

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
Zircon 12/7 GF Fed Com 1H
EDDY

046-0095

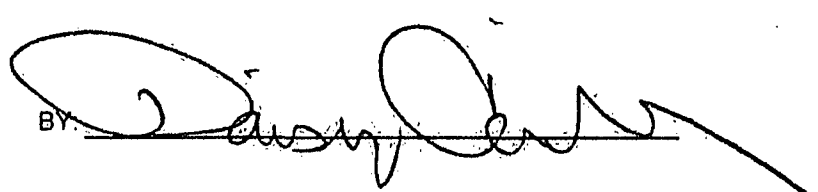
STATE OF NEW MEXICO
DEVIATION REPORT

322	0.38
731	0.62
1,101	2.10
1,486	1.23
1,867	0.52
2,251	0.69
2,630	1.51
3,094	0.36
3,424	0.60
4,314	2.74
4,538	2.72
4,793	1.37
5,047	1.42
5,301	1.04
5,591	0.74
5,876	1.22
6,286	1.35
6,700	0.40
7,145	0.62

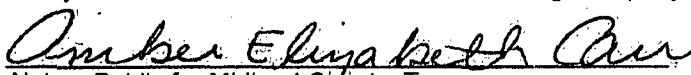
15-42207

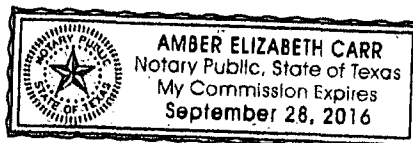
STATE OF TEXAS

COUNTY OF MIDLAND

BY: 

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


Notary Public for Midland County, Texas
My Commission Expires:



Mewbourne Oil Co

Eddy County, New Mexico

Sec 12, T19S, R29E

Zircon 12/7 GF Federal COM #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

30 April, 2014



DDC
Survey Report



Company:	Mawbourne Oil Co	Local Coordinates Reference:	Well Zircon 12/7 GF Federal COM #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3419.0usft (Paterson #48)
Block:	Sec 12, T19S, R28E	MD Reference:	WELL @ 3419.0usft (Paterson #48)
Well:	Zircon 12/7 GF Federal COM #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: Sec 12, T19S, R28E					
Site Position:		Northing:	611,361.60 usft	Latitude:	32° 40' 49.303 N
From:	Map	Easting:	593,842.90 usft	Longitude:	104° 1' 42.010 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 °

Well: Zircon 12/7 GF Federal COM #1H						
Well Position	+N/-S	0.0 usft	Northing:	610,247.00 usft	Latitude:	32° 40' 38.273 N
	+E/-W	0.0 usft	Easting:	593,846.00 usft	Longitude:	104° 1' 42.011 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,399.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/5/2014	7.49	80.48	48,558

Design:		Wellbore #1			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	92.55	

Survey Program		Date	4/30/2014	
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	7,500.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,572.0	12,985.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bull's 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	0.11	223.27	100.0	-0.1	-0.1	-0.1	0.11	0.11	0.00
200.0	0.35	316.45	200.0	0.1	-0.3	-0.3	0.37	0.24	93.18
300.0	0.44	135.85	300.0	0.0	-0.3	-0.3	0.79	0.09	179.40
400.0	0.73	155.14	400.0	-0.6	0.3	0.3	0.35	0.29	19.29
500.0	0.79	150.49	500.0	-2.0	0.9	0.9	0.09	0.06	-4.65
600.0	0.73	138.23	600.0	-3.1	1.6	1.8	0.17	-0.06	-12.26
700.0	0.88	134.12	700.0	-4.1	2.6	2.8	0.16	0.15	-4.11
800.0	0.82	131.14	800.0	-5.1	3.7	3.9	0.07	-0.08	-2.98
900.0	0.99	126.06	899.9	-6.1	4.9	5.2	0.19	0.17	-5.08

DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Zircon 12/7 GF Federal COM #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3419.0uoft (Patterson #46)
Site:	Sec 12, T19S, R29E	MD Reference:	WELL @ 3419.0uoft (Patterson #46)
Well:	Zircon 12/7 GF Federal COM #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Measured Depth (uoft)	Inclination (°)	Azimuth (°)	Vertical Depth (uoft)	N/S (uoft)	E/W (uoft)	Vertical Section (uoft)	Dogleg Rate (°/100uoft)	Build Rate (°/100uoft)	Turn Rate (°/100uoft)
1,000.0	1.15	118.92	999.9	-7.1	6.5	6.8	0.21	0.16	-7.14
1,100.0	1.67	112.14	1,099.9	-8.1	8.7	9.1	0.55	0.52	-6.78
1,200.0	2.02	104.25	1,199.8	-9.1	11.8	12.2	0.43	0.35	-7.89
1,300.0	1.90	106.72	1,299.8	-10.0	15.1	15.5	0.15	-0.12	2.47
1,400.0	1.63	101.37	1,399.7	-10.8	18.1	18.5	0.32	-0.27	-5.35
1,500.0	1.01	100.03	1,499.7	-11.2	20.3	20.8	0.62	-0.62	-1.34
1,600.0	0.58	81.43	1,599.7	-11.3	21.7	22.2	0.50	-0.43	-18.60
1,700.0	0.67	4.92	1,699.7	-10.6	22.2	22.7	0.78	0.09	-76.51
1,800.0	0.64	1.40	1,799.7	-9.5	22.3	22.7	0.05	-0.03	-3.52
1,900.0	0.63	7.74	1,899.7	-8.4	22.4	22.7	0.07	-0.01	6.34
2,000.0	0.66	24.33	1,999.7	-7.3	22.7	23.0	0.19	0.03	16.59
2,100.0	0.93	31.40	2,099.7	-6.1	23.4	23.6	0.29	0.27	7.07
2,200.0	1.35	29.77	2,199.6	-4.4	24.4	24.5	0.42	0.42	-1.63
2,300.0	1.51	21.87	2,299.6	-2.1	25.5	25.5	0.25	0.16	-7.90
2,400.0	1.40	12.04	2,399.6	0.3	26.2	26.2	0.27	-0.11	-9.83
2,500.0	1.08	9.89	2,499.6	2.4	26.6	26.5	0.32	-0.32	-2.15
2,600.0	0.96	19.12	2,599.5	4.1	27.1	26.8	0.20	-0.12	9.23
2,700.0	0.87	18.56	2,699.5	5.7	27.6	27.3	0.09	-0.09	-0.56
2,800.0	0.81	18.94	2,799.5	7.0	28.0	27.7	0.06	-0.06	0.38
2,900.0	0.68	21.33	2,899.5	8.3	28.5	28.1	0.13	-0.13	2.39
3,000.0	0.81	18.97	2,999.5	9.5	28.9	28.5	0.13	0.13	-2.36
3,100.0	1.07	8.78	3,099.5	11.1	29.3	28.8	0.31	0.26	-10.19
3,200.0	1.28	343.71	3,199.5	13.1	29.1	28.5	0.54	0.19	-25.07
3,300.0	1.04	326.69	3,299.5	14.9	28.3	27.6	0.40	-0.22	-17.02
3,400.0	0.72	321.34	3,399.4	16.1	27.4	26.7	0.33	-0.32	-5.35
3,500.0	0.71	312.25	3,499.4	17.0	26.6	25.8	0.11	-0.01	-9.09
3,600.0	0.65	296.01	3,599.4	17.7	25.6	24.8	0.20	-0.06	-16.24
3,700.0	0.67	300.70	3,699.4	18.2	24.7	23.8	0.09	-0.08	4.69
3,800.0	0.92	327.44	3,799.4	19.1	23.8	22.9	0.48	0.35	26.74
3,900.0	1.43	342.50	3,899.4	21.0	23.0	22.1	0.59	0.51	15.06
4,000.0	2.19	352.73	3,999.3	24.1	22.4	21.3	0.82	0.76	10.23
4,100.0	2.41	349.94	4,099.3	28.0	21.8	20.5	0.25	0.22	-2.79
4,200.0	2.19	344.94	4,199.2	32.0	20.9	19.5	0.30	-0.22	-5.00
4,300.0	2.39	344.12	4,299.1	35.8	19.9	18.2	0.20	0.20	-0.82
4,400.0	2.04	343.46	4,399.0	39.5	18.8	17.0	0.35	-0.35	-0.64
4,500.0	1.74	338.25	4,499.0	42.6	17.7	15.8	0.35	-0.30	-5.23
4,600.0	1.46	331.08	4,598.9	45.2	16.5	14.5	0.34	-0.28	-7.19
4,700.0	1.23	335.13	4,698.9	47.3	15.5	13.3	0.25	-0.23	4.07
4,800.0	1.22	335.88	4,798.9	49.2	14.6	12.4	0.02	-0.01	0.75
4,900.0	1.22	338.68	4,898.9	51.2	13.8	11.5	0.06	0.00	2.80
5,000.0	1.42	347.09	4,998.8	53.4	13.1	10.7	0.28	0.20	8.41
5,100.0	1.44	351.02	5,098.8	55.8	12.6	10.1	0.10	0.02	3.93
5,200.0	1.72	345.21	5,198.8	58.5	12.0	9.4	0.32	0.28	-5.81

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well: Zircon 127 GF Federal COM #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3419.0usft (Patterson #48)
Site:	Sec 12, T19S, R28E	MD Reference:	WELL @ 3419.0usft (Patterson #48)
Well:	Zircon 127 GF Federal COM #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)	Built Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	0.97	341.16	5,298.7	60.8	11.4	8.7	0.76	-0.75	-4.05
5,400.0	0.70	346.30	5,398.7	62.1	11.0	8.2	0.28	-0.27	5.14
5,500.0	0.59	27.32	5,498.7	63.2	11.1	8.2	0.46	-0.11	41.02
5,600.0	0.81	45.20	5,598.7	64.2	11.8	8.9	0.31	0.22	17.88
5,700.0	1.14	84.87	5,698.7	64.7	13.3	10.4	0.73	0.33	39.67
5,800.0	0.97	85.71	5,798.7	64.9	15.1	12.2	0.17	-0.17	0.84
5,900.0	0.73	57.06	5,898.7	65.3	16.5	13.6	0.48	-0.24	-28.65
6,000.0	0.95	18.98	5,998.7	66.4	17.3	14.3	0.59	0.22	-38.08
6,100.0	0.78	24.73	6,098.6	67.8	17.9	14.8	0.19	-0.17	5.75
6,200.0	1.34	115.34	6,198.6	68.0	19.2	16.2	1.56	0.56	90.61
6,300.0	1.74	96.88	6,298.6	67.3	21.8	18.8	0.63	0.40	-18.46
6,400.0	1.65	90.09	6,398.6	67.1	24.7	21.7	0.22	-0.09	-6.79
6,500.0	1.00	77.07	6,498.5	67.3	27.0	24.0	0.71	-0.65	-13.02
6,600.0	0.54	49.71	6,598.5	67.8	28.2	25.2	0.58	-0.46	-27.36
6,700.0	0.43	353.28	6,698.5	68.5	28.5	25.5	0.47	-0.11	-56.43
6,800.0	0.21	304.75	6,798.5	68.9	28.3	25.2	0.33	-0.22	-48.53
6,900.0	0.33	302.89	6,898.5	69.2	27.9	24.8	0.12	0.12	-1.86
7,000.0	0.36	302.40	6,998.5	69.5	27.4	24.3	0.03	0.03	-0.49
7,100.0	0.40	309.30	7,098.5	69.9	26.9	23.8	0.06	0.04	6.90
7,200.0	0.49	327.60	7,198.5	70.5	26.4	23.2	0.17	0.09	18.30
7,300.0	0.57	331.47	7,298.5	71.3	25.9	22.7	0.09	0.08	3.87
7,400.0	0.81	356.80	7,398.5	72.4	25.7	22.4	0.38	0.24	25.33
NE IN @ 7800 MD / 7499 TVD									
7,500.0	0.92	26.04	7,498.5	73.9	26.0	22.7	0.45	0.11	29.24
7,572.0	1.00	38.10	7,570.5	74.9	26.6	23.3	0.30	0.11	16.75
7,604.0	3.40	71.30	7,602.4	75.4	27.7	24.3	8.19	7.50	103.75
7,635.0	7.10	76.20	7,633.3	76.1	30.4	27.0	12.01	11.94	15.81
7,667.0	10.50	74.60	7,664.9	77.4	35.1	31.7	10.65	10.63	-5.00
7,699.0	13.30	75.00	7,696.2	79.1	41.5	38.0	8.75	8.75	1.25
7,730.0	14.80	79.00	7,726.3	80.8	48.8	45.2	5.76	4.84	12.90
7,763.0	15.30	79.90	7,758.2	82.4	57.3	53.5	1.67	1.52	2.73
7,794.0	15.60	82.60	7,788.1	83.6	65.4	61.6	2.51	0.97	8.71
7,826.0	17.90	87.30	7,818.7	84.4	74.6	70.8	8.34	7.19	14.69
7,858.0	21.40	91.90	7,848.8	84.4	85.4	81.5	11.95	10.94	14.38
7,890.0	24.50	92.40	7,878.3	84.0	97.8	94.0	9.71	9.69	1.56
7,922.0	27.40	91.20	7,907.1	83.5	111.8	108.0	9.21	9.06	-3.75
7,954.0	30.90	89.90	7,935.0	83.4	127.4	123.6	11.11	10.94	-4.06
7,986.0	34.60	89.40	7,961.9	83.5	144.7	140.9	11.59	11.56	-1.56
CROSSED LEASE LINE @ 7994 MD / 7989 TVD									
7,994.2	35.55	89.45	7,988.6	83.6	149.4	145.6	11.57	11.56	0.67
8,018.0	38.30	89.60	7,987.7	83.7	163.7	159.8	11.57	11.56	0.61
8,050.0	41.70	90.60	8,012.2	83.6	184.3	180.4	10.81	10.63	3.13
8,081.0	44.90	91.20	8,034.7	83.3	205.5	201.6	10.41	10.32	1.94
8,113.0	48.60	91.50	8,056.6	82.7	228.8	224.9	11.58	11.56	0.94

