15-43893

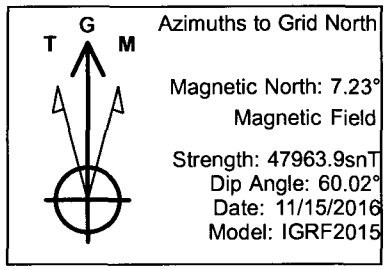
Company Name: Mewbourne Oil Company
Hollywood 28/33 W2IP FED COM 1H
Eddy County, New Mexico
Rig: Patterson #243 - KB 26.5'
Created By: Shane Robbins
Date: 12/7/2016

Hollywood 28/33 W2IP FED COM 1H
Eddy County, New Mexico
Q160730 & WT-160507
Design #2

QES
QUANTUM ENERGY SERVICES

WELL DETAILS:	Hollywood 28/33 W2IP FED COM 1H				
		Ground Level:	3177.6		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	483785.10	545097.10	32° 16' 26.920 N	104° 11' 14.709 W

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

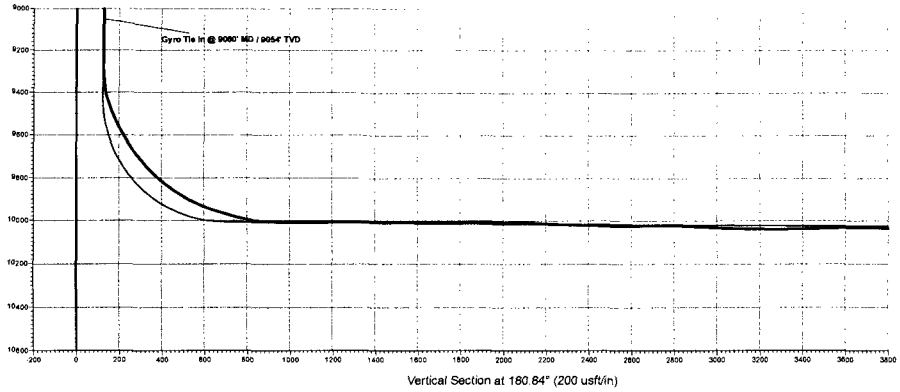


Azimuths to Grid North

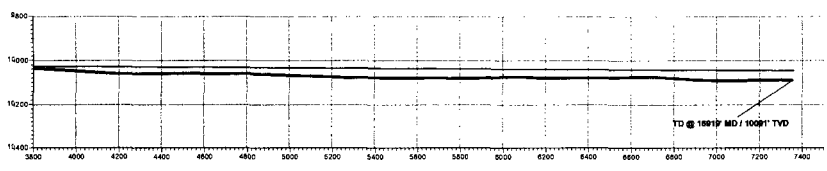
Magnetic North: 7.23°
Magnetic Field
Strength: 47963.9snT
Dip Angle: 60.02°
Date: 11/15/2016
Model: IGRF2015

