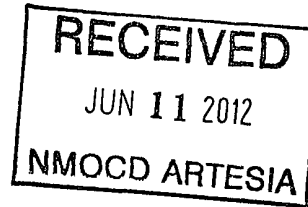


OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE ZIRCON 2 LI STATE 1H
COUNTY EDDY

STATE OF NEW MEXICO
DEVIATION REPORT

30-05-39929

290	0.69
503	0.77
750	0.85
1,250	0.79
1,506	0.35
1,853	2.00
2,048	2.00
2,144	2.00
2,204	2.25
2,299	2.00
2,425	1.25
2,675	1.50
2,936	1.00
3,189	1.00
3,592	0.75
3,884	1.50
4,238	1.20
4,581	1.80
4,898	0.87
5,246	1.04
5,594	1.21
5,897	1.50
6,162	1.50
6,512	1.94
6,861	0.79



STATE OF TEXAS

COUNTY OF MIDLAND

BY: Kyle Hollingsworth

Received

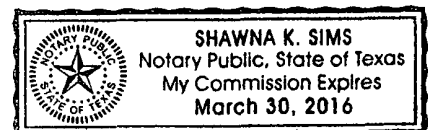
MAY 16

The foregoing instrument was acknowledged before me on
Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC.

5/14/12

Mewbourne Oil Company
by Hobbs

Shawna K. Sims
Notary Public for Midland County, Texas
My Commission Expires:





Company: Mewbourne Oil Company
Lease/Well: Zircon 2 LI State/No. 1H

Rig Name: Patterson 46
State/County: New Mexico/Eddy

Latitude: 32.69

GRID North is 0.15 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB = 20.5 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...on 2 li st 1h rate gyro_ed.ut

