



NM OIL CONSERVATION  
ARTESIA DISTRICT  
MAR 31 2017

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30-015-43879

# Mewbourne Oil Company

Eddy County, New Mexico

Section 8\_9-25S-28E Devon 8 W2PM Fee 1H

Devon 8 W2PM Fee #1H

Original Hole

Design: Original Hole

## Standard Survey Report

27 December, 2016





# Microsoft Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 8\_9-25S-28E Devon 8 W2PM Fee 1H  
**Well:** Devon 8 W2PM Fee #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 8 W2PM Fee #1H  
**TVD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**MD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

<b>Project</b>	Eddy County, New Mexico		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	New Mexico East 3001		

<b>Site</b>	Section 8_9-25S-28E Devon 8 W2PM Fee 1H				
<b>Site Position:</b>		<b>Northing:</b>	414,256.00 usft	<b>Latitude:</b>	32° 8' 19.288 N
<b>From:</b>	Map	<b>Easting:</b>	572,251.50 usft	<b>Longitude:</b>	104° 5' 59.670 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.12 °

<b>Well</b>	Devon 8 W2PM Fee #1H					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	414,256.00 usft	<b>Latitude:</b>	32° 8' 19.288 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	572,251.50 usft	<b>Longitude:</b>	104° 5' 59.670 W
<b>Position Uncertainty</b>	0.0 usft		<b>Wellhead Elevation:</b>	27.0 usft	<b>Ground Level:</b>	3,002.0 usft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	11/29/2016	7.25	59.90	47,889.70681068

<b>Design</b>	Original Hole				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>		<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
		0.0	0.0	0.0	218.22

<b>Survey Program</b>	Date 12/27/2016				
	<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
	100.0	9,575.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
	9,633.0	15,270.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

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	0.47	28.77	100.0	0.4	0.2	-0.4	0.47	0.47	0.00
200.0	0.48	344.33	200.0	1.1	0.3	-1.1	0.36	0.01	-44.44
300.0	0.49	60.63	300.0	1.7	0.5	-1.7	0.60	0.01	76.30
400.0	0.22	227.82	400.0	1.8	0.8	-1.9	0.71	-0.27	167.19
500.0	0.19	129.62	500.0	1.6	0.8	-1.7	0.31	-0.03	-98.20
600.0	0.75	159.23	600.0	0.9	1.1	-1.4	0.59	0.56	29.61
700.0	1.18	156.47	700.0	-0.7	1.8	-0.5	0.43	0.43	-2.76
800.0	1.66	157.91	799.9	-3.0	2.7	0.7	0.48	0.48	1.44
900.0	1.80	151.74	899.9	-5.7	4.0	2.0	0.23	0.14	-6.17



Microsoft  
Survey Report



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**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)
1,000.0	0.89	136.09	999.9	-7.6	5.3	2.7	0.97	-0.91	-15.65
1,100.0	1.11	78.22	1,099.9	-8.0	6.8	2.1	0.99	0.22	-57.87
1,200.0	1.20	72.32	1,199.8	-7.5	8.7	0.5	0.15	0.09	-5.90
1,300.0	1.04	62.47	1,299.8	-6.8	10.5	-1.2	0.25	-0.16	-9.85
1,400.0	0.45	277.23	1,399.8	-6.3	10.9	-1.8	1.43	-0.59	-145.24
1,500.0	1.84	281.83	1,499.8	-5.9	9.0	-0.9	1.39	1.39	4.60
1,600.0	0.49	271.25	1,599.8	-5.6	7.0	0.1	1.36	-1.35	-10.58
1,700.0	0.96	139.01	1,699.8	-6.2	7.1	0.5	1.34	0.47	-132.24
1,800.0	1.49	127.42	1,799.7	-7.6	8.7	0.6	0.58	0.53	-11.59
1,900.0	2.88	115.24	1,899.7	-9.5	12.0	0.0	1.46	1.39	-12.18
2,000.0	1.03	139.39	1,999.6	-11.2	14.8	-0.4	1.99	-1.85	24.15
2,100.0	1.08	201.38	2,099.6	-12.8	15.1	0.7	1.09	0.05	61.99
2,200.0	1.35	116.08	2,199.6	-14.2	15.8	1.4	1.66	0.27	-85.30
2,300.0	2.41	107.78	2,299.5	-15.3	18.9	0.4	1.09	1.06	-8.30
2,400.0	1.55	338.65	2,399.5	-14.7	20.4	-1.0	3.60	-0.86	-129.13
2,500.0	2.32	323.73	2,499.4	-11.8	18.7	-2.3	0.91	0.77	-14.92
2,600.0	2.16	323.81	2,599.4	-8.7	16.4	-3.3	0.16	-0.16	0.08
2,700.0	1.93	321.10	2,699.3	-5.9	14.2	-4.2	0.25	-0.23	-2.71
2,800.0	1.96	329.87	2,799.2	-3.1	12.3	-5.2	0.30	0.03	8.77
2,900.0	1.58	332.20	2,899.2	-0.4	10.8	-6.4	0.39	-0.38	2.33
3,000.0	1.66	341.77	2,999.1	2.2	9.7	-7.7	0.28	0.08	9.57
3,100.0	1.47	346.97	3,099.1	4.9	8.9	-9.3	0.24	-0.19	5.20
3,200.0	1.25	1.26	3,199.1	7.2	8.7	-11.0	0.40	-0.22	14.29
3,300.0	1.16	1.29	3,299.1	9.3	8.7	-12.7	0.09	-0.09	0.03
3,400.0	0.88	5.69	3,399.0	11.1	8.8	-14.2	0.29	-0.28	4.40
3,500.0	0.96	348.26	3,499.0	12.7	8.7	-15.3	0.29	0.08	-17.43
3,600.0	0.98	346.95	3,599.0	14.3	8.4	-16.4	0.03	0.02	-1.31
3,700.0	0.93	359.24	3,699.0	16.0	8.2	-17.6	0.21	-0.05	12.29
3,800.0	0.74	346.83	3,799.0	17.4	8.0	-18.6	0.26	-0.19	-12.41
3,900.0	0.79	339.30	3,899.0	18.7	7.6	-19.4	0.11	0.05	-7.53
4,000.0	0.81	331.33	3,999.0	19.9	7.0	-20.0	0.11	0.02	-7.97
4,100.0	0.78	336.46	4,099.0	21.2	6.4	-20.6	0.08	-0.03	5.13
4,200.0	0.94	332.90	4,199.0	22.5	5.8	-21.3	0.17	0.16	-3.56
4,300.0	0.85	288.11	4,298.9	23.5	4.7	-21.4	0.69	-0.09	-44.79
4,400.0	0.80	311.31	4,398.9	24.2	3.5	-21.1	0.34	-0.05	23.20
4,500.0	0.55	311.23	4,498.9	25.0	2.6	-21.2	0.25	-0.25	-0.08
4,600.0	0.61	277.39	4,598.9	25.3	1.7	-21.0	0.34	0.06	-33.84
4,700.0	0.65	259.14	4,698.9	25.3	0.6	-20.3	0.20	0.04	-18.25
4,800.0	0.60	265.32	4,798.9	25.2	-0.5	-19.5	0.08	-0.05	6.18
4,900.0	0.72	246.46	4,898.9	24.9	-1.6	-18.6	0.25	0.12	-18.86
5,000.0	0.91	239.34	4,998.9	24.2	-2.8	-17.3	0.21	0.19	-7.12
5,100.0	0.95	238.74	5,098.9	23.4	-4.2	-15.8	0.04	0.04	-0.60
5,200.0	0.92	235.69	5,198.9	22.5	-5.6	-14.2	0.06	-0.03	-3.05



