

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

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-39929

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

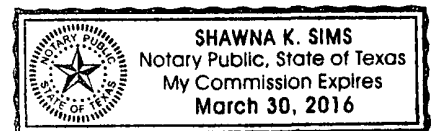
MAY 16 2012

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

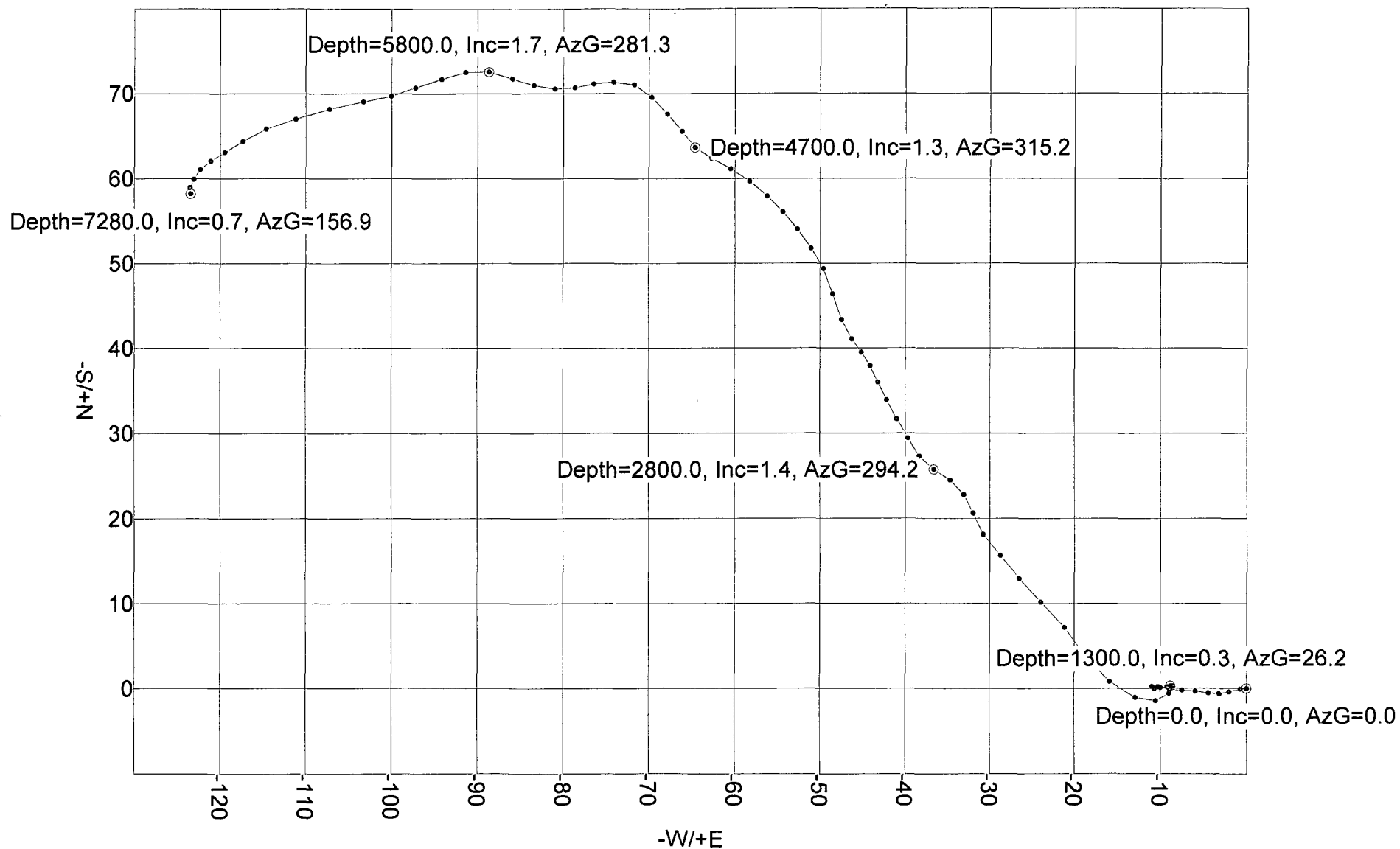
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.83	264.98	100.00	-0.06	-0.72	-0.06	0.73	264.98	0.83
200.00	0.72	246.67	199.99	-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