Minimum Curvature Method

Report Date/Time: 4/30/2012 / 12:13

Vaughn Energy Services

Midland, Texas

432-563-5444

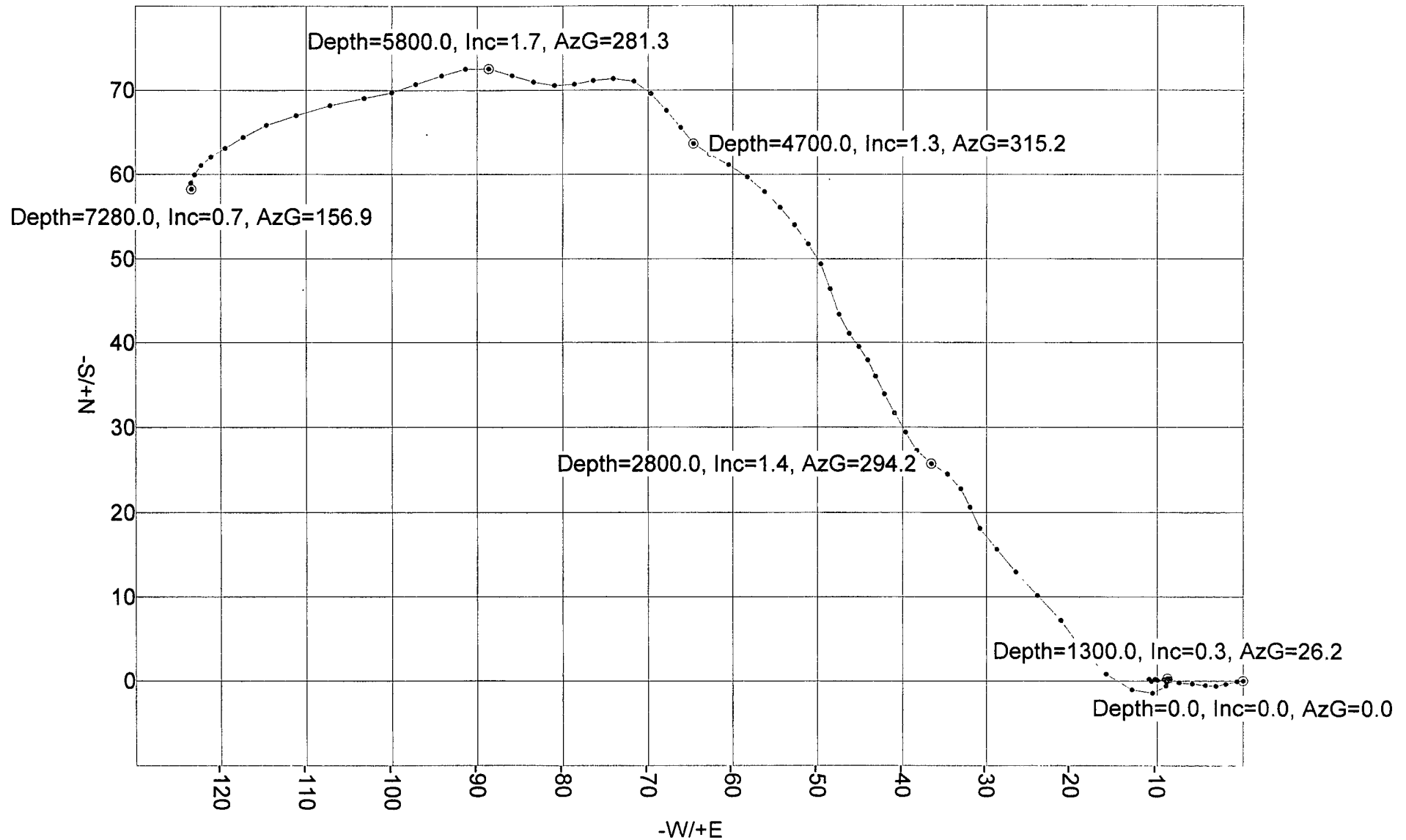
Surveyor: Troy Hardin

Zircon 2 LI State No. 1H / API 30-015-39929

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	0.83	264.98	100.00	-0.06	-0.72	-0.06	0.73	264.98	0.83
200.00	0.72	246.67	199.99	-0.38	-2.03	-0.38	2.06	259.46	0.27
300.00	0.64	270.58	299.98	-0.62	-3.17	-0.62	3.23	258.90	0.29
400.00	0.79	277.65	399.97	-0.52	-4.41	-0.52	4.44	263.22	0.17
500.00	0.97	276.06	499.96	-0.34	-5.93	-0.34	5.94	266.69	0.18
600.00	0.79	273.68	599.95	-0.21	-7.46	-0.21	7.46	268.38	0.18
700.00	0.85	273.71	699.94	-0.12	-8.88	-0.12	8.88	269.23	0.06
800.00	0.79	293.73	799.93	0.21	-10.25	0.21	10.25	271.16	0.29
900.00	0.29	193.28	899.93	0.24	-10.94	0.24	10.94	271.26	0.89
1000.00	0.36	97.56	999.92	-0.04	-10.68	-0.04	10.68	269.76	0.48
1100.00	0.51	65.11	1099.92	0.10	-9.97	0.10	9.97	270.58	0.28
1200.00	0.41	106.13	1199.92	0.19	-9.22	0.19	9.22	271.18	0.34
1300.00	0.26	26.22	1299.92	0.29	-8.78	0.29	8.78	271.91	0.44
1400.00	0.26	151.44	1399.92	0.30	-8.57	0.30	8.58	271.99	0.46
1500.00	0.99	216.44	1499.91	-0.59	-8.97	-0.59	8.99	266.24	0.91
1600.00	1.20	260.49	1599.89	-1.46	-10.52	-1.46	10.62	262.12	0.84
1700.00	1.69	293.68	1699.86	-1.04	-12.91	-1.04	12.95	265.41	0.95
1800.00	2.36	308.08	1799.80	0.83	-15.88	0.83	15.90	272.98	0.84

