

30-015-41307

Mewbourne Oil Company .

Eddy County, New Mexico

Zircon 1 LI

Zircon 1 LI State #1H

OH

Design: OH

Standard Survey Report

01 August, 2013



Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zircon-1 LI State #1H
Project:	Eddy County, New Mexico	TVD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Site:	Zircon-1 LI	MD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Well:	Zircon-1 LI State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	Zircon-1 LI		
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Site Position:		Northing:	613,383.01 usft	Latitude:	32° 41' 9.372 N
From:	Map	Easting:	591,473.15 usft	Longitude:	104° 2' 9.670 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well	Zircon-1 LI State #1H				
Well Position	+N/-S	0.0 usft	Northing:	613,383.01 usft	Latitude: 32° 41' 9.372 N
	+E/-W	0.0 usft	Easting:	591,473.15 usft	Longitude: 104° 2' 9.670 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level: 3,379.0 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/30/2013	7.60	60.49	48,648

Design	OH				
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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	79.09

Survey Program	Date: 8/1/2013				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,350.0	Survey #1 (OH)	GyroFlex		
7,429.0	12,910.0	Survey #2 (OH)	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	0.47	334.16	100.0	0.4	-0.2	-0.1	0.47	0.47	0.00
	200.0	0.61	337.38	200.0	1.2	-0.6	-0.3	0.14	0.14	3.22
	300.0	1.10	353.36	300.0	2.7	-0.9	-0.4	0.54	0.49	15.98
	400.0	1.18	3.66	400.0	4.7	-0.9	0.0	0.22	0.08	10.30
	500.0	0.88	15.13	499.9	6.4	-0.7	0.6	0.36	-0.30	11.47
	600.0	1.08	18.84	599.9	8.1	-0.2	1.4	0.21	0.20	3.71
	700.0	1.14	21.02	699.9	9.9	0.5	2.4	0.07	0.06	2.18
	800.0	0.77	33.12	799.9	11.4	1.2	3.4	0.42	-0.37	12.10
	900.0	1.05	37.79	899.9	12.7	2.2	4.5	0.29	0.28	4.67