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Zircon 12/7 GF Federal COM #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3419.0usft (Patterson #46)
Site:	Sec 12, T19S, R29E	MD Reference:	WELL @ 3419.0usft (Patterson #46)
Well:	Zircon 12/7 GF Federal COM #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)
8,145.0	52.80	91.90	8,076.9	82.0	253.6	249.7	13.16	13.13	1.25
8,177.0	57.10	91.90	8,095.3	81.1	279.8	275.9	13.44	13.44	0.00
8,209.0	61.10	91.70	8,111.7	80.3	307.2	303.3	12.51	12.50	-0.63
8,241.0	65.40	91.70	8,128.1	79.4	335.8	331.9	13.44	13.44	0.00
8,273.0	69.80	92.10	8,138.3	78.4	365.3	361.5	13.80	13.75	1.25
8,305.0	74.10	92.40	8,148.2	77.3	395.7	391.9	13.47	13.44	0.94
8,336.0	78.40	92.90	8,155.6	75.9	425.8	422.0	13.96	13.87	1.61
8,368.0	82.70	93.30	8,160.8	74.2	457.3	453.5	13.49	13.44	1.25
CROSSED 330° HARDLINE @ 8390' MD / 8163' TVD									
8,390.3	85.77	93.70	8,163.1	72.8	479.4	475.7	13.92	13.75	2.19
8,400.0	87.10	94.00	8,163.7	72.1	489.1	485.4	13.92	13.75	2.18
8,422.0	88.70	94.00	8,164.5	70.6	511.0	507.4	7.27	7.27	0.00
8,500.0	90.20	92.90	8,165.2	65.9	588.9	585.4	2.38	1.92	-1.41
8,563.0	90.10	92.90	8,165.1	62.7	651.8	648.4	0.16	-0.16	0.00
8,626.0	89.70	92.60	8,165.2	59.7	714.7	711.4	0.79	-0.63	-0.48
8,689.0	89.00	92.80	8,165.9	56.7	777.7	774.4	1.16	-1.11	0.32
8,784.0	90.00	93.60	8,168.7	51.4	872.5	869.3	1.35	1.05	0.84
8,879.0	88.90	94.30	8,167.6	44.9	967.3	964.3	1.37	-1.16	0.74
8,974.0	89.00	94.70	8,169.4	37.4	1,062.0	1,059.2	0.43	0.11	0.42
9,070.0	89.70	94.50	8,170.5	29.7	1,157.6	1,155.2	0.76	0.73	-0.21
9,165.0	90.20	94.30	8,170.5	22.4	1,252.4	1,250.1	0.57	0.53	-0.21
9,260.0	90.20	94.20	8,170.2	15.4	1,347.1	1,345.1	0.11	0.00	-0.11
9,354.0	89.30	94.30	8,170.6	8.4	1,440.8	1,439.0	0.96	-0.96	0.11
9,449.0	90.10	93.40	8,171.1	2.1	1,535.6	1,534.0	1.27	0.84	-0.95
9,544.0	88.60	94.50	8,172.2	-4.5	1,630.4	1,629.0	1.96	-1.58	1.16
9,608.0	89.20	94.30	8,173.4	-9.4	1,694.2	1,692.9	0.99	0.94	-0.31
9,671.0	89.40	94.00	8,174.2	-14.0	1,757.0	1,755.9	0.57	0.32	-0.48
9,734.0	90.00	93.80	8,174.5	-18.2	1,819.9	1,818.9	1.00	0.95	-0.32
9,797.0	90.20	93.60	8,174.4	-22.4	1,882.7	1,881.9	0.32	0.32	0.00
9,861.0	89.30	94.30	8,174.7	-28.9	1,946.6	1,945.8	1.61	-1.41	0.78
9,924.0	89.40	93.60	8,175.4	-31.3	2,009.4	2,008.8	1.12	0.16	-1.11
9,987.0	88.90	93.40	8,176.4	-35.1	2,072.3	2,071.8	0.85	-0.79	-0.32
10,051.0	89.30	94.00	8,177.4	-39.3	2,136.1	2,135.8	1.13	0.63	0.94
10,114.0	88.60	94.20	8,178.5	-43.8	2,199.0	2,198.7	1.16	-1.11	0.32
10,176.0	88.70	93.80	8,180.0	-48.1	2,260.8	2,260.7	0.66	0.16	-0.65
10,240.0	90.10	92.60	8,180.6	-51.7	2,324.7	2,324.7	2.88	2.19	-1.88
10,303.0	89.60	92.10	8,180.8	-54.2	2,387.6	2,387.7	1.12	-0.79	-0.79
10,367.0	88.40	91.90	8,181.9	-56.5	2,451.6	2,451.7	1.90	-1.88	-0.31
10,430.0	89.20	91.70	8,183.2	-58.5	2,514.6	2,514.7	1.31	1.27	-0.32
10,493.0	89.30	91.50	8,184.1	-60.2	2,577.5	2,577.6	0.35	0.16	-0.32
10,556.0	89.50	91.70	8,184.7	-62.0	2,640.5	2,640.6	0.45	0.32	0.32
10,619.0	90.10	91.90	8,184.9	-63.9	2,703.5	2,703.6	1.00	0.95	0.32
10,682.0	90.70	92.20	8,184.5	-66.2	2,766.4	2,766.6	1.06	0.95	0.48