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	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

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	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



Vaughn Energy Services
Midland, Texas
432-563-5444
Surveyor: Troy Hardin
Zircon 2 LI State No. 1H / API 30-015-39929



VES Survey Date: 04/22/2012

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
From:	Map	Easting:	586,389.19 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 16.287 N
		Longitude:	104° 3' 9.136 W
		Grid Convergence:	0 15 °

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

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	2/23/2012	7.76
			Dip Angle (°) 60.52
			Field Strength (nT) 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)
	0.0	0.0	0.0
			Direction (°) 88.57

Survey Program	Date 5/7/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	7,280.0	GYRO (Wellbore #1)	Good_gyro
7,380.0	12,504.0	MWD (Wellbore #1)	MWD default
			Description
			Good Gyro
			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

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)
7,634.0	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
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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

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)
12,169.0	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

Survey Annotations				
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: _____
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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

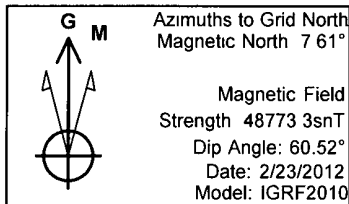
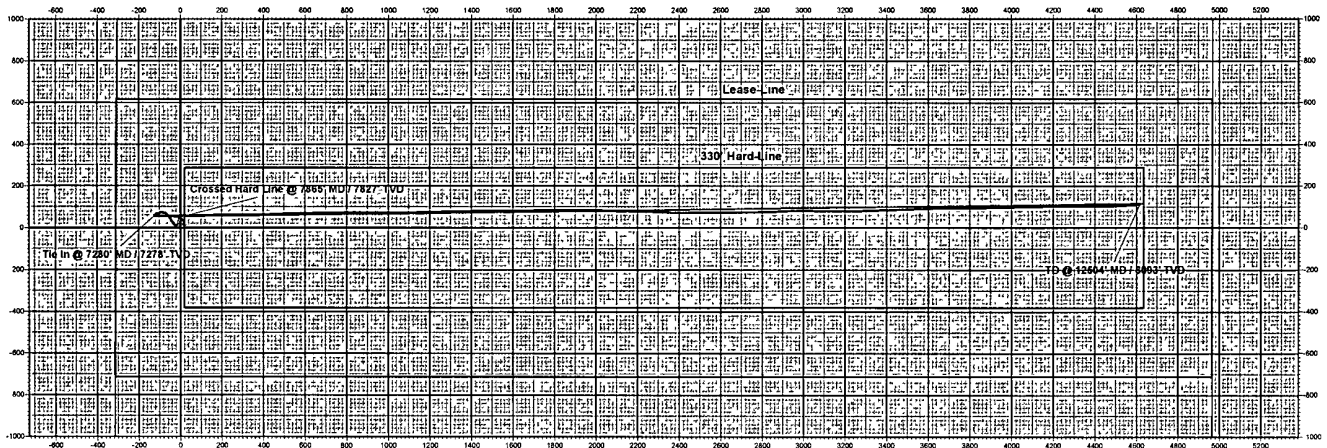
+N/-S	+E/-W	Ground Level	3385 0	Latitude	Longitude
0 0	0 0	614067 92	586389 19	32° 41' 16 287 N	104° 3' 9 136 W