ANNOTATIONS

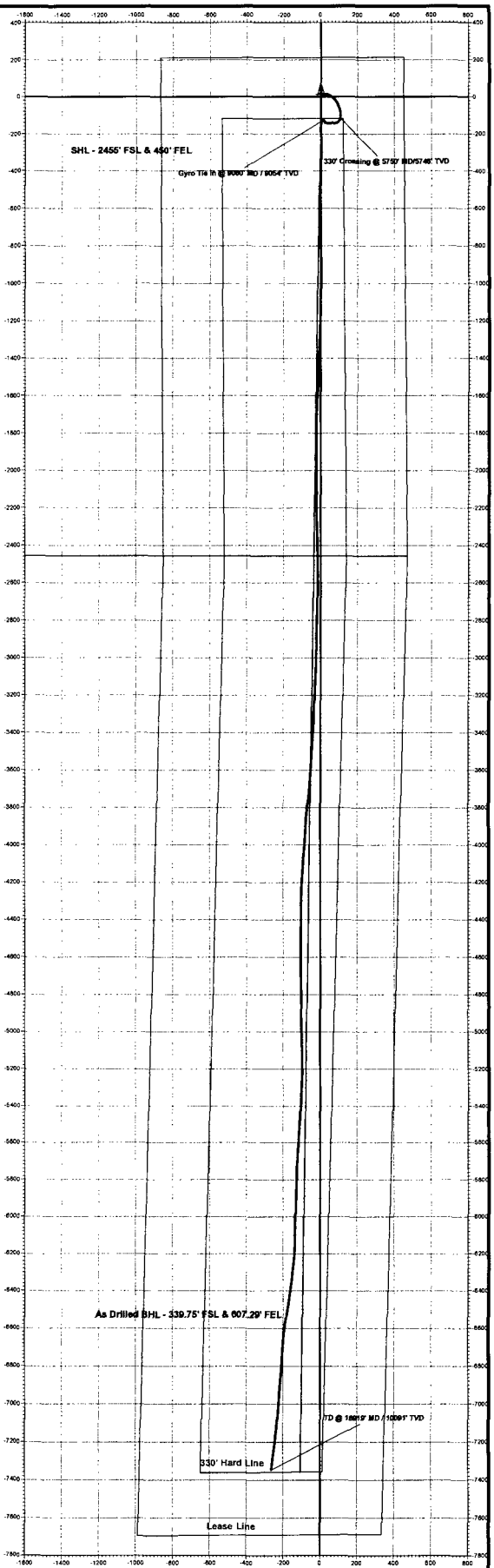
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
5749.8	2.57	195.70	5745.7	-115.9	105.1	114.3	206.5	330' Crossing @ 5750' MD/5746' TVD
9060.0	1.05	294.89	9053.8	-127.5	11.6	127.3	322.0	Gyro Tie In @ 9060' MD / 9054' TVD
16919.0	89.30	187.60	10090.7	-7349.5	-265.3	7352.6	7565.4	TD @ 16919' MD / 10091' TVD



Vertical Section at 180.84° (200 usft/in)



Vertical Section at 180.84° (200 usft/in)



Mewbourne Oil Company

Eddy County, New Mexico
Sec 28, T23S, R27E
Hollywood 28/33 W2IP FED COM 1H

Wellbore #1

Design: Wellbore #1

QES Survey Report

30 March, 2017

QES

[redacted]

Survey Report

QES

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hollywood 28/33 W2IP FED COM 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Site:	Sec 28, T23S, R27E	**MD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Well:	Hollywood 28/33 W2IP FED COM 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM5002

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 28, T23S, R27E				
Site Position:		**Northing:**	463,785.10 usft	**Latitude:**	32° 16' 29.920 N
From:	Map	**Easting:**	545,097.10 usft	**Longitude:**	104° 11' 14.709 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.08 °

Well	Hollywood 28/33 W2IP FED COM 1H					
Well Position	**+N/-S**	0.0 usft	**Northing:**	463,785.10 usft	**Latitude:**	32° 16' 29.920 N
	+E/-W	0.0 usft	**Easting:**	545,097.10 usft	**Longitude:**	104° 11' 14.709 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,177.0 usft

Wellbore	Wellbore #1				
Magnetics	***Model Name***	***Sample Date***	***Declination (°)***	***Dip Angle (°)***	***Field Strength (nT)***
	IGRF2015	11/15/2016	7.30	60.02	47,964

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	180.84		

Survey Program **Date** 3/30/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,060.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro
9,173.0	16,919.0	MWD Surveys (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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.42	328.60	100.0	0.3	-0.2	-0.3	0.42	0.42	0.00
200.0	0.41	347.06	200.0	1.0	-0.5	-1.0	0.13	-0.01	18.46
300.0	0.36	285.50	300.0	1.4	-0.8	-1.4	0.40	-0.05	-61.56
400.0	1.46	77.79	400.0	1.8	0.1	-1.8	1.79	1.10	152.29
500.0	2.23	84.83	499.9	2.2	3.3	-2.3	0.80	0.77	7.04
600.0	2.01	72.83	599.9	2.9	6.9	-3.0	0.49	-0.22	-12.00
700.0	2.35	79.64	699.8	3.8	10.6	-3.9	0.43	0.34	6.81
800.0	2.07	78.39	799.7	4.5	14.4	-4.7	0.28	-0.28	-1.25
900.0	2.56	77.28	899.6	5.4	18.3	-5.6	0.49	0.49	-1.11

