Rec'd 8/25/2020 - NMOCD

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
1000 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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

[X] AMENDED REPORT
AS DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-45569	55610	Scharb; Bone Spring

4 Property Code	5 Property Name	6 Well Number
328886	HEREFORD 29/20 B1PA STATE COM	1H

7 OGRID NO.	8 Operator Name	9 Elevation
14744	MEWBOURNE OIL COMPANY	3744'

10 Surface Location

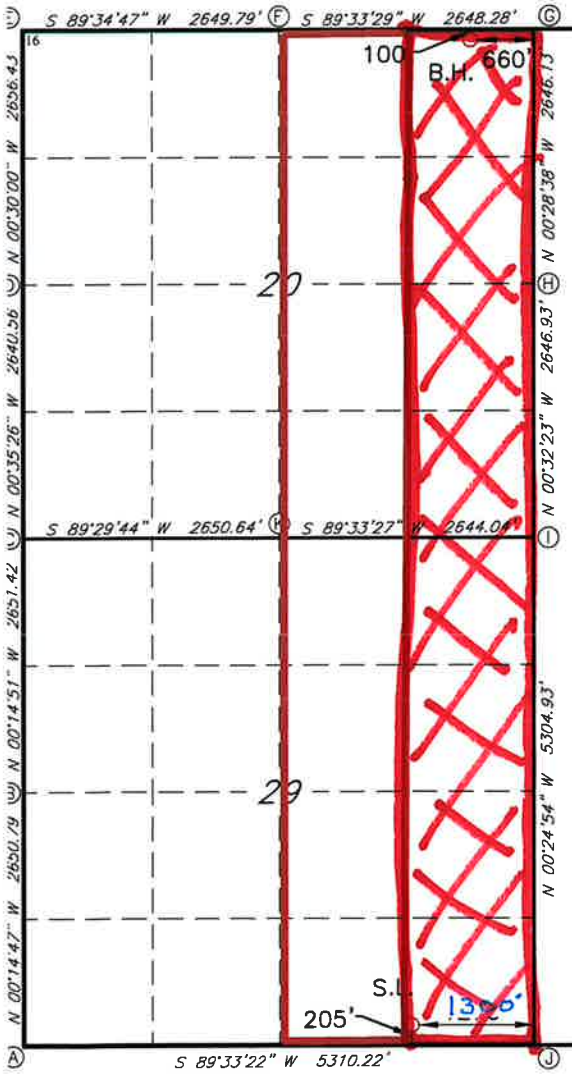
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
P	29	19S	35E		205	SOUTH	1300	EAST	LEA

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
A	20	19S	35E		89	NORTH	678	EAST	LEA

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

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



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION
N 592072.0 – E 805600.5

LAT: 32.6247222° N
LONG: 103.4749819° W

BOTTOM HOLE
N 602367.4 – E 806127.3

LAT: 32.6530064° N
LONG: 103.4730001° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND 2" STEEL PIPE
N 591835.8 – E 801562.7

B: FOUND 1/2" REBAR
N 594486.0 – E 801551.3

C: FOUND 5/8" REBAR
N 597136.9 – E 801539.8

D: FOUND 8"X4"X4" LIMESTONE ROCK
N 599776.8 – E 801512.6

E: FOUND LIMESTONE ROCK
N 602432.6 – E 801489.4

F: FOUND 1/2" REBAR
N 602452.0 – E 804138.6

G: FOUND 5/8" REBAR
N 602472.4 – E 806786.3

H: FOUND 6"X4"X4" LIMESTONE ROCK
N 599826.9 – E 806808.3

I: FOUND 1/2" REBAR
N 597180.6 – E 806833.3

J: FOUND 1" REBAR
N 591876.9 – E 806871.7

K: FOUND 8"X2"X4" LIMESTONE ROCK
N 597160.2 – E 804189.8

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.

Jackie Lathan 8/7/20
Signature Date

Jackie Lathan
Printed Name

jlathan@mewbourne.com
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.