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Survey

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5,300.0	0.73	247.56	5,298.9	21.8	-6.8	-12.9	0.25	-0.19	11.87
5,400.0	0.77	234.30	5,398.8	21.2	-8.0	-11.7	0.18	0.04	-13.26
5,500.0	1.01	216.35	5,498.8	20.1	-9.0	-10.2	0.37	0.24	-17.95
5,600.0	1.14	224.56	5,598.8	18.6	-10.3	-8.3	0.20	0.13	8.21
5,700.0	1.00	238.55	5,698.8	17.5	-11.7	-6.5	0.30	-0.14	13.99
5,800.0	1.17	226.76	5,798.8	16.3	-13.2	-4.7	0.28	0.17	-11.79
5,900.0	1.23	229.07	5,898.8	14.9	-14.8	-2.6	0.08	0.06	2.31
6,000.0	1.14	223.43	5,998.7	13.5	-16.2	-0.6	0.15	-0.09	-5.64
6,100.0	1.44	222.26	6,098.7	11.8	-17.8	1.7	0.30	0.30	-1.17
6,200.0	3.67	223.07	6,198.6	8.6	-20.8	6.1	2.23	2.23	0.81
6,300.0	4.41	206.84	6,298.4	2.8	-24.7	13.1	1.35	0.74	-16.23
6,400.0	4.41	207.72	6,398.1	-4.0	-28.3	20.6	0.07	0.00	0.88
6,500.0	4.28	215.15	6,497.8	-10.5	-32.2	28.1	0.58	-0.13	7.43
6,600.0	4.21	213.05	6,597.5	-16.6	-36.3	35.5	0.17	-0.07	-2.10
6,700.0	3.55	214.04	6,697.3	-22.3	-40.1	42.3	0.66	-0.66	0.99
6,800.0	3.37	227.81	6,797.1	-26.8	-44.0	48.3	0.85	-0.18	13.77
6,900.0	2.98	242.23	6,896.9	-30.0	-48.5	53.5	0.89	-0.39	14.42
7,000.0	3.23	243.40	6,996.8	-32.4	-53.3	58.5	0.26	0.25	1.17
7,100.0	3.53	234.28	7,096.6	-35.5	-58.3	64.0	0.61	0.30	-9.12
7,200.0	3.95	218.01	7,196.4	-40.0	-62.9	70.4	1.14	0.42	-16.27
7,300.0	3.96	229.68	7,296.2	-45.0	-67.7	77.2	0.80	0.01	11.67
7,400.0	3.25	228.29	7,396.0	-49.1	-72.4	83.4	0.72	-0.71	-1.39
7,500.0	4.42	237.09	7,495.8	-53.1	-77.8	89.8	1.31	1.17	8.80
7,600.0	5.50	237.67	7,595.4	-57.7	-85.1	98.0	1.08	1.08	0.58
7,700.0	6.29	238.19	7,694.8	-63.2	-93.8	107.6	0.79	0.79	0.52
7,800.0	5.78	236.21	7,794.3	-68.9	-102.6	117.6	0.55	-0.51	-1.98
7,900.0	6.05	235.57	7,893.8	-74.6	-111.1	127.4	0.28	0.27	-0.64
8,000.0	5.51	229.05	7,993.3	-80.8	-119.1	137.1	0.85	-0.54	-6.52
8,100.0	4.43	219.86	8,092.9	-86.9	-125.2	145.7	1.34	-1.08	-9.19
8,200.0	3.27	238.68	8,192.7	-91.3	-130.1	152.3	1.70	-1.16	18.82
8,300.0	2.36	225.62	8,292.5	-94.3	-134.0	157.0	1.11	-0.91	-13.06
8,400.0	1.07	203.25	8,392.5	-96.5	-135.9	159.9	1.43	-1.29	-22.37
8,500.0	2.80	145.34	8,492.4	-99.4	-134.8	161.5	2.41	1.73	-57.91
8,600.0	2.94	130.09	8,592.3	-103.1	-131.5	162.3	0.77	0.14	-15.25
8,700.0	3.87	105.08	8,692.1	-105.6	-126.3	161.1	1.73	0.93	-25.01
8,800.0	3.22	108.31	8,791.9	-107.4	-120.4	158.8	0.68	-0.65	3.23
8,900.0	2.52	102.61	8,891.8	-108.7	-115.5	156.9	0.76	-0.70	-5.70
9,000.0	2.54	100.01	8,991.7	-109.6	-111.2	154.9	0.12	0.02	-2.60
9,100.0	2.35	105.16	9,091.6	-110.5	-107.1	153.1	0.29	-0.19	5.15
9,200.0	2.00	121.55	9,191.6	-112.0	-103.6	152.1	0.71	-0.35	16.39
9,300.0	1.83	138.81	9,291.5	-114.1	-101.0	152.1	0.60	-0.17	17.26
9,400.0	1.90	143.22	9,391.4	-116.6	-99.0	152.9	0.16	0.07	4.41
9,500.0	2.01	154.84	9,491.4	-119.5	-97.3	154.1	0.41	0.11	11.62



