

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1009 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

JAN 09 2015

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

As Drilled

¹ API Number 30-015-42713	² Pool Code 60660	³ Pool Name Turkey Track; Bone Spring
⁴ Property Code 313783	⁵ Property Name ZIRCON 12/7 B2 JK Fed Perm	
⁶ OGRID No. 14744	⁷ Operator Name MEWBOURNE OIL COMPANY	⁸ Well Number 1H
		⁹ Elevation 3392'

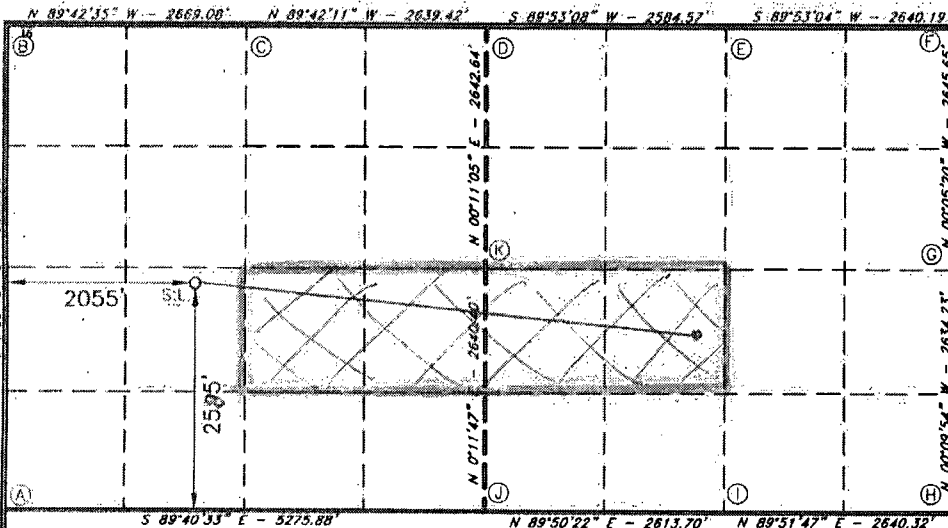
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	12	19-S	29-E		2585	SOUTH	2055	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	7	19S	29E		1742'	South	2239	West	Eddy
¹² Dedicated Acres 159.92		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

J. Lathan 1/9/15
Signature Date

J. Lathan
Printed Name

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

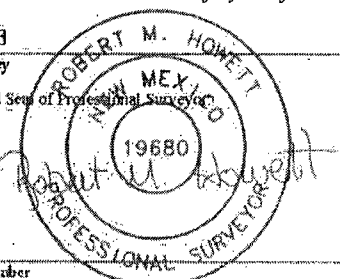
7/31/13

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



CORNER DATA

NAD 27 GRID - NM EAST
A: 1" IP
N 606754.9 - E 591366.7
B: 1/2" REBAR
N 612034.0 - E 591351.6
C: 1/2" REBAR
N 612020.5 - E 594020.0
D: BC 1916
N 612006.8 - E 596658.8
E: BC 1916
N 612012.0 - E 599242.7
F: BC 1916
N 612017.3 - E 601882.2
G: BC BROKEN 1916
N 609372.3 - E 601886.3
H: BC 1916
N 606738.7 - E 601893.9

CORNER DATA

NAD 27 GRID - NM EAST
I: BC BROKEN 1916
N 606732.4 - E 599254.3
J: BC 1916
N 606725.1 - E 596641.2
K: BC TOP GONE
N 609364.8 - E 596650.2

GEODETIC DATA

NAD 27 GRID - NM EAST
SURFACE LOCATION
N 609247.7
E 593414.0
LAT: 32.67455456° N
LONG: 104.02974992° W

Company Name: Mewbourne Oil Co
Zircon 127 B2JK Federal Com #1H
Eddy County, New Mexico
Rig: Patterson #75
Created By: Kaleigh DeCordova
Date: 12/02/2014

Zircon 127 B2JK Federal Com #1H
Eddy County, New Mexico
Q141197 & WT-141153
Design #4 - Tie In

