

30-015-39581



COMPANY: Mewbourne Oil Company
 WELL: URSA 27 Federal Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Trinidad #110



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.32°

OFFICE: 936.582.7296

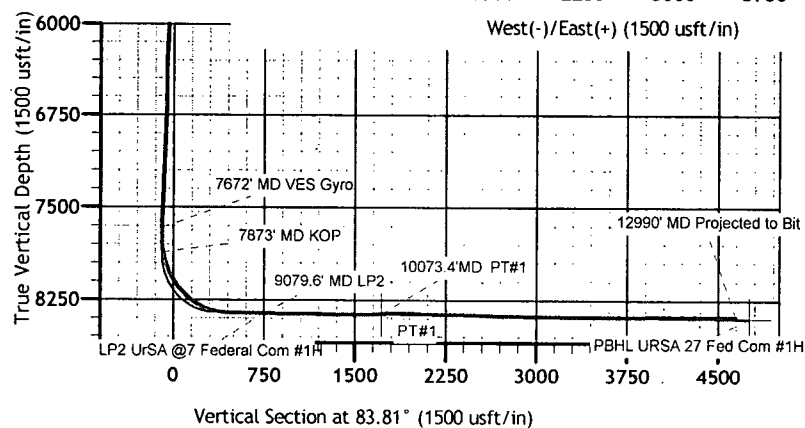
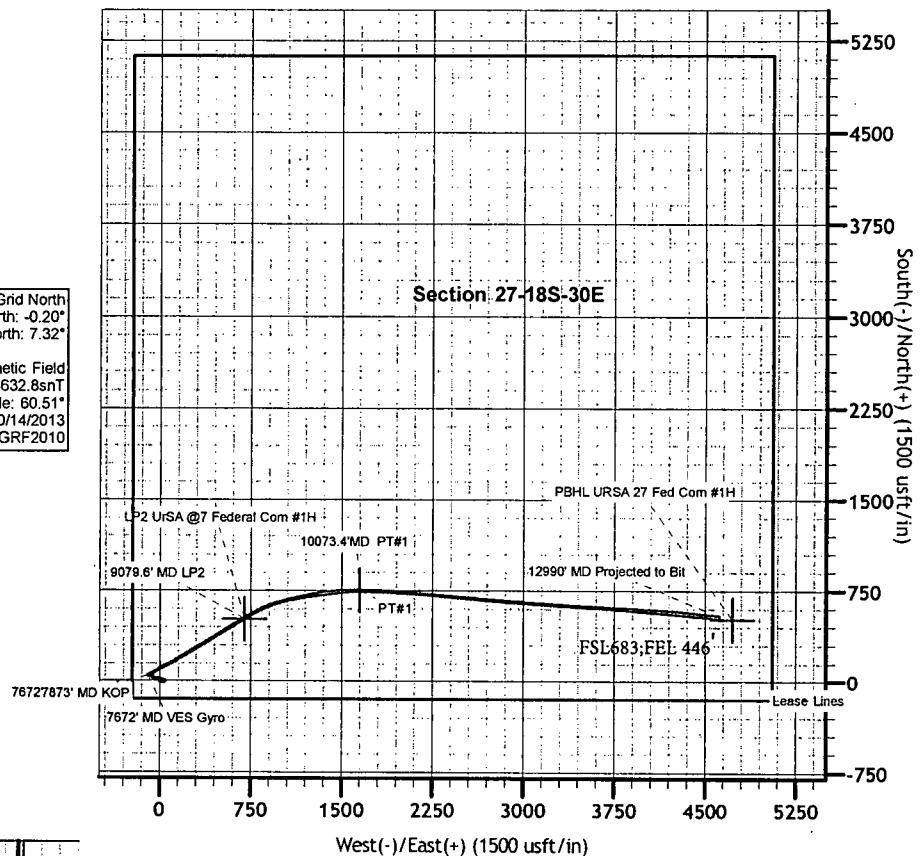
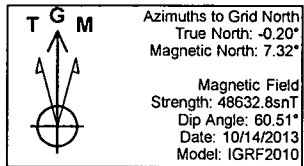
GEODETTIC ZONE: New Mexico East 3001
 GL3433 + 20 @ 3453.0usft (Trinidad #110)
 GROUND ELEVATION: 3433.0

+N/-S +E/-W Northing Easting Latitude Longitude
 0.0 0.0 622738.41 612627.99 32° 42' 41.293 N 103° 58' 1.763 W

Slot

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	7672.0	0.97	202.13	7667.8	44.8	-97.6	0.00	0.00	-92.2	
2	7873.0	0.97	202.13	7868.7	41.7	-98.9	0.00	0.00	-93.8	
3	8624.3	89.38	59.16	8352.6	279.6	309.1	12.00	-142.97	337.4	
4	9079.6	89.38	59.16	8357.5	513.0	700.0	0.00	0.00	751.2	LP2 UrSA @7 Federal Com #1H
5	10033.9	89.38	91.21	8368.1	753.8	1610.5	3.36	90.19	1682.4	
6	10073.4	89.38	91.21	8368.5	753.0	1650.0	0.00	0.00	1721.6	PT#1
7	10417.3	89.40	94.65	8372.2	735.4	1593.4	1.00	89.70	2061.1	
8	13162.1	89.40	94.65	8401.0	513.0	4729.0	0.00	0.00	4756.7	PBHL URSA 27 Fed Com #1H





Mewbourne Oil Company .

Eddy County, New Mexico

Section 27-18S-30E URSA 27 Federal Com #1H

URSA 27 Federal Com #1H

Original Hole

Design: Original Hole

Standard Survey Report

23 January, 2014





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: URSA 27 Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3433 + 20' @ 3453.0usft (Trinidad #110)
Site:	Section 27-18S-30E URSA 27 Federal Com #1H	MD Reference:	GL 3433 + 20' @ 3453.0usft (Trinidad #110)
Well:	URSA 27 Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

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 27-18S-30E URSA 27 Federal Com #1H
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Site Position:	Map	Northing:	622,738.41 usft	Latitude:	32° 42' 41.293 N
From:		Easting:	612,627.99 usft	Longitude:	103° 58' 1.763 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.20 °

Well	URSA 27 Federal Com #1H					
Well Position	+N-S	0.0 usft	Northing:	622,738.41 usft	Latitude:	32° 42' 41.293 N
	+E-W	0.0 usft	Easting:	612,627.99 usft	Longitude:	103° 58' 1.763 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,433.0 usft

Wellbore:	Original Hole
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/14/2013	7.52	60.51	48,633

Design:	Original Hole
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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	83.81