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9,575.0	2.60	168.04	9,566.3	-122.4	-96.4	155.8	1.05	0.79	17.60
<b>9575' MD Phoenix Gyro's</b>									
9,633.0	4.00	183.40	9,624.2	-125.7	-96.2	158.3	2.83	2.41	26.48
9,728.0	3.80	186.30	9,719.0	-132.1	-96.7	163.7	0.30	-0.21	3.05
9,792.0	6.20	205.60	9,782.8	-137.3	-98.5	168.8	4.53	3.75	30.16
9,823.0	9.60	208.90	9,813.5	-141.1	-100.4	173.0	11.06	10.97	10.65
9,855.0	12.50	210.10	9,844.9	-146.5	-103.5	179.1	9.09	9.06	3.75
9,886.0	13.80	218.60	9,875.1	-152.2	-107.5	186.1	7.51	4.19	27.42
9,918.0	16.00	225.10	9,906.0	-158.3	-113.0	194.3	8.62	6.88	20.31
9,950.0	17.90	230.10	9,936.6	-164.6	-119.9	203.5	7.48	5.94	15.63
9,982.0	20.40	235.60	9,966.8	-170.9	-128.2	213.6	9.63	7.81	17.19
10,014.0	22.90	241.60	9,996.6	-177.0	-138.3	224.7	10.43	7.81	18.75
10,046.0	24.80	247.80	10,025.8	-182.5	-150.0	236.2	9.82	5.94	19.38
10,077.0	26.20	254.50	10,053.8	-186.8	-162.6	247.4	10.34	4.52	21.61
10,109.0	26.80	262.00	10,082.5	-189.7	-176.6	258.3	10.62	1.88	23.44
10,140.0	28.40	267.50	10,110.0	-191.0	-190.9	268.2	9.70	5.16	17.74
10,172.0	30.60	269.40	10,137.8	-191.4	-206.6	278.2	7.47	6.88	5.94
10,203.0	33.60	269.50	10,164.1	-191.6	-223.1	288.5	9.68	9.68	0.32
10,235.0	35.40	270.80	10,190.4	-191.5	-241.2	299.7	6.08	5.63	4.06
10,267.0	38.90	269.50	10,215.9	-191.5	-260.5	311.6	11.21	10.94	-4.06
10,299.0	42.60	268.30	10,240.2	-191.9	-281.4	324.9	11.82	11.56	-3.75
10,331.0	46.80	267.90	10,262.9	-192.6	-303.9	339.4	13.15	13.13	-1.25
10,363.0	49.80	267.90	10,284.2	-193.5	-327.8	354.8	9.38	9.38	0.00
10,395.0	51.70	267.50	10,304.4	-194.5	-352.5	370.9	6.02	5.94	-1.25
10,426.0	53.40	268.30	10,323.3	-195.4	-377.1	386.8	5.85	5.48	2.58
10,458.0	54.20	270.80	10,342.2	-195.6	-403.0	403.0	6.78	2.50	7.81
10,490.0	56.50	272.90	10,360.4	-194.8	-429.3	418.6	8.99	7.19	6.56
10,521.0	60.70	273.40	10,376.5	-193.3	-455.7	433.8	13.62	13.55	1.61
10,553.0	64.60	271.90	10,391.2	-192.0	-484.1	450.3	12.88	12.19	-4.69
10,585.0	67.40	270.80	10,404.2	-191.3	-513.3	467.8	9.30	8.75	-3.44
10,652.0	74.70	271.30	10,426.0	-190.1	-576.6	506.1	10.92	10.90	0.75
10,684.0	77.80	270.00	10,433.6	-189.8	-607.7	525.0	10.46	9.69	-4.06
10,715.0	80.80	269.80	10,439.4	-189.8	-638.1	543.9	9.70	9.68	-0.65
10,747.0	83.20	270.50	10,443.8	-189.8	-669.8	563.5	7.81	7.50	2.19
10,779.0	84.80	270.80	10,447.1	-189.4	-701.6	582.9	5.09	5.00	0.94
10,810.0	86.60	271.00	10,449.5	-188.9	-732.5	601.6	5.84	5.81	0.65
10,842.0	88.50	270.50	10,450.8	-188.5	-764.5	621.0	6.14	5.94	-1.56
10,874.0	90.40	270.50	10,451.1	-188.2	-796.5	640.6	5.94	5.94	0.00
10,905.0	91.50	270.80	10,450.6	-187.9	-827.5	659.5	3.68	3.55	0.97
10,968.0	92.00	271.60	10,448.7	-186.5	-890.5	697.4	1.50	0.79	1.27
11,063.0	93.80	272.00	10,443.9	-183.6	-985.3	753.7	1.94	1.89	0.42
11,158.0	91.80	272.30	10,439.3	-180.0	-1,080.1	809.6	2.13	-2.11	0.32
11,253.0	91.80	269.70	10,436.3	-178.4	-1,175.0	867.0	2.74	0.00	-2.74
11,349.0	89.60	270.20	10,435.1	-178.4	-1,271.0	926.5	2.35	-2.29	0.52