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hollywood 28/33 W2IP FED COM 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Site:	Sec 28, T23S, R27E	**MD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Well:	Hollywood 28/33 W2IP FED COM 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM5002

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	2.43	74.22	999.5	6.4	22.5	-6.8	0.19	-0.13	-3.06
1,100.0	1.67	64.60	1,099.5	7.6	25.9	-8.0	0.83	-0.76	-9.62
1,200.0	1.13	309.18	1,199.5	8.9	26.4	-9.3	2.38	-0.54	-115.42
1,300.0	1.26	329.62	1,299.4	10.5	25.1	-10.8	0.44	0.13	20.44
1,400.0	0.60	359.30	1,399.4	11.9	24.6	-12.3	0.80	-0.66	29.68
1,500.0	1.24	68.09	1,499.4	12.9	25.6	-13.2	1.17	0.64	68.79
1,600.0	1.41	77.03	1,599.4	13.5	27.8	-13.9	0.27	0.17	8.94
1,700.0	2.43	98.45	1,699.3	13.5	31.1	-14.0	1.23	1.02	21.42
1,800.0	2.84	93.22	1,799.2	13.1	35.6	-13.6	0.47	0.41	-5.23
1,900.0	1.48	120.63	1,899.2	12.3	39.2	-12.8	1.67	-1.36	27.41
2,000.0	1.66	126.29	1,999.1	10.7	41.5	-11.3	0.24	0.18	5.66
2,100.0	1.66	120.14	2,099.1	9.2	43.9	-9.8	0.18	0.00	-6.15
2,200.0	1.74	126.41	2,199.0	7.5	46.4	-8.2	0.20	0.08	6.27
2,300.0	1.52	112.99	2,299.0	6.1	48.8	-6.8	0.44	-0.22	-13.42
2,400.0	1.53	117.21	2,399.0	5.0	51.2	-5.7	0.11	0.01	4.22
2,500.0	1.87	116.96	2,498.9	3.6	53.9	-4.4	0.34	0.34	-0.25
2,600.0	1.34	117.77	2,598.9	2.3	56.4	-3.2	0.53	-0.53	0.81
2,700.0	1.55	127.92	2,698.8	1.0	58.5	-1.8	0.33	0.21	10.15
2,800.0	1.84	122.62	2,798.8	-0.7	60.9	-0.2	0.33	0.29	-5.30
2,900.0	1.49	127.15	2,898.8	-2.4	63.3	1.4	0.37	-0.35	4.53
3,000.0	1.63	123.36	2,998.7	-3.9	65.5	3.0	0.17	0.14	-3.79
3,100.0	1.77	137.91	3,098.7	-5.9	67.7	4.9	0.45	0.14	14.55
3,200.0	2.02	131.61	3,198.6	-8.2	70.1	7.2	0.33	0.25	-6.30
3,300.0	1.87	145.54	3,298.6	-10.7	72.3	9.6	0.49	-0.15	13.93
3,400.0	1.93	132.66	3,398.5	-13.2	74.5	12.1	0.43	0.06	-12.88
3,500.0	2.41	139.16	3,498.4	-15.9	77.1	14.8	0.54	0.48	6.50
3,600.0	1.91	143.86	3,598.4	-18.9	79.5	17.7	0.53	-0.50	4.70
3,700.0	2.71	147.69	3,698.3	-22.2	81.7	21.0	0.81	0.80	3.83
3,800.0	2.51	153.70	3,798.2	-26.2	83.9	24.9	0.34	-0.20	6.01
3,900.0	2.68	149.38	3,898.1	-30.1	86.1	28.9	0.26	0.17	-4.32
4,000.0	2.93	150.67	3,998.0	-34.4	88.5	33.1	0.26	0.25	1.29
4,100.0	2.53	160.89	4,097.8	-38.7	90.5	37.4	0.63	-0.40	10.22
4,200.0	3.34	150.52	4,197.7	-43.3	92.7	42.0	0.97	0.81	-10.37
4,300.0	3.02	156.24	4,297.6	-48.3	95.2	46.9	0.45	-0.32	5.72
4,400.0	2.90	158.43	4,397.4	-53.0	97.2	51.6	0.16	-0.12	2.19
4,500.0	2.77	163.46	4,497.3	-57.7	98.8	56.2	0.28	-0.13	5.03
4,600.0	3.06	154.86	4,597.2	-62.4	100.6	60.9	0.52	0.29	-8.60
4,700.0	3.11	160.44	4,697.0	-67.4	102.6	65.9	0.30	0.05	5.58
4,800.0	2.93	170.47	4,796.9	-72.5	104.0	70.9	0.56	-0.18	10.03
4,900.0	2.87	170.81	4,896.8	-77.5	104.8	75.9	0.06	-0.06	0.34
5,000.0	2.73	168.73	4,996.6	-82.3	105.7	80.7	0.17	-0.14	-2.08
5,100.0	2.61	169.12	5,096.5	-86.8	106.6	85.3	0.12	-0.12	0.39
5,200.0	2.72	173.38	5,196.4	-91.4	107.3	89.9	0.23	0.11	4.26