DDC
Survey Report



Company:	Newbourne Oil Co	Local Coordinate Reference:	Well Zircon 12/7 GF Federal COM #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3419.0usft (Patterson #46)
Site:	Sec 12 T19S R29E	MD Reference:	WELL @ 3419.0usft (Patterson #46)
Well:	Zircon 12/7 GF Federal COM #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM15000.1 (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)
CROSSED SECTION LINE @ 1071.4 MD / 8184.1VD									
10,713.6	90.35	91.95	8,184.2	-67.3	2,798.0	2,798.2	1.37	-1.11	-0.79
10,745.0	90.00	91.70	8,184.1	-68.3	2,829.4	2,829.6	1.37	-1.11	-0.79
10,808.0	89.50	91.50	8,184.4	-70.1	2,892.4	2,892.6	0.85	-0.79	-0.32
10,872.0	89.90	93.00	8,184.7	-72.6	2,956.3	2,956.6	2.43	0.63	2.34
10,935.0	90.50	93.40	8,184.5	-78.1	3,019.2	3,019.6	1.14	0.95	0.63
10,998.0	89.90	93.40	8,184.3	-79.9	3,082.1	3,082.6	0.95	-0.95	0.00
11,061.0	89.00	93.30	8,184.9	-83.5	3,145.0	3,145.6	1.44	-1.43	-0.16
11,124.0	88.10	93.40	8,186.5	-87.2	3,207.9	3,208.6	1.44	-1.43	0.16
11,187.0	88.90	93.60	8,188.1	-91.1	3,270.7	3,271.5	1.31	1.27	0.32
11,250.0	89.00	93.80	8,189.3	-95.1	3,333.6	3,334.5	0.35	0.16	0.32
11,314.0	90.60	96.40	8,189.5	-100.8	3,397.3	3,398.4	4.77	2.50	4.06
11,377.0	91.40	95.90	8,188.4	-107.6	3,459.9	3,461.3	1.50	1.27	-0.79
11,440.0	90.80	95.60	8,187.2	-113.9	3,522.6	3,524.2	1.06	-0.95	-0.48
11,504.0	89.90	95.60	8,186.8	-120.1	3,586.3	3,588.1	1.41	-1.41	0.00
11,567.0	89.00	95.00	8,187.4	-126.0	3,649.0	3,651.0	1.72	-1.43	-0.95
11,630.0	88.00	94.90	8,189.1	-131.4	3,711.8	3,713.9	1.60	-1.59	-0.16
11,694.0	88.60	94.90	8,191.0	-136.8	3,775.5	3,777.9	0.94	0.94	0.00
11,757.0	88.60	95.60	8,192.5	-142.6	3,838.2	3,840.8	1.11	0.00	1.11
11,820.0	89.30	94.20	8,193.7	-148.0	3,901.0	3,903.7	2.48	1.11	-2.22
11,883.0	89.60	93.30	8,194.3	-152.1	3,963.8	3,966.7	1.51	0.48	-1.43
11,947.0	88.90	93.40	8,195.1	-155.9	4,027.7	4,030.7	1.10	-1.09	0.16
12,010.0	89.90	94.20	8,195.8	-160.0	4,090.6	4,093.7	2.03	1.59	1.27
12,073.0	89.30	93.60	8,196.2	-164.3	4,153.4	4,156.6	1.35	-0.95	-0.95
12,137.0	87.80	92.80	8,197.8	-167.9	4,217.3	4,220.6	2.66	-2.34	-1.25
12,200.0	87.90	93.10	8,200.2	-171.1	4,280.2	4,283.6	0.50	0.16	0.48
12,263.0	88.50	93.30	8,202.2	-174.6	4,343.1	4,346.5	1.00	0.95	0.32
12,326.0	88.40	92.80	8,203.9	-178.0	4,405.9	4,409.5	0.81	-0.16	-0.79
12,389.0	89.00	91.90	8,205.3	-180.6	4,468.9	4,472.5	1.72	0.95	-1.43
12,452.0	89.70	92.20	8,206.0	-182.8	4,531.8	4,535.5	1.21	1.11	0.48
12,516.0	90.80	91.90	8,205.7	-185.1	4,595.8	4,599.5	1.78	1.72	-0.47
12,579.0	90.10	90.50	8,205.2	-186.4	4,658.8	4,662.5	2.48	-1.11	-2.22
12,642.0	89.50	89.80	8,205.5	-186.6	4,721.8	4,725.4	1.46	-0.95	-1.11
12,706.0	89.00	89.10	8,206.3	-186.0	4,785.8	4,789.3	1.34	-0.78	-1.09
12,769.0	89.30	88.70	8,207.2	-184.8	4,848.7	4,852.2	0.79	0.48	-0.63
12,833.0	89.20	89.40	8,208.1	-183.7	4,912.7	4,916.0	1.10	-0.16	1.09
12,896.0	89.50	90.30	8,208.8	-183.5	4,975.7	4,979.0	1.51	0.48	1.43
12,931.0	88.80	89.20	8,209.3	-183.4	5,010.7	5,013.9	3.72	-2.00	-3.14
TD @ 12985 MD / 8210.4VD									
12,985.0	88.80	89.20	8,210.4	-182.6	5,064.7	5,067.8	0.00	0.00	0.00

