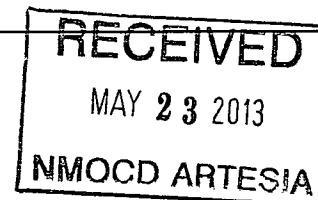




Company: Mewbourne Oil Company
Lease/Well: Zircon 2 DA State/No 001H

Rig Name: Patterson 47
State/County: New Mexico/Eddy
Latitude: 32.70, Longitude: -104.05
GRID North is 0.15 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB=19 Ft

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: survey.ut

Minimum Curvature Method

Report Date/Time: 3/28/2013 / 13:04

Vaughn Energy Services

432-563-5444

Gardendale, Texas

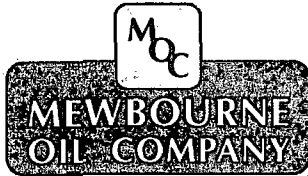
Surveyor: Kyle Willis

Zircon 2 DA State No 001H / API 30-015-41133

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.49	118.93	100.00	-0.21	0.38	-0.21	0.43	118.93	0.49
200.00	0.14	60.51	200.00	-0.35	0.86	-0.35	0.93	112.29	0.43
300.00	0.14	71.32	300.00	-0.25	1.09	-0.25	1.12	103.01	0.03
400.00	0.78	55.49	399.99	0.17	1.76	0.17	1.77	84.44	0.64
500.00	0.71	44.15	499.98	1.00	2.75	1.00	2.93	70.02	0.16
600.00	0.39	66.63	599.98	1.58	3.49	1.58	3.83	65.67	0.38
700.00	0.98	56.63	699.97	2.19	4.52	2.19	5.02	64.20	0.60
800.00	0.48	77.04	799.96	2.75	5.65	2.75	6.28	64.01	0.56
900.00	0.92	79.12	899.96	3.00	6.84	3.00	7.47	66.34	0.44
1000.00	0.95	68.17	999.94	3.46	8.40	3.46	9.08	67.63	0.18
1100.00	0.94	57.84	1099.93	4.20	9.87	4.20	10.72	66.92	0.17
1200.00	0.82	54.53	1199.92	5.06	11.15	5.06	12.24	65.59	0.13
1300.00	0.77	33.20	1299.91	6.04	12.10	6.04	13.53	63.48	0.30
1400.00	0.97	38.77	1399.90	7.26	13.00	7.26	14.89	60.81	0.21
1500.00	1.01	24.81	1499.88	8.72	13.90	8.72	16.41	57.89	0.24
1600.00	0.77	17.06	1599.87	10.17	14.47	10.17	17.69	54.90	0.27
1700.00	1.00	6.31	1699.86	11.68	14.76	11.68	18.83	51.64	0.28
1800.00	1.24	10.64	1799.84	13.61	15.06	13.61	20.30	47.88	0.25
1900.00	1.34	5.55	1899.81	15.84	15.37	15.84	22.07	44.14	0.16
2000.00	1.63	11.15	1999.78	18.41	15.76	18.41	24.23	40.57	0.32