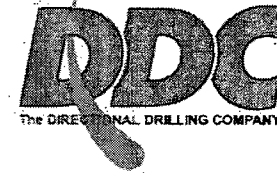
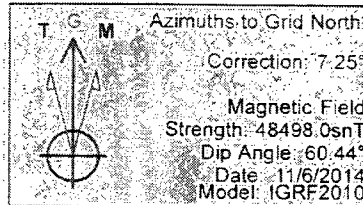
PROJECT DETAILS: Eddy County, New Mexico

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 127 B2JK Federal Com #1H

+N-S		+E-W	Northings	Eastings	Latitude	Longitude
0.0	0.0	609328.37	503414.35	32° 40' 28.185" N	104° 0' 47.082" W	

Mewbourne Oil Company



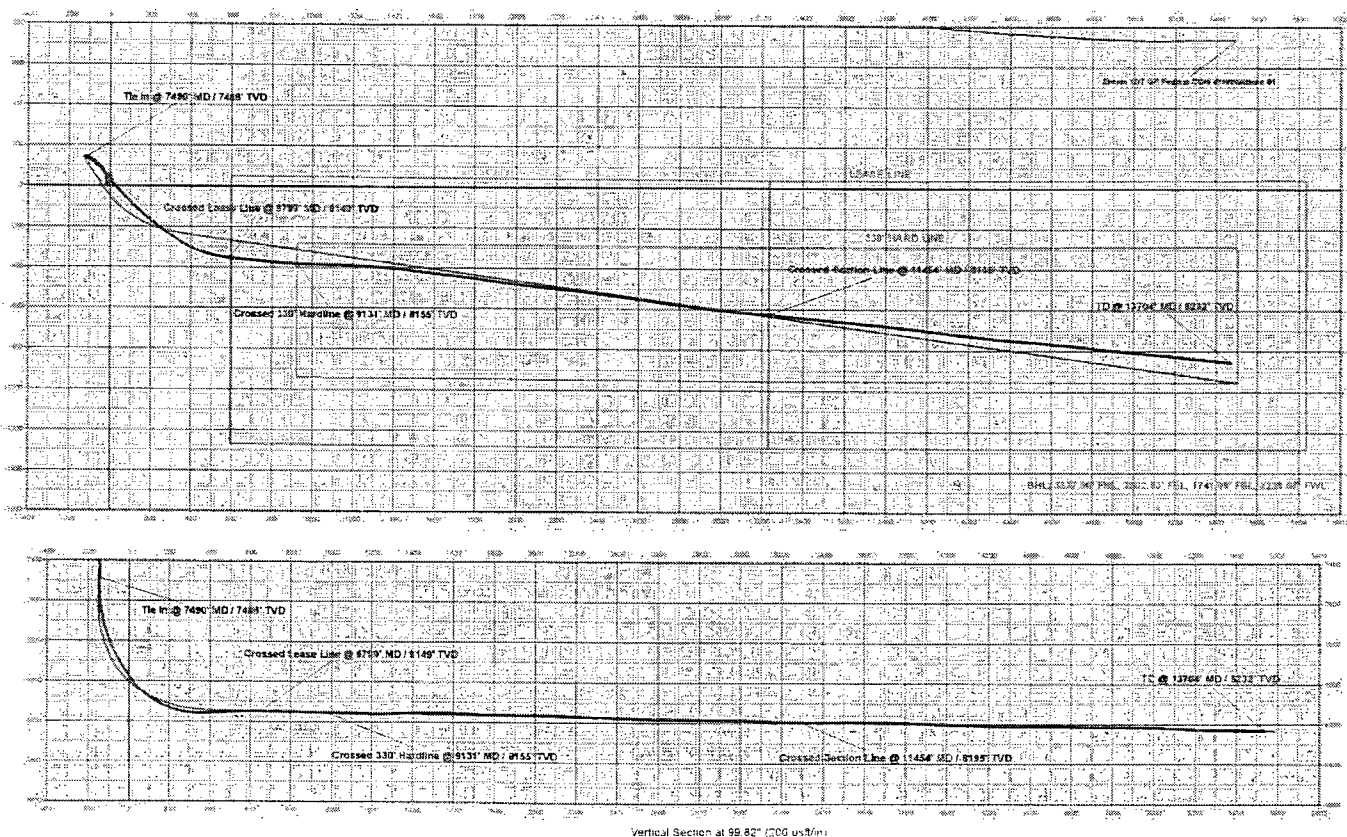
DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northings	Eastings	Latitude	Longitude
PBHL Zircon 127 B2JK Fed Com #1H B232.0		-453.4	5508.3	608374.95	598928.89	32° 40' 19.690" N	104° 0' 42.705" W