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

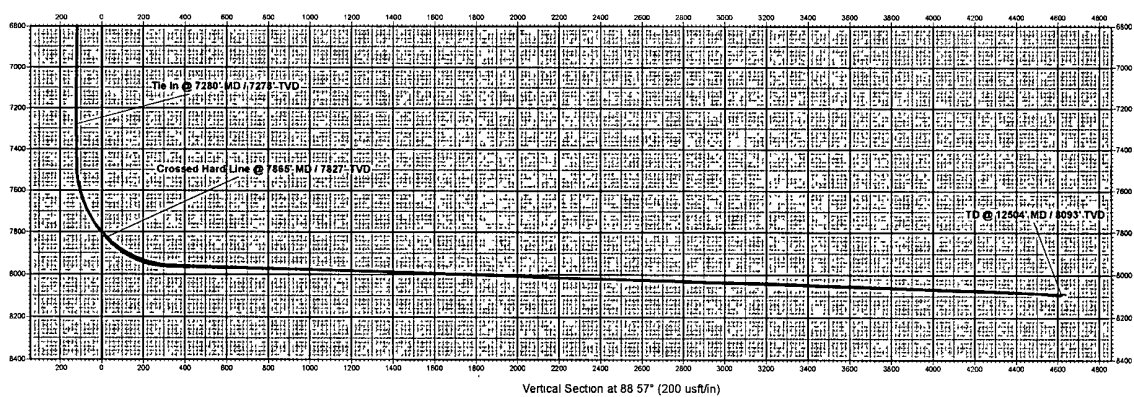


DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Zircon 2 LI State #1H PSHL	8090 0	115 6	4636 6	614183 47	591025 90	32° 41' 17 305 N	104° 2' 14 979 W
- plan hits target center							

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7280 0	0 65	156 88	7277 7	88 2	-123 6	-122 0	172 6	Tie In @ 7280 MD / 7278 TVD
7885 0	43 72	88 08	7827 1	68 1	18 8	30 3	316 9	Crossed Hard Line @ 7885 MD / 7827 TVD
12504 0	87 80	87 20	8092 5	110 3	4616 7	4617 1	4914 1	TD @ 12504 MD / 8093 TVD



		Do It Once. Do It Right		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Completion	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 8-May-12			
Well Name Zircon 2 LI State #1H		Type of Installation 19-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM			
Depth	Drawing	Description	OD(in)	ID(in)	Length		
REV_		Page 1 of 3					
KOP 7507'			***Drillable FracPORT's to be shipped without handling pups***				
TOL 7937.14'							
7" Shoe 8165'	Latched Seal Assembly 7" 23-32 ppf x 3.875" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer PN: 108425-000004 (Shear Pins: 2 @ 482 plus 1 @ 241 : 1,205 psi setting pressure) SF Bottom Guide		5.875"	4.750			
	7" 26# P-110 LT&C Casing		5.850"	3.850	9.44		
	4-1/2" 13.50# P-110 LTC LINER JOINTS: 8		4.500"	3.92"	306.48		
Stage 19 EA1028422 8253.06' 308.74BBLS	Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball PN: 121332-000023 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		5.630"	3.500	2.65		
	6' x 4-1/2" 13.50# P-110 LTC Pup Joint		4.500"	3.92"	115.70		
SNU0009331 8377.44'	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure) 3' x 4-1/2" 13.50# P-110 LTC Pup Joint		4.500"	3.92"	6.03		
	4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		5.750"	3.875	5.25		
Stage 18 EA1031346 8501.26' 312.46BBLS	Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball PN: 121332-000022 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		4.500"	3.92"	3.02		
	6' x 4-1/2" 13.50# P-110 LTC Pup Joint		4.500"	3.92"	115.55		
SNU0008975 8625.80'	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure) 3' x 4-1/2" 13.50# P-110 LTC Pup Joint		5.630"	3.375	2.65		
	4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		4.500"	3.92"	115.84		
Stage 17 EA1032123 8749.01' 316.18BBLS	Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball PN: 121332-000021 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		4.500"	3.92"	6.05		
	6' x 4-1/2" 13.50# P-110 LTC Pup Joint		4.500"	3.92"	115.09		
SNU0008963 8872.83'	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure) 3' x 4-1/2" 13.50# P-110 LTC Pup Joint		5.750"	3.875	5.25		
	4-1/2" 13.50# P-110 LTC LINER JOINTS: 2		4.500"	3.92"	3.06		
Stage 16 EA1029923 8957.79' 319.31BBLS	Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball PN: 121332-000020 (5 shear pins at 314 psi each: 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3		4.500"	3.92"	76.65		
	6' x 4-1/2" 13.50# P-110 LTC Pup Joint		5.630"	3.125	2.65		
SNU0009345 9082.36'	Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure) 3' x 4-1/2" 13.50# P-110 LTC Pup Joint		4.500"	3.92"	115.88		
	4-1/2" 13.50# P-110 LTC LINER JOINTS: 2		4.500"	3.92"	6.04		
			5.750"	3.875	5.25		
			4.500"	3.92"	2.99		
			4.500"	3.92"	76.64		
Service Center Midland, TX		Telephone 432-563-8024		Contact Scott Mabry		Telephone Chad Williams 405-255-3223	