Survey Program		Date	1/23/2014	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,672.0	VES Gyro Survey #1 (Original Hole)	GyroFlex	
7,737.0	12,990.0	MWD Survey #2 (Original Hole)	MWD	MWD - Standard

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	1.05	156.76	100.0	-0.8	0.4	0.3	1.05	1.05	0.00
	200.0	1.78	142.83	200.0	-2.9	1.7	1.3	0.80	0.73	-13.93
	300.0	1.92	123.24	299.9	-5.1	4.0	3.4	0.64	0.14	-19.59
	400.0	2.16	106.30	399.8	-6.5	7.2	6.5	0.65	0.24	-16.94
	500.0	1.61	102.09	499.8	-7.3	10.4	9.5	0.57	-0.55	-4.21
	600.0	1.42	103.26	599.8	-7.9	13.0	12.0	0.19	-0.19	1.17
	700.0	1.49	97.50	699.7	-8.4	15.5	14.5	0.16	0.07	-5.76
	800.0	1.36	98.71	799.7	-8.7	17.9	16.9	0.13	-0.13	1.21
	900.0	1.33	96.00	899.7	-9.0	20.3	19.2	0.07	-0.03	-2.71



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well URSA 27 Federal Com #1H
Project:	Eddy County New Mexico	TVD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Site:	Section 27-18S-30E URSA 27 Federal Com #1H	MD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Well:	URSA 27 Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

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	1.61	109.32	999.6	-9.6	22.7	21.6	0.44	0.28	13.32
1,100.0	1.17	94.29	1,099.6	-10.2	25.1	23.8	0.57	-0.44	-15.03
1,200.0	1.20	87.81	1,199.6	-10.2	27.1	25.9	0.14	0.03	-6.48
1,300.0	0.99	89.81	1,299.6	-10.2	29.1	27.8	0.21	-0.21	2.00
1,400.0	1.31	88.92	1,399.5	-10.1	31.1	29.8	0.32	0.32	-0.89
1,500.0	1.33	73.39	1,499.5	-9.8	33.3	32.1	0.36	0.02	-15.53
1,600.0	0.68	85.70	1,599.5	-9.4	35.0	33.8	0.68	-0.65	12.31
1,700.0	0.74	82.12	1,699.5	-9.3	36.3	35.0	0.07	0.06	-3.58
1,800.0	1.01	39.19	1,799.5	-8.5	37.4	36.3	0.69	0.27	-42.93
1,900.0	0.46	6.20	1,899.5	-7.4	38.0	37.0	0.67	-0.55	-32.99
2,000.0	0.36	15.92	1,999.5	-6.7	38.2	37.2	0.12	-0.10	9.72
2,100.0	0.42	55.05	2,099.5	-6.2	38.6	37.7	0.27	0.06	39.13
2,200.0	0.47	59.63	2,199.5	-5.8	39.2	38.4	0.06	0.05	4.58
2,300.0	0.61	341.76	2,299.5	-5.1	39.4	38.6	0.69	0.14	-77.87
2,400.0	0.41	57.92	2,399.5	-4.4	39.5	38.8	0.65	-0.20	76.16
2,500.0	0.42	39.59	2,499.5	-3.9	40.1	39.4	0.13	0.01	-18.33
2,600.0	0.62	3.24	2,599.5	-3.1	40.3	39.8	0.38	0.20	-36.35
2,700.0	0.11	112.60	2,699.5	-2.6	40.5	40.0	0.66	-0.51	109.36
2,800.0	0.77	336.50	2,799.5	-2.0	40.3	39.8	0.85	0.66	-136.10
2,900.0	0.65	339.14	2,899.4	-0.8	39.8	39.5	0.12	-0.12	2.64
3,000.0	0.65	332.55	2,999.4	0.2	39.4	39.1	0.07	0.00	-6.59
3,100.0	0.41	345.36	3,099.4	1.0	39.0	38.9	0.27	-0.24	12.81
3,200.0	0.67	330.23	3,199.4	1.9	38.6	38.6	0.29	0.26	-15.13
3,300.0	0.23	352.95	3,299.4	2.6	38.3	38.4	0.47	-0.44	22.72
3,400.0	0.10	190.84	3,399.4	2.7	38.3	38.3	0.33	-0.13	-162.11
3,500.0	0.46	223.74	3,499.4	2.3	38.0	38.0	0.38	0.36	32.90
3,600.0	0.72	268.51	3,599.4	2.0	37.1	37.1	0.51	0.26	44.77
3,700.0	0.65	237.44	3,699.4	1.7	36.0	35.9	0.37	-0.07	-31.07
3,800.0	0.55	238.95	3,799.4	1.2	35.1	35.0	0.10	-0.10	1.51
3,900.0	0.72	254.71	3,899.4	0.7	34.1	33.9	0.24	0.17	15.76
4,000.0	0.50	251.36	3,999.4	0.4	33.0	32.9	0.22	-0.22	-3.35
4,100.0	0.20	271.52	4,099.4	0.3	32.4	32.3	0.32	-0.30	20.16
4,200.0	0.83	282.39	4,199.4	0.5	31.6	31.4	0.63	0.63	10.87
4,300.0	0.38	303.30	4,299.4	0.8	30.6	30.5	0.49	-0.45	20.91
4,400.0	1.38	309.65	4,399.4	1.7	29.4	29.4	1.00	1.00	6.35
4,500.0	1.37	299.47	4,499.3	3.1	27.4	27.6	0.24	-0.01	-10.18
4,600.0	2.36	298.97	4,599.3	4.7	24.6	24.9	0.99	0.99	-0.50
4,700.0	2.64	300.38	4,699.2	6.9	20.8	21.4	0.29	0.28	1.41
4,800.0	2.65	303.59	4,799.1	9.3	16.9	17.8	0.15	0.01	3.21
4,900.0	2.69	294.07	4,899.0	11.5	12.8	14.0	0.44	0.04	-9.52
5,000.0	2.86	289.90	4,998.9	13.3	8.3	9.7	0.26	0.17	-4.17
5,100.0	3.10	284.50	5,098.7	14.9	3.3	4.9	0.37	0.24	-5.40
5,200.0	3.09	279.93	5,198.6	16.0	-1.9	-0.2	0.25	-0.01	-4.57



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: URSA 27 Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Site:	Section 27-18S-30E URSA 27 Federal Com #1H	MD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Well:	URSA 27 Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