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	1.34	5.55	1899.81	15.84	15.37	15.84	22.07	44.14	0.16
2000.00	1.63	11.15	1999.78	18.41	15.76	18.41	24.23	40.57	0.32
2100.00	1.83	8.96	2099.73	21.39	16.29	21.39	26.88	37.29	0.21
2200.00	1.62	5.24	2199.69	24.38	16.66	24.38	29.53	34.36	0.24
2300.00	1.77	10.71	2299.64	27.31	17.08	27.31	32.21	32.03	0.22
2400.00	2.00	4.61	2399.59	30.56	17.51	30.56	35.22	29.81	0.30
2500.00	2.26	6.76	2499.52	34.26	17.88	34.26	38.64	27.56	0.27
2600.00	2.48	7.85	2599.44	38.36	18.41	38.36	42.55	25.63	0.22
2700.00	2.45	8.80	2699.34	42.61	19.03	42.61	46.67	24.07	0.05
2800.00	2.49	14.32	2799.25	46.82	19.89	46.82	50.88	23.02	0.24
2900.00	2.63	0.31	2899.15	51.22	20.44	51.22	55.15	21.76	0.64
3000.00	2.10	12.16	2999.07	55.31	20.84	55.31	59.10	20.65	0.72
3100.00	2.34	10.84	3098.99	59.10	21.61	59.10	62.93	20.09	0.24
3200.00	2.64	12.45	3198.90	63.36	22.49	63.36	67.23	19.54	0.31
3300.00	2.39	11.82	3298.80	67.65	23.42	67.65	71.59	19.09	0.25
3400.00	2.08	19.49	3398.72	71.41	24.45	71.41	75.48	18.90	0.43
3500.00	2.16	22.99	3498.66	74.85	25.79	74.85	79.17	19.01	0.15
3600.00	2.16	24.64	3598.59	78.30	27.31	78.30	82.93	19.23	0.06
3700.00	2.22	18.62	3698.51	81.86	28.72	81.86	86.75	19.33	0.24
3800.00	1.89	12.47	3798.45	85.30	29.69	85.30	90.32	19.19	0.40
3900.00	1.19	16.49	3898.41	87.90	30.34	87.90	92.99	19.05	0.71
4000.00	1.30	31.70	3998.39	89.86	31.23	89.86	95.13	19.17	0.35
4100.00	1.18	38.57	4098.36	91.62	32.47	91.62	97.20	19.51	0.19
4200.00	0.67	43.74	4198.35	92.84	33.51	92.84	98.71	19.85	0.51
4300.00	0.83	43.99	4298.34	93.79	34.42	93.79	99.90	20.15	0.16
4400.00	0.75	45.52	4398.33	94.76	35.38	94.76	101.16	20.48	0.09
4500.00	0.81	84.80	4498.32	95.29	36.55	95.29	102.06	20.99	0.53
4600.00	0.55	71.29	4598.32	95.50	37.71	95.50	102.68	21.55	0.30
4700.00	0.22	46.64	4698.32	95.79	38.30	95.79	103.16	21.80	0.36
4800.00	0.18	142.10	4798.32	95.79	38.54	95.79	103.26	21.92	0.30
4900.00	0.19	125.35	4898.31	95.57	38.78	95.57	103.14	22.09	0.06
5000.00	0.18	300.65	4998.31	95.55	38.79	95.55	103.12	22.09	0.37
5100.00	0.30	272.81	5098.31	95.64	38.39	95.64	103.06	21.87	0.17
5200.00	0.18	207.26	5198.31	95.51	38.05	95.51	102.81	21.72	0.28
5300.00	0.31	327.43	5298.31	95.60	37.83	95.60	102.82	21.59	0.43
5400.00	0.80	336.98	5398.31	96.48	37.41	96.48	103.48	21.20	0.49
5500.00	0.87	314.52	5498.30	97.65	36.60	97.65	104.28	20.55	0.33
5600.00	0.74	320.94	5598.29	98.68	35.66	98.68	104.92	19.87	0.16
5700.00	0.87	321.69	5698.28	99.78	34.78	99.78	105.66	19.22	0.13

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	0.86	310.22	5798.27	100.86	33.74	100.86	106.35	18.50	0.17
5900.00	1.34	310.02	5898.25	102.09	32.27	102.09	107.07	17.54	0.49
6000.00	1.57	306.66	5998.21	103.66	30.27	103.66	107.99	16.28	0.24
6100.00	1.46	318.17	6098.18	105.43	28.33	105.43	109.17	15.04	0.32
6200.00	1.59	304.57	6198.15	107.16	26.34	107.16	110.35	13.81	0.38
6300.00	1.75	299.04	6298.10	108.69	23.87	108.69	111.28	12.38	0.23
6400.00	1.71	301.42	6398.06	110.20	21.26	110.20	112.24	10.92	0.08
6500.00	1.77	306.23	6498.01	111.90	18.74	111.90	113.46	9.51	0.16
6600.00	1.72	310.31	6597.96	113.78	16.35	113.78	114.95	8.17	0.14
6700.00	1.68	295.07	6697.92	115.37	13.87	115.37	116.20	6.86	0.45
6800.00	1.49	300.10	6797.88	116.64	11.42	116.64	117.20	5.59	0.24
6900.00	1.24	295.11	6897.85	117.75	9.32	117.75	118.12	4.53	0.28
7000.00	1.12	292.99	6997.83	118.59	7.44	118.59	118.83	3.59	0.12
7100.00	1.22	283.44	7097.81	119.22	5.51	119.22	119.35	2.65	0.22
7200.00	0.93	303.13	7197.80	119.91	3.80	119.91	119.97	1.82	0.46
7300.00	0.56	242.97	7297.79	120.13	2.68	120.13	120.16	1.28	0.81
7305.00	0.41	241.40	7302.79	120.11	2.65	120.11	120.14	1.26	3.06