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hollywood 28/33 W2IP FED COM 1H
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Site:	Sec 28, T23S, R27E	**MD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Well:	Hollywood 28/33 W2IP FED COM 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM5002

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	2.72	178.56	5,296.3	-96.2	107.6	94.6	0.25	0.00	5.18
5,400.0	2.43	179.34	5,396.2	-100.7	107.7	99.1	0.29	-0.29	0.78
5,500.0	2.51	185.03	5,496.1	-105.0	107.5	103.4	0.26	0.08	5.69
5,600.0	2.64	192.04	5,596.0	-109.4	106.8	107.8	0.34	0.13	7.01
5,700.0	2.54	196.77	5,695.9	-113.8	105.7	112.2	0.24	-0.10	4.73
330' Crossing @ 5750' MD/5746' TVD									
5,749.8	2.57	195.70	5,745.7	-115.9	105.1	114.3	0.11	0.06	-2.15
5,800.0	2.60	194.64	5,795.8	-118.1	104.5	116.5	0.11	0.06	-2.11
5,900.0	2.43	199.02	5,895.7	-122.3	103.2	120.8	0.26	-0.17	4.38
6,000.0	2.61	204.76	5,995.6	-126.4	101.6	124.9	0.31	0.18	5.74
6,100.0	2.30	226.21	6,095.5	-129.8	99.2	128.3	0.96	-0.31	21.45
6,200.0	2.38	218.00	6,195.5	-132.8	96.5	131.4	0.34	0.08	-8.21
6,300.0	2.21	228.10	6,295.4	-135.8	93.7	134.4	0.44	-0.17	10.10
6,400.0	2.30	238.09	6,395.3	-138.1	90.6	136.8	0.40	0.09	9.99
6,500.0	2.36	248.72	6,495.2	-139.9	87.0	138.6	0.44	0.06	10.63
6,600.0	2.60	250.21	6,595.1	-141.4	82.9	140.2	0.25	0.24	1.49
6,700.0	2.55	254.31	6,695.0	-142.8	78.7	141.6	0.19	-0.05	4.10
6,800.0	2.04	257.60	6,794.9	-143.8	74.8	142.7	0.53	-0.51	3.29
6,900.0	1.98	285.00	6,894.9	-143.7	71.4	142.7	0.95	-0.06	27.40
7,000.0	2.22	287.89	6,994.8	-142.7	67.9	141.7	0.26	0.24	2.89
7,100.0	1.93	281.55	7,094.7	-141.7	64.4	140.8	0.37	-0.29	-6.34
7,200.0	2.27	265.84	7,194.7	-141.6	60.7	140.6	0.67	0.34	-15.71
7,300.0	2.14	256.10	7,294.6	-142.1	57.0	141.3	0.40	-0.13	-9.74
7,400.0	2.03	263.21	7,394.5	-142.8	53.4	142.0	0.28	-0.11	7.11
7,500.0	1.68	257.91	7,494.5	-143.3	50.2	142.6	0.39	-0.35	-5.30
7,600.0	1.55	256.70	7,594.4	-143.9	47.4	143.2	0.13	-0.13	-1.21
7,700.0	1.40	262.45	7,694.4	-144.4	44.9	143.7	0.21	-0.15	5.75
7,800.0	1.20	268.22	7,794.4	-144.6	42.7	144.0	0.24	-0.20	5.77
7,900.0	1.66	283.39	7,894.4	-144.3	40.2	143.7	0.59	0.46	15.17
8,000.0	1.86	269.93	7,994.3	-144.0	37.2	143.4	0.46	0.20	-13.46
8,100.0	2.53	282.99	8,094.2	-143.5	33.4	143.0	0.83	0.67	13.06
8,200.0	2.98	282.34	8,194.1	-142.4	28.7	142.0	0.45	0.45	-0.65
8,300.0	2.02	284.16	8,294.0	-141.4	24.5	141.1	0.96	-0.96	1.82
8,400.0	1.55	329.94	8,394.0	-139.8	22.1	139.5	1.45	-0.47	45.78
8,500.0	1.67	338.49	8,493.9	-137.3	20.9	137.0	0.27	0.12	8.55
8,600.0	1.84	319.51	8,593.9	-134.7	19.3	134.4	0.60	0.17	-18.98
8,700.0	1.85	316.92	8,693.8	-132.3	17.1	132.1	0.08	0.01	-2.59
8,800.0	1.27	329.71	8,793.8	-130.2	15.5	129.9	0.67	-0.58	12.79
8,900.0	0.85	311.20	8,893.8	-128.7	14.4	128.5	0.54	-0.42	-18.51
9,000.0	1.25	286.85	8,993.8	-127.9	12.8	127.7	0.59	0.40	-24.35
Gyro Tie In @ 9060' MD / 9054' TVD									
9,060.0	1.05	294.89	9,053.8	-127.5	11.6	127.3	0.43	-0.33	13.40
9,173.0	1.00	300.10	9,166.7	-126.6	9.8	126.4	0.09	-0.04	4.61
9,266.0	1.70	290.20	9,259.7	-125.7	7.8	125.6	0.79	0.75	-10.65