East Depth FT	North 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	2.41	324.96	1899.72	3.82	-18.71	3.82	19.09	281.53	0.70
2000.00	2.37	323.57	1999.63	7.20	-21.14	7.20	22.33	288.82	0.07
2100.00	2.33	309.66	2099.55	10.16	-23.93	10.16	26.00	293.01	0.57
2200.00	2.07	325.43	2199.47	12.95	-26.52	12.95	29.51	296.02	0.66
2300.00	1.98	314.39	2299.41	15.64	-28.78	15.64	32.75	298.52	0.40
2400.00	1.73	328.42	2399.36	18.13	-30.80	18.13	35.74	300.48	0.52
2500.00	1.44	343.15	2499.32	20.61	-31.95	20.61	38.02	302.83	0.50
2600.00	1.41	322.41	2599.29	22.79	-33.07	22.79	40.16	304.58	0.51
2700.00	1.27	311.19	2699.26	24.50	-34.65	24.50	42.44	305.26	0.30
2800.00	1.38	294.23	2799.24	25.72	-36.58	25.72	44.72	305.11	0.41
2900.00	1.42	329.34	2899.21	27.28	-38.31	27.28	47.03	305.45	0.84
3000.00	1.49	325.97	2999.18	29.42	-39.67	29.42	49.39	306.56	0.11
3100.00	1.52	332.57	3099.14	31.67	-41.01	31.67	51.82	307.68	0.17
3200.00	1.39	332.87	3199.11	33.92	-42.17	33.92	54.12	308.82	0.13
3300.00	1.28	335.29	3299.08	36.02	-43.19	36.02	56.23	309.83	0.12
3400.00	1.17	333.18	3399.06	37.94	-44.11	37.94	58.19	310.70	0.12
3500.00	1.02	319.82	3499.04	39.53	-45.15	39.53	60.01	311.20	0.29
3600.00	1.17	327.81	3599.03	41.07	-46.26	41.07	61.87	311.60	0.21
3700.00	1.80	335.33	3698.99	43.36	-47.46	43.36	64.29	312.41	0.66
3800.00	1.91	346.60	3798.94	46.41	-48.50	46.41	67.13	313.74	0.38
3900.00	1.74	332.27	3898.89	49.38	-49.60	49.38	69.99	314.87	0.49
4000.00	1.50	322.90	3998.85	51.77	-51.09	51.77	72.73	315.37	0.36
4100.00	1.69	325.49	4098.81	54.02	-52.72	54.02	75.48	315.70	0.20
4200.00	1.37	313.89	4198.77	56.07	-54.42	56.07	78.14	315.86	0.44
4300.00	1.61	317.07	4298.74	57.93	-56.24	57.93	80.74	315.85	0.26
4400.00	1.51	302.89	4398.70	59.68	-58.30	59.68	83.43	315.67	0.40
4500.00	1.52	304.31	4498.67	61.14	-60.50	61.14	86.01	315.30	0.04
4600.00	1.40	293.20	4598.64	62.36	-62.72	62.36	88.45	314.84	0.30
4700.00	1.29	315.21	4698.61	63.65	-64.64	63.65	90.72	314.56	0.53
4800.00	1.53	327.17	4798.58	65.57	-66.16	65.57	93.14	314.74	0.37
4900.00	1.53	312.32	4898.54	67.59	-67.87	67.59	95.78	314.88	0.40
5000.00	1.57	322.49	4998.51	69.58	-69.69	69.58	98.48	314.95	0.28
5100.00	1.41	287.83	5098.48	71.04	-71.70	71.04	100.94	314.74	0.90
5200.00	1.45	266.83	5198.45	71.35	-74.14	71.35	102.90	313.90	0.52
5300.00	1.23	261.43	5298.42	71.12	-76.46	71.12	104.43	312.93	0.26
5400.00	1.34	255.59	5398.39	70.67	-78.65	70.67	105.74	311.94	0.17
5500.00	1.41	278.52	5498.36	70.56	-81.00	70.56	107.42	311.06	0.55
5600.00	1.41	279.80	5598.33	70.95	-83.43	70.95	109.52	310.38	0.03
5700.00	1.61	293.14	5698.30	71.71	-85.93	71.71	111.92	309.85	0.40