Mewbourne Oil Company

EDDY COUNTY, NM (NAD27)

SECTION 2

Zircon 2 DA State #1H

Wellbore #1

Survey: Plan v. Actual

Standard Survey Report

17 April, 2013





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zircon 2 DA State #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 3453.0usft (Original Well Elev)
Site:	SECTION 2	MD Reference:	WELL @ 3453.0usft (Original Well Elev)
Well:	Zircon 2 DA State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan v. Actual	Database:	EDM 5000.1 Single User Db

Project	EDDY COUNTY, NM (NAD27), NM-EAST		
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 2			
Site Position:		Northing:	616,768.78 usft	Latitude:	32° 41' 43.017 N
From:	Map	Easting:	586,241.32 usft	Longitude:	104° 3' 10.783 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Zircon 2 DA State #1H					
Well Position	+N/-S	0.0 usft	Northing:	616,768.78 usft	Latitude:	32° 41' 43.017 N
	+E/-W	0.0 usft	Easting:	586,241.32 usft	Longitude:	104° 3' 10.783 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,433.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/21/2013	7.64	60.50	48,678

Design		Plan v. Actual			
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	91.29	

Survey Program	Date	4/17/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
7,419.0	12,462.0	Plan v. Actual (Wellbore #1)			

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)	
7,305.0	0.41	241.40	7,302.8	120.1	2.6	-0.1	0.00	0.00	0.00	
TI @ 7305 MD										
7,419.0	4.10	89.90	7,416.7	119.9	6.4	3.7	3.92	3.24	-132.89	
7,450.0	9.70	83.60	7,447.5	120.2	10.1	7.4	18.20	18.06	-20.32	
7,482.0	15.50	81.00	7,478.7	121.2	17.0	14.3	18.21	18.13	-8.13	
7,514.0	20.60	77.60	7,509.1	123.1	26.7	23.9	16.27	15.94	-10.63	
7,545.0	23.50	77.80	7,537.8	125.5	38.1	35.2	9.36	9.35	0.65	
7,577.0	25.90	79.70	7,566.9	128.1	51.2	48.3	7.90	7.50	5.94	
7,609.0	25.90	85.20	7,595.7	130.0	65.0	62.1	7.51	0.00	17.19	
7,641.0	27.20	88.50	7,624.3	130.8	79.3	76.4	6.14	4.06	10.31	
7,672.0	29.40	91.20	7,651.6	130.8	94.0	91.0	8.21	7.10	8.71	