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Project:	Eddy County, New Mexico	TVD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Site:	Zircon 1 LI	MD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Well:	Zircon 1 LI State #1H	North Reference:	Grid:
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	1.17	41.40	999.9	14.1	3.4	6.0	0.14	0.12	3.61
1,100.0	1.52	52.23	1,099.8	15.7	5.1	8.0	0.43	0.35	10.83
1,200.0	1.64	49.25	1,199.8	17.5	7.3	10.4	0.15	0.12	-2.98
1,300.0	1.27	48.90	1,299.8	19.1	9.2	12.6	0.37	-0.37	-0.35
1,400.0	0.92	43.32	1,399.8	20.4	10.6	14.2	0.37	-0.35	-5.58
1,500.0	0.91	40.86	1,499.7	21.6	11.6	15.5	0.04	-0.01	-2.46
1,600.0	0.77	39.28	1,599.7	22.8	12.6	16.7	0.14	-0.14	-1.58
1,700.0	0.80	40.99	1,699.7	23.8	13.5	17.7	0.04	0.03	1.71
1,800.0	0.91	28.25	1,799.7	25.0	14.3	18.8	0.22	0.11	-12.74
1,900.0	0.73	31.08	1,899.7	26.3	15.0	19.7	0.18	-0.18	2.83
2,000.0	0.24	28.96	1,999.7	27.0	15.4	20.3	0.49	-0.49	-2.12
2,100.0	0.41	32.07	2,099.7	27.5	15.7	20.6	0.17	0.17	3.11
2,200.0	0.42	31.51	2,199.7	28.1	16.1	21.1	0.01	0.01	-0.56
2,300.0	0.43	27.22	2,299.7	28.7	16.5	21.6	0.03	0.01	-4.29
2,400.0	0.34	12.94	2,399.7	29.4	16.7	22.0	0.13	-0.09	-14.28
2,500.0	0.27	7.87	2,499.7	29.9	16.8	22.2	0.07	-0.07	-5.07
2,600.0	0.34	4.97	2,599.7	30.4	16.9	22.3	0.07	0.07	-2.90
2,700.0	0.24	4.09	2,699.7	30.9	16.9	22.4	0.10	-0.10	-0.88
2,800.0	0.40	354.40	2,799.7	31.5	16.9	22.5	0.17	0.16	-9.69
2,900.0	0.11	343.35	2,899.7	31.9	16.8	22.6	0.29	-0.29	-11.05
3,000.0	0.23	330.56	2,999.7	32.2	16.7	22.5	0.13	0.12	-12.79
3,100.0	0.28	325.15	3,099.7	32.6	16.5	22.3	0.06	0.05	-5.41
3,200.0	0.19	325.58	3,199.7	32.9	16.2	22.2	0.09	-0.09	0.43
3,300.0	0.40	317.72	3,299.7	33.3	15.9	21.9	0.21	0.21	-7.86
3,400.0	0.52	312.31	3,399.7	33.9	15.3	21.4	0.13	0.12	-5.41
3,500.0	0.43	305.95	3,499.7	34.4	14.7	20.9	0.10	-0.09	-6.36
3,600.0	0.45	296.75	3,599.7	34.8	14.0	20.4	0.07	0.02	-9.20
3,700.0	0.49	281.15	3,699.7	35.0	13.3	19.6	0.13	0.04	-15.60
3,800.0	1.05	282.79	3,799.7	35.3	11.9	18.4	0.56	0.56	1.64
3,900.0	1.51	282.89	3,899.6	35.8	9.8	16.4	0.46	0.46	0.10
4,000.0	1.80	279.77	3,999.6	36.4	6.9	13.7	0.30	0.29	-3.12
4,100.0	2.11	274.24	4,099.5	36.8	3.5	10.4	0.36	0.31	-5.53
4,200.0	2.11	268.04	4,199.5	36.9	-0.1	6.8	0.23	0.00	-6.20
4,300.0	1.79	271.63	4,299.4	36.8	-3.5	3.5	0.34	-0.32	3.59
4,400.0	1.86	277.25	4,399.4	37.1	-6.7	0.4	0.19	0.07	5.62
4,500.0	1.52	277.51	4,499.3	37.5	-9.6	-2.4	0.34	-0.34	0.26
4,600.0	1.41	279.53	4,599.3	37.8	-12.2	-4.8	0.12	-0.11	2.02
4,700.0	1.65	295.09	4,699.2	38.7	-14.7	-7.1	0.48	0.24	15.56
4,800.0	1.53	301.92	4,799.2	40.0	-17.1	-9.2	0.22	-0.12	6.83
4,900.0	1.26	296.59	4,899.2	41.2	-19.2	-11.1	0.30	-0.27	-5.33
5,000.0	1.28	298.45	4,999.1	42.2	-21.2	-12.8	0.05	0.02	1.86
5,100.0	1.41	301.12	5,099.1	43.4	-23.2	-14.6	0.14	0.13	2.67
5,200.0	1.14	304.39	5,199.1	44.6	-25.1	-16.2	0.28	-0.27	3.27