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well: Zircon, 1277/GF Federal COM #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3419.0usft (Patterson #48)
Site:	Sec. 12, T19S, R28E	MD Reference:	WELL @ 3419.0usft (Patterson #48)
Well:	Zircon, 1277/GF Federal COM #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,500.0	7,498.5	73.9	26.0	TIE IN @ 7500' MD / 7499' TVD
7,994.2	7,968.6	83.6	149.4	CROSSED LEASE LINE @ 7994' MD / 7969' TVD
8,390.3	8,163.1	72.8	479.4	CROSSED 330' HARDLINE @ 8390' MD / 8163' TVD
10,713.6	8,184.2	-67.3	2,798.0	CROSSED SECTION LINE @ 10714' MD / 8184' TVD
12,985.0	8,210.4	-182.6	5,064.7	TD @ 12985' MD / 8210' TVD

Checked By: _____ Approved By: _____ Date: _____

Operating Company Mewbourne Oil Co.
Well Name & Number Zircon 12/7 GF #1H
Sales Ticket Number 0
Date 4/30/2014

Company Rep Larry sutton
Field Fed Com
BOT Service Rep Blake Born
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse		
Casing	7.000	26.00	110000	6.276	6.151	LTC / 8RD	0.03826	8,472.00	9,960	6,230		
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01492	4,654.04	12,410	10,680		
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-		
TVD		8210.00		KOP		7543.00		Open Hole	6.125	Casing Vol: (bbl)	316.1	
Carry Fluid Weight (ppg)			8.4		Propan Content (ppa)				Max Drill Out Size			0
	Comm. Number		Description			Depth	Length	OD	ID	Ball Seat ID	Displ Rate (BBL)	Displ (BBL)
Liner Top	1	10292414	JR Slv W/ 4.750 ALT Seal Bore ID			8281.96	4.00	5.750	3.913			

Zone
Length

20

19

18

17

16

H409400024	S-3 HYD SET CASING PACKER	8285.96	4.68	5.937	3.873		1670		
H29710014	4-1/2" 13.50 P-110 LTC NIPPLE	8270.64	8.09	4.500	3.920				
	4-1/2" #13.50 P-110 CASING (6 JNT)	8278.73	268.99	4.500	3.920				
104686545	3.500" Express Frac Sleeve	8547.72	2.40	5.750		3.400"	2286		316
	4-1/2" #13.50 P-110 CASING (3 JNT)	8550.12	136.05	4.500	3.920				
H40936008	Baker Open Hole Packer	8686.17	3.89	5.820			2154		
	4-1/2" #13.50 P-110 CASING (2 JNT)	8690.06	90.73	4.500	3.920				
H810090189	3.438" Express Frac Sleeve	8780.79	2.40	5.750		3.338"	2286		316
	4-1/2" #13.50 P-110 CASING (3 JNT)	8783.19	136.02	4.500	3.920				
H40936008	Baker Open Hole Packer	8919.21	3.89	5.820			2154		
	4-1/2" #13.50 P-110 CASING (2 JNT)	8923.10	90.37	4.500	3.920				
104686527	3.375" Express Frac Sleeve	9013.47	2.40	5.750		3.275"	2286		316
	4-1/2" #13.50 P-110 CASING (3 JNT)	9015.87	135.24	4.500	3.920				
H40936008	Baker Open Hole Packer	9151.11	3.89	5.820			2154		
	4-1/2" #13.50 P-110 CASING (2 JNT)	9155.00	90.04	4.500	3.920				
H810090191	3.313" Express Frac Sleeve	9245.04	2.40	5.750		3.213"	2286		316
	4-1/2" #13.50 P-110 CASING (3 JNT)	9247.44	136.01	4.500	3.920				
H40936008	Baker Open Hole Packer	9383.45	3.89	5.820			2154		
	4-1/2" #13.50 P-110 CASING (2 JNT)	9387.34	90.71	4.500	3.920				
104686519	3.250" Express Frac Sleeve	9478.05	2.40	5.750		3.150"	2286		316
	4-1/2" #13.50 P-110 CASING (3 JNT)	9480.45	136.01	4.500	3.920				
H40936008	Baker Open Hole Packer	9616.46	3.89	5.820			2154		

Operating Company Mewbourne Oil Co.
Well Name & Number Zircon 12/7 GF #1H
Sales Ticket Number 0
Date 4/30/2014

Company Rep Larry sutton
Field Fed Com
BOT Service Rep Blake Born
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse		
Casing	7.000	26.00	110000	6.276	6.151	LTC / 8RD	0.03826	18472.00	9960	16230		
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01492	4654.04	12410	10680		
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000			-		
TVD		8210.00		KOP		7543.00		Open Hole	6.125	Casing Vol. (bbl)	316.1	
Carry Fluid Weight (ppg)			8.4		Propan Content (ppa)				Max Drill Out Size			0