1-17-19
Date of Survey

Signature and Seal of Professional Surveyor:

ROBERT M. HOWETT
NEW MEXICO
19680
PROFESSIONAL SURVEYOR

19680
Certificate Number

1/22/19 NAME, S.L. & B.H CHANGE

RRC – Job No.: LS18101229R

Intent [ ] As Drilled [X]

Rec'd 8/25/2020 - NMOCD

API #
30-025-45569

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Hereford 29/20 B1PA State Com	#1H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	29	19S	35E		14	S	683	E	Lea

Latitude	Longitude	NAD
32.6241992	-103.4730750	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	29	19S	35E		410	S	659	E	Lea

Latitude	Longitude	NAD
32.6252846	-103.4729972	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	20	19S	35E		145	N	675	E	Lea

Latitude	Longitude	NAD
32.6528828	-103.4730503	83

Is this well the defining well for the Horizontal Spacing Unit? [ ]

Is this well an infill well? [ ]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

COMPANY: Mewbourne Oil Company
WELL: Hereford 29/20 B1PA St Com #1H
COUNTY: Lea County N. M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 217
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.23°

STRYKER DIRECTIONAL
OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico Eastern Zone
3744+28 @ 3772.0usft (Patterson 217)
GROUND ELEVATION: 3744.0

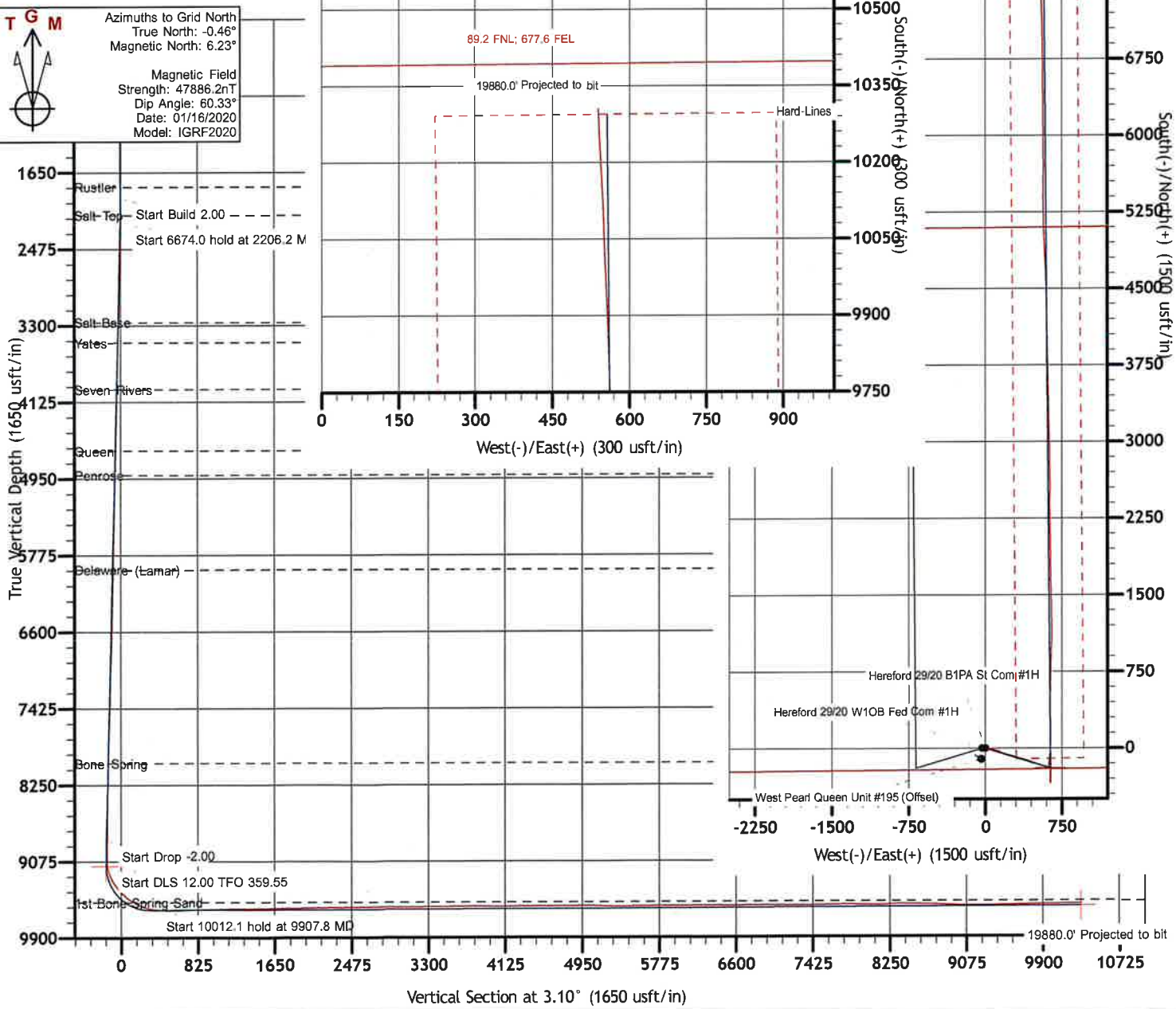
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	592071.80	805570.40	32° 37' 29.000 N	103° 28' 30.286 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1930.0	0.00	0.00	1930.0	0.0	0.0	0.00	0.00	0.0	
3	2206.2	5.52	106.95	2205.8	-3.9	12.7	2.00	106.95	-3.2	
4	8880.2	5.52	106.95	8848.7	-191.1	627.3	0.00	0.00	-157.0	
5	9156.3	0.00	0.00	9124.5	-195.0	640.0	2.00	180.00	-160.1	BB B1PA
6	9907.8	90.17	359.55	9602.0	283.9	636.2	12.00	359.55	317.8	
7	19919.9	90.17	359.55	9572.0	10295.6	556.9	0.00	0.00	10310.7	PBHL B1PA