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: Zircon 1-LI State #1H
Project:	Eddy County, New Mexico	TVD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Site:	Zircon 1-LI	MD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Well:	Zircon 1-LI State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	0.95	299.14	5,299.1	45.5	-26.6	-17.5	0.21	-0.19	-5.25
5,400.0	1.08	298.12	5,399.1	46.4	-28.2	-18.9	0.13	0.13	-1.02
5,500.0	1.52	303.75	5,499.0	47.6	-30.1	-20.6	0.46	0.44	5.63
5,600.0	1.25	297.17	5,599.0	48.8	-32.2	-22.4	0.31	-0.27	-6.58
5,700.0	1.15	302.02	5,699.0	49.8	-34.0	-24.0	0.14	-0.10	4.85
5,800.0	1.35	307.88	5,799.0	51.1	-35.8	-25.5	0.24	0.20	5.86
5,900.0	1.02	311.26	5,898.9	52.4	-37.4	-26.8	0.34	-0.33	3.38
6,000.0	1.15	301.38	5,998.9	53.5	-38.9	-28.1	0.23	0.13	-9.88
6,100.0	0.65	292.02	6,098.9	54.2	-40.3	-29.3	0.52	-0.50	-9.36
6,200.0	1.31	264.24	6,198.9	54.3	-42.0	-30.9	0.79	0.66	-27.78
6,300.0	2.10	260.96	6,298.8	53.9	-44.9	-33.9	0.80	0.79	-3.28
6,400.0	2.20	259.78	6,398.8	53.3	-48.6	-37.7	0.11	0.10	-1.18
6,500.0	2.18	258.84	6,498.7	52.6	-52.4	-41.5	0.04	-0.02	-0.94
6,600.0	2.46	254.76	6,598.6	51.7	-56.3	-45.5	0.32	0.28	-4.08
6,700.0	2.57	249.71	6,698.5	50.3	-60.5	-49.9	0.25	0.11	-5.05
6,800.0	2.43	246.69	6,798.4	48.7	-64.5	-54.2	0.19	-0.14	-3.02
6,900.0	2.14	246.52	6,898.4	47.1	-68.2	-58.0	0.29	-0.29	-0.17
7,000.0	1.95	250.20	6,998.3	45.8	-71.5	-61.6	0.23	-0.19	3.68
7,100.0	1.92	255.27	7,098.2	44.8	-74.7	-64.9	0.17	-0.03	5.07
7,200.0	1.74	259.86	7,198.2	44.1	-77.8	-68.1	0.23	-0.18	4.59
7,300.0	1.42	255.18	7,298.1	43.5	-80.5	-70.8	0.34	-0.32	-4.68
7,350.0	0.83	256.06	7,348.1	43.3	-81.5	-71.8	1.18	-1.18	1.76
7,429.0	0.70	309.40	7,427.1	43.4	-82.4	-72.7	0.88	-0.16	67.52
7,461.0	1.30	9.50	7,459.1	43.9	-82.5	-72.7	3.53	1.88	187.81
7,493.0	4.90	28.40	7,491.1	45.5	-81.8	-71.7	11.54	11.25	59.06
7,524.0	9.00	32.60	7,521.8	48.7	-79.9	-69.2	13.32	13.23	13.55
7,556.0	13.00	34.70	7,553.2	53.8	-76.5	-64.9	12.56	12.50	6.56
7,588.0	16.90	38.90	7,584.2	60.3	-71.5	-58.8	12.64	12.19	13.13
7,619.0	19.90	45.50	7,613.6	67.6	-64.9	-50.9	11.77	9.68	21.29
7,651.0	23.10	51.50	7,643.3	75.3	-56.1	-40.8	12.12	10.00	18.75
7,683.0	27.10	51.00	7,672.3	83.8	-45.5	-28.8	12.52	12.50	-1.56
7,715.0	29.40	53.40	7,700.5	93.1	-33.5	-15.3	8.02	7.19	7.50
7,746.0	29.50	53.80	7,727.5	102.1	-21.3	-1.6	0.71	0.32	1.29
7,778.0	30.90	53.60	7,755.2	111.6	-8.3	13.0	4.39	4.38	-0.63
7,810.0	34.40	52.90	7,782.1	122.0	5.5	28.5	11.00	10.94	-2.19
7,842.0	37.50	52.40	7,808.0	133.4	20.5	45.3	9.73	9.69	-1.56
7,873.0	40.00	52.50	7,832.2	145.2	35.8	62.7	8.07	8.06	0.32
7,905.0	43.00	54.30	7,856.1	157.8	52.9	81.8	10.09	9.38	5.63
7,937.0	46.40	58.60	7,878.9	170.2	71.6	102.5	14.22	10.63	13.44
7,969.0	48.10	59.60	7,900.6	182.3	91.8	124.6	5.79	5.31	3.13
8,000.0	49.10	59.50	7,921.1	194.1	111.8	146.5	3.23	3.23	-0.32
8,032.0	51.40	57.40	7,941.6	206.9	132.8	169.5	8.78	7.19	-6.56
8,064.0	53.80	54.60	7,961.0	221.2	153.9	192.9	10.22	7.50	-8.75