	Comm. Number	Description	Depth	Length	OD	ID	Weight (lb)	Stress (psi)	Yield (psi)	Drill (EFL)
15		4-1/2" #13.50 P-110 CASING (2 JNT)	9620.35	90.16	4.500	3.920				
	H810090393	3.188" Express Frac Sleeve	9710.51	2.40	5.750		3.088"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	9712.91	132.92	4.500	3.920				
14	H100938008	Baker Open Hole Packer	9846.83	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	9849.72	90.70	4.500	3.920				
	104686507	3.125" Express Frac Sleeve	9940.42	2.40	5.750		3.025"	2286		316
13		4-1/2" #13.50 P-110 CASING (3 JNT)	9942.82	136.02	4.500	3.920				
	H100938008	Baker Open Hole Packer	10078.84	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	10082.73	90.32	4.500	3.920				
12	H810090195	3.063" Express Frac Sleeve	10173.05	2.40	5.750		2.963"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	10175.45	134.74	4.500	3.920				
	H100938008	Baker Open Hole Packer	10310.19	3.89	5.820			2154		
11		4-1/2" #13.50 P-110 CASING (2 JNT)	10314.08	89.66	4.500	3.920				
	104686493	3.000" Express Frac Sleeve	10403.74	2.40	5.750		2.900"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	10406.14	134.91	4.500	3.920				
10	H100938008	Baker Open Hole Packer	10541.05	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	10544.94	90.12	4.500	3.920				
	H810090197	2.938" Express Frac Sleeve	10635.06	2.40	5.750		2.838"	2286		316
9		4-1/2" #13.50 P-110 CASING (3 JNT)	10637.46	131.90	4.500	3.920				
	H100938008	Baker Open Hole Packer	10766.36	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	10773.25	89.32	4.500	3.920				
10	104686480	2.875" Express Frac Sleeve	10862.57	2.40	5.750		2.775"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	10864.97	134.44	4.500	3.920				
	H100938008	Baker Open Hole Packer	10999.11	3.89	5.820			2154		
9		4-1/2" #13.50 P-110 CASING (2 JNT)	11003.30	89.35	4.500	3.920				
	H810090199	2.813" Express Frac Sleeve	11092.65	2.40	5.750		2.713"	2286		316

Operating Company Mewbourne Oil Co.
Well Name & Number Zircon 12/7 GF #1H
Sales Ticket Number 0
Date 4/30/2014

Company Rep Larry Sutton
Field Fed Com
BOT Service Rep Blake Born
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	110000	6.276	6.151	LTC//8RD	0.03826	8472.00	9960	6230	
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01492	4,654.04	12,410	10,680	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000				
TVD		8210.00		KOP		7543.00	Open Hole		6.125	Casing Vol. (bbl)	316.1
Carry Fluid Weight (ppg)			8.4		Propan Content (ppa)					Max Drill Out Size	0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (Bbl)
		4-1/2" #13.50 P-110 CASING (3 JNT)	11095.05	134.60	4.500	3.920				
	H40936008	Baker Open Hole Packer	11228.85	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	11233.54	89.40	4.500	3.920				
8	104686454	2.750" Express Frac Sleeve	11322.94	2.40	5.750		2.650"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	11325.34	133.57	4.500	3.920				
	H40936008	Baker Open Hole Packer	11458.91	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	11462.80	90.37	4.500	3.920				
7	H810090201	2.688" Express Frac Sleeve	11553.17	2.40	5.750		2.588"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	11555.57	135.42	4.500	3.920				
	H40936008	Baker Open Hole Packer	11690.89	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	11694.88	90.18	4.500	3.920				
6	104686442	2.625" Express Frac Sleeve	11785.06	2.40	5.750		2.525"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	11787.46	132.68	4.500	3.920				
	H40936008	Baker Open Hole Packer	11920.14	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	11924.03	90.18	4.500	3.920				
5	H810090203	2.563" Express Frac Sleeve	12014.21	2.40	5.750		2.463"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	12016.61	134.40	4.500	3.920				
	H40936008	Baker Open Hole Packer	12151.01	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	12154.90	90.17	4.500	3.920				
4	104686429	2.500" Express Frac Sleeve	12245.07	2.40	5.750		2.400"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	12247.47	134.53	4.500	3.920				
	H40936008	Baker Open Hole Packer	12392.00	3.89	5.820			2154		
		4-1/2" #13.50 P-110 CASING (2 JNT)	12385.89	89.63	4.500	3.920				
3	H810090205	2.438" Express Frac Sleeve	12475.52	2.40	5.750		2.338"	2286		316
		4-1/2" #13.50 P-110 CASING (3 JNT)	12477.92	133.81	4.500	3.920				
	H40936008	Baker Open Hole Packer	12611.73	3.89	5.820			2154		

Company Rep	Larry sutton
Field	Fed Com
BOT Service Rep	Blake Born
District Location	Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	110000	6.276	6.151	LTC / 8RD	0.03826	8,472.00	9,960	6,230	
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01492	4,654.04	12,410	10,680	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000			-	
TVD	8210.00		KOP		7543.00		Open Hole		6.125	Casing Vol. (bbl)	316.1
Carry Fluid Weight (ppg)			8.4		Propant Content (ppa)				Max Drill Out Size		0

[illegible]



Alpha Sleeve Performance Calculator

Date of Analysis: 7-Apr-14
Engineer: Paul Noseft
Customer: Mewbourne
Well Name: Zircon 12 7 GF Fed Com #1H
Field:
End Connections: 4.5" 13.5# P110 LTC

Well Parameters

Static BHT: 120 deg F
Total Vertical Depth (TVD) @ Alpha Sleeve: 4,200 ft
RIH Completion Fluid Wt.: 8.5 ppg
Cement Wt.: NA ppg
Displacement Completion Fluid Wt.: 8.5 ppg
* Note - this is used to determine the opening pressure

Operational Pressures

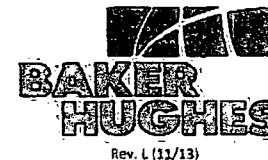
Circulation Max Pressure: 1,000 psi
Max. Cementation Pumping Pressure: 0 psi
Max. Displacement Pressure: 2,000 psi
Additional Plug Bump Pressure: 0 psi

Test and Shift Pressures

Approximate Casing Test Pressure: 7,000 psi
Min. Desired Shift Pressure: 7,000 psi
Max. Topside Pressure: 4,000 psi
** Note - wellhead or casing pressure limit

Notes:

Uncemented installation.
In-Taille Ball Seat option selected.