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Well:	Hollywood 28/33 W2IP FED COM 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM5002

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)
9,297.0	1.80	288.30	9,290.7	-125.4	6.9	125.3	0.37	0.32	-6.13
9,328.0	2.80	219.40	9,321.7	-125.8	6.0	125.7	8.80	3.23	-222.26
9,359.0	6.00	199.00	9,352.6	-127.9	5.0	127.9	11.33	10.32	-65.81
9,390.0	10.20	196.40	9,383.3	-132.1	3.7	132.0	13.60	13.55	-8.39
9,422.0	14.30	191.80	9,414.5	-138.7	2.1	138.7	13.16	12.81	-14.38
9,453.0	17.30	188.10	9,444.4	-147.0	0.7	147.0	10.20	9.68	-11.94
9,484.0	20.10	187.20	9,473.7	-156.9	-0.7	156.9	9.08	9.03	-2.90
9,516.0	22.70	182.00	9,503.5	-168.5	-1.6	168.5	10.05	8.13	-16.25
9,547.0	24.80	176.70	9,531.9	-181.0	-1.4	181.0	9.65	6.77	-17.10
9,578.0	27.50	176.30	9,559.7	-194.6	-0.6	194.6	8.73	8.71	-1.29
9,609.0	29.40	175.80	9,587.0	-209.3	0.5	209.3	6.18	6.13	-1.61
9,641.0	31.00	176.90	9,614.6	-225.4	1.5	225.3	5.29	5.00	3.44
9,672.0	33.70	180.60	9,640.8	-242.0	1.8	241.9	10.80	8.71	11.94
9,703.0	36.00	181.60	9,666.3	-259.7	1.5	259.6	7.64	7.42	3.23
9,735.0	37.70	181.40	9,691.9	-278.9	1.0	278.8	5.33	5.31	-0.63
9,766.0	39.60	181.60	9,716.1	-298.2	0.5	298.2	6.14	6.13	0.65
9,798.0	41.60	182.00	9,740.4	-319.0	-0.2	319.0	6.30	6.25	1.25
9,829.0	43.70	182.80	9,763.2	-340.0	-1.1	340.0	7.00	6.77	2.58
9,860.0	46.30	182.30	9,785.1	-361.9	-2.1	361.9	8.46	8.39	-1.61
9,891.0	48.50	182.30	9,806.1	-384.7	-3.0	384.7	7.10	7.10	0.00
9,922.0	50.30	181.40	9,826.2	-408.2	-3.7	408.2	6.21	5.81	-2.90
9,953.0	53.50	181.10	9,845.4	-432.6	-4.3	432.6	10.35	10.32	-0.97
9,984.0	56.30	181.30	9,863.2	-458.0	-4.8	458.0	9.05	9.03	0.65
10,015.0	58.40	180.90	9,879.9	-484.1	-5.3	484.1	6.86	6.77	-1.29
10,046.0	60.80	179.10	9,895.6	-510.8	-5.3	510.8	9.22	7.74	-5.81
10,078.0	63.20	179.90	9,910.6	-539.1	-5.0	539.1	7.82	7.50	2.50
10,109.0	65.70	178.60	9,924.0	-567.0	-4.7	567.0	8.91	8.06	-4.19
10,140.0	67.80	179.90	9,936.2	-595.5	-4.3	595.5	7.79	6.77	4.19
10,172.0	70.70	180.40	9,947.6	-625.4	-4.4	625.4	9.18	9.06	1.56
10,190.0	71.90	180.40	9,953.3	-642.5	-4.5	642.5	6.67	6.67	0.00
10,261.0	73.90	178.60	9,974.2	-710.3	-3.9	710.3	3.72	2.82	-2.54
10,293.0	74.80	178.30	9,982.8	-741.1	-3.1	741.1	2.95	2.81	-0.94
10,324.0	77.00	179.00	9,990.4	-771.2	-2.4	771.1	7.43	7.10	2.26
10,355.0	79.10	177.70	9,996.8	-801.5	-1.5	801.4	7.92	6.77	-4.19
10,387.0	82.50	178.10	10,001.9	-833.0	-0.3	833.0	10.70	10.63	1.25
10,418.0	85.10	177.60	10,005.3	-863.8	0.8	863.7	8.54	8.39	-1.61
10,449.0	87.30	178.10	10,007.3	-894.8	2.0	894.6	7.28	7.10	1.61
10,543.0	90.20	181.10	10,009.4	-988.7	2.6	988.6	4.44	3.09	3.19
10,636.0	90.80	181.10	10,008.6	-1,081.7	0.9	1,081.6	0.65	0.65	0.00
10,730.0	90.00	181.40	10,007.9	-1,175.7	-1.2	1,175.6	0.91	-0.85	0.32
10,824.0	90.60	182.10	10,007.4	-1,269.6	-4.1	1,269.5	0.98	0.64	0.74
10,918.0	89.90	182.70	10,007.0	-1,363.5	-8.0	1,363.5	0.98	-0.74	0.64
11,011.0	88.40	181.80	10,008.4	-1,456.4	-11.6	1,456.5	1.88	-1.61	-0.97

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hollywood 28/33 W2IP FED COM 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Site:	Sec 28, T23S, R27E	**MD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Well:	Hollywood 28/33 W2IP FED COM 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM5002