Depth FT	Angle Deg	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	1.69	281.27	5798.26	72.55	-88.67	72.55	114.57	309.29	0.35
5900.00	1.52	255.52	5898.22	72.51	-91.40	72.51	116.67	308.43	0.73
6000.00	1.83	252.21	5998.18	71.69	-94.20	71.69	118.38	307.27	0.33
6100.00	1.84	251.62	6098.13	70.70	-97.24	70.70	120.23	306.02	0.02
6200.00	1.57	248.98	6198.08	69.70	-100.05	69.70	121.93	304.86	0.28
6300.00	2.25	265.11	6298.03	69.04	-103.28	69.04	124.23	303.76	0.86
6400.00	2.45	250.94	6397.94	68.18	-107.25	68.18	127.09	302.44	0.61
6500.00	2.29	255.79	6497.86	66.99	-111.21	66.99	129.82	301.06	0.25
6600.00	1.91	246.29	6597.79	65.83	-114.67	65.83	132.22	299.86	0.52
6700.00	1.62	236.38	6697.74	64.38	-117.37	64.38	133.87	298.74	0.42
6800.00	1.23	240.97	6797.71	63.07	-119.49	63.07	135.11	297.83	0.40
6900.00	0.99	235.37	6897.69	62.06	-121.14	62.06	136.11	297.12	0.26
7000.00	0.79	221.61	6997.68	61.05	-122.31	61.05	136.70	296.53	0.30
7100.00	0.80	207.15	7097.67	59.92	-123.09	59.92	136.90	295.96	0.20
7200.00	0.45	199.01	7197.67	58.93	-123.53	58.93	136.87	295.50	0.36
7280.00	0.65	156.88	7277.66	58.21	-123.46	58.21	136.49	295.25	0.55



Mewbourne Oil Co

Eddy County, New Mexico

Section 2 - 19S-29E

Zircon 2 LI State #1H

Wellbore #1

Survey: MWD

DDC Survey Report

07 May, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Zircon 2 LI State #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3385 + 20' LB @ 3405.0usft (Patterson #46)
Site:	Section 2 - 19S-29E	MD Reference:	GL 3385 + 20' LB @ 3405.0usft (Patterson #46)
Well:	Zircon 2 LI State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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 2 - 19S-29E			
Site Position:		Northing:	614,067.93 usft	Latitude:	32° 41' 16.287 N
From:	Map	Easting:	586,389.19 usft	Longitude:	104° 3' 9.136 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well:	Zircon 2 LI State #1H					
Well Position	+N/-S	0.0 usft	Northing:	614,067.93 usf	Latitude:	32° 41' 16.287 N
	+E/-W	0.0 usft	Easting:	586,389.19 usf	Longitude:	104° 3' 9.136 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usf	Ground Level:	3,385.0 usf

Wellbore:	Wellbore #1
------------------	-------------

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2/23/2012	7.76	60.52	48,773

Design:	Wellbore #1
----------------	-------------

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	88.57

Survey Program		Date 5/7/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,280.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
7,380.0	12,504.0	MWD (Wellbore #1)	MWD default	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)
Tie In @ 7280' MD / 7278' TVD										
	7,280.0	0.65	156.88	7,277.7	58.2	-123.5	-122.0	0.00	0.00	0.00
	7,380.0	1.10	118.30	7,377.7	57.2	-122.4	-120.9	0.72	0.45	-38.58
	7,412.0	1.10	130.60	7,409.6	56.9	-121.9	-120.4	0.74	0.00	38.44
	7,444.0	0.80	135.40	7,441.6	56.5	-121.5	-120.1	0.97	-0.94	15.00
	7,475.0	1.30	123.70	7,472.6	56.2	-121.1	-119.6	1.75	1.61	-37.74
	7,507.0	3.70	98.90	7,504.6	55.8	-119.7	-118.3	8.06	7.50	-77.50
	7,539.0	7.00	92.30	7,536.5	55.6	-116.8	-115.4	10.47	10.31	-20.63
	7,570.0	10.60	90.70	7,567.1	55.5	-112.0	-110.6	11.64	11.61	-5.16
	7,602.0	14.60	89.20	7,598.3	55.5	-105.1	-103.6	12.54	12.50	-4.69