Stryker Directional Survey Report

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Project:	Eddy County, New Mexico	TVD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Site:	Zircon 1 LI	MD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,096.0	57.00	53.00	7,979.2	236.7	175.1	216.7	10.81	10.00	-5.00
8,128.0	61.40	53.40	7,995.6	253.2	197.1	241.5	13.79	13.75	1.25
8,159.0	65.80	55.00	8,009.3	269.4	219.6	266.6	14.93	14.19	5.16
8,191.0	70.60	56.70	8,021.2	286.1	244.2	293.9	15.79	15.00	5.31
8,223.0	75.10	58.80	8,030.6	302.4	270.1	322.4	15.40	14.06	6.56
8,255.0	79.20	59.70	8,037.8	318.3	296.9	351.7	13.10	12.81	2.81
8,286.0	82.30	59.90	8,042.7	333.7	323.3	380.6	10.02	10.00	0.65
8,379.0	89.20	59.40	8,049.6	380.6	403.3	468.0	7.44	7.42	-0.54
8,442.0	88.40	58.60	8,051.0	413.0	457.3	527.2	1.80	-1.27	-1.27
8,506.0	88.60	61.00	8,052.6	445.2	512.6	587.5	3.76	0.31	3.75
8,569.0	89.90	61.40	8,053.5	475.5	567.8	647.5	2.16	2.06	0.63
8,632.0	89.40	60.90	8,053.8	505.9	623.0	707.4	1.12	-0.79	-0.79
8,696.0	89.30	62.90	8,054.6	536.1	679.4	768.6	3.13	-0.16	3.13
8,759.0	90.40	64.90	8,054.7	563.8	736.0	829.4	3.62	1.75	3.17
8,822.0	89.50	64.90	8,054.8	590.5	793.0	890.4	1.43	-1.43	0.00
8,886.0	92.20	67.30	8,053.8	616.4	851.5	952.8	5.64	4.22	3.75
8,950.0	92.60	67.60	8,051.2	641.0	910.6	1,015.4	0.78	0.63	0.47
9,012.0	91.60	68.50	8,048.9	664.1	968.1	1,076.2	2.17	-1.61	1.45
9,076.0	90.30	69.60	8,047.8	687.0	1,027.8	1,139.2	2.66	-2.03	1.72
9,139.0	91.10	72.10	8,047.1	707.7	1,087.3	1,201.6	4.17	1.27	3.97
9,202.0	90.90	73.50	8,046.0	726.3	1,147.5	1,264.2	2.24	-0.32	2.22
9,265.0	89.70	74.60	8,045.6	743.6	1,208.1	1,326.9	2.58	-1.90	1.75
9,328.0	88.70	75.80	8,046.5	759.7	1,269.0	1,389.8	2.48	-1.59	1.90
9,391.0	88.40	77.50	8,048.1	774.2	1,330.2	1,452.7	2.74	-0.48	2.70
9,454.0	88.80	78.90	8,049.6	787.1	1,391.9	1,515.7	2.31	0.63	2.22
9,518.0	88.80	80.40	8,051.0	798.6	1,454.8	1,579.6	2.34	0.00	2.34
9,582.0	89.20	81.10	8,052.1	808.9	1,518.0	1,643.6	1.26	0.63	1.09
9,645.0	89.90	82.30	8,052.6	818.0	1,580.3	1,706.5	2.21	1.11	1.90
9,708.0	90.60	82.80	8,052.3	826.1	1,642.8	1,769.4	1.37	1.11	0.79
9,772.0	90.50	84.00	8,051.7	833.5	1,706.4	1,833.2	1.88	-0.16	1.88
9,835.0	89.60	85.50	8,051.6	839.3	1,769.1	1,895.9	2.78	-1.43	2.38
9,898.0	89.60	87.30	8,052.1	843.2	1,832.0	1,958.4	2.86	0.00	2.86
9,961.0	89.80	88.80	8,052.4	845.4	1,894.9	2,020.6	2.40	0.32	2.38
10,025.0	89.70	89.10	8,052.7	846.5	1,958.9	2,083.7	0.49	-0.16	0.47
10,088.0	89.60	89.70	8,053.1	847.2	2,021.9	2,145.7	0.97	-0.16	0.95
10,151.0	90.10	89.60	8,053.2	847.6	2,084.9	2,207.6	0.81	0.79	-0.16
10,214.0	89.70	88.80	8,053.4	848.5	2,147.9	2,269.6	1.42	-0.63	-1.27
10,277.0	89.00	88.20	8,054.1	850.1	2,210.9	2,331.8	1.46	-1.11	-0.95
10,340.0	88.90	89.00	8,055.2	851.6	2,273.8	2,393.9	1.28	-0.16	1.27
10,404.0	89.80	89.50	8,055.9	852.5	2,337.8	2,456.9	1.61	1.41	0.78
10,468.0	89.50	88.90	8,056.3	853.4	2,401.8	2,519.9	1.05	-0.47	-0.94
10,531.0	88.40	88.40	8,057.5	854.9	2,464.8	2,582.0	1.92	-1.75	-0.79
10,594.0	88.70	89.10	8,059.1	856.2	2,527.8	2,644.1	1.21	0.48	1.11
10,657.0	89.10	89.70	8,060.3	856.9	2,590.7	2,706.1	1.14	0.63	0.95