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zircon 2 DA State #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 3453.0usft (Original Well Elev)
Site:	SECTION 2	MD Reference:	WELL @ 3453.0usft (Original Well Elev)
Well:	Zircon 2 DA State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan v. Actual	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)	
7,704.0	33.80	90.30	7,678.9	130.6	110.8	107.8	13.83	13.75	-2.81	
7,736.0	37.90	87.60	7,704.8	130.9	129.5	126.5	13.73	12.81	-8.44	
7,768.0	40.60	88.20	7,729.6	131.7	149.7	146.7	8.52	8.44	1.88	
7,800.0	44.10	92.90	7,753.2	131.4	171.3	168.3	14.74	10.94	14.69	
7,832.0	48.40	97.80	7,775.3	129.2	194.3	191.3	17.40	13.44	15.31	
7,864.0	51.30	101.20	7,796.0	125.2	218.4	215.5	12.17	9.06	10.63	
7,895.0	53.70	101.90	7,814.9	120.3	242.5	239.7	7.95	7.74	2.26	
7,927.0	55.80	99.60	7,833.3	115.4	268.1	265.5	8.80	6.56	-7.19	
7,959.0	57.90	95.90	7,850.8	111.8	294.7	292.1	11.69	6.56	-11.56	
7,991.0	61.30	91.20	7,867.0	110.1	322.2	319.7	16.53	10.63	-14.69	
8,023.0	66.60	90.30	7,881.1	109.7	350.9	348.4	16.75	16.56	-2.81	
8,054.0	72.90	91.00	7,891.8	109.4	380.0	377.5	20.43	20.32	2.26	
8,086.0	78.10	90.60	7,899.8	109.0	411.0	408.4	16.29	16.25	-1.25	
8,118.0	80.70	91.50	7,905.7	108.4	442.4	439.9	8.58	8.13	2.81	
8,145.0	82.00	92.00	7,909.8	107.6	469.1	466.6	5.15	4.81	1.85	
8,155.1	82.64	92.33	7,911.1	107.2	479.1	476.6	7.05	6.28	3.22	
LP Zircon 2 DA State #1H										
8,261.0	89.30	95.70	7,918.5	99.8	584.4	582.0	7.05	6.29	3.19	
8,292.0	89.20	95.90	7,919.0	96.7	615.3	612.9	0.72	-0.32	0.65	
8,324.0	88.40	95.90	7,919.6	93.4	647.1	644.8	2.50	-2.50	0.00	
8,355.0	87.80	96.30	7,920.7	90.1	677.9	675.7	2.33	-1.94	1.29	
8,387.0	87.40	96.60	7,922.0	86.5	709.7	707.5	1.56	-1.25	0.94	
8,418.0	87.20	96.10	7,923.5	83.1	740.4	738.4	1.74	-0.65	-1.61	
8,450.0	86.90	95.90	7,925.1	79.7	772.2	770.2	1.13	-0.94	-0.63	
8,482.0	86.40	95.40	7,927.0	76.6	804.0	802.1	2.21	-1.56	-1.56	
8,513.0	86.20	95.40	7,929.0	73.7	834.8	832.9	0.65	-0.65	0.00	
8,577.0	85.90	94.90	7,933.4	67.9	898.4	896.6	0.91	-0.47	-0.78	
8,609.0	86.00	94.50	7,935.6	65.3	930.2	928.5	1.29	0.31	-1.25	
8,640.0	86.40	94.20	7,937.7	63.0	961.0	959.4	1.61	1.29	-0.97	
8,672.0	87.50	93.30	7,939.4	60.9	992.9	991.3	4.44	3.44	-2.81	
8,703.0	88.20	92.70	7,940.6	59.3	1,023.9	1,022.3	2.97	2.26	-1.94	
8,735.0	88.10	92.40	7,941.6	57.9	1,055.8	1,054.2	0.99	-0.31	-0.94	
8,767.0	87.80	92.40	7,942.7	56.5	1,087.8	1,086.2	0.94	-0.94	0.00	
8,799.0	87.80	91.90	7,944.0	55.3	1,119.7	1,118.2	1.56	0.00	-1.56	
8,830.0	89.10	91.50	7,944.8	54.4	1,150.7	1,149.2	4.39	4.19	-1.29	
8,862.0	90.50	90.50	7,944.9	53.8	1,182.7	1,181.2	5.38	4.38	-3.13	
8,925.0	90.20	89.90	7,944.5	53.6	1,245.7	1,244.2	1.06	-0.48	-0.95	
8,988.0	90.00	89.20	7,944.4	54.1	1,308.7	1,307.1	1.16	-0.32	-1.11	
9,052.0	89.10	88.30	7,944.9	55.5	1,372.7	1,371.1	1.99	-1.41	-1.41	
9,115.0	89.00	88.30	7,946.0	57.4	1,435.6	1,434.0	0.16	-0.16	0.00	
9,178.0	91.90	90.50	7,945.5	58.0	1,498.6	1,496.9	5.78	4.60	3.49	
9,239.0	90.40	90.10	7,944.2	57.7	1,559.6	1,557.9	2.54	-2.46	-0.66	
9,303.0	90.00	92.20	7,944.0	56.4	1,623.6	1,621.9	3.34	-0.63	3.28	