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Zircon 2 LI State #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3385 + 20' LB @ 3405.0usft (Patterson #46)
Site:	Section 2 - 19S-29E	MD Reference:	GL 3385 + 20' LB @ 3405.0usft (Patterson #46)
Well:	Zircon 2 LI State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
7,634.0	17.80	88.40	7,629.0	55.7	-96.1	-94.7	10.02	10.00	-2.50
7,666.0	20.90	89.20	7,659.2	55.9	-85.5	-84.1	9.72	9.69	2.50
7,697.0	24.20	91.10	7,687.9	55.9	-73.7	-72.2	10.90	10.65	6.13
7,729.0	27.60	91.60	7,716.6	55.5	-59.7	-58.3	10.65	10.63	1.56
7,761.0	31.00	91.80	7,744.5	55.1	-44.0	-42.6	10.63	10.63	0.63
7,792.0	34.60	90.80	7,770.6	54.7	-27.2	-25.9	11.74	11.61	-3.23
7,824.0	38.60	89.90	7,796.3	54.6	-8.2	-6.8	12.61	12.50	-2.81
7,855.0	42.60	88.50	7,819.8	54.9	12.0	13.4	13.23	12.90	-4.52
Crossed Hard Line @ 7865' MD / 7827' TVD									
7,865.0	43.72	88.08	7,827.1	55.1	18.8	20.2	11.60	11.23	-4.24
7,887.0	46.20	87.20	7,842.7	55.7	34.4	35.7	11.60	11.26	-3.98
7,919.0	49.90	86.70	7,864.1	57.0	58.1	59.5	11.62	11.56	-1.56
7,950.0	53.60	87.00	7,883.2	58.3	82.4	83.9	11.96	11.94	0.97
7,982.0	57.60	87.10	7,901.3	59.7	108.8	110.2	12.50	12.50	0.31
8,014.0	61.50	88.90	7,917.5	60.6	136.4	137.8	13.12	12.19	5.63
8,046.0	66.40	88.90	7,931.6	61.2	165.1	166.6	15.31	15.31	0.00
8,077.0	72.00	89.10	7,942.6	61.7	194.1	195.5	18.07	18.06	0.65
8,113.0	78.40	88.90	7,951.8	62.3	228.8	230.3	17.79	17.78	-0.56
8,172.0	85.80	89.10	7,959.9	63.3	287.2	288.7	12.55	12.54	0.34
8,203.0	86.60	93.30	7,961.9	62.7	318.1	319.6	13.76	2.58	13.55
8,234.0	87.70	88.90	7,963.5	62.1	349.1	350.5	14.61	3.55	-14.19
8,266.0	87.90	88.80	7,964.7	62.7	381.1	382.5	0.70	0.63	-0.31
8,298.0	89.10	88.60	7,965.5	63.4	413.0	414.5	3.80	3.75	-0.63
8,330.0	89.20	88.00	7,966.0	64.4	445.0	446.5	1.90	0.31	-1.88
8,362.0	89.20	87.40	7,966.5	65.7	477.0	478.5	1.87	0.00	-1.88
8,393.0	89.50	87.20	7,966.8	67.1	508.0	509.5	1.16	0.97	-0.65
8,425.0	89.20	88.20	7,967.2	68.4	539.9	541.5	3.26	-0.94	3.13
8,457.0	89.10	88.40	7,967.7	69.4	571.9	573.5	0.70	-0.31	0.63
8,489.0	89.00	90.10	7,968.2	69.8	603.9	605.5	5.32	-0.31	5.31
8,553.0	88.80	89.30	7,969.4	70.1	667.9	669.4	1.29	-0.31	-1.25
8,616.0	88.60	89.50	7,970.8	70.8	730.9	732.4	0.45	-0.32	0.32
8,680.0	87.90	89.30	7,972.8	71.5	794.8	796.4	1.14	-1.09	-0.31
8,743.0	88.70	90.20	7,974.7	71.7	857.8	859.3	1.91	1.27	1.43
8,807.0	88.80	90.30	7,976.1	71.4	921.8	923.3	0.22	0.16	0.16
8,871.0	88.40	90.10	7,977.6	71.2	985.8	987.2	0.70	-0.63	-0.31
8,934.0	88.40	89.30	7,979.4	71.6	1,048.7	1,050.2	1.27	0.00	-1.27
8,997.0	88.30	89.00	7,981.2	72.5	1,111.7	1,113.2	0.50	-0.16	-0.48
9,061.0	88.40	88.80	7,983.0	73.7	1,175.7	1,177.2	0.35	0.16	-0.31
9,124.0	88.40	88.00	7,984.8	75.5	1,238.6	1,240.1	1.27	0.00	-1.27
9,187.0	88.40	89.00	7,986.6	77.1	1,301.6	1,303.1	1.59	0.00	1.59
9,251.0	88.20	89.50	7,988.5	78.0	1,365.5	1,367.1	0.84	-0.31	0.78
9,314.0	88.00	88.70	7,990.6	79.0	1,428.5	1,430.0	1.31	-0.32	-1.27
9,378.0	88.40	90.30	7,992.6	79.5	1,492.5	1,494.0	2.58	0.63	2.50