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	2.63	286.65	5,298.5	17.1	-6.8	-4.9	0.57	-0.46	6.72
5,400.0	3.08	270.13	5,398.3	17.8	-11.7	-9.7	0.93	0.45	-16.52
5,500.0	3.21	268.22	5,498.2	17.7	-17.2	-15.1	0.17	0.13	-1.91
5,600.0	2.93	260.50	5,598.0	17.2	-22.5	-20.5	0.50	-0.28	-7.72
5,700.0	2.86	277.66	5,697.9	17.1	-27.5	-25.5	0.87	-0.07	17.16
5,800.0	2.39	268.50	5,797.8	17.4	-32.0	-30.0	0.63	-0.47	-9.16
5,900.0	2.55	277.33	5,897.7	17.6	-36.3	-34.2	0.41	0.16	8.83
6,000.0	2.32	277.46	5,997.6	18.2	-40.5	-38.3	0.23	-0.23	0.13
6,100.0	2.66	283.51	6,097.5	19.0	-44.8	-42.5	0.43	0.34	6.05
6,200.0	2.90	288.51	6,197.4	20.3	-49.4	-47.0	0.34	0.24	5.00
6,300.0	2.77	299.77	6,297.3	22.3	-53.9	-51.2	0.57	-0.13	11.26
6,400.0	2.63	320.61	6,397.2	25.3	-57.5	-54.4	0.99	-0.14	20.84
6,500.0	2.81	340.81	6,497.1	29.4	-59.8	-56.2	0.97	0.18	20.20
6,600.0	2.30	359.80	6,597.0	33.7	-60.6	-56.6	0.98	-0.51	18.99
6,700.0	2.85	341.56	6,696.9	38.1	-61.4	-56.9	0.98	0.55	-18.24
6,800.0	3.37	328.83	6,796.7	42.9	-63.7	-58.7	0.86	0.52	-12.73
6,900.0	2.87	313.54	6,896.6	47.2	-67.0	-61.5	0.97	-0.50	-15.29
7,000.0	2.92	305.05	6,996.5	50.4	-70.9	-65.1	0.43	0.05	-8.49
7,100.0	2.70	289.00	7,096.3	52.6	-75.2	-69.1	0.81	-0.22	-16.05
7,200.0	3.06	271.37	7,196.2	53.4	-80.1	-73.9	0.95	0.36	-17.63
7,300.0	2.01	252.84	7,296.1	53.0	-84.5	-78.3	1.32	-1.05	-18.53
7,400.0	2.84	241.43	7,396.0	51.3	-88.3	-82.3	0.96	0.83	-11.41
7,500.0	2.95	231.29	7,495.9	48.5	-92.5	-86.7	0.52	0.11	-10.14
7,600.0	2.17	243.05	7,595.8	46.0	-96.2	-90.7	0.94	-0.78	11.76
7,672.0	0.97	202.13	7,667.8	44.8	-97.6	-92.2	2.18	-1.67	-56.83
7672 MD VES Gyro									
7,737.0	0.80	186.30	7,732.8	43.9	-97.9	-92.6	0.46	-0.26	-24.35
7,783.0	2.60	73.90	7,778.7	43.8	-96.9	-91.6	6.52	3.91	-244.35
7,828.0	9.00	56.40	7,823.5	46.1	-93.0	-87.5	14.59	14.22	-38.89
7,873.0	13.60	60.90	7,867.6	50.6	-85.4	-79.5	10.40	10.22	10.00
7,918.0	14.80	62.00	7,911.2	55.9	-75.8	-69.3	2.73	2.67	2.44
7,963.0	18.80	60.20	7,954.3	62.2	-64.4	-57.3	8.96	8.89	-4.00
8,008.0	23.40	57.60	7,996.3	70.6	-50.5	-42.6	10.43	10.22	-5.78
8,053.0	27.90	57.40	8,036.8	81.0	-34.1	-25.2	10.00	10.00	-0.44
8,098.0	32.70	58.30	8,075.7	93.1	-14.9	-4.8	10.71	10.67	2.00
8,143.0	36.80	59.90	8,112.6	106.3	7.1	18.5	9.33	9.11	3.56
8,189.0	40.20	62.20	8,148.6	120.1	32.2	44.9	8.02	7.39	5.00
8,234.0	44.10	64.40	8,182.0	133.6	59.2	73.2	9.27	8.67	4.89
8,279.0	49.50	62.00	8,212.8	148.4	88.4	103.9	12.61	12.00	-5.33
8,324.0	53.40	58.60	8,240.8	165.9	119.0	136.2	10.49	8.67	-7.56
8,369.0	58.00	57.90	8,266.2	185.5	150.6	169.7	10.30	10.22	-1.56
8,414.0	63.60	57.90	8,288.1	206.3	183.8	205.0	12.44	12.44	0.00
8,459.0	68.30	58.60	8,306.5	227.9	218.8	242.1	10.54	10.44	1.56