# Microsoft Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 8\_9-25S-28E Devon 8 W2PM Fee 1H  
**Well:** Devon 8 W2PM Fee #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 8 W2PM Fee #1H  
**TVD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**MD Reference:** 3002 + 27 @ 3029.0usft (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)
11,443.0	92.50	275.10	10,433.4	-174.1	-1,364.9	981.1	6.06	3.09	5.21
11,538.0	89.50	272.40	10,431.7	-167.9	-1,459.6	1,034.9	4.25	-3.16	-2.84
11,633.0	90.00	273.00	10,432.1	-163.4	-1,554.5	1,090.0	0.82	0.53	0.63
11,728.0	89.80	277.30	10,432.3	-154.9	-1,649.1	1,141.9	4.53	-0.21	4.53
11,823.0	92.70	277.70	10,430.2	-142.5	-1,743.3	1,190.4	3.08	3.05	0.42
11,919.0	89.80	273.90	10,428.1	-132.8	-1,838.7	1,241.8	4.98	-3.02	-3.96
12,014.0	89.90	273.00	10,428.4	-127.1	-1,933.6	1,296.0	0.95	0.11	-0.95
12,108.0	89.00	267.90	10,429.3	-126.3	-2,027.5	1,353.5	5.51	-0.96	-5.43
12,203.0	89.20	264.30	10,430.8	-132.8	-2,122.3	1,417.2	3.79	0.21	-3.79
12,298.0	95.10	266.60	10,427.2	-140.3	-2,216.9	1,481.6	6.66	6.21	2.42
12,392.0	89.90	264.10	10,423.1	-147.9	-2,310.4	1,545.5	6.14	-5.53	-2.66
12,487.0	93.70	266.10	10,420.1	-156.1	-2,405.0	1,610.4	4.52	4.00	2.11
12,582.0	87.20	265.30	10,419.4	-163.2	-2,499.7	1,674.5	6.89	-6.84	-0.84
12,677.0	86.90	264.50	10,424.3	-171.6	-2,594.2	1,739.6	0.90	-0.32	-0.84
12,772.0	89.50	264.90	10,427.3	-180.4	-2,688.7	1,805.0	2.77	2.74	0.42
12,804.0	94.50	267.00	10,426.1	-182.6	-2,720.6	1,826.5	16.94	15.63	6.56
12,868.0	97.20	267.10	10,419.6	-185.9	-2,784.2	1,868.4	4.22	4.22	0.16
12,963.0	97.70	268.00	10,407.3	-189.9	-2,878.3	1,929.8	1.08	0.53	0.95
12,995.0	95.20	268.50	10,403.7	-190.9	-2,910.1	1,950.2	7.97	-7.81	1.56
13,058.0	92.10	267.60	10,399.7	-193.0	-2,972.9	1,990.8	5.12	-4.92	-1.43
13,154.0	91.60	265.30	10,396.6	-199.0	-3,068.7	2,054.7	2.45	-0.52	-2.40
13,249.0	88.90	269.40	10,396.2	-203.4	-3,163.5	2,116.8	5.17	-2.84	4.32
13,344.0	91.10	268.90	10,396.2	-204.8	-3,258.5	2,176.7	2.37	2.32	-0.53
13,439.0	89.00	269.70	10,396.1	-205.9	-3,353.5	2,236.3	2.37	-2.21	0.84
13,534.0	91.60	270.50	10,395.6	-205.8	-3,448.5	2,295.0	2.86	2.74	0.84
13,629.0	93.00	269.20	10,391.8	-206.0	-3,543.4	2,353.9	2.01	1.47	-1.37
13,724.0	92.70	269.10	10,387.1	-207.4	-3,638.3	2,413.7	0.33	-0.32	-0.11
13,820.0	91.10	268.50	10,383.9	-209.4	-3,734.2	2,474.6	1.78	-1.67	-0.63
13,915.0	89.10	268.90	10,383.7	-211.6	-3,829.2	2,535.0	2.15	-2.11	0.42
14,010.0	90.50	269.20	10,384.1	-213.2	-3,924.1	2,595.0	1.51	1.47	0.32
14,105.0	89.60	271.80	10,384.0	-212.3	-4,019.1	2,653.1	2.90	-0.95	2.74
14,201.0	92.90	275.20	10,381.9	-206.5	-4,114.9	2,707.8	4.93	3.44	3.54
14,296.0	88.30	272.80	10,380.9	-199.9	-4,209.6	2,761.2	5.46	-4.84	-2.53
14,391.0	92.70	273.80	10,380.1	-194.4	-4,304.5	2,815.5	4.75	4.63	1.05
14,486.0	92.00	272.30	10,376.2	-189.4	-4,399.2	2,870.2	1.74	-0.74	-1.58
14,581.0	91.10	271.20	10,373.6	-186.5	-4,494.2	2,926.6	1.50	-0.95	-1.16
14,676.0	94.20	272.90	10,369.2	-183.1	-4,589.0	2,982.6	3.72	3.26	1.79
14,772.0	93.40	271.70	10,362.8	-179.2	-4,684.7	3,038.8	1.50	-0.83	-1.25
14,866.0	90.70	272.60	10,359.5	-175.7	-4,778.6	3,094.1	3.03	-2.87	0.96
14,962.0	91.00	272.90	10,358.0	-171.1	-4,874.4	3,149.8	0.44	0.31	0.31
15,056.0	90.20	270.20	10,357.1	-168.5	-4,968.4	3,205.9	3.00	-0.85	-2.87
15,151.0	90.40	270.30	10,356.6	-168.1	-5,063.4	3,264.4	0.24	0.21	0.11
15,209.0	89.00	269.70	10,356.9	-168.1	-5,121.4	3,300.3	2.63	-2.41	-1.03