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zircon 2 DA State #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 3453.0usft (Original Well Elev)
Site:	SECTION 2	MD Reference:	WELL @ 3453.0usft (Original Well Elev)
Well:	Zircon 2 DA State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan v. Actual	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)
9,366.0	89.30	92.40	7,944.4	53.9	1,686.5	1,684.9	1.16	-1.11	0.32
9,429.0	87.50	93.30	7,946.2	50.8	1,749.4	1,747.8	3.19	-2.86	1.43
9,492.0	86.70	93.10	7,949.4	47.3	1,812.2	1,810.7	1.31	-1.27	-0.32
9,555.0	85.00	92.90	7,953.9	44.0	1,875.0	1,873.5	2.72	-2.70	-0.32
9,618.0	87.90	93.20	7,957.8	40.6	1,937.8	1,936.4	4.63	4.60	0.48
9,681.0	89.20	92.00	7,959.4	37.8	2,000.7	1,999.3	2.81	2.06	-1.90
9,745.0	88.70	92.00	7,960.6	35.5	2,064.6	2,063.3	0.78	-0.78	0.00
9,808.0	87.80	91.90	7,962.5	33.4	2,127.6	2,126.3	1.44	-1.43	-0.16
9,871.0	87.60	92.60	7,965.0	30.9	2,190.5	2,189.2	1.15	-0.32	1.11
9,934.0	90.30	92.90	7,966.2	27.9	2,253.4	2,252.2	4.31	4.29	0.48
9,998.0	90.40	92.70	7,965.8	24.8	2,317.3	2,316.2	0.35	0.16	-0.31
10,061.0	89.50	93.10	7,965.9	21.6	2,380.2	2,379.1	1.56	-1.43	0.63
10,124.0	89.20	93.80	7,966.6	17.8	2,443.1	2,442.1	1.21	-0.48	1.11
10,188.0	88.90	93.80	7,967.6	13.6	2,507.0	2,506.0	0.47	-0.47	0.00
10,251.0	88.90	93.80	7,968.8	9.4	2,569.8	2,568.9	0.00	0.00	0.00
10,314.0	87.20	93.80	7,971.0	5.2	2,632.6	2,631.8	2.70	-2.70	0.00
10,377.0	85.90	94.00	7,974.8	0.9	2,695.4	2,694.7	2.09	-2.06	0.32
10,440.0	85.60	93.40	7,979.4	-3.1	2,758.1	2,757.4	1.06	-0.48	-0.95
10,504.0	86.00	92.70	7,984.1	-6.5	2,821.8	2,821.2	1.26	0.63	-1.09
10,567.0	86.60	92.00	7,988.2	-9.1	2,884.6	2,884.1	1.46	0.95	-1.11
10,630.0	87.10	91.90	7,991.7	-11.2	2,947.5	2,947.0	0.81	0.79	-0.16
10,693.0	88.50	92.40	7,994.1	-13.6	3,010.4	3,009.9	2.36	2.22	0.79
10,757.0	88.60	91.20	7,995.7	-15.6	3,074.3	3,073.9	1.88	0.16	-1.88
10,820.0	89.20	90.50	7,996.9	-16.5	3,137.3	3,136.9	1.46	0.95	-1.11
10,883.0	91.10	91.20	7,996.7	-17.5	3,200.3	3,199.9	3.21	3.02	1.11
10,947.0	89.70	92.00	7,996.3	-19.3	3,264.3	3,263.9	2.52	-2.19	1.25
11,010.0	89.60	93.30	7,996.7	-22.2	3,327.2	3,326.9	2.07	-0.16	2.06
11,072.0	87.30	90.80	7,998.4	-24.4	3,389.1	3,388.8	5.48	-3.71	-4.03
11,136.0	88.30	91.20	8,000.8	-25.5	3,453.1	3,452.8	1.68	1.56	0.63
11,199.0	88.00	90.80	8,002.8	-26.6	3,516.0	3,515.7	0.79	-0.48	-0.63
11,262.0	86.70	89.10	8,005.8	-26.6	3,579.0	3,578.7	3.39	-2.06	-2.70
11,325.0	89.30	90.30	8,008.0	-26.2	3,641.9	3,641.6	4.54	4.13	1.90
11,389.0	90.10	92.70	8,008.3	-27.9	3,705.9	3,705.6	3.95	1.25	3.75
11,452.0	89.50	93.60	8,008.5	-31.4	3,768.8	3,768.5	1.72	-0.95	1.43
11,515.0	88.30	92.90	8,009.7	-34.9	3,831.7	3,831.5	2.21	-1.90	-1.11
11,578.0	87.80	94.30	8,011.9	-38.9	3,894.5	3,894.4	2.36	-0.79	2.22
11,642.0	89.00	95.20	8,013.7	-44.2	3,958.3	3,958.3	2.34	1.88	1.41
11,705.0	91.20	95.00	8,013.5	-49.8	4,021.0	4,021.1	3.51	3.49	-0.32
11,768.0	90.00	95.00	8,012.9	-55.3	4,083.8	4,084.0	1.90	-1.90	0.00
11,831.0	87.70	93.30	8,014.1	-59.8	4,146.6	4,146.9	4.54	-3.65	-2.70
11,894.0	91.00	93.40	8,014.9	-63.5	4,209.5	4,209.8	5.24	5.24	0.16
11,958.0	91.90	93.40	8,013.2	-67.3	4,273.3	4,273.8	1.41	1.41	0.00
12,021.0	92.00	92.70	8,011.1	-70.7	4,336.2	4,336.7	1.12	0.16	-1.11