Stryker Directional Survey Report



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Project:	Eddy County, New Mexico	TVD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
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Survey									
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8,504.0	71.80	59.40	8,321.8	249.7	255.0	280.4	7.96	7.78	1.78
8,549.0	75.80	59.20	8,334.4	271.8	292.2	319.8	8.90	8.89	-0.44
8,594.0	79.00	59.70	8,344.2	294.1	330.0	359.8	7.19	7.11	1.11
8,627.0	81.40	59.20	8,349.8	310.6	358.0	389.4	7.42	7.27	-1.52
8,724.0	89.90	58.30	8,357.2	360.8	440.6	476.9	8.81	8.76	-0.93
8,756.0	90.00	57.90	8,357.2	377.7	467.8	505.7	1.29	0.31	-1.25
8,787.0	89.90	57.90	8,357.2	394.1	494.0	533.6	0.32	-0.32	0.00
8,819.0	89.80	57.90	8,357.3	411.1	521.1	562.4	0.31	-0.31	0.00
8,851.0	90.00	58.60	8,357.4	428.0	548.3	591.3	2.28	0.63	2.19
8,882.0	90.20	59.00	8,357.3	444.0	574.8	619.4	1.44	0.65	1.29
8,914.0	90.20	58.80	8,357.2	460.6	602.2	648.4	0.62	0.00	-0.63
8,977.0	89.00	59.20	8,357.6	493.0	656.2	705.6	2.01	-1.90	0.63
9,024.8	88.04	59.35	8,358.9	517.4	697.3	749.0	2.02	-2.00	0.32
LP2 URSA @ 7 Federal Com #1H									
9,072.0	87.10	59.50	8,360.9	541.4	737.9	792.0	2.02	-2.00	0.32
9,167.0	89.30	63.00	8,363.8	587.1	821.2	879.7	4.35	2.32	3.68
9,262.0	90.50	68.30	8,364.0	626.2	907.7	969.9	5.72	1.26	5.58
9,357.0	91.20	74.50	8,362.6	656.5	997.7	1,062.6	6.57	0.74	6.53
9,452.0	87.70	77.80	8,363.5	679.2	1,089.9	1,156.7	5.06	-3.68	3.47
9,547.0	89.50	80.30	8,365.8	697.3	1,183.1	1,251.4	3.24	1.89	2.63
9,642.0	89.30	82.20	8,366.8	711.7	1,277.0	1,346.3	2.01	-0.21	2.00
9,737.0	90.40	82.90	8,367.1	724.1	1,371.2	1,441.2	1.37	1.16	0.74
9,832.0	90.10	82.40	8,366.7	736.2	1,465.4	1,536.2	0.61	-0.32	-0.53
9,927.0	91.20	85.20	8,365.6	746.5	1,559.8	1,631.2	3.17	1.16	2.95
10,017.2	92.82	90.71	8,362.4	749.7	1,649.9	1,721.1	6.36	1.79	6.10
PT #1									
10,022.0	92.90	91.00	8,362.2	749.6	1,654.7	1,725.8	6.36	1.78	6.11
10,117.0	90.90	92.60	8,359.0	746.6	1,749.6	1,819.9	2.70	-2.11	1.68
10,211.0	88.70	93.60	8,359.4	741.5	1,843.4	1,912.6	2.57	-2.34	1.06
10,306.0	87.40	92.90	8,362.6	736.2	1,938.2	2,006.3	1.55	-1.37	-0.74
10,401.0	87.50	93.50	8,366.8	730.9	2,033.0	2,099.9	0.64	0.11	0.63
10,496.0	89.50	94.50	8,369.3	724.2	2,127.7	2,193.4	2.35	2.11	1.05
10,591.0	91.40	94.90	8,368.6	716.5	2,222.4	2,286.7	2.04	2.00	0.42
10,654.0	89.10	95.40	8,368.3	710.8	2,285.1	2,348.4	3.74	-3.65	0.79
10,717.0	87.80	94.50	8,370.0	705.4	2,347.8	2,410.2	2.51	-2.06	-1.43
10,780.0	87.50	94.00	8,372.6	700.7	2,410.6	2,472.1	0.92	-0.48	-0.79
10,843.0	87.90	94.30	8,375.1	696.2	2,473.4	2,534.0	0.79	0.63	0.48
10,874.0	88.90	95.20	8,376.0	693.6	2,504.3	2,564.5	4.34	3.23	2.90
10,969.0	88.20	95.40	8,378.4	684.8	2,598.8	2,657.5	0.77	-0.74	0.21
11,063.0	89.00	95.00	8,380.7	676.3	2,692.4	2,749.6	0.95	0.85	-0.43
11,158.0	90.00	94.90	8,381.5	668.1	2,787.1	2,842.9	1.06	1.05	-0.11
11,252.0	89.30	94.30	8,382.1	660.6	2,880.8	2,935.2	0.98	-0.74	-0.64
11,347.0	89.40	94.20	8,383.1	653.5	2,975.5	3,028.6	0.15	0.11	-0.11
11,442.0	88.70	94.30	8,384.7	646.5	3,070.2	3,122.0	0.74	-0.74	0.11



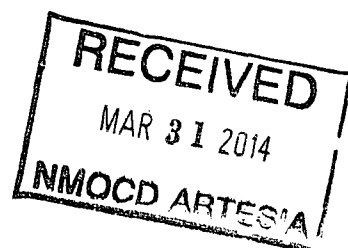
Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well URSA 27 Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL3433 +20 @ 3453.0usft (Trinidad #110)
Site:	Section 27-18S-30E URSA 27 Federal Com #1H	MD Reference:	GL3433 +20 @ 3453.0usft (Trinidad #110)
Well:	URSA 27 Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

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)	
11,537.0	89.00	94.20	8,386.6	639.4	3,164.9	3,215.4	0.33	0.32	-0.11	
11,632.0	89.90	93.30	8,387.5	633.2	3,259.7	3,309.0	1.34	0.95	-0.95	
11,726.0	89.40	92.60	8,388.1	628.4	3,353.6	3,401.8	0.92	-0.53	-0.74	
11,821.0	90.00	92.90	8,388.6	623.8	3,448.5	3,495.6	0.71	0.63	0.32	
11,916.0	91.40	93.10	8,387.5	618.9	3,543.4	3,589.4	1.49	1.47	0.21	
12,011.0	91.10	94.20	8,385.4	612.8	3,638.1	3,683.0	1.20	-0.32	1.16	
12,106.0	90.30	93.80	8,384.2	606.2	3,732.9	3,776.5	0.94	-0.84	-0.42	
12,201.0	89.70	92.70	8,384.2	600.8	3,827.7	3,870.2	1.32	-0.63	-1.16	
12,296.0	89.30	92.20	8,385.0	596.7	3,922.6	3,964.1	0.67	-0.42	-0.53	
12,391.0	90.40	93.60	8,385.3	591.9	4,017.5	4,057.9	1.87	1.16	1.47	
12,485.0	90.40	94.00	8,384.6	585.7	4,111.3	4,150.5	0.43	0.00	0.43	
12,580.0	90.90	93.50	8,383.6	579.5	4,206.1	4,244.1	0.74	0.53	-0.53	
12,675.0	90.40	95.20	8,382.5	572.3	4,300.8	4,337.5	1.87	-0.53	1.79	
12,770.0	89.00	96.80	8,383.0	562.4	4,395.3	4,430.3	2.24	-1.47	1.68	
12,865.0	89.80	96.10	8,384.0	551.7	4,489.7	4,523.0	1.12	0.84	-0.74	
12,934.0	89.10	95.00	8,384.6	545.0	4,558.4	4,590.5	1.89	-1.01	-1.59	
12,990.0	88.50	94.50	8,385.8	540.4	4,614.2	4,645.5	1.39	-1.07	-0.89	
12990' MD Projected to Bit PBHL URSA 27 Fed Com #1H										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,672.0	7,667.8	44.8	-97.6	7672' MD VES Gyro
12,990.0	8,385.8	540.4	4,614.2	12990' MD Projected to Bit



Mewbourne Oil Company .