# Microsoft Survey Report



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 8\_9-25S-28E Devon 8 W2PM Fee 1H  
**Well:** Devon 8 W2PM Fee #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 8 W2PM Fee #1H  
**TVD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**MD Reference:** 3002 + 27 @ 3029.0usft (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)
15,270.0	89.00	269.70	10,357.9	-168.5	-5,182.4	3,338.2	0.00	0.00	0.00
15270' MD Projected to Bit									

## Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,575.0	9,566.3	-122.4	-96.4	9575' MD Phoenix Gyro's
15,270.0	10,357.9	-168.5	-5,182.4	15270' MD Projected to Bit



January 4, 2017

**New Mexico Energy, Minerals and Natural Resources Department  
Attn: Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505**

**Attn: Jackie Lathan**

**Re: Mewbourne Oil Company  
Devon 8 W2PM Fee #001H  
WC-015 S252815D; Wolfcamp (Gas)  
Eddy County, New Mexico  
API# 30-015-43879**

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name &amp; Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Keith Broussard	Original Hole	9,633ft. to 15,209ft.	12-15-16 to 12-23-16	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

  
**Todd Estes**

Enclosures

CC:

Mewbourne Oil Company  
Attn: Frosty Lathan  
P.O. Box 5720  
Hobbs, NM 88241

Mewbourne Oil Company  
Attn: Robin Terrell  
P.O. Box 5720  
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Devon 8 W2PM Fee #1HM161086

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.  
P.O. Box 1250  
Montgomery, TX 77356  
Office (936) 582-7296 \* Fax (936)-588-4163**





January 4, 2017

**Survey Certification Report**

**STATE OF            TEXAS**

**COUNTY OF        Montgomery**

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of December 15, 2016, through December 23, 2016 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 9,633 feet to a depth of 15,209 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Devon 8 W2PM Fee #001H well, API # **30-015-43879** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

A handwritten signature in cursive script, appearing to read "Todd Estes", is written over a horizontal line.

**Todd Estes**

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.**

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.**

**P.O. Box 1250**

**Montgomery, TX 77356**

**Office (936) 582-7296 \* Fax (936)-588-4163**



# Microsoft MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 8\_9-25S-28E Devon 8 W2PM Fee 1H  
**Well:** Devon 8 W2PM Fee #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 8 W2PM Fee #1H  
**TVD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**MD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Project:** Eddy County, New Mexico  
**Map System:** US State Plane 1927 (Exact solution)  
**Geo Datum:** NAD 1927 (NADCON CONUS)  
**Map Zone:** New Mexico East 3001  
**System Datum:** Mean Sea Level

**Site:** Section 8\_9-25S-28E Devon 8 W2PM Fee 1H  
**Site Position:** Northing: 414,256.00 usft Latitude: 32° 8' 19.288 N  
**From:** Easting: 572,251.50 usft Longitude: 104° 5' 59.670 W  
**Position Uncertainty:** Map 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.12°