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)
11,105.0	89.20	182.50	10,010.4	-1,550.4	-15.2	1,550.4	1.13	0.85	0.74
11,199.0	89.70	182.70	10,011.3	-1,644.3	-19.4	1,644.4	0.57	0.53	0.21
11,293.0	89.40	180.70	10,012.0	-1,738.2	-22.2	1,738.3	2.15	-0.32	-2.13
11,387.0	90.80	181.10	10,011.8	-1,832.2	-23.7	1,832.3	1.55	1.49	0.43
11,480.0	90.00	179.50	10,011.2	-1,925.2	-24.2	1,925.3	1.92	-0.86	-1.72
11,574.0	90.50	180.20	10,010.8	-2,019.2	-23.9	2,019.3	0.92	0.53	0.74
11,669.0	88.00	178.80	10,012.0	-2,114.2	-23.1	2,114.3	3.02	-2.63	-1.47
11,763.0	87.70	179.10	10,015.5	-2,208.1	-21.4	2,208.2	0.45	-0.32	0.32
11,857.0	88.20	179.10	10,018.9	-2,302.0	-19.9	2,302.1	0.53	0.53	0.00
11,951.0	87.80	178.80	10,022.2	-2,395.9	-18.2	2,395.9	0.53	-0.43	-0.32
12,046.0	88.10	179.70	10,025.6	-2,490.9	-17.0	2,490.8	1.00	0.32	0.95
12,141.0	91.10	179.90	10,026.3	-2,585.8	-16.6	2,585.8	3.16	3.16	0.21
12,234.0	91.50	181.10	10,024.1	-2,678.8	-17.4	2,678.8	1.36	0.43	1.29
12,328.0	89.40	181.30	10,023.4	-2,772.8	-19.4	2,772.8	2.24	-2.23	0.21
12,422.0	86.70	181.30	10,026.6	-2,866.7	-21.5	2,866.7	2.87	-2.87	0.00
12,516.0	86.50	181.10	10,032.2	-2,960.5	-23.5	2,960.5	0.30	-0.21	-0.21
12,609.0	88.10	182.70	10,036.6	-3,053.4	-26.6	3,053.4	2.43	1.72	1.72
12,702.0	89.00	181.80	10,038.9	-3,146.3	-30.2	3,146.4	1.37	0.97	-0.97
12,796.0	89.80	182.10	10,039.9	-3,240.2	-33.4	3,240.3	0.91	0.85	0.32
12,890.0	90.80	182.50	10,039.4	-3,334.1	-37.2	3,334.3	1.15	1.06	0.43
12,984.0	91.10	184.10	10,037.8	-3,427.9	-42.6	3,428.2	1.73	0.32	1.70