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zircon 1 LI State #1H
Project:	Eddy County, New Mexico	TVD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Site:	Zircon 1 LI	MD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Well:	Zircon 1 LI State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
10,720.0	90.90	89.70	8,060.3	857.2	2,653.7	2,768.0	2.86	2.86	0.00
10,783.0	90.20	90.00	8,059.7	857.4	2,716.7	2,829.9	1.21	-1.11	0.48
10,846.0	90.70	89.50	8,059.2	857.7	2,779.7	2,891.8	1.12	0.79	-0.79
10,910.0	92.10	88.90	8,057.6	858.6	2,843.7	2,954.8	2.38	2.19	-0.94
10,973.0	91.80	88.80	8,055.5	859.8	2,906.7	3,016.8	0.50	-0.48	-0.16
11,036.0	91.70	88.50	8,053.6	861.3	2,969.6	3,078.9	0.50	-0.16	-0.48
11,100.0	91.60	88.30	8,051.7	863.1	3,033.6	3,142.1	0.35	-0.16	-0.31
11,163.0	90.60	87.70	8,050.5	865.3	3,096.5	3,204.3	1.85	-1.59	-0.95
11,227.0	89.80	87.30	8,050.3	868.1	3,160.4	3,267.6	1.40	-1.25	-0.63
11,290.0	89.10	87.20	8,050.9	871.1	3,223.4	3,330.0	1.12	-1.11	-0.16
11,354.0	88.50	87.10	8,052.2	874.3	3,287.3	3,393.3	0.95	-0.94	-0.16
11,417.0	88.10	87.70	8,054.1	877.1	3,350.2	3,455.6	1.14	-0.63	0.95
11,480.0	88.40	88.30	8,056.0	879.3	3,413.1	3,517.8	1.06	0.48	0.95
11,544.0	88.40	88.50	8,057.8	881.1	3,477.1	3,581.0	0.31	0.00	0.31
11,607.0	88.20	87.90	8,059.7	883.1	3,540.0	3,643.2	1.00	-0.32	-0.95
11,671.0	90.30	88.40	8,060.5	885.2	3,604.0	3,706.3	3.37	3.28	0.78
11,727.0	89.90	88.20	8,060.4	886.8	3,659.9	3,761.6	0.80	-0.71	-0.36
11,791.0	89.60	87.70	8,060.7	889.1	3,723.9	3,824.9	0.91	-0.47	-0.78
11,854.0	90.20	87.40	8,060.8	891.8	3,786.8	3,887.2	1.06	0.95	-0.48
11,917.0	89.90	87.10	8,060.8	894.8	3,849.8	3,949.5	0.67	-0.48	-0.48
11,981.0	89.50	86.50	8,061.1	898.4	3,913.7	4,013.0	1.13	-0.63	-0.94
12,044.0	89.50	86.70	8,061.6	902.1	3,976.6	4,075.4	0.32	0.00	0.32
12,076.0	89.10	86.50	8,062.0	904.0	4,008.5	4,107.1	1.40	-1.25	-0.63