**Well:** Devon 8 W2PM Fee #1H  
**Well Position:** +N/-S 0.0 usft Latitude: 32° 8' 19.288 N  
**Position Uncertainty:** +E/-W 0.0 usft Longitude: 104° 5' 59.670 W  
 Wellhead Elevation: 27.0 usft Ground Level: 3,002.0 usft

**Wellbore:** Original Hole  
**Magnetics:** Model Name IGRF2015 Sample Date 11/29/2016 Declination (°) 7.25 Dip Angle (°) 59.90 Field Strength (nT) 47,889.70681069

**Design:** Original Hole  
**Audit Notes:**  
**Version:** 1.0 Phase: ACTUAL Tie On Depth: 0.0  
**Vertical Section:** Depth From (TVD) +N/-S (usft) 0.0 +E/-W (usft) 0.0 Direction (°) 218.22



**Microsoft**  
MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 8\_9-26S-28E Devon 8 W2PM Fee 1H  
**Well:** Devon 8 W2PM Fee #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 8 W2PM Fee #1H  
**TVD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**MD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey Program** Date 12/27/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,575.0	Phoenix Gyro Survey (Original Hole)	NSG-CT_WL	Continuous north-seeking gyro on wireline
9,633.0	15,270.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination

**Survey**

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
9,575.0	2.60	168.04	9,566.3	-122.4	-96.4	155.8	218.22
9,633.0	4.00	163.40	9,624.2	-125.7	-96.2	158.3	217.43
9,728.0	3.80	166.30	9,719.0	-132.1	-96.7	163.8	216.21
9,792.0	6.20	205.60	9,782.8	-137.3	-98.5	169.0	215.64
9,823.0	9.60	208.90	9,813.5	-141.1	-100.4	173.2	215.44
9,855.0	12.50	210.10	9,844.9	-146.5	-103.5	179.3	215.24
9,886.0	13.80	218.60	9,875.1	-152.2	-107.5	186.4	215.22
9,918.0	16.00	225.10	9,906.0	-158.3	-113.0	194.5	215.50
9,950.0	17.90	230.10	9,936.6	-164.6	-119.9	203.6	216.06
9,982.0	20.40	235.60	9,966.8	-170.9	-128.2	213.7	216.88
10,014.0	22.90	241.60	9,996.6	-177.0	-138.3	224.7	218.00
10,046.0	24.80	247.80	10,025.8	-182.5	-150.0	236.3	219.42
10,077.0	26.20	254.50	10,053.8	-186.8	-162.6	247.7	221.04
10,109.0	26.80	262.00	10,082.5	-189.7	-176.6	259.2	222.95
10,140.0	28.40	267.50	10,110.0	-191.0	-190.9	270.0	224.98
10,172.0	30.60	269.40	10,137.8	-191.4	-206.6	281.7	227.19
10,203.0	33.60	269.50	10,164.1	-191.6	-223.1	294.1	229.35
10,235.0	35.40	270.80	10,190.4	-191.5	-241.2	308.0	231.55
10,267.0	38.90	269.50	10,215.9	-191.5	-260.5	323.3	233.69
10,299.0	42.60	268.30	10,240.2	-191.9	-281.4	340.6	235.71
10,331.0	46.80	267.90	10,262.9	-192.6	-303.9	359.8	237.63

Tie-In



**Microsoft**  
MWD Surveys



**Company:** Newbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 8\_9-25S-28E Devon 8 W2PM Fee 1H  
**Well:** Devon 8 W2PM Fee #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 8 W2PM Fee #1H  
**TVD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**MD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
	10,363.0	49.80	267.90	10,284.2	-193.5	-327.8	380.6	239.44
	10,395.0	51.70	267.50	10,304.4	-194.5	-352.5	402.6	241.11
	10,426.0	53.40	268.30	10,323.3	-195.4	-377.1	424.8	242.61
	10,458.0	54.20	270.80	10,342.2	-195.6	-403.0	447.9	244.11
	10,490.0	56.50	272.90	10,360.4	-194.8	-429.3	471.4	245.60
	10,521.0	60.70	273.40	10,376.5	-193.3	-455.7	495.0	247.01
	10,553.0	64.60	271.90	10,391.2	-192.0	-484.1	520.7	248.37
	10,585.0	67.40	270.80	10,404.2	-191.3	-513.3	547.8	249.56
	10,652.0	74.70	271.30	10,426.0	-190.1	-576.6	607.1	251.75
	10,684.0	77.80	270.00	10,433.6	-189.8	-607.7	636.6	252.86
	10,715.0	80.80	269.80	10,439.4	-189.8	-638.1	665.8	253.43
	10,747.0	83.20	270.50	10,443.8	-189.8	-669.8	696.2	254.16
	10,779.0	84.80	270.80	10,447.1	-189.4	-701.6	726.8	254.89
	10,810.0	86.60	271.00	10,449.5	-188.9	-732.5	756.5	255.54
	10,842.0	88.50	270.50	10,450.8	-188.5	-764.5	787.4	256.15
	10,874.0	90.40	270.50	10,451.1	-188.2	-796.5	818.4	256.70
	10,905.0	91.50	270.80	10,450.6	-187.9	-827.5	848.6	257.21
	10,968.0	92.00	271.60	10,448.7	-186.5	-890.5	909.8	258.17
	11,063.0	93.80	272.00	10,443.9	-183.6	-985.3	1,002.2	259.45
	11,158.0	91.80	272.30	10,439.3	-180.0	-1,080.1	1,095.0	260.54
	11,253.0	91.80	269.70	10,436.3	-178.4	-1,175.0	1,188.5	261.37
	11,349.0	89.60	270.20	10,435.1	-178.4	-1,271.0	1,283.5	262.01
	11,443.0	92.50	275.10	10,433.4	-174.1	-1,364.9	1,375.9	262.73
	11,538.0	89.50	272.40	10,431.7	-167.9	-1,459.6	1,469.2	263.44
	11,633.0	90.00	273.00	10,432.1	-163.4	-1,554.5	1,563.1	264.00
	11,728.0	89.80	277.30	10,432.3	-154.9	-1,649.1	1,656.4	264.63
	11,823.0	92.70	277.70	10,430.2	-142.5	-1,743.3	1,749.1	265.33