13,078.0	91.90	184.10	10,035.4	-3,521.7	-49.3	3,522.0	0.85	0.85	0.00
13,171.0	92.10	182.50	10,032.1	-3,614.5	-54.7	3,614.9	1.73	0.22	-1.72
13,265.0	87.10	185.30	10,032.8	-3,708.2	-61.1	3,708.7	6.10	-5.32	2.98
13,359.0	87.60	186.70	10,037.1	-3,801.6	-70.9	3,802.2	1.58	0.53	1.49
13,452.0	86.20	183.20	10,042.2	-3,894.1	-78.9	3,894.8	4.05	-1.51	-3.76
13,547.0	87.00	184.10	10,047.8	-3,988.7	-84.9	3,989.5	1.27	0.84	0.95
13,641.0	85.80	184.40	10,053.7	-4,082.3	-91.9	4,083.2	1.32	-1.28	0.32
13,762.0	87.20	183.70	10,061.1	-4,202.7	-100.4	4,203.8	1.29	1.16	-0.58
13,856.0	91.80	181.80	10,061.9	-4,296.6	-104.9	4,297.7	5.29	4.89	-2.02
13,950.0	90.20	179.50	10,060.3	-4,390.6	-106.0	4,391.7	2.98	-1.70	-2.45
14,043.0	90.60	181.40	10,059.6	-4,483.6	-106.7	4,484.6	2.09	0.43	2.04
14,137.0	89.30	179.30	10,059.7	-4,577.6	-107.3	4,578.6	2.63	-1.38	-2.23
14,231.0	89.60	179.70	10,060.6	-4,671.5	-106.5	4,672.6	0.53	0.32	0.43
14,324.0	90.40	178.10	10,060.6	-4,764.5	-104.7	4,765.5	1.92	0.86	-1.72
14,418.0	87.90	178.80	10,062.0	-4,858.5	-102.1	4,859.4	2.76	-2.66	0.74
14,512.0	86.80	178.80	10,066.4	-4,952.3	-100.2	4,953.3	1.17	-1.17	0.00
14,605.0	87.80	178.40	10,070.7	-5,045.2	-97.9	5,046.1	1.16	1.08	-0.43
14,699.0	89.40	179.70	10,073.0	-5,139.2	-96.4	5,140.0	2.19	1.70	1.38
14,792.0	85.90	182.50	10,076.8	-5,232.1	-98.1	5,232.9	4.82	-3.76	3.01
14,886.0	91.10	182.00	10,079.3	-5,325.9	-101.8	5,326.8	5.56	5.53	-0.53
14,980.0	89.30	183.90	10,079.0	-5,419.8	-106.7	5,420.8	2.78	-1.91	2.02
15,074.0	89.00	183.50	10,080.4	-5,513.6	-112.7	5,514.6	0.53	-0.32	-0.43