SHL: 205' FSL; 1300' FEL
Section 29-19S-35E
PBHL: 100 FNL; 660' FEL
Section 20-19S-35E

T G M
Azimuths to Grid North
True North: -0.46°
Magnetic North: 6.23°
Magnetic Field
Strength: 47886.2nT
Dip Angle: 60.33°
Date: 01/16/2020
Model: IGRF2020



MEWBOURNE OIL COMPANY

Mewbourne Oil Company

Lea County N. M. Nad (83)
Section 29 20-19S-35E Hereford
Hereford 29/20 B1PA St Com #1H

Original Hole

Design: As Drilled

Standard Survey Report

24 March, 2020

STRYKER DIRECTIONAL

Stryker Energy Directional Services

Survey Report

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Project Lea County N. M. Nad (83)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Section 29 20-19S-35E Hereford

Site Position:		**Northing:**	592,071.80 usft	**Latitude:**	32° 37' 29.000 N
From:	Map	**Easting:**	805,570.40 usft	**Longitude:**	103° 28' 30.286 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.46 °

Well Hereford 29/20 B1PA St Com #1H

Well Position	**+N/-S**	0.0 usft	**Northing:**	592,071.80 usft	**Latitude:**	32° 37' 29.000 N
	+E/-W	0.0 usft	**Easting:**	805,570.40 usft	**Longitude:**	103° 28' 30.286 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	28.0 usft	**Ground Level:**	3,744.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	01/16/20	6.70	60.33	47,886.16580613

Design As Drilled

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	3.00

Survey Program **Date** 03/24/20

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
117.0	1,871.0	Invictus Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
2,055.0	19,880.0	Stryker Surveys (Original Hole)	MWD	MWD v3:standard declination

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
117.0	1.00	212.70	117.0	-0.9	-0.6	-0.9	0.85	0.85	0.00
294.0	0.60	109.70	294.0	-2.5	-0.5	-2.5	0.72	-0.23	-58.19
419.0	0.90	37.70	419.0	-1.9	0.7	-1.9	0.73	0.24	-57.60
495.0	0.40	57.70	495.0	-1.3	1.3	-1.2	0.71	-0.66	26.32
590.0	0.70	95.70	590.0	-1.2	2.2	-1.1	0.48	0.32	40.00
740.0	0.90	101.70	740.0	-1.5	4.2	-1.3	0.14	0.13	4.00
837.0	1.10	109.70	836.9	-2.0	5.8	-1.7	0.25	0.21	8.25
928.0	0.70	96.70	927.9	-2.3	7.2	-2.0	0.49	-0.44	-14.29
1,116.0	0.70	114.70	1,115.9	-3.0	9.4	-2.5	0.12	0.00	9.57