**Microsoft**  
MWD Surveys



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 8\_9-25S-28E Devon 8 W2PM Fee 1H  
**Well:** Devon 8 W2PM Fee #1H  
**Wellbore:** Original Hole  
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**Local Co-ordinate Reference:** Well Devon 8 W2PM Fee #1H  
**TVD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**MD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Closure Distance (usft)	Closure Azimuth (°)
	11,919.0	89.80	273.90	10,428.1	-132.8	-1,838.7	1,843.5	265.87
	12,014.0	89.90	273.00	10,428.4	-127.1	-1,933.6	1,937.7	266.24
	12,108.0	89.00	267.90	10,429.3	-126.3	-2,027.5	2,031.4	266.43
	12,203.0	89.20	264.30	10,430.8	-132.8	-2,122.3	2,126.4	266.42
	12,298.0	95.10	266.60	10,427.2	-140.3	-2,216.9	2,221.3	266.38
	12,392.0	89.90	264.10	10,423.1	-147.9	-2,310.4	2,315.1	266.34
	12,487.0	93.70	266.10	10,420.1	-156.1	-2,405.0	2,410.1	266.29
	12,582.0	87.20	265.30	10,419.4	-163.2	-2,499.7	2,505.0	266.27
	12,677.0	86.90	264.50	10,424.3	-171.6	-2,594.2	2,599.8	266.22
	12,772.0	89.50	264.90	10,427.3	-180.4	-2,688.7	2,694.8	266.16
	12,804.0	94.50	267.00	10,426.1	-182.6	-2,720.6	2,726.7	266.16
	12,868.0	97.20	267.10	10,419.6	-185.9	-2,784.2	2,790.4	266.18
	12,963.0	97.70	268.00	10,407.3	-189.9	-2,878.3	2,884.5	266.22
	12,995.0	95.20	268.50	10,403.7	-190.9	-2,910.1	2,916.3	266.25
	13,058.0	92.10	267.60	10,399.7	-193.0	-2,972.9	2,979.2	266.28
	13,154.0	91.60	265.30	10,396.6	-199.0	-3,068.7	3,075.1	266.29
	13,249.0	88.90	269.40	10,386.2	-203.4	-3,163.5	3,170.1	266.32
	13,344.0	91.10	268.90	10,386.2	-204.8	-3,258.5	3,264.9	266.40
	13,439.0	89.00	269.70	10,386.1	-205.9	-3,353.5	3,359.8	266.49
	13,534.0	91.60	270.50	10,385.6	-205.8	-3,448.5	3,454.6	266.59
	13,629.0	93.00	269.20	10,391.8	-206.0	-3,543.4	3,549.4	266.67
	13,724.0	92.70	269.10	10,387.1	-207.4	-3,638.3	3,644.2	266.74
	13,820.0	91.10	268.50	10,383.9	-209.4	-3,734.2	3,740.1	266.79
	13,915.0	89.10	268.90	10,383.7	-211.6	-3,829.2	3,835.0	266.84
	14,010.0	90.50	269.20	10,384.1	-213.2	-3,924.1	3,929.9	266.89
	14,105.0	89.60	271.80	10,384.0	-212.3	-4,019.1	4,024.7	266.98
	14,201.0	92.90	275.20	10,381.9	-206.5	-4,114.9	4,120.1	267.13



**Mewbourne  
Oil Company**

**Microsoft  
MWD Surveys**



**Company:** Mewbourne Oil Company  
**Project:** Eddy County, New Mexico  
**Site:** Section 8\_9-25S-28E Devon 8 W2PM Fee 1H  
**Well:** Devon 8 W2PM Fee #1H  
**Wellbore:** Original Hole  
**Design:** Original Hole

**Local Co-ordinate Reference:** Well Devon 8 W2PM Fee #1H  
**TVD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**MD Reference:** 3002 + 27 @ 3029.0usft (Patterson 231)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Stryker\_EDM