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zircon 2 DA State #1H
Project:	EDDY COUNTY, NM (NAD27)	TVD Reference:	WELL @ 3453.0usft (Original Well Elev)
Site:	SECTION 2	MD Reference:	WELL @ 3453.0usft (Original Well Elev)
Well:	Zircon 2 DA State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan v. Actual	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)
12,084.0	91.70	95.00	8,009.1	-74.9	4,399.0	4,399.6	3.68	-0.48	3.65
12,147.0	90.20	96.80	8,008.0	-81.4	4,461.7	4,462.4	3.72	-2.38	2.86
12,210.0	87.10	97.30	8,009.5	-89.1	4,524.2	4,525.0	4.98	-4.92	0.79
12,273.0	85.30	95.90	8,013.7	-96.3	4,586.6	4,587.6	3.62	-2.86	-2.22
12,336.0	83.00	94.50	8,020.1	-102.0	4,649.0	4,650.1	4.27	-3.65	-2.22
12,399.0	81.60	93.80	8,028.5	-106.5	4,711.3	4,712.5	2.48	-2.22	-1.11
12,462.0	81.60	93.80	8,037.7	-110.6	4,773.5	4,774.8	0.00	0.00	0.00
BHL @ 12462 MD - PBHL Zircon 2 DA State #1H									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,305.0	7,302.8	120.1	2.6	TI @ 7305 MD
12,462.0	8,037.7	-110.6	4,773.5	BHL @ 12462 MD

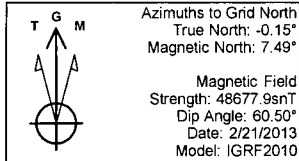
Checked By: _____ Approved By: _____ Date: _____



COMPANY: Mewbourne Oil Company
 WELL: Zircon 2 DA State #1H
 COUNTY: EDDY COUNTY, NM (NAD27)
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: PATTERSON 47
 GRID CORRECTION: 7.49° E



OFFICE: 936.582.7296 PLANNING: 214.784.3778



GEODETTIC ZONE: New Mexico East 3001						
WELL @ 3453.0usft (Original Well Elev)						
GROUND ELEVATION: 3433.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	616768.78	586241.32	32° 41' 43.017 N	104° 3' 10.783 W	

CRITICAL POINTS							
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure
8037.7	12462.0	81.60	93.80	-110.6	4773.5	4774.8	4782.3
							BHL @ 12462 MD

CREATED BY: BRANDON ESTES
 DATE: 21:26, April 17 2013
 PLAN: Plan v. Actual