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Zircon 2 LI State #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3385 + 20' LB @ 3405.0usft (Patterson #46)
Site:	Section 2 - 19S-29E	MD Reference:	GL 3385 + 20' LB @ 3405.0usft (Patterson #46)
Well:	Zircon 2 LI State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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)
9,441.0	88.50	89.80	7,994.3	79.5	1,555.4	1,556.9	0.81	0.16	-0.79
9,505.0	88.30	89.30	7,996.1	80.0	1,619.4	1,620.9	0.84	-0.31	-0.78
9,568.0	88.40	87.90	7,997.9	81.5	1,682.4	1,683.9	2.23	0.16	-2.22
9,632.0	88.90	89.30	7,999.4	83.1	1,746.3	1,747.9	2.32	0.78	2.19
9,695.0	88.10	90.60	8,001.0	83.1	1,809.3	1,810.8	2.42	-1.27	2.06
9,758.0	87.50	89.60	8,003.4	83.0	1,872.3	1,873.7	1.85	-0.95	-1.59
9,821.0	88.00	90.00	8,005.9	83.2	1,935.2	1,936.7	1.02	0.79	0.63
9,885.0	88.00	91.20	8,008.1	82.6	1,999.2	2,000.6	1.87	0.00	1.88
9,948.0	88.10	91.80	8,010.3	80.9	2,062.1	2,063.5	0.96	0.16	0.95
10,012.0	87.50	91.50	8,012.7	79.1	2,126.0	2,127.3	1.05	-0.94	-0.47
10,075.0	88.20	91.40	8,015.1	77.5	2,189.0	2,190.2	1.12	1.11	-0.16
10,138.0	88.00	91.40	8,017.2	75.9	2,251.9	2,253.1	0.32	-0.32	0.00
10,202.0	88.70	91.90	8,019.0	74.1	2,315.9	2,317.0	1.34	1.09	0.78
10,265.0	88.70	91.40	8,020.5	72.3	2,378.8	2,379.9	0.79	0.00	-0.79
10,329.0	88.40	90.00	8,022.1	71.5	2,442.8	2,443.8	2.24	-0.47	-2.19
10,393.0	88.00	89.30	8,024.1	71.9	2,506.8	2,507.8	1.26	-0.63	-1.09
10,457.0	88.80	90.10	8,025.9	72.2	2,570.7	2,571.7	1.77	1.25	1.25
10,520.0	88.80	89.60	8,027.2	72.4	2,633.7	2,634.7	0.79	0.00	-0.79
10,584.0	88.70	89.30	8,028.6	73.0	2,697.7	2,698.7	0.49	-0.16	-0.47
10,648.0	88.20	88.70	8,030.3	74.1	2,761.7	2,762.7	1.22	-0.78	-0.94
10,711.0	87.90	88.20	8,032.5	75.8	2,824.6	2,825.6	0.93	-0.48	-0.79
10,774.0	87.80	87.10	8,034.8	78.4	2,887.5	2,888.6	1.75	-0.16	-1.75
10,838.0	88.30	89.00	8,037.0	80.6	2,951.4	2,952.5	3.07	0.78	2.97
10,902.0	89.00	91.30	8,038.5	80.4	3,015.4	3,016.5	3.76	1.09	3.59
10,965.0	89.10	90.80	8,039.6	79.3	3,078.4	3,079.4	0.81	0.16	-0.79
11,028.0	88.70	90.20	8,040.8	78.7	3,141.4	3,142.4	1.14	-0.63	-0.95
11,092.0	88.80	89.20	8,042.2	79.0	3,205.4	3,206.3	1.57	0.16	-1.56
11,154.0	88.00	89.00	8,043.9	80.0	3,267.3	3,268.3	1.33	-1.29	-0.32
11,218.0	87.60	88.00	8,046.4	81.7	3,331.3	3,332.3	1.68	-0.63	-1.56
11,281.0	87.50	87.10	8,049.1	84.4	3,394.1	3,395.2	1.44	-0.16	-1.43
11,345.0	88.30	88.10	8,051.4	87.1	3,458.0	3,459.1	2.00	1.25	1.56
11,409.0	88.50	88.00	8,053.2	89.2	3,522.0	3,523.1	0.35	0.31	-0.16
11,472.0	88.40	87.50	8,054.9	91.7	3,584.9	3,586.1	0.81	-0.16	-0.79
11,536.0	88.30	87.80	8,056.7	94.3	3,648.8	3,650.0	0.49	-0.16	0.47
11,600.0	87.90	90.20	8,058.9	95.4	3,712.8	3,714.0	3.80	-0.63	3.75
11,663.0	88.00	90.70	8,061.1	95.0	3,775.7	3,776.9	0.81	0.16	0.79
11,726.0	87.70	89.60	8,063.5	94.8	3,838.7	3,839.9	1.81	-0.48	-1.75
11,790.0	88.00	88.90	8,065.9	95.6	3,902.6	3,903.8	1.19	0.47	-1.09
11,853.0	88.00	89.20	8,068.1	96.7	3,965.6	3,966.8	0.48	0.00	0.48
11,916.0	87.80	88.20	8,070.4	98.1	4,028.5	4,029.7	1.62	-0.32	-1.59
11,979.0	88.30	90.40	8,072.5	98.9	4,091.5	4,092.7	3.58	0.79	3.49
12,042.0	88.80	84.40	8,074.1	101.7	4,154.4	4,155.6	9.55	0.79	-9.52
12,074.0	88.80	89.00	8,074.8	103.6	4,186.3	4,187.6	14.37	0.00	14.38
12,106.0	87.70	90.90	8,075.8	103.6	4,218.3	4,219.6	6.86	-3.44	5.94