- plan hits target center

ANNOTATIONS

MD	Inc	AZ	TVD	+N-S	+E-W	V/Sect	Departure	Annotation
7490.0	1.72	272.56	7485.5	140.0	-154.9	148.4	715.9	Tie In @ 7490' MD / 7485' TVD
8799.4	89.57	87.22	8748.9	-354.8	598.4	648.2	1114.8	Crossed Lease Line @ 8799' MD / 8148' TVD
9150.6	88.53	92.81	8155.1	-383.2	928.2	979.0	1448.9	Crossed 330' Hardline @ 9151' MD / 8155' TVD
11453.6	80.00	94.60	8796.3	-428.1	3233.9	3233.7	3788.0	Crossed Section Line @ 11454' MD / 8796' TVD
13704.0	58.40	95.80	8231.8	-453.0	5471.9	5537.5	5017.8	TD @ 13704' MD / 8232' TVD



Vertical Section at 99.82° (200 us/m)

Mewbourne Oil Co

Eddy County, New Mexico

Sec 12, T19S, R29E

Zircon 12/7 B2JK Federal Com #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

02 December, 2014



Survey Report



Company:	Newbourne Oil Co	Local Co-ordinate Reference:	Well Zircon 12/7 B2JK Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	Well @ 3412.0usft (Patterson #75)
Site:	Sec 12, T19S, R29E	MD Reference:	Well @ 3412.0usft (Patterson #75)
Well:	Zircon 12/7 B2JK Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

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, R29E					
Site Position:		Northings:	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 B2JK Federal Com #1H					
Well Position	+N/-S	0.0 usft	Northings:	609,328.38 usft	Latitude:	32° 40' 29.195 N
	+E/-W	0.0 usft	Easting:	593,414.35 usft	Longitude:	104° 1' 47.092 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,392.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/6/2014	7.41	60.44	48,498

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	99.82	

Survey Program		Date	12/2/2014	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,490.0	MS Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,543.0	13,704.0	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)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.55	217.71	100.0	-0.4	-0.3	-0.2	0.55	0.55	0.00
200.0	0.32	236.74	200.0	-0.9	-0.8	-0.7	0.27	-0.23	19.03
300.0	1.05	277.78	300.0	-0.9	-2.0	-1.8	0.84	0.73	41.04
400.0	1.58	276.79	400.0	-0.7	-4.2	-4.1	0.53	0.53	-0.99
500.0	1.55	276.43	499.9	-0.3	-7.0	-6.8	0.03	-0.03	-0.36
600.0	1.41	274.89	599.9	-0.1	-9.5	-9.4	0.15	-0.14	-1.54
700.0	1.30	278.41	699.9	0.2	-11.9	-11.7	0.14	-0.11	3.52
800.0	1.10	287.17	799.8	0.6	-13.9	-13.8	0.27	-0.20	8.76
900.0	0.87	290.87	899.8	1.2	-15.5	-15.5	0.24	-0.23	3.70