Eddy County, New Mexico

Section 27-18S-30E URSA 27 Federal Com #1H

URSA 27 Federal Com #1H

Original Hole

Design: Original Hole

Survey Report - Geographic

23 January, 2014





Stryker Directional

Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: URSA 27 Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL3433 +20 @ 3453.0usft (Trinidad #110)
Site:	Section 27-18S-30E URSA 27 Federal Com #1H	MD Reference:	GL3433 +120 @ 3453.0usft (Trinidad #110)
Well:	URSA 27 Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

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 27-18S-30E URSA 27 Federal Com #1H
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Site Position:	Map	Northing:	622,738.41 usft	Latitude:	32° 42' 41.293 N
From:		Easting:	612,627.99 usft	Longitude:	103° 58' 1.763 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.20 °

Well	URSA 27 Federal Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	622,738.41 usft	Latitude:	32° 42' 41.293 N
	+E/-W	0.0 usft	Easting:	612,627.99 usft	Longitude:	103° 58' 1.763 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,433.0 usft	

Wellbore:	Original Hole
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Magnetics	Model/Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/14/2013	7.52	60.51	48,633

Design:	Original Hole
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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	83.81

Survey Program		Date	1/23/2014	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,672.0	VES Gyro Survey #1 (Original Hole)	GyroFlex	
7,737.0	12,990.0	MWD Survey #2 (Original Hole)	MWD	MWD - Standard

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	622,738.41	612,627.99	32° 42' 41.293 N	103° 58' 1.763 W
	100.0	1.05	156.76	100.0	-0.8	0.4	622,737.57	612,628.36	32° 42' 41.285 N	103° 58' 1.759 W
	200.0	1.78	142.83	200.0	-2.9	1.7	622,735.49	612,629.66	32° 42' 41.264 N	103° 58' 1.744 W
	300.0	1.92	123.24	299.9	-5.1	4.0	622,733.33	612,631.99	32° 42' 41.243 N	103° 58' 1.717 W
	400.0	2.16	106.30	399.8	-6.5	7.2	622,731.88	612,635.20	32° 42' 41.229 N	103° 58' 1.679 W
	500.0	1.61	102.09	499.8	-7.3	10.4	622,731.06	612,638.39	32° 42' 41.220 N	103° 58' 1.642 W
	600.0	1.42	103.26	599.8	-7.9	13.0	622,730.48	612,640.97	32° 42' 41.215 N	103° 58' 1.612 W
	700.0	1.49	97.50	699.7	-8.4	15.5	622,730.03	612,643.46	32° 42' 41.210 N	103° 58' 1.582 W
	800.0	1.36	98.71	799.7	-8.7	17.9	622,729.68	612,645.92	32° 42' 41.206 N	103° 58' 1.554 W
	900.0	1.33	96.00	899.7	-9.0	20.3	622,729.38	612,648.25	32° 42' 41.203 N	103° 58' 1.526 W
	1,000.0	1.61	109.32	999.6	-9.6	22.7	622,728.79	612,650.73	32° 42' 41.197 N	103° 58' 1.497 W