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Zircon 2 LI State #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3385 + 20' LB @ 3405.0usft (Patterson #46)
Site:	Section 2 - 19S-29E	MD Reference:	GL 3385 + 20' LB @ 3405.0usft (Patterson #46)
Well:	Zircon 2 LI State #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
12,169.0	87.00	91.00	8,078.7	102.5	4,281.2	4,282.4	1.12	-1.11	0.16
12,232.0	88.10	90.10	8,081.4	101.9	4,344.1	4,345.3	2.26	1.75	-1.43
12,296.0	88.00	89.40	8,083.6	102.2	4,408.1	4,409.3	1.10	-0.16	-1.09
12,359.0	86.90	87.80	8,086.4	103.8	4,471.0	4,472.2	3.08	-1.75	-2.54
12,422.0	87.70	87.50	8,089.3	106.3	4,533.9	4,535.1	1.36	1.27	-0.48
12,453.0	87.80	87.20	8,090.5	107.8	4,564.8	4,566.1	1.02	0.32	-0.97
TD @ 12504' MD / 8093' TVD									
12,504.0	87.80	87.20	8,092.5	110.3	4,615.7	4,617.1	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,280.0	7,277.7	58.2	-123.5	Tie In @ 7280' MD / 7278' TVD
7,865.0	7,827.1	55.1	18.8	Crossed Hard Line @ 7865' MD / 7827' TVD
12,504.0	8,092.5	110.3	4,615.7	TD @ 12504' MD / 8093' TVD

Checked By: _____ Approved By: _____ Date: _____

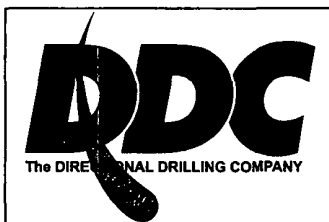
Company Name: Mewbourne Oil Co
Zircon 2 LI State #1H
Eddy County, New Mexico
Rig: Patterson #46
Created By: Dina Chance
Date: 5/7/2012