Survey Report



Company: Mewbourne Oil Co
 Project: Eddy County, New Mexico
 Site: Sec 12, T19S, R29E
 Well: Zircon 12/7 B2JK Federal Com #1H
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well Zircon 12/7 B2JK Federal Com #1H
 TVD Reference: Well @ 3412.0usft (Patterson #75)
 MD Reference: Well @ 3412.0usft (Patterson #75)
 North Reference: Grd
 Survey Calculation Method: Minimum Curvature
 Database: Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.85	313.94	999.8	2.0	-16.8	-16.9	0.34	-0.02	23.07
1,100.0	0.74	330.00	1,099.8	3.0	-17.6	-17.9	0.25	-0.11	16.06
1,200.0	0.59	12.23	1,199.8	4.1	-17.8	-18.3	0.50	-0.15	42.23
1,300.0	0.83	13.20	1,299.8	5.3	-17.6	-18.2	0.24	0.24	0.97
1,400.0	0.82	16.90	1,399.8	6.7	-17.2	-18.1	0.05	-0.01	3.70
1,500.0	0.82	17.75	1,499.8	8.1	-16.8	-17.9	0.01	0.00	0.85
1,600.0	0.78	6.53	1,599.8	9.4	-16.5	-17.8	0.16	-0.04	-11.22
1,700.0	0.75	12.50	1,699.8	10.7	-16.3	-17.9	0.09	-0.03	5.97
1,800.0	0.83	9.40	1,799.7	12.1	-16.0	-17.8	0.09	0.08	-3.10
1,900.0	0.84	8.14	1,899.7	13.5	-15.8	-17.9	0.02	0.01	-1.26
2,000.0	0.79	353.58	1,999.7	15.0	-15.8	-18.1	0.21	-0.05	-14.56
2,100.0	0.81	357.97	2,099.7	16.3	-15.9	-18.4	0.06	0.02	4.39
2,200.0	0.93	357.28	2,199.7	17.9	-15.9	-18.7	0.12	0.12	-0.69
2,300.0	1.02	352.26	2,299.7	19.6	-16.1	-19.2	0.12	0.09	-5.02
2,400.0	1.16	354.06	2,399.7	21.4	-16.3	-19.7	0.14	0.14	1.80
2,500.0	1.13	351.63	2,499.6	23.4	-16.5	-20.3	0.06	-0.03	-2.43
2,600.0	1.20	355.41	2,599.6	25.4	-16.8	-20.9	0.10	0.07	3.78
2,700.0	1.27	348.32	2,699.6	27.6	-17.1	-21.5	0.17	0.07	-7.09
2,800.0	1.39	350.38	2,799.6	29.9	-17.5	-22.3	0.13	0.12	2.06
2,900.0	1.49	347.07	2,899.5	32.3	-18.0	-23.3	0.13	0.10	-3.31
3,000.0	1.58	352.12	2,999.5	35.0	-18.5	-24.2	0.16	0.09	5.05
3,100.0	1.73	347.17	3,099.5	37.8	-19.0	-25.2	0.21	0.15	-4.95
3,200.0	1.89	350.19	3,199.4	40.9	-19.6	-26.3	0.19	0.16	3.02
3,300.0	1.94	352.18	3,299.4	44.2	-20.1	-27.4	0.08	0.05	1.99
3,400.0	2.11	347.97	3,399.3	47.7	-20.8	-28.6	0.23	0.17	-4.21
3,500.0	2.33	348.66	3,499.2	51.5	-21.5	-30.0	0.22	0.22	0.69
3,600.0	2.40	347.49	3,599.1	55.5	-22.4	-31.5	0.09	0.07	-1.17
3,700.0	2.42	347.64	3,699.1	59.6	-23.3	-33.1	0.02	0.02	0.15
3,800.0	2.54	340.82	3,799.0	63.8	-24.5	-35.0	0.32	0.12	-6.82
3,900.0	2.52	338.00	3,898.9	67.9	-26.0	-37.2	0.13	-0.02	-2.82
4,000.0	2.55	338.13	3,998.8	72.0	-27.7	-39.5	0.03	0.03	0.13
4,100.0	2.88	330.99	4,098.7	76.3	-29.7	-42.3	0.47	0.33	-7.14
4,200.0	3.18	324.05	4,198.5	80.7	-32.6	-45.9	0.47	0.30	-6.94
4,300.0	3.61	317.83	4,298.3	85.3	-36.3	-50.3	0.57	0.43	-6.22
4,400.0	3.89	315.37	4,398.1	90.0	-40.8	-55.6	0.32	0.28	-2.46
4,500.0	4.11	312.92	4,497.9	94.9	-45.8	-61.3	0.28	0.22	-2.45
4,600.0	4.55	308.97	4,597.6	99.8	-51.5	-67.8	0.53	0.44	-3.95
4,700.0	4.82	309.12	4,697.3	105.0	-57.9	-74.9	0.27	0.27	0.15
4,800.0	4.92	309.73	4,796.9	110.3	-64.4	-82.3	0.11	0.10	0.61
4,900.0	4.89	310.10	4,896.5	115.8	-71.0	-89.7	0.04	-0.03	0.37
5,000.0	3.42	309.44	4,996.3	120.5	-76.5	-96.0	1.47	-1.47	-0.66
5,100.0	2.24	305.09	5,096.1	123.5	-80.4	-100.3	1.20	-1.18	-4.35
5,200.0	1.32	298.13	5,196.1	125.2	-83.1	-103.2	0.94	-0.92	-6.96