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

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)
1,305.0	0.90	121.70	1,304.9	-4.2	11.7	-3.6	0.12	0.11	3.70
1,495.0	0.10	315.70	1,494.9	-4.9	12.9	-4.2	0.52	-0.42	-87.37
1,593.0	0.40	39.70	1,592.9	-4.6	13.0	-3.9	0.41	0.31	85.71
1,683.0	0.20	21.70	1,682.9	-4.2	13.3	-3.5	0.24	-0.22	-20.00
1,871.0	0.50	65.70	1,870.9	-3.5	14.1	-2.8	0.20	0.16	23.40
First Stryker Surveys									
2,055.0	1.90	60.40	2,054.8	-1.7	17.5	-0.8	0.76	0.76	-2.88
2,145.0	4.10	82.00	2,144.7	-0.5	22.0	0.6	2.71	2.44	24.00
2,236.0	6.60	90.50	2,235.3	-0.1	30.5	1.5	2.87	2.75	9.34
2,422.0	6.70	105.50	2,420.1	-3.1	51.6	-0.4	0.93	0.05	8.06
2,610.0	6.30	107.80	2,606.9	-9.2	72.0	-5.4	0.25	-0.21	1.22
2,800.0	5.50	106.80	2,795.9	-15.0	90.6	-10.2	0.42	-0.42	-0.53
2,990.0	5.70	102.00	2,984.9	-19.6	108.6	-13.9	0.27	0.11	-2.53
3,179.0	5.70	115.50	3,173.0	-25.6	126.2	-18.9	0.71	0.00	7.14
3,368.0	5.10	118.60	3,361.2	-33.6	142.1	-26.2	0.35	-0.32	1.64
3,554.0	3.90	115.10	3,546.6	-40.3	155.1	-32.1	0.66	-0.65	-1.88
3,596.0	3.70	113.60	3,588.5	-41.4	157.6	-33.1	0.53	-0.48	-3.57
3,663.0	3.50	112.50	3,655.4	-43.1	161.5	-34.6	0.32	-0.30	-1.64
3,789.0	5.10	108.30	3,781.0	-46.3	170.4	-37.3	1.29	1.27	-3.33
3,979.0	4.60	109.80	3,970.3	-51.5	185.5	-41.8	0.27	-0.26	0.79
4,168.0	4.60	104.50	4,158.7	-56.0	200.0	-45.5	0.22	0.00	-2.80
4,357.0	5.60	105.50	4,347.0	-60.4	216.2	-49.0	0.53	0.53	0.53
4,544.0	5.80	101.20	4,533.1	-64.6	234.3	-52.3	0.25	0.11	-2.30
4,731.0	6.00	108.70	4,719.1	-69.6	252.8	-56.3	0.43	0.11	4.01
4,920.0	5.90	105.30	4,907.1	-75.3	271.5	-61.0	0.19	-0.05	-1.80
5,109.0	6.00	108.30	5,095.0	-81.0	290.3	-65.7	0.17	0.05	1.59
5,298.0	5.80	109.70	5,283.0	-87.3	308.7	-71.1	0.13	-0.11	0.74
5,487.0	5.80	105.50	5,471.1	-93.1	326.9	-75.9	0.22	0.00	-2.22
5,677.0	5.50	105.80	5,660.1	-98.1	344.9	-80.0	0.16	-0.16	0.16
5,865.0	5.20	106.30	5,847.3	-103.0	361.7	-83.9	0.16	-0.16	0.27
6,053.0	4.90	101.90	6,034.6	-107.0	377.8	-87.1	0.26	-0.16	-2.34
6,242.0	4.20	103.60	6,223.0	-110.3	392.4	-89.7	0.38	-0.37	0.90
6,429.0	4.80	102.40	6,409.4	-113.6	406.7	-92.2	0.32	0.32	-0.64
6,617.0	5.10	112.10	6,596.7	-118.4	422.1	-96.2	0.47	0.16	5.16
6,806.0	5.30	113.20	6,784.9	-125.0	437.9	-102.0	0.12	0.11	0.58
6,995.0	4.90	118.80	6,973.2	-132.4	453.0	-108.5	0.34	-0.21	2.96
7,185.0	5.30	108.10	7,162.5	-139.0	468.5	-114.3	0.54	0.21	-5.63
7,373.0	5.10	105.00	7,349.7	-143.9	484.8	-118.3	0.18	-0.11	-1.65
7,563.0	5.90	115.70	7,538.8	-150.3	501.7	-123.9	0.68	0.42	5.63
7,752.0	5.80	116.20	7,726.8	-158.7	519.1	-131.4	0.06	-0.05	0.26
7,939.0	5.50	107.50	7,912.9	-165.6	536.1	-137.4	0.48	-0.16	-4.65
8,126.0	5.00	105.70	8,099.1	-170.5	552.5	-141.4	0.28	-0.27	-0.96
8,313.0	4.60	101.50	8,285.5	-174.2	567.7	-144.3	0.28	-0.21	-2.25