12,139.0	89.00	86.80	8,063.1	907.7	4,071.4	4,169.6	0.50	-0.16	0.48
12,203.0	91.50	88.80	8,062.8	910.2	4,135.3	4,232.8	5.00	3.91	3.13
12,266.0	91.50	88.30	8,061.2	911.8	4,198.3	4,295.0	0.79	0.00	-0.79
12,330.0	90.80	87.50	8,059.9	914.1	4,262.2	4,358.2	1.66	-1.09	-1.25
12,392.0	91.80	88.60	8,058.5	916.2	4,324.2	4,419.4	2.40	1.61	1.77
12,456.0	92.50	88.90	8,056.1	917.6	4,388.1	4,482.5	1.19	1.09	0.47
12,520.0	91.20	89.50	8,054.0	918.5	4,452.1	4,545.4	2.24	-2.03	0.94
12,583.0	89.60	90.40	8,053.6	918.6	4,515.1	4,607.3	2.91	-2.54	1.43
12,647.0	88.20	90.80	8,054.8	917.9	4,579.0	4,670.0	2.27	-2.19	0.63
12,710.0	87.70	90.30	8,057.0	917.3	4,642.0	4,731.7	1.12	-0.79	-0.79
12,773.0	89.10	89.80	8,058.8	917.2	4,705.0	4,793.5	2.36	2.22	-0.79
12,836.0	90.10	88.70	8,059.2	918.1	4,768.0	4,855.6	2.36	1.59	-1.75
12,856.0	89.90	88.60	8,059.2	918.5	4,788.0	4,875.3	1.12	-1.00	-0.50
12,910.0	89.90	88.60	8,059.3	919.9	4,841.9	4,928.5	0.00	0.00	0.00

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zircon 1 LI State #1H
Project:	Eddy County, New Mexico	TVD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Site:	Zircon 1 LI	MD Reference:	RKB = 20' @ 3399.0usft (Rig 45)
Well:	Zircon 1 LI State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Zircon 1 State #1H: LI	0.00	0.00	8,048.0	317.5	303.8	613,700.52	591,776.98	32° 41' 12.506 N	104° 2' 6.105 W
- actual wellpath misses target center by 10.0usft at 8262.2usft MD (8039.1 TVD, 321.9 N, 303.0 E)									
- Point									
Zircon 1 State #1H: PI	0.00	0.00	8,063.0	935.2	4,854.3	614,318.25	596,327.44	32° 41' 18.489 N	104° 1' 12.839 W
- actual wellpath misses target center by 20.1usft at 12910.0usft MD (8059.3 TVD, 919.9 N, 4841.9 E)									
- Point									

Design Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S	+E/-W	
(usft)	(usft)	(usft)	(usft)	
12,910.0	8,059.3	919.9	4,841.9	12910.0' MD BHL; 2294.45' FSL; 341.42' FEL