Survey Report



Company:	Mawbourne Oil Co.	Local Co-ordinate Reference:	Well Zircon 12/7 B2JK Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	Well @ 3412.0usft (Patterson #75)
Site:	Sec 12, T19S, R29E	MD Reference:	Well @ 3412.0usft (Patterson #75)
Well:	Zircon 12/7 B2JK Federal Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	1.12	293.02	5,296.1	126.1	-85.0	-105.2	0.23	-0.20	-5.11
5,400.0	0.85	287.06	5,396.1	126.7	-86.6	-106.9	0.29	-0.27	-5.96
5,500.0	0.41	274.83	5,496.0	126.9	-87.7	-108.0	0.46	-0.44	-12.23
5,600.0	0.32	178.33	5,596.0	126.7	-88.0	-108.3	0.55	-0.09	-96.50
5,700.0	0.36	55.82	5,696.0	126.6	-87.7	-108.0	0.59	0.03	-122.51
5,800.0	0.85	310.29	5,796.0	127.2	-88.1	-108.5	1.00	0.50	-105.53
5,900.0	1.26	310.51	5,896.0	128.4	-89.5	-110.0	0.41	0.41	0.22
6,000.0	1.41	316.73	5,996.0	130.0	-91.1	-112.0	0.21	0.15	6.22
6,100.0	1.50	314.33	6,096.0	131.8	-92.9	-114.0	0.11	0.09	-2.40
6,200.0	1.30	318.01	6,195.9	133.6	-94.6	-116.0	0.22	-0.20	3.68
6,300.0	0.99	316.94	6,295.9	135.1	-96.0	-117.6	0.31	-0.31	-1.07
6,400.0	0.75	316.85	6,395.9	136.2	-97.0	-118.8	0.24	-0.24	-0.09
6,500.0	0.91	301.40	6,495.9	137.1	-98.1	-120.1	0.27	0.16	-15.45
6,600.0	1.41	296.31	6,595.9	138.0	-99.9	-122.0	0.51	0.50	-5.09
6,700.0	2.11	291.76	6,695.8	139.3	-102.7	-125.0	0.71	0.70	-4.55
6,800.0	1.95	291.66	6,795.8	140.6	-106.0	-128.4	0.16	-0.16	-0.10
6,900.0	1.52	265.22	6,895.7	141.1	-108.9	-131.4	0.90	-0.43	-26.44
7,000.0	1.46	250.89	6,995.7	140.6	-111.4	-133.8	0.38	-0.06	-14.33
7,100.0	1.50	269.76	7,095.7	140.1	-113.9	-136.2	0.49	0.04	18.87
7,200.0	1.52	269.92	7,195.6	140.1	-116.6	-138.8	0.02	0.02	0.16
7,300.0	1.44	267.32	7,295.6	140.1	-119.2	-141.3	0.10	-0.08	-2.60
7,400.0	1.54	268.62	7,395.6	140.0	-121.8	-143.9	0.11	0.10	1.30
Tie In @ 7490' MD / 7486' TVD									
7,490.0	1.72	272.66	7,485.5	140.0	-124.3	-146.4	0.24	0.20	4.49
7,543.0	1.20	71.10	7,538.5	140.2	-124.6	-146.7	5.42	-0.98	298.94
7,575.0	4.50	98.70	7,570.5	140.1	-123.0	-145.1	10.88	10.31	86.25
7,607.0	6.70	105.00	7,602.3	139.5	-120.0	-142.0	7.13	6.88	19.69
7,638.0	8.60	100.60	7,633.0	138.6	-116.0	-137.9	6.41	6.13	-14.19
7,670.0	10.00	117.10	7,664.6	136.9	-111.1	-132.9	9.37	4.38	51.56
7,702.0	13.00	121.70	7,696.0	133.7	-105.6	-126.9	9.80	9.38	14.38
7,733.0	16.40	124.10	7,726.0	129.4	-99.0	-119.6	11.14	10.97	7.74
7,765.0	19.50	125.90	7,756.4	123.8	-90.9	-110.7	9.84	9.69	5.63
7,797.0	22.70	127.00	7,786.2	116.9	-81.7	-100.4	10.08	10.00	3.44
7,828.0	25.90	129.20	7,814.5	109.0	-71.7	-89.2	10.73	10.32	7.10
7,860.0	29.00	131.70	7,842.9	99.5	-60.4	-76.5	10.33	9.69	7.81
7,892.0	31.90	134.70	7,870.5	88.3	-48.6	-63.0	10.23	9.06	9.38
7,923.0	34.80	136.40	7,896.4	76.2	-36.7	-49.2	9.83	9.35	5.48
7,955.0	37.30	139.10	7,922.2	62.2	-24.1	-34.3	9.26	7.81	8.44
7,987.0	39.60	141.40	7,947.3	46.9	-11.3	-19.2	8.46	7.19	7.19
8,018.0	42.40	140.80	7,970.7	31.1	1.4	-3.9	9.12	9.03	-1.94
8,050.0	45.70	141.00	7,993.7	13.8	15.5	12.9	10.32	10.31	0.63
8,082.0	48.70	140.80	8,015.4	-4.4	30.3	30.6	9.39	9.38	-0.63
8,113.0	51.90	138.60	8,035.2	-22.6	45.7	48.9	11.68	10.32	-7.10

Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 12, T19S, R29E
Well: Zircon 12/7 B2JK Federal Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Zircon 12/7 B2JK Federal Com #1H
TVD Reference: Well @ 3412.0usft (Patterson #75)
MD Reference: Well @ 3412.0usft (Patterson #75)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,145.0	55.20	138.00	8,054.2	-41.8	62.8	69.0	10.42	10.31	-1.88
8,177.0	58.50	136.60	8,071.7	-61.5	81.0	90.3	10.94	10.31	-4.38
8,209.0	62.20	135.60	8,087.6	-81.5	100.3	112.7	11.88	11.56	-3.13
8,240.0	64.50	132.90	8,101.5	-100.8	120.1	135.5	10.75	7.42	-8.71
8,272.0	66.90	129.80	8,114.6	-120.1	142.0	160.4	11.58	7.50	-9.69
8,303.0	70.00	129.10	8,126.0	-138.4	164.3	185.5	10.22	10.00	-2.26
8,335.0	73.30	128.50	8,136.1	-157.4	187.9	212.0	10.46	10.31	-1.88
8,366.0	76.90	128.50	8,144.1	-176.1	211.4	238.3	11.61	11.61	0.00
8,398.0	80.30	127.80	8,150.4	-195.4	236.0	265.9	10.84	10.63	-2.19
8,429.0	83.40	127.00	8,154.8	-214.1	260.4	293.1	10.32	10.00	-2.58
8,461.0	86.80	125.90	8,157.5	-233.0	286.1	321.6	11.16	10.63	-3.44
8,493.0	90.20	125.00	8,158.4	-251.6	312.1	350.4	10.99	10.63	-2.81
8,524.0	92.60	123.10	8,157.6	-268.9	337.8	378.7	9.87	7.74	-6.13
8,556.0	92.20	119.40	8,156.3	-285.5	365.1	408.5	11.62	-1.25	-11.56
8,587.0	91.90	116.10	8,155.1	-299.9	392.5	437.9	10.68	-0.97	-10.65
8,619.0	92.40	112.70	8,153.9	-313.1	421.7	468.9	10.73	1.56	-10.63
8,651.0	93.60	109.20	8,152.3	-324.5	451.5	500.2	11.55	3.75	-10.94
8,682.0	93.00	105.50	8,150.5	-333.8	481.0	530.9	12.07	-1.94	-11.94
8,714.0	91.60	102.20	8,149.2	-341.4	512.1	562.8	11.19	-4.38	-10.31
8,751.0	89.90	98.70	8,148.7	-348.1	548.4	599.8	10.52	-4.59	-9.46
Crossed Lease Line @ 8799' MD / 8149' TVD									
8,799.4	89.57	97.22	8,148.9	-354.8	596.4	648.2	3.13	-0.68	-3.05
8,869.0	89.10	95.10	8,149.7	-362.3	665.6	717.6	3.13	-0.68	-3.05
8,932.0	89.20	95.00	8,150.7	-367.9	728.3	780.4	0.22	0.16	-0.16
8,995.0	89.20	95.10	8,151.6	-373.4	791.1	843.2	0.16	0.00	0.16
9,059.0	88.20	94.40	8,153.0	-378.7	854.8	906.9	1.91	-1.56	-1.09
9,122.0	88.50	93.00	8,154.8	-382.8	917.7	969.5	2.27	0.48	-2.22
Crossed 330' Hardline @ 9131' MD / 8155' TVD									
9,130.6	88.53	92.81	8,155.1	-383.2	926.2	978.0	2.21	0.31	-2.19
9,154.0	88.60	92.30	8,155.6	-384.2	949.6	1,001.2	2.21	0.31	-2.19
9,217.0	87.80	91.40	8,157.6	-386.3	1,012.6	1,063.6	1.91	-1.27	-1.43
9,249.0	87.90	91.10	8,158.6	-387.0	1,044.5	1,095.2	0.99	0.31	-0.94
9,280.0	88.20	91.30	8,159.9	-387.6	1,075.5	1,125.8	1.16	0.97	0.65
9,312.0	89.00	91.30	8,160.7	-388.3	1,107.5	1,157.5	2.50	2.50	0.00
9,343.0	88.60	90.90	8,161.3	-388.9	1,138.5	1,188.1	1.82	-1.29	-1.29
9,375.0	89.20	91.60	8,161.9	-389.6	1,170.5	1,219.8	2.88	1.88	2.19
9,438.0	93.00	94.30	8,160.7	-392.9	1,233.3	1,282.3	7.40	6.03	4.29
9,502.0	92.50	93.60	8,157.6	-397.3	1,297.1	1,345.9	1.34	-0.78	-1.09
9,565.0	91.50	94.40	8,155.4	-401.7	1,359.9	1,408.5	2.03	-1.59	1.27
9,628.0	90.70	96.40	8,154.2	-407.6	1,422.6	1,471.3	3.42	-1.27	3.17
9,691.0	89.00	96.90	8,154.4	-414.9	1,485.2	1,534.2	2.81	-2.70	0.79
9,755.0	88.40	96.90	8,155.8	-422.6	1,548.7	1,598.1	0.94	-0.94	0.00
9,818.0	87.30	96.70	8,158.2	-430.0	1,611.2	1,661.0	1.77	-1.75	-0.32
9,850.0	85.80	96.90	8,160.1	-433.8	1,642.9	1,692.9	4.73	-4.69	0.63