		<i>Do It Once. Do It Right.</i>		Confidential Information - not to be disclosed outside Mewbourne Oil Company		Final Completion	
Prepared for Mr. Mickey Young		Company Mewbourne Oil Company		Date 8-May-12			
Well Name Zircon 2 LI State #1H		Type of Installation 19-Stage 4-1/2" StackFRAC® HD		Location Eddy County, NM			
Depth	Drawing	Description	OD(in)	ID(in)	Length		
			Page 2 of 3				
Stage 15 EA1029475 9167.24' 322.45BBLs SNU0009001 9291.56' Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball PN: 121332-000019 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 5 630" 3.000 3.840 4 500" 3 92" 115 59 4.500" 3 92" 6 08 5 750" 3.875 5 25							
Stage 14 EA1030913 9414.97' 326.17BBLs SNU0009004 9537.27' Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball PN: 121332-000018 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 4 500" 3 92" 115 18 4 500" 2.875 2 65 4 500" 3 92" 113 87 4 500" 3 92" 5 78 5.750" 3.875 5 25							
Stage 13 EA1030114 9661.08' 329.86BBLs SNU0009245 9785.58' Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball PN: 121332-000017 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2 4 500" 3 92" 115 55 4 500" 2.750 2 65 4 500" 3 92" 115 81 4 500" 3 92" 6 04 5.750" 3.875 5 25							
Stage 12 EA1028718 9870.54' 333.00BBLs SNU0009320 9994.84' Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball PN: 121332-000016 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2 4 500" 3 92" 76 66 5 630" 2.625 2 65 4 500" 3 92" 115 59 4 500" 3 92" 6 06 5.750" 3.875 5 25							
Stage 11 EA1031249 10079.24' 336.13BBLs SNU0009242 10203.26' Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball PN: 121332-000015 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 2 4 500" 3 92" 76 13 5 630" 2.500 2 65 4 500" 3 92" 115 35 4 500" 3 92" 6 02 5.750" 3.875 5 25							
Stage 10 EA1030257 10288.05' 339.26BBLs SNU0009243 10411.41' Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball PN: 121332-000014 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 4 500" 3 92" 114 64 4 500" 3 92" 6 07 5.750" 3.875 5 25 4 500" 3 92" 3 03 4 500" 3 92" 76 51 5 630" 2.375 2 65							
Stage 9 EA1030190 10532.29' 342.93BBLs SNU0008998 10653.80' Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball PN: 121332-000013 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 6' x 4-1/2" 13 50# P-110 LTC Pup Joint Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure) 3' x 4-1/2" 13 50# P-110 LTC Pup Joint 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 4 500" 3 92" 112 82 4 500" 3 92" 6 04 5.750" 3.875 5 25 4 500" 3 92" 2 99 4 500" 3 92" 114 09 5 630" 2.250 2 65							
Stage 8 EA1031066 10776.13' 346.58BBLs Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball PN: 121332-000012 (5 shear pins at 314 psi each; 1,570 psi opening pressure) 4-1/2" 13.50# P-110 LTC LINER JOINTS: 3 4 500" 3 92" 110 67 5 630" 2.125 2 65 4 500" 3 92" 3 840							
Service Center Midland, TX		Telephone 432-563-8024		Contact Scott Mabry		Telephone Chad Williams 405-255-3223	