Zircon 2 LI State #1H
Eddy County, New Mexico
Q120151 & WT-12275

WELL DETAILS Zircon 2 LI State #1H

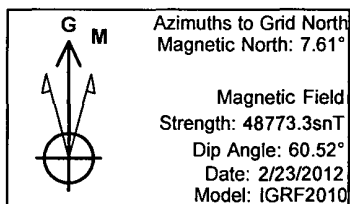
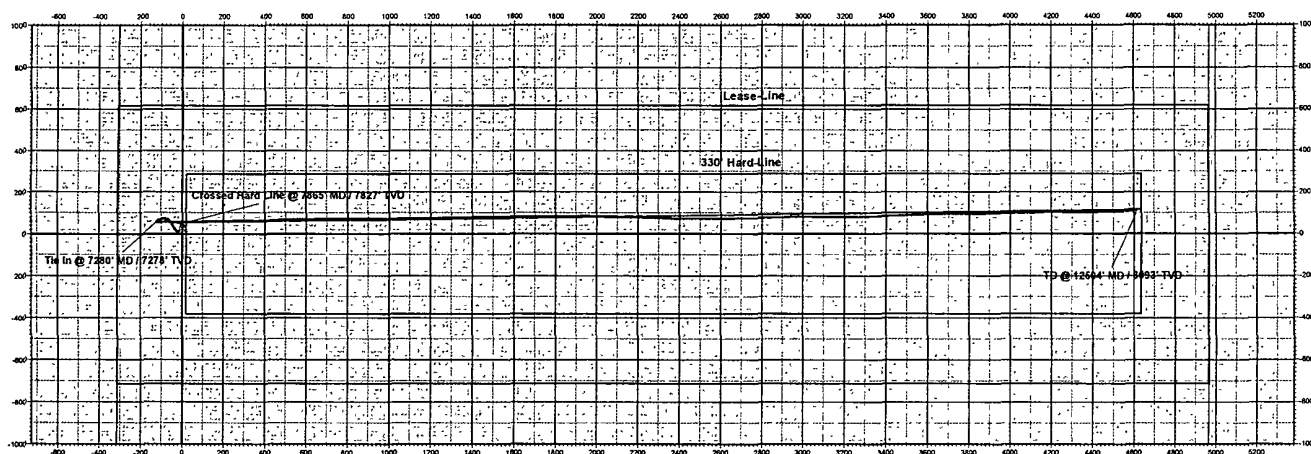
Ground Level		3385.0			
+N-S	+E-W	Northing	Eastings	Latitude	Longitude
0.0	0.0	614067.92	586389.19	32° 41' 16.287" N	104° 3' 9.136" W

Mewbourne Oil Company



PROJECT DETAILS Eddy County, New Mexico

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Mean Sea Level
System Datum: New Mexico East 3001

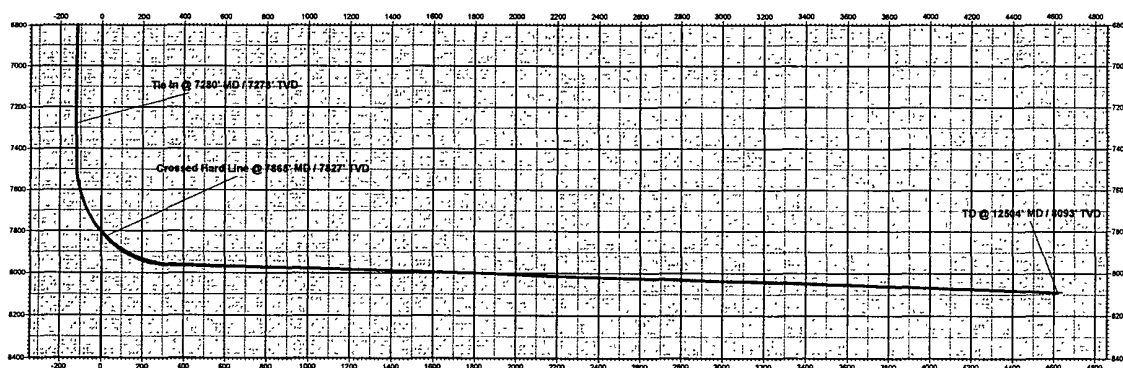


DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Eastings	Latitude	Longitude
Zircon 2 LI State #1H PBHL - plan hits target center	8090.0	116.6	4638.6	614183.47	591025.80	32° 41' 17.306" N	104° 2' 14.879" W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	V-Sect	Departure	Annotation
7280.0	0.65	164.88	7277.7	68.2	-123.5	-122.0	172.5	Tie In @ 7280' MD / 7278' TVD
7865.0	43.72	88.08	7827.1	85.1	18.8	20.2	315.9	Crossed Hard Line @ 7865' MD / 7827' TVD
12504.0	87.80	87.20	8092.5	110.3	4815.7	4617.1	4914.1	TD @ 12504' MD / 8093' TVD



Vertical Section at 88.57° (200 usf/m)