Option 1 19 Lower Pressure

Min Surface Pressure: 6,278 psi
Nominal Surface Pressure: 6,690 psi
Maximum Surface Pressure: 7,103 psi
Min Absolute Pressure: 19,902 psi
Nominal Absolute Pressure: 10,315 psi
Maximum Absolute Pressure: 10,727 psi
RIH Circulation Buffer: 5,278 psi
Cementation Buffer: #VALUE! psi
Displacement Buffer: 4,278 psi

Testing Percentage of Nominal: 91.4%
Approx. Casing Test Pressure should be under 90%

Max. Req. Pressure Percentage of Max. Allowable Topside Pressure: 83%

Max. Casing Test Pressure: 76,021 psi

Activator Part Number: 10412244

Company Representative: X

Date:

Option 2 20 Closest Selection

Min Surface Pressure: 6,773 psi
Nominal Surface Pressure: 7,206 psi
Maximum Surface Pressure: 7,639 psi
Min Absolute Pressure: 10,397 psi
Nominal Absolute Pressure: 10,830 psi
Maximum Absolute Pressure: 11,264 psi
RIH Circulation Buffer: 5,773 psi
Cementation Buffer: #VALUE! psi
Displacement Buffer: 4,773 psi

Testing Percentage of Nominal: 88.5%
Approx. Casing Test Pressure should be under 90%

Max. Req. Pressure Percentage of Max. Allowable Topside Pressure: 88.5%

Max. Casing Test Pressure: 86,485 psi

Activator Part Number: 10412245

Baker Hughes Representative: X

Date:

Option 3 21 Higher Pressure

Min Surface Pressure: 7,268 psi
Nominal Surface Pressure: 7,722 psi
Maximum Surface Pressure: 8,176 psi
Min Absolute Pressure: 10,892 psi
Nominal Absolute Pressure: 11,346 psi
Maximum Absolute Pressure: 11,800 psi
RIH Circulation Buffer: 6,268 psi
Cementation Buffer: #VALUE! psi
Displacement Buffer: 5,268 psi

Testing Percentage of Nominal: 85.5%
Approx. Casing Test Pressure should be under 90%

Max. Req. Pressure Percentage of Max. Allowable Topside Pressure: 85.5%

Max. Casing Test Pressure: 96,950 psi

Activator Part Number: 10412246



Job Number: SVMO-140747
 Company: Mewbourne Oil & Gas
 Lease/Well: Zircon 2 B1EH ST COM 2H
 Location: Eddy County, NM
 Rig Name: Patterson #41
 RKB: 13.5'
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA
 Declination: 7.36°
 Grid: East To Grid North
 File name: Y:\WINSER-1\2014SU-1\GEWBQU-1\MOZIRCON-3\2H.SVY
 Date/Time: 06-Jun-14 / 12:59
 Curve Name: Surface - 6347' M.D. (Rate Gyro)

MS Survey

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 90.10
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

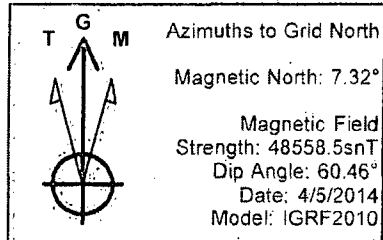
We hereby certify that our survey data from
 Surface MD to 6347' MD is, to the best of
 our knowledge a true and accurate account of
 the well bore
Harley Patterson 6/6/14
 MS Energy Services Date

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.27	354.68	100.00	.23	-.02	-.02	.24	354.68	.27
200.00	.51	257.78	200.00	.38	-.48	-.48	.61	308.08	.61
300.00	.59	248.57	299.99	.09	-1.39	-1.39	1.40	273.81	.12
400.00	.61	249.13	399.99	-.29	-2.37	-2.37	2.39	263.14	.02
500.00	.67	242.18	499.98	-.75	-3.38	-3.38	3.47	257.54	.10
600.00	.63	241.97	599.98	-1.28	-4.39	-4.38	4.57	253.75	.04
700.00	.45	229.44	699.97	-1.79	-5.17	-5.17	5.47	250.88	.21
800.00	.29	207.97	799.97	-2.27	-5.59	-5.58	6.03	247.88	.21
900.00	.47	130.20	899.97	-2.76	-5.39	-5.39	6.06	242.90	.50

Measured Depth FT	Incl Angle Deg.	Drift Direction Deg.	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
1000.00	.64	121.72	999.96	-3.32	-4.60	-4.60	5.68	234.22	.19
1100.00	.54	112.80	1099.96	-3.79	-3.69	-3.69	5.30	224.24	.14
1200.00	.52	104.39	1199.95	-4.09	-2.82	-2.81	4.97	214.60	.08
1300.00	.30	117.85	1299.95	-4.32	-2.15	-2.14	4.83	206.43	.24
1400.00	.30	184.55	1399.95	-4.71	-1.94	-1.93	5.09	202.38	.33
1500.00	.55	212.50	1499.95	-5.37	-2.22	-2.21	5.81	202.43	.32
1600.00	.68	226.18	1599.94	-6.19	-2.90	-2.89	6.84	205.13	.20
1700.00	.92	257.99	1699.93	-6.77	-4.12	-4.11	7.92	211.32	.50
1800.00	.97	263.51	1799.92	-7.03	-5.74	-5.73	9.08	219.25	.10
1900.00	.99	271.04	1899.90	-7.11	-7.45	-7.44	10.30	226.33	.13
2000.00	.93	281.44	1999.89	-6.93	-9.11	-9.10	11.45	232.72	.18
2100.00	1.00	288.07	2099.88	-6.50	-10.73	-10.72	12.55	238.79	.13
2200.00	.97	293.09	2199.86	-5.90	-12.34	-12.33	13.68	244.45	.09
2300.00	.95	303.30	2299.85	-5.11	-13.81	-13.80	14.73	249.69	.17
2400.00	1.04	311.55	2399.83	-4.05	-15.18	-15.18	15.72	255.05	.17
2500.00	1.13	317.87	2499.81	-2.72	-16.52	-16.52	16.75	260.65	.15
2600.00	1.10	320.51	2599.79	-1.25	-17.80	-17.79	17.84	265.98	.06
2700.00	.90	322.10	2699.78	.11	-18.89	-18.89	18.89	270.34	.20
2800.00	.84	313.56	2799.77	1.24	-19.90	-19.91	19.94	273.55	.14
2900.00	.82	315.21	2899.76	2.25	-20.94	-20.94	21.06	276.13	.03
3000.00	.79	314.63	2999.75	3.24	-21.93	-21.94	22.17	278.41	.03
3100.00	.71	314.15	3099.74	4.16	-22.87	-22.88	23.24	280.30	.08
3200.00	.77	313.96	3199.73	5.05	-23.80	-23.81	24.33	281.99	.06
3300.00	.81	320.44	3299.72	6.07	-24.73	-24.74	25.46	283.78	.10
3400.00	.78	320.40	3399.71	7.14	-25.61	-25.63	26.59	285.57	.03
3500.00	.99	326.19	3499.70	8.38	-26.53	-26.54	27.82	287.53	.23
3600.00	1.29	324.47	3599.68	10.01	-27.66	-27.68	29.42	289.90	.30
3700.00	1.50	319.76	3699.65	11.93	-29.16	-29.18	31.51	292.24	.24
3800.00	1.49	327.34	3799.62	14.02	-30.71	-30.73	33.76	294.54	.20