**Survey**

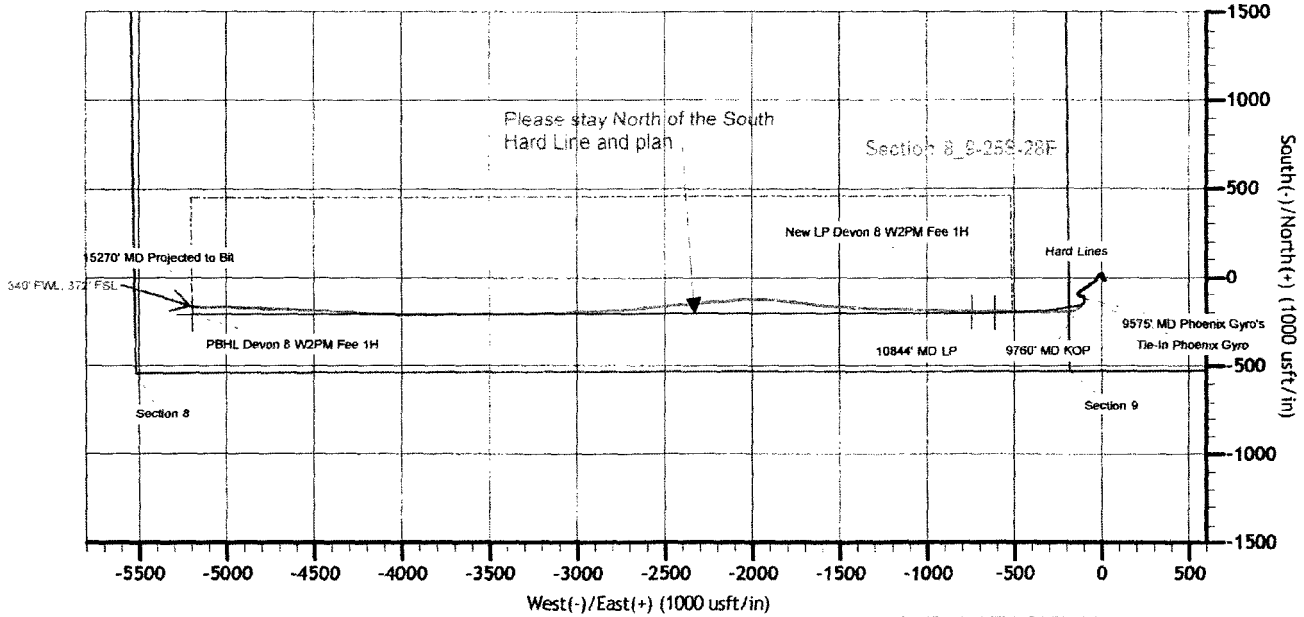
MD (usft)	inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
14,286.0	88.30	272.80	10,380.9	-199.9	-4,209.6	4,214.4	267.28
14,391.0	92.70	273.80	10,380.1	-194.4	-4,304.5	4,308.8	267.41
14,486.0	92.00	272.30	10,376.2	-189.4	-4,399.2	4,403.3	267.54
14,581.0	91.10	271.20	10,373.6	-186.5	-4,494.2	4,498.0	267.62
14,676.0	94.20	272.90	10,369.2	-183.1	-4,589.0	4,592.6	267.72
14,772.0	93.40	271.70	10,362.8	-179.2	-4,684.7	4,688.1	267.81
14,868.0	90.70	272.60	10,359.5	-175.7	-4,778.6	4,781.8	267.89
14,962.0	91.00	272.90	10,358.0	-171.1	-4,874.4	4,877.4	267.99
15,056.0	90.20	270.20	10,357.1	-168.5	-4,968.4	4,971.2	268.06
15,151.0	90.40	270.30	10,356.6	-168.1	-5,063.4	5,066.2	268.10
15,209.0	89.00	269.70	10,356.9	-168.1	-5,121.4	5,124.1	268.12
15,270.0	89.00	269.70	10,357.9	-168.5	-5,182.4	5,185.1	268.14

**15270' MD Projected to Bit**

**Survey Annotations**

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
15,270.0	10,357.9	-168.5	-5,182.4	15270' MD Projected to Bit

GEODETTIC ZONE: New Mexico East 3001 3002 + 27 @ 3029.0usft (Patterson 231) GROUND ELEVATION: 3002.0										
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot				
0.0	0.0	414256.00	572251.50	32° 8' 19.288 N	104° 5' 59.670 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSEct	Target
1	9575.0	2.60	168.04	9566.3	-122.4	-96.4	0.00	0.00	101.2	
2	9760.0	2.60	168.04	9751.1	-130.6	-94.6	0.00	0.00	99.8	
3	9801.0	6.17	154.55	9792.0	-133.5	-93.5	9.01	-22.91	98.8	
4	10844.0	91.30	289.89	10454.0	-201.0	-743.2	9.01	115.08	750.7	New LP Devon 8 W2PM Fee 1H
5	15294.2	91.30	269.89	10353.0	-209.9	-5192.2	0.00	0.00	5196.5	PBHL Devon 8 W2PM Fee 1H



SHL 530' FSL; 185' FWL  
Section 9-25S-28E  
PBHL 330 FSL; 330' FWL  
Section 8-25S-28E

T G M

Azimuths to Grid North  
True North: -0.12°  
Magnetic North: 7.13°

Magnetic Field  
Strength: 47889.7snT  
Dip Angle: 59.90°  
Date: 11/29/2016  
Model: IGRF2015