Stryker Directional

Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: URSA 27 Federal Com #1H
Project:	Eddy County New Mexico	TVD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Site:	Section 27-18S-30E URSA 27 Federal Com #1H	MD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Well:	URSA 27 Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
1,100.0	1.17	94.29	1,099.6	-10.2	25.1	622,728.25	612,653.07	32° 42' 41.192 N	103° 58' 1.470 W	
1,200.0	1.20	87.81	1,199.6	-10.2	27.1	622,728.21	612,655.14	32° 42' 41.192 N	103° 58' 1.446 W	
1,300.0	0.99	89.81	1,299.6	-10.2	29.1	622,728.26	612,657.05	32° 42' 41.192 N	103° 58' 1.423 W	
1,400.0	1.31	88.92	1,399.5	-10.1	31.1	622,728.28	612,659.06	32° 42' 41.192 N	103° 58' 1.400 W	
1,500.0	1.33	73.39	1,499.5	-9.8	33.3	622,728.64	612,661.31	32° 42' 41.196 N	103° 58' 1.374 W	
1,600.0	0.68	85.70	1,599.5	-9.4	35.0	622,729.01	612,663.01	32° 42' 41.199 N	103° 58' 1.354 W	
1,700.0	0.74	82.12	1,699.5	-9.3	36.3	622,729.14	612,664.25	32° 42' 41.201 N	103° 58' 1.339 W	
1,800.0	1.01	39.19	1,799.5	-8.5	37.4	622,729.92	612,665.44	32° 42' 41.208 N	103° 58' 1.325 W	
1,900.0	0.46	6.20	1,899.5	-7.4	38.0	622,731.00	612,666.04	32° 42' 41.219 N	103° 58' 1.318 W	
2,000.0	0.36	15.92	1,999.5	-6.7	38.2	622,731.70	612,666.17	32° 42' 41.226 N	103° 58' 1.317 W	
2,100.0	0.42	55.05	2,099.5	-6.2	38.6	622,732.21	612,666.56	32° 42' 41.231 N	103° 58' 1.312 W	
2,200.0	0.47	59.63	2,199.5	-5.8	39.2	622,732.63	612,667.21	32° 42' 41.235 N	103° 58' 1.304 W	
2,300.0	0.61	341.76	2,299.5	-5.1	39.4	622,733.34	612,667.40	32° 42' 41.242 N	103° 58' 1.302 W	
2,400.0	0.41	57.92	2,399.5	-4.4	39.5	622,734.04	612,667.54	32° 42' 41.249 N	103° 58' 1.300 W	
2,500.0	0.42	39.59	2,499.5	-3.9	40.1	622,734.51	612,668.07	32° 42' 41.253 N	103° 58' 1.294 W	
2,600.0	0.62	3.24	2,599.5	-3.1	40.3	622,735.33	612,668.34	32° 42' 41.262 N	103° 58' 1.291 W	
2,700.0	0.11	112.60	2,699.5	-2.6	40.5	622,735.84	612,668.46	32° 42' 41.267 N	103° 58' 1.290 W	
2,800.0	0.77	336.50	2,799.5	-2.0	40.3	622,736.42	612,668.28	32° 42' 41.272 N	103° 58' 1.292 W	
2,900.0	0.65	339.14	2,899.4	-0.8	39.8	622,737.56	612,667.81	32° 42' 41.284 N	103° 58' 1.297 W	
3,000.0	0.65	332.55	2,999.4	0.2	39.4	622,738.60	612,667.34	32° 42' 41.294 N	103° 58' 1.303 W	
3,100.0	0.41	345.36	3,099.4	1.0	39.0	622,739.44	612,666.99	32° 42' 41.302 N	103° 58' 1.307 W	
3,200.0	0.67	330.23	3,199.4	1.9	38.6	622,740.30	612,666.61	32° 42' 41.311 N	103° 58' 1.311 W	
3,300.0	0.23	352.95	3,299.4	2.6	38.3	622,741.00	612,666.30	32° 42' 41.318 N	103° 58' 1.315 W	
3,400.0	0.10	190.84	3,399.4	2.7	38.3	622,741.12	612,666.26	32° 42' 41.319 N	103° 58' 1.315 W	
3,500.0	0.46	223.74	3,499.4	2.3	38.0	622,740.74	612,665.96	32° 42' 41.315 N	103° 58' 1.319 W	
3,600.0	0.72	268.51	3,599.4	2.0	37.1	622,740.44	612,665.06	32° 42' 41.312 N	103° 58' 1.329 W	
3,700.0	0.65	237.44	3,699.4	1.7	36.0	622,740.11	612,663.95	32° 42' 41.309 N	103° 58' 1.342 W	
3,800.0	0.55	238.95	3,799.4	1.2	35.1	622,739.56	612,663.06	32° 42' 41.304 N	103° 58' 1.353 W	
3,900.0	0.72	254.71	3,899.4	0.7	34.1	622,739.15	612,662.04	32° 42' 41.300 N	103° 58' 1.365 W	
4,000.0	0.50	251.36	3,999.4	0.4	33.0	622,738.84	612,661.02	32° 42' 41.297 N	103° 58' 1.377 W	
4,100.0	0.20	271.52	4,099.4	0.3	32.4	622,738.71	612,660.44	32° 42' 41.295 N	103° 58' 1.383 W	
4,200.0	0.83	282.39	4,199.4	0.5	31.6	622,738.87	612,659.55	32° 42' 41.297 N	103° 58' 1.394 W	
4,300.0	0.38	303.30	4,299.4	0.8	30.6	622,739.21	612,658.57	32° 42' 41.300 N	103° 58' 1.405 W	
4,400.0	1.38	309.65	4,399.4	1.7	29.4	622,740.16	612,657.37	32° 42' 41.310 N	103° 58' 1.419 W	
4,500.0	1.37	299.47	4,499.3	3.1	27.4	622,741.51	612,655.40	32° 42' 41.323 N	103° 58' 1.442 W	
4,600.0	2.36	298.97	4,599.3	4.7	24.6	622,743.10	612,652.56	32° 42' 41.339 N	103° 58' 1.475 W	
4,700.0	2.64	300.38	4,699.2	6.9	20.8	622,745.26	612,648.77	32° 42' 41.361 N	103° 58' 1.520 W	
4,800.0	2.65	303.59	4,799.1	9.3	16.9	622,747.70	612,644.86	32° 42' 41.385 N	103° 58' 1.565 W	
4,900.0	2.69	294.07	4,899.0	11.5	12.8	622,749.94	612,640.79	32° 42' 41.407 N	103° 58' 1.613 W	
5,000.0	2.86	289.90	4,998.9	13.3	8.3	622,751.75	612,636.30	32° 42' 41.425 N	103° 58' 1.665 W	
5,100.0	3.10	284.50	5,098.7	14.9	3.3	622,753.27	612,631.33	32° 42' 41.440 N	103° 58' 1.723 W	
5,200.0	3.09	279.93	5,198.6	16.0	-1.9	622,754.41	612,626.06	32° 42' 41.452 N	103° 58' 1.785 W	
5,300.0	2.63	286.65	5,298.5	17.1	-6.8	622,755.54	612,621.21	32° 42' 41.463 N	103° 58' 1.842 W	
5,400.0	3.08	270.13	5,398.3	17.8	-11.7	622,756.20	612,616.32	32° 42' 41.470 N	103° 58' 1.899 W	
5,500.0	3.21	268.22	5,498.2	17.7	-17.2	622,756.12	612,610.84	32° 42' 41.469 N	103° 58' 1.963 W	
5,600.0	2.93	260.50	5,598.0	17.2	-22.5	622,755.61	612,605.52	32° 42' 41.464 N	103° 58' 2.025 W	
5,700.0	2.86	277.66	5,697.9	17.1	-27.5	622,755.52	612,600.53	32° 42' 41.464 N	103° 58' 2.084 W	
5,800.0	2.39	268.50	5,797.8	17.4	-32.0	622,755.80	612,595.97	32° 42' 41.467 N	103° 58' 2.137 W	
5,900.0	2.55	277.33	5,897.7	17.6	-36.3	622,756.03	612,591.68	32° 42' 41.469 N	103° 58' 2.187 W	
6,000.0	2.32	277.46	5,997.6	18.2	-40.5	622,756.57	612,587.47	32° 42' 41.475 N	103° 58' 2.237 W	
6,100.0	2.66	283.51	6,097.5	19.0	-44.8	622,757.38	612,583.20	32° 42' 41.483 N	103° 58' 2.287 W	
6,200.0	2.90	288.51	6,197.4	20.3	-49.4	622,758.73	612,578.55	32° 42' 41.496 N	103° 58' 2.341 W	
6,300.0	2.77	299.77	6,297.3	22.3	-53.9	622,760.73	612,574.05	32° 42' 41.516 N	103° 58' 2.394 W	
6,400.0	2.63	320.61	6,397.2	25.3	-57.5	622,763.70	612,570.50	32° 42' 41.546 N	103° 58' 2.435 W	
6,500.0	2.81	340.81	6,497.1	29.4	-59.8	622,767.79	612,568.24	32° 42' 41.586 N	103° 58' 2.461 W	