Survey Report



Company: Mawbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 12, T19S, R29E
Well: Zircon 12/7 B2JK Federal Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Zircon 12/7 B2JK Federal Com #1H
TVD Reference: Well @ 3412.0usft (Patterson #75)
MD Reference: Well @ 3412.0usft (Patterson #75)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass

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)
9,881.0	86.20	96.60	8,162.3	-437.5	1,673.7	1,723.7	1.61	1.29	-0.97
9,913.0	89.10	96.70	8,163.6	-441.2	1,705.4	1,755.7	9.07	9.06	0.31
9,944.0	90.40	96.70	8,163.7	-444.8	1,736.2	1,786.6	4.19	4.19	0.00
9,976.0	89.90	97.40	8,163.7	-448.7	1,768.0	1,818.6	2.69	-1.56	2.19
10,007.0	90.00	97.90	8,163.7	-452.8	1,798.7	1,849.6	1.64	0.32	1.61
10,039.0	89.80	98.10	8,163.7	-457.3	1,830.4	1,881.5	0.88	-0.63	0.63
10,071.0	89.30	97.40	8,164.0	-461.6	1,862.1	1,913.5	2.69	-1.56	-2.19
10,134.0	89.40	97.30	8,164.7	-469.7	1,924.6	1,976.5	0.22	0.16	-0.16
10,198.0	89.20	96.90	8,165.5	-477.6	1,988.1	2,040.4	0.70	-0.31	-0.63
10,261.0	89.40	96.90	8,166.3	-485.1	2,050.6	2,103.3	0.32	0.32	0.00
10,324.0	88.40	96.60	8,167.5	-492.5	2,113.1	2,166.2	1.66	-1.59	-0.48
10,388.0	87.10	96.60	8,170.0	-499.9	2,176.7	2,230.0	2.03	-2.03	0.00
10,451.0	87.20	96.20	8,173.1	-506.9	2,239.2	2,292.9	0.65	0.16	-0.63
10,483.0	88.50	96.20	8,174.3	-510.4	2,271.0	2,324.8	4.06	4.06	0.00
10,546.0	87.90	96.70	8,176.3	-517.4	2,333.6	2,387.6	1.24	-0.95	0.79
10,609.0	88.10	97.40	8,178.5	-525.2	2,396.0	2,450.5	1.15	0.32	1.11
10,673.0	87.80	97.90	8,180.8	-533.7	2,459.4	2,514.4	0.91	-0.47	0.78
10,736.0	90.30	98.50	8,181.8	-542.7	2,521.8	2,577.4	4.08	3.97	0.95
10,799.0	90.00	98.30	8,181.7	-551.9	2,584.1	2,640.4	0.57	-0.48	-0.32