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hollywood 28/33 W2IP FED COM 1H
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Site:	Sec 28, T23S, R27E	**MD Reference:**	WELL @ 3203.5usft (Patterson #243 - KB 26.5')
Well:	Hollywood 28/33 W2IP FED COM 1H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM5002

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)
15,167.0	90.00	183.70	10,081.2	-5,606.4	-118.6	5,607.5	1.10	1.08	0.22
15,261.0	89.90	183.50	10,081.3	-5,700.2	-124.5	5,701.4	0.24	-0.11	-0.21
15,355.0	88.60	181.80	10,082.5	-5,794.1	-128.8	5,795.4	2.28	-1.38	-1.81
15,447.0	93.10	180.40	10,081.1	-5,886.0	-130.6	5,887.3	5.12	4.89	-1.52
15,541.0	92.00	182.00	10,076.9	-5,979.9	-132.5	5,981.2	2.06	-1.17	1.70
15,635.0	89.00	181.30	10,076.1	-6,073.9	-135.2	6,075.2	3.28	-3.19	-0.74
15,729.0	86.10	181.60	10,080.1	-6,167.7	-137.6	6,169.1	3.10	-3.09	0.32
15,823.0	92.60	187.80	10,081.2	-6,261.3	-145.3	6,262.8	9.55	6.91	6.60
15,917.0	88.60	186.40	10,080.2	-6,354.6	-156.9	6,356.2	4.51	-4.26	-1.49
16,010.0	91.10	189.00	10,080.5	-6,446.7	-169.4	6,448.5	3.88	2.69	2.80
16,104.0	92.10	189.50	10,077.8	-6,539.5	-184.5	6,541.5	1.19	1.06	0.53
16,197.0	91.00	186.70	10,075.3	-6,631.5	-197.6	6,633.7	3.23	-1.18	-3.01
16,291.0	86.90	183.00	10,077.1	-6,725.1	-205.5	6,727.4	5.87	-4.36	-3.94
16,385.0	85.40	184.10	10,083.4	-6,818.7	-211.3	6,821.1	1.98	-1.60	1.17
16,479.0	87.30	186.40	10,089.3	-6,912.1	-219.9	6,914.6	3.17	2.02	2.45
16,573.0	89.60	182.70	10,091.9	-7,005.7	-227.4	7,008.3	4.63	2.45	-3.94
16,667.0	90.50	185.30	10,091.8	-7,099.5	-233.9	7,102.2	2.93	0.96	2.77
16,761.0	91.40	187.80	10,090.3	-7,192.9	-244.7	7,195.7	2.83	0.96	2.66
16,855.0	89.00	187.20	10,089.9	-7,286.1	-256.9	7,289.0	2.63	-2.55	-0.64
16,869.0	89.30	187.60	10,090.1	-7,299.9	-258.7	7,303.0	3.57	2.14	2.86
TD @ 16919' MD / 10091' TVD									
16,919.0	89.30	187.60	10,090.7	-7,349.5	-265.3	7,352.6	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
5,749.8	5,745.7	-115.9	105.1	330' Crossing @ 5750' MD/5746' TVD
9,060.0	9,053.8	-127.5	11.6	Gyro Tie In @ 9060' MD / 9054' TVD
16,919.0	10,090.7	-7,349.5	-265.3	TD @ 16919' MD / 10091' TVD

Checked By: _____ Approved By: _____ Date: _____