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: URSA-27 Federal Com #1H
Project:	Eddy County New Mexico	TVD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Site:	Section 27-18S-30E URSA-27 Federal Com #1H	MD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Well:	URSA-27 Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,600.0	2.30	359.80	6,597.0	33.7	-60.6	622,772.11	612,567.42	32° 42' 41.629 N	103° 58' 2.471 W
6,700.0	2.85	341.56	6,696.9	38.1	-61.4	622,776.48	612,566.63	32° 42' 41.672 N	103° 58' 2.480 W
6,800.0	3.37	328.83	6,796.7	42.9	-63.7	622,781.35	612,564.32	32° 42' 41.721 N	103° 58' 2.507 W
6,900.0	2.87	313.54	6,896.6	47.2	-67.0	622,785.59	612,560.99	32° 42' 41.763 N	103° 58' 2.545 W
7,000.0	2.92	305.05	6,996.5	50.4	-70.9	622,788.78	612,557.09	32° 42' 41.794 N	103° 58' 2.591 W
7,100.0	2.70	289.00	7,096.3	52.6	-75.2	622,791.01	612,552.77	32° 42' 41.816 N	103° 58' 2.641 W
7,200.0	3.06	271.37	7,196.2	53.4	-80.1	622,791.84	612,547.88	32° 42' 41.825 N	103° 58' 2.699 W
7,300.0	2.01	252.84	7,296.1	53.0	-84.5	622,791.38	612,543.53	32° 42' 41.820 N	103° 58' 2.750 W
7,400.0	2.84	241.43	7,396.0	51.3	-88.3	622,789.68	612,539.68	32° 42' 41.804 N	103° 58' 2.795 W
7,500.0	2.95	231.29	7,495.9	48.5	-92.5	622,786.89	612,535.50	32° 42' 41.776 N	103° 58' 2.844 W
7,600.0	2.17	243.05	7,595.8	46.0	-96.2	622,784.42	612,531.80	32° 42' 41.752 N	103° 58' 2.887 W
7,672.0	0.97	202.13	7,667.8	44.8	-97.6	622,783.24	612,530.36	32° 42' 41.740 N	103° 58' 2.904 W
7672 MD VES Gyro									
7,737.0	0.80	186.30	7,732.8	43.9	-97.9	622,782.28	612,530.10	32° 42' 41.731 N	103° 58' 2.907 W
7,783.0	2.60	73.90	7,778.7	43.8	-96.9	622,782.25	612,531.07	32° 42' 41.731 N	103° 58' 2.896 W
7,828.0	9.00	56.40	7,823.5	46.1	-93.0	622,784.48	612,534.99	32° 42' 41.752 N	103° 58' 2.850 W
7,873.0	13.60	60.90	7,867.6	50.6	-85.4	622,789.00	612,542.54	32° 42' 41.797 N	103° 58' 2.761 W
7,918.0	14.80	62.00	7,911.2	55.9	-75.8	622,794.27	612,552.24	32° 42' 41.849 N	103° 58' 2.647 W
7,963.0	18.80	60.20	7,954.3	62.2	-64.4	622,800.58	612,563.61	32° 42' 41.911 N	103° 58' 2.514 W
8,008.0	23.40	57.60	7,996.3	70.6	-50.5	622,808.98	612,577.46	32° 42' 41.993 N	103° 58' 2.352 W
8,053.0	27.90	57.40	8,036.8	81.0	-34.1	622,819.44	612,593.88	32° 42' 42.096 N	103° 58' 2.159 W
8,098.0	32.70	58.30	8,075.7	93.1	-14.9	622,831.51	612,613.10	32° 42' 42.215 N	103° 58' 1.934 W
8,143.0	36.80	59.90	8,112.6	106.3	7.1	622,844.66	612,635.12	32° 42' 42.345 N	103° 58' 1.675 W
8,189.0	40.20	62.20	8,148.6	120.1	32.2	622,858.50	612,660.18	32° 42' 42.481 N	103° 58' 1.382 W
8,234.0	44.10	64.40	8,182.0	133.6	59.2	622,872.04	612,687.16	32° 42' 42.614 N	103° 58' 1.065 W
8,279.0	49.50	62.00	8,212.8	148.4	88.4	622,886.85	612,716.41	32° 42' 42.759 N	103° 58' 0.722 W
8,324.0	53.40	58.60	8,240.8	165.9	119.0	622,904.31	612,746.95	32° 42' 42.931 N	103° 58' 0.364 W
8,369.0	58.00	57.90	8,266.2	185.5	150.6	622,923.87	612,778.55	32° 42' 43.123 N	103° 57' 59.994 W
8,414.0	63.60	57.90	8,288.1	206.3	183.8	622,944.73	612,811.81	32° 42' 43.329 N	103° 57' 59.603 W
8,459.0	68.30	58.60	8,306.5	227.9	218.8	622,966.35	612,846.75	32° 42' 43.541 N	103° 57' 59.194 W
8,504.0	71.80	59.40	8,321.8	249.7	255.0	622,988.13	612,883.00	32° 42' 43.756 N	103° 57' 58.768 W
8,549.0	75.80	59.20	8,334.4	271.8	292.2	623,010.19	612,920.15	32° 42' 43.973 N	103° 57' 58.333 W
8,594.0	79.00	59.70	8,344.2	294.1	330.0	623,032.50	612,957.97	32° 42' 44.192 N	103° 57' 57.889 W
8,627.0	81.40	59.20	8,349.8	310.6	358.0	623,049.03	612,985.97	32° 42' 44.355 N	103° 57' 57.561 W
8,724.0	89.90	58.30	8,357.2	360.8	440.6	623,099.17	613,068.58	32° 42' 44.848 N	103° 57' 56.592 W
8,756.0	90.00	57.90	8,357.2	377.7	467.8	623,116.08	613,095.74	32° 42' 45.015 N	103° 57' 56.273 W
8,787.0	89.90	57.90	8,357.2	394.1	494.0	623,132.55	613,122.01	32° 42' 45.177 N	103° 57' 55.965 W
8,819.0	89.80	57.90	8,357.3	411.1	521.1	623,149.55	613,149.11	32° 42' 45.344 N	103° 57' 55.647 W
8,851.0	90.00	58.60	8,357.4	428.0	548.3	623,166.39	613,176.32	32° 42' 45.510 N	103° 57' 55.328 W
8,882.0	90.20	59.00	8,357.3	444.0	574.8	623,182.45	613,202.84	32° 42' 45.668 N	103° 57' 55.017 W
8,914.0	90.20	58.80	8,357.2	460.6	602.2	623,198.98	613,230.24	32° 42' 45.830 N	103° 57' 54.696 W
8,977.0	89.00	59.20	8,357.6	493.0	656.2	623,231.43	613,284.24	32° 42' 46.150 N	103° 57' 54.062 W
9,024.8	88.04	59.35	8,358.9	517.4	697.3	623,255.84	613,325.32	32° 42' 46.390 N	103° 57' 53.581 W
LP2 URSA @ 7 Federal Com #1H									
9,072.0	87.10	59.50	8,360.9	541.4	737.9	623,279.83	613,365.92	32° 42' 46.626 N	103° 57' 53.104 W
9,167.0	89.30	63.00	8,363.8	587.1	821.2	623,325.49	613,449.15	32° 42' 47.075 N	103° 57' 52.128 W
9,262.0	90.50	68.30	8,364.0	626.2	907.7	623,364.64	613,535.66	32° 42' 47.459 N	103° 57' 51.114 W
9,357.0	91.20	74.50	8,362.6	656.5	997.7	623,394.92	613,625.65	32° 42' 47.756 N	103° 57' 50.060 W
9,452.0	87.70	77.80	8,363.5	679.2	1,089.9	623,417.66	613,717.85	32° 42' 47.977 N	103° 57' 48.980 W
9,547.0	89.50	80.30	8,365.8	697.3	1,183.1	623,435.69	613,811.09	32° 42' 48.153 N	103° 57' 47.888 W
9,642.0	89.30	82.20	8,366.8	711.7	1,277.0	623,450.15	613,904.97	32° 42' 48.292 N	103° 57' 46.788 W
9,737.0	90.40	82.90	8,367.1	724.1	1,371.2	623,462.46	613,999.17	32° 42' 48.411 N	103° 57' 45.685 W
9,832.0	90.10	82.40	8,366.7	736.2	1,465.4	623,474.62	614,093.38	32° 42' 48.528 N	103° 57' 44.582 W
9,927.0	91.20	85.20	8,365.6	746.5	1,559.8	623,484.87	614,187.81	32° 42' 48.626 N	103° 57' 43.476 W