10,862.0	88.60	98.10	8,182.4	-560.8	2,646.5	2,703.3	2.24	-2.22	-0.32
10,925.0	88.10	97.60	8,184.2	-569.4	2,708.8	2,766.3	1.12	-0.79	-0.79
10,988.0	89.80	97.90	8,185.4	-577.9	2,771.2	2,829.2	2.74	2.70	0.48
11,051.0	89.60	97.30	8,185.7	-586.3	2,833.7	2,892.2	1.00	-0.32	-0.95
11,114.0	89.10	97.30	8,186.4	-594.3	2,896.2	2,955.1	0.79	-0.79	0.00
11,177.0	88.60	96.60	8,187.7	-601.9	2,958.7	3,018.0	1.37	-0.79	-1.11
11,241.0	88.00	96.40	8,189.6	-609.1	3,022.3	3,081.9	0.99	-0.94	-0.31
11,304.0	87.90	95.70	8,191.9	-615.8	3,084.9	3,144.7	1.12	-0.16	-1.11
11,336.0	88.20	95.10	8,193.0	-618.8	3,116.7	3,176.6	2.10	0.94	-1.88
11,367.0	88.90	94.30	8,193.7	-621.3	3,147.6	3,207.4	3.43	2.26	-2.58
11,430.0	89.00	94.60	8,194.9	-626.2	3,210.4	3,270.2	0.50	0.16	0.48
Crossed Section Line @ 11454' MD / 8195' TVD									
11,453.6	89.00	94.60	8,195.3	-628.1	3,233.9	3,293.7	0.00	0.00	0.00
11,494.0	89.00	94.60	8,196.0	-631.3	3,274.2	3,333.9	0.00	0.00	0.00
11,557.0	91.90	96.60	8,195.5	-637.5	3,336.9	3,396.7	5.59	4.60	3.17
11,620.0	91.10	96.20	8,193.9	-644.5	3,399.5	3,459.6	1.42	-1.27	-0.63
11,684.0	90.30	95.70	8,193.1	-651.1	3,463.1	3,523.4	1.47	-1.25	-0.78
11,747.0	90.50	94.80	8,192.6	-656.9	3,525.8	3,586.2	1.46	0.32	-1.43
11,810.0	90.20	95.50	8,192.3	-662.6	3,588.6	3,649.0	1.21	-0.48	1.11
11,873.0	88.30	95.50	8,193.1	-668.6	3,651.3	3,711.8	3.02	-3.02	0.00
11,936.0	87.10	95.10	8,195.6	-674.4	3,714.0	3,774.6	2.01	-1.90	-0.63
12,000.0	88.00	95.80	8,198.3	-680.5	3,777.6	3,838.3	1.78	1.41	1.09
12,063.0	87.90	96.00	8,200.6	-687.0	3,840.2	3,901.1	0.35	-0.16	0.32
12,126.0	87.80	96.40	8,203.0	-693.8	3,902.8	3,964.0	0.65	-0.16	0.63
12,189.0	87.30	96.90	8,205.7	-701.0	3,965.3	4,026.8	1.12	-0.79	0.79