Company Name: Mewbourne Oil Co
 Zircon 12/7 GF Federal COM #1H
 Eddy County, New Mexico
 Rig: Patterson #46
 Created By: James Dawson
 Date: 8/8/2014

Zircon 12/7 GF Federal COM #1H
 Eddy County, New Mexico
 Q131038 & WT-140324
 Design #2



PROJECT DETAILS: Eddy County, New Mexico

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

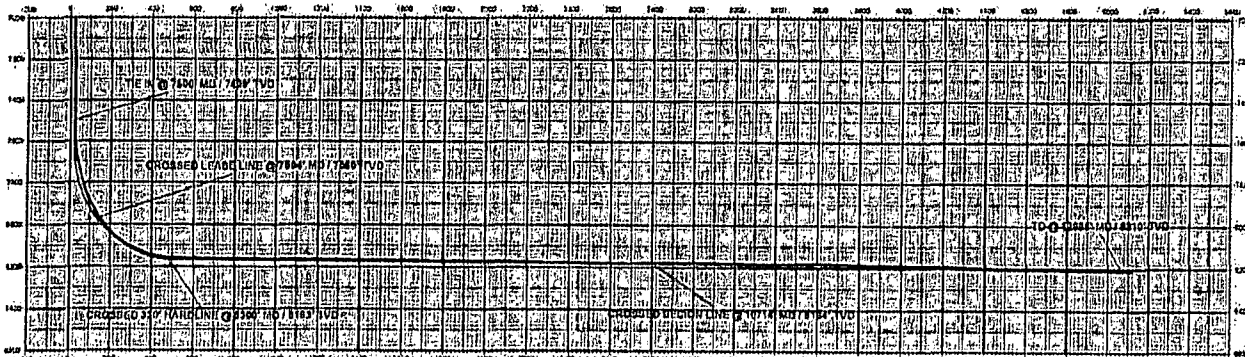
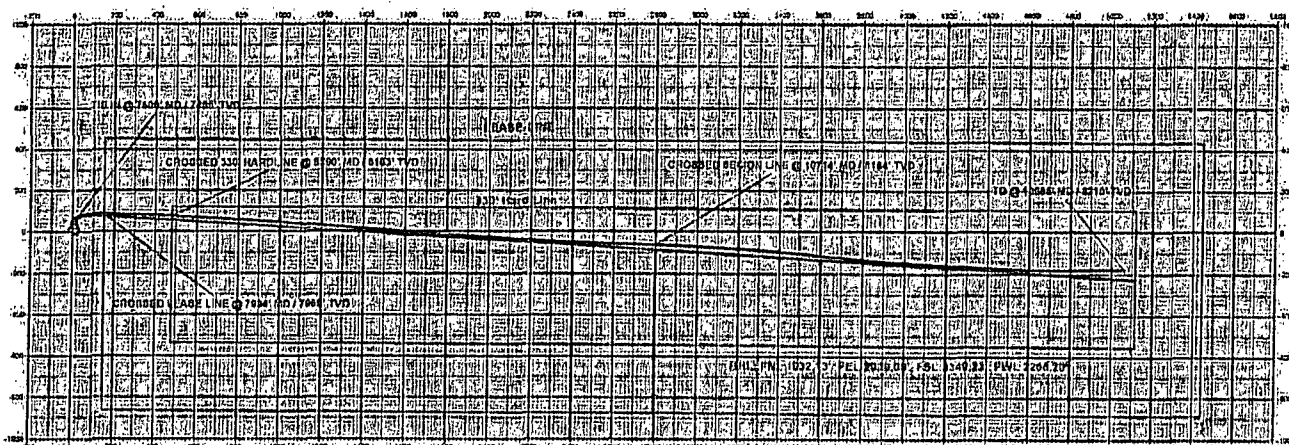
WELL DETAILS: Zircon 12/7 GF Federal COM #1H
 Ground Level: 3399.0
 +N-S +E-W Northing Easting Latitude Longitude
 0.0 0.0 610247.25 513048.55 32° 40' 18.73" N 104° 1' 52.91" W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Eastng	Latitude	Longitude
PBHL Zircon 12/7 GF Federal Com #1H	0209.0	-527.7	6116.3	610019.30	599662.34	32° 40' 58.87" N	104° 0' 42.160" W
+plan file target center							

ANNOTATIONS

MD	Inc	Asl	TVD	+N-S	+E-W	Vertical	Departure	Annotation
7808.0	0.82	26.01	7408.8	75.9	28.0	22.7	138.8	TIE IN @ 7600' MD / 7408' TVD
7868.2	38.55	89.45	7968.8	83.5	148.4	148.5	151.1	CROSSED LEAD LINE @ 7864' MD / 7963' TVD
8390.3	85.77	93.79	8185.1	72.5	470.4	416.7	581.2	CROSSED 330° HANDLINE @ 8180' MD / 8183' TVD
10712.8	80.55	91.06	9104.2	-47.9	2700.0	2700.0	8511.8	CROSSED SECTION LINE @ 10714' MD / 9104' TVD
12884.0	80.89	89.30	8310.4	-182.6	6064.7	6067.6	8185.3	TD @ 12885' MD / 8310' TVD



Vertical Section at 92.55° (200 usf/in)