Stryker Directional

Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: URSA 27 Federal Com #1H
Project:	Eddy County New Mexico	TVD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Site:	Section 27-18S-30E URSA 27 Federal Com #1H	MD Reference:	GL3433 + 20 @ 3453.0usft (Trinidad #110)
Well:	URSA 27 Federal Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,017.2	92.82	90.71	8,362.4	749.7	1,649.9	623,488.09	614,277.89	32° 42' 48.655 N	103° 57' 42.422 W
PT#1									
10,022.0	92.90	91.00	8,362.2	749.6	1,654.7	623,488.02	614,282.65	32° 42' 48.654 N	103° 57' 42.366 W
10,117.0	90.90	92.60	8,359.0	746.6	1,749.6	623,485.04	614,377.55	32° 42' 48.621 N	103° 57' 41.255 W
10,211.0	88.70	93.60	8,359.4	741.5	1,843.4	623,479.96	614,471.40	32° 42' 48.568 N	103° 57' 40.157 W
10,306.0	87.40	92.90	8,362.6	736.2	1,938.2	623,474.57	614,566.19	32° 42' 48.511 N	103° 57' 39.048 W
10,401.0	87.50	93.50	8,366.8	730.9	2,033.0	623,469.28	614,660.95	32° 42' 48.456 N	103° 57' 37.939 W
10,496.0	89.50	94.50	8,369.3	724.2	2,127.7	623,462.65	614,755.68	32° 42' 48.387 N	103° 57' 36.831 W
10,591.0	91.40	94.90	8,368.6	716.5	2,222.4	623,454.87	614,850.35	32° 42' 48.306 N	103° 57' 35.723 W
10,654.0	89.10	95.40	8,368.3	710.8	2,285.1	623,449.21	614,913.09	32° 42' 48.248 N	103° 57' 34.989 W
10,717.0	87.80	94.50	8,370.0	705.4	2,347.8	623,443.78	614,975.83	32° 42' 48.192 N	103° 57' 34.255 W
10,780.0	87.50	94.00	8,372.6	700.7	2,410.6	623,439.11	615,038.61	32° 42' 48.144 N	103° 57' 33.520 W
10,843.0	87.90	94.30	8,375.1	696.2	2,473.4	623,434.56	615,101.39	32° 42' 48.097 N	103° 57' 32.785 W
10,874.0	88.90	95.20	8,376.0	693.6	2,504.3	623,431.99	615,132.27	32° 42' 48.070 N	103° 57' 32.424 W
10,969.0	88.20	95.40	8,378.4	684.8	2,598.8	623,423.22	615,226.83	32° 42' 47.980 N	103° 57' 31.318 W
11,063.0	89.00	95.00	8,380.7	676.3	2,692.4	623,414.70	615,320.42	32° 42' 47.893 N	103° 57' 30.223 W
11,158.0	90.00	94.90	8,381.5	668.1	2,787.1	623,406.51	615,415.06	32° 42' 47.808 N	103° 57' 29.115 W
11,252.0	89.30	94.30	8,382.1	660.6	2,880.8	623,398.97	615,508.75	32° 42' 47.730 N	103° 57' 28.019 W
11,347.0	89.40	94.20	8,383.1	653.5	2,975.5	623,391.93	615,603.49	32° 42' 47.657 N	103° 57' 26.910 W
11,442.0	88.70	94.30	8,384.7	646.5	3,070.2	623,384.89	615,698.21	32° 42' 47.584 N	103° 57' 25.802 W
11,537.0	89.00	94.20	8,386.6	639.4	3,164.9	623,377.85	615,792.93	32° 42' 47.511 N	103° 57' 24.694 W
11,632.0	89.90	93.30	8,387.5	633.2	3,259.7	623,371.64	615,887.72	32° 42' 47.446 N	103° 57' 23.585 W
11,726.0	89.40	92.60	8,388.1	628.4	3,353.6	623,366.80	615,981.59	32° 42' 47.395 N	103° 57' 22.486 W
11,821.0	90.00	92.90	8,388.6	623.8	3,448.5	623,362.24	616,076.48	32° 42' 47.347 N	103° 57' 21.376 W
11,916.0	91.40	93.10	8,387.5	618.9	3,543.4	623,357.27	616,171.34	32° 42' 47.294 N	103° 57' 20.266 W
12,011.0	91.10	94.20	8,385.4	612.8	3,638.1	623,351.23	616,266.13	32° 42' 47.231 N	103° 57' 19.156 W
12,106.0	90.30	93.80	8,384.2	606.2	3,732.9	623,344.60	616,360.89	32° 42' 47.162 N	103° 57' 18.048 W
12,201.0	89.70	92.70	8,384.2	600.8	3,827.7	623,339.21	616,455.73	32° 42' 47.106 N	103° 57' 16.938 W
12,296.0	89.30	92.20	8,385.0	596.7	3,922.6	623,335.15	616,550.64	32° 42' 47.062 N	103° 57' 15.827 W
12,391.0	90.40	93.60	8,385.3	591.9	4,017.5	623,330.35	616,645.52	32° 42' 47.011 N	103° 57' 14.717 W
12,485.0	90.40	94.00	8,384.6	585.7	4,111.3	623,324.12	616,739.31	32° 42' 46.946 N	103° 57' 13.619 W
12,580.0	90.90	93.50	8,383.6	579.5	4,206.1	623,317.90	616,834.10	32° 42' 46.881 N	103° 57' 12.510 W
12,675.0	90.40	95.20	8,382.5	572.3	4,300.8	623,310.70	616,928.81	32° 42' 46.807 N	103° 57' 11.402 W
12,770.0	89.00	96.80	8,383.0	562.4	4,395.3	623,300.77	617,023.29	32° 42' 46.705 N	103° 57' 10.296 W
12,865.0	89.80	96.10	8,384.0	551.7	4,489.7	623,290.10	617,117.68	32° 42' 46.596 N	103° 57' 9.192 W
12,934.0	89.10	95.00	8,384.6	545.0	4,558.4	623,283.43	617,186.35	32° 42' 46.528 N	103° 57' 8.389 W
12,990.0	88.50	94.50	8,385.8	540.4	4,614.2	623,278.79	617,242.15	32° 42' 46.480 N	103° 57' 7.736 W

12990' MD Projected to Bit PBHL URSA 27 Fed Com #1H

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
7,672.0	7,667.8	44.8	-97.6	7672' MD VES GYRO
12,990.0	8,385.8	540.4	4,614.2	12990' MD Projected to Bit