	92.90	269.10	2,106.7	-312.0	-4,672.5	513,593.54	456,031.94	32° 24' 41.878 N	104° 36' 35.153 W
6,720.0	93.00	269.50	2,105.1	-312.4	-4,704.4	513,593.15	455,999.99	32° 24' 41.873 N	104° 36' 35.526 W
6,751.0	91.10	269.20	2,103.9	-312.7	-4,735.4	513,592.79	455,969.01	32° 24' 41.869 N	104° 36' 35.887 W
6,783.0	91.10	269.30	2,103.3	-313.1	-4,767.4	513,592.38	455,937.02	32° 24' 41.864 N	104° 36' 36.261 W
6,815.0	91.80	269.70	2,102.5	-313.4	-4,799.4	513,592.10	455,905.03	32° 24' 41.860 N	104° 36' 36.634 W
6,846.0	92.40	269.70	2,101.4	-313.6	-4,830.3	513,591.93	455,874.05	32° 24' 41.858 N	104° 36' 36.995 W
6,878.0	92.80	269.30	2,099.9	-313.8	-4,862.3	513,591.66	455,842.09	32° 24' 41.854 N	104° 36' 37.368 W
6,909.0	93.70	269.70	2,098.2	-314.1	-4,893.3	513,591.39	455,811.14	32° 24' 41.851 N	104° 36' 37.729 W
6,940.0	93.90	269.50	2,096.1	-314.3	-4,924.2	513,591.17	455,780.21	32° 24' 41.848 N	104° 36' 38.090 W
6,972.0	94.30	270.20	2,093.8	-314.4	-4,956.1	513,591.09	455,748.29	32° 24' 41.846 N	104° 36' 38.462 W
7,003.0	92.40	270.50	2,092.0	-314.2	-4,987.1	513,591.28	455,717.34	32° 24' 41.847 N	104° 36' 38.823 W
7,034.0	92.10	270.30	2,090.8	-314.0	-5,018.0	513,591.49	455,686.37	32° 24' 41.849 N	104° 36' 39.185 W
7,065.0	91.70	271.10	2,089.8	-313.6	-5,049.0	513,591.87	455,655.39	32° 24' 41.852 N	104° 36' 39.546 W
7,097.0	90.20	271.60	2,089.2	-312.9	-5,081.0	513,592.62	455,623.40	32° 24' 41.858 N	104° 36' 39.919 W
7,128.0	90.10	271.60	2,089.2	-312.0	-5,112.0	513,593.49	455,592.41	32° 24' 41.866 N	104° 36' 40.281 W
7,160.0	90.50	271.90	2,089.0	-311.0	-5,144.0	513,594.47	455,560.43	32° 24' 41.875 N	104° 36' 40.654 W
7,191.0	90.90	271.60	2,088.6	-310.1	-5,175.0	513,595.41	455,529.45	32° 24' 41.883 N	104° 36' 41.015 W
7,223.0	91.80	271.60	2,087.9	-309.2	-5,206.9	513,596.31	455,497.47	32° 24' 41.891 N	104° 36' 41.388 W
7,254.0	92.60	271.50	2,086.7	-308.4	-5,237.9	513,597.14	455,466.50	32° 24' 41.899 N	104° 36' 41.750 W
7,286.0	93.40	271.50	2,085.0	-307.5	-5,269.8	513,597.98	455,434.56	32° 24' 41.906 N	104° 36' 42.122 W
7,317.0	93.10	271.90	2,083.2	-306.6	-5,300.8	513,598.90	455,403.62	32° 24' 41.915 N	104° 36' 42.483 W
7,349.0	91.80	271.80	2,081.9	-305.6	-5,332.7	513,599.93	455,371.67	32° 24' 41.924 N	104° 36' 42.856 W
7,381.0	91.90	271.90	2,080.8	-304.5	-5,364.7	513,600.96	455,339.70	32° 24' 41.933 N	104° 36' 43.229 W
7,412.0	92.40	272.30	2,079.7	-303.4	-5,395.7	513,602.10	455,308.74	32° 24' 41.944 N	104° 36' 43.590 W
7,444.0	91.80	272.10	2,078.5	-302.2	-5,427.6	513,603.33	455,276.79	32° 24' 41.955 N	104° 36' 43.963 W
7,475.0	90.10	271.50	2,078.0	-301.2	-5,458.6	513,604.30	455,245.81	32° 24' 41.964 N	104° 36' 44.324 W
7,506.0	90.00	271.20	2,078.0	-300.5	-5,489.6	513,605.03	455,214.82	32° 24' 41.970 N	104° 36' 44.686 W
7,537.0	90.40	271.00	2,077.9	-299.9	-5,520.6	513,605.63	455,183.82	32° 24' 41.975 N	104° 36' 45.048 W
7,569.0	90.70	270.90	2,077.5	-299.3	-5,552.6	513,606.16	455,151.83	32° 24' 41.980 N	104° 36' 45.421 W
7,600.0	91.50	271.20	2,077.0	-298.8	-5,583.6	513,606.72	455,120.84	32° 24' 41.985 N	104° 36' 45.782 W
7,632.0	91.60	270.90	2,076.1	-298.2	-5,615.5	513,607.31	455,088.86	32° 24' 41.990 N	104° 36' 46.155 W
7,663.0	91.70	270.90	2,075.2	-297.7	-5,646.5	513,607.80	455,057.88	32° 24' 41.994 N	104° 36' 46.517 W
7,695.0	90.00	270.70	2,074.7	-297.3	-5,678.5	513,608.24	455,025.88	32° 24' 41.997 N	104° 36' 46.890 W
7,726.0	89.80	270.20	2,074.8	-297.0	-5,709.5	513,608.49	454,994.88	32° 24' 41.999 N	104° 36' 47.252 W
7,758.0	90.10	270.20	2,074.8	-296.9	-5,741.5	513,608.60	454,962.88	32° 24' 41.999 N	104° 36' 47.625 W
7,792.0	91.30	269.90	2,074.4	-296.9	-5,775.5	513,608.63	454,928.89	32° 24' 41.999 N	104° 36' 48.022 W
7,855.0	81.30	269.90	2,073.0	-297.0	-5,838.5	513,608.52	454,865.90	32° 24' 41.996 N	104° 36' 48.756 W

7855.0' MD Projected to Bit - PBHL Bogle Flats Fed Unit 9 Y1AD 1H



Microsoft Survey Report - Geographic



Company: Mewbourne Oil Company
Project: Eddy County, N.M. Nad (83)
Site: Section 10-9-22S-23E Bogle Flats Fed Unit 9 Y1AD
Well: Bogle Flats Fed Unit 9 Y1AD 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Bogle Flats Fed Unit 9 Y1AD 1H
TVD Reference: 4103 + 27 @ 4130.0usft (Silver Oak #4)
MD Reference: 4103 + 27 @ 4130.0usft (Silver Oak #4)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
454.0	454.0	-0.8	0.1	454.0' MD MS Gyro Survey
7,855.0	2,073.0	-207.0	-5,838.5	7855.0' MD Projected to Bit