Do It Once.
Do It Right

Confidential Information - not to be disclosed
outside Mewbourne Oil Company

Final
Completion

Prepared for		Company	Date		
Mr. Mickey Young		Mewbourne Oil Company	8-May-12		
Well Name		Type of Installation	Location		
Zircon 2 LI State #1H		19-Stage 4-1/2" StackFRAC® HD	Eddy County, NM		
Depth	Drawing	Description	OD(in)	ID(in)	Length
REV_					
Page 3 of 3					
SNU0008990 10895.52'		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	6 07
		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	5 750"	3.875	5 25
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 01
		4-1/2" 13.50# P-110 LTC LINER	4 500"	3 92"	111 89
Stage 7		Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball JOINTS: 3	5 630"	2.000	2 65
EA1031062 11015.67'		PN: 121332-000011 (5 shear pins at 314 psi each: 1,570 psi opening pressure)		3.840	
		4-1/2" 13.50# P-110 LTC LINER	4 500"	3 92"	114 76
350.18BBLS		JOINTS: 3	4 500"	3 92"	6 08
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	5 750"	3.875	5 25
SNU0009343 11139.16'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	4 500"	3 92"	3 06
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	110 58
		4-1/2" 13.50# P-110 LTC LINER	5 630"	1.875	2 65
Stage 6		Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball JOINTS: 3		3.840	
EA1032154 11258.05'		PN: 121332-000010 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	4 500"	3 92"	113 68
		4-1/2" 13.50# P-110 LTC LINER	4 500"	3 92"	6 00
353.18BBLS		JOINTS: 3	5 750"	3.875	5 25
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 09
SNU0009009 11380.38'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	4 500"	3 92"	114 17
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	5 630"	1.750	2 65
		4-1/2" 13.50# P-110 LTC LINER		3.840	
Stage 5		Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball JOINTS: 3	4 500"	3 92"	113 92
EA1028677 11502.89'		PN: 121332-000009 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	4 500"	3 92"	6 02
		4-1/2" 13.50# P-110 LTC LINER	5 750"	3.875	5 25
357.49BBLS		JOINTS: 3			
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 09
SNU0009177 11625.48'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	4 500"	3 92"	114 00
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	5 630"	1.625	2 65
		4-1/2" 13.50# P-110 LTC LINER		3.840	
Stage 4		Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball JOINTS: 3	4 500"	3 92"	114 57
EA1032403 11747.82'		PN: 121332-000008 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	4 500"	3 92"	6 01
		4-1/2" 13.50# P-110 LTC LINER	5 750"	3.875	5 25
361.16BBLS		JOINTS: 3			
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	2 98
SNU0008697 11871.05'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	4 500"	3 92"	114 98
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	5 630"	1.500	2 65
		4-1/2" 13.50# P-110 LTC LINER		3.840	
Stage 3		Packers Plus 4-1/2" Drillable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball JOINTS: 3	4 500"	3 92"	115 23
EA1032573 11994.26'		PN: 121332-000007 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	4 500"	3 92"	6 10
		4-1/2" 13.50# P-110 LTC LINER	5 750"	3.875	5 25
364.86BBLS		JOINTS: 3			
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 03
SNU0009208 12118.24'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	4 500"	3 92"	76 54
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint	5 630"	1.375	2 65
		4-1/2" 13.50# P-110 LTC LINER		3.840	
Stage 2		Packers Plus 4-1/2" Drillable FracPORT™ with 1.375" Seat for 1.500" High Pressure Ball JOINTS: 3	4 500"	3 92"	115 24
EA1028961 12203.06'		PN: 121332-000006 (5 shear pins at 314 psi each: 1,570 psi opening pressure)	4 500"	3 92"	6 05
		4-1/2" 13.50# P-110 LTC LINER	5 750"	3.875	5 25
367.99BBLS		JOINTS: 3			
		6' x 4-1/2" 13 50# P-110 LTC Pup Joint	4 500"	3 92"	3 03
SNU0009321 12327.00'		Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)	4 500"	3 92"	111 97
		3' x 4-1/2" 13 50# P-110 LTC Pup Joint			
		4-1/2" 13.50# P-110 LTC LINER			
Stage 1		Customer 4-1/2" Pump Off Sub (Pinned above 4000 PSI)			2 75
12450'					
371.69BBLS					
TMD 12503'					
Service Center		Telephone	Contact		
Midland, TX		432-563-8024	Scott Mabry		
			Telephone		
			Chad Williams 405-255-3223		