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

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)
8,501.0	5.50	104.80	8,472.7	-178.0	583.8	-147.2	0.50	0.48	1.76
8,690.0	4.40	104.80	8,661.0	-182.2	599.5	-150.6	0.58	-0.58	0.00
8,878.0	3.30	101.40	8,848.6	-185.1	611.8	-152.8	0.60	-0.59	-1.81
9,066.0	1.10	64.50	9,036.5	-185.4	618.7	-152.8	1.33	-1.17	-19.63
9,138.0	3.60	17.60	9,108.4	-182.9	620.1	-150.3	4.11	3.47	-65.14
9,185.0	11.50	9.40	9,155.0	-176.9	621.3	-144.2	16.92	16.81	-17.45
9,232.0	18.20	5.00	9,200.4	-164.9	622.7	-132.2	14.45	14.26	-9.36
9,279.0	24.40	7.40	9,244.1	-148.0	624.6	-115.1	13.32	13.19	5.11
9,322.0	30.20	8.80	9,282.3	-128.5	627.4	-95.5	13.57	13.49	3.26
9,374.0	35.00	7.70	9,326.1	-100.7	631.4	-67.6	9.30	9.23	-2.12
9,421.0	38.90	5.10	9,363.7	-72.7	634.5	-39.4	8.94	8.30	-5.53
9,468.0	42.90	2.60	9,399.2	-42.0	636.5	-8.7	9.19	8.51	-5.32
9,515.0	46.20	2.20	9,432.7	-9.0	637.9	24.3	7.05	7.02	-0.85
9,561.0	50.30	1.80	9,463.3	25.3	639.1	58.6	8.94	8.91	-0.87
9,608.0	54.50	1.00	9,492.0	62.5	640.0	95.8	9.04	8.94	-1.70
9,656.0	58.80	359.90	9,518.4	102.6	640.3	135.9	9.16	8.96	-2.29
9,703.0	63.80	359.20	9,540.9	143.8	640.0	177.0	10.72	10.64	-1.49
9,751.0	68.30	359.70	9,560.4	187.6	639.6	220.8	9.42	9.38	1.04
9,798.0	73.10	0.00	9,575.9	232.0	639.4	265.1	10.23	10.21	0.64
9,845.0	77.30	359.60	9,587.9	277.4	639.3	310.4	8.97	8.94	-0.85
9,892.0	81.50	359.90	9,596.6	323.6	639.1	356.5	8.96	8.94	0.64
9,908.0	83.00	359.90	9,598.7	339.4	639.1	372.4	9.38	9.38	0.00
9,963.0	89.10	0.30	9,602.5	394.3	639.1	427.1	11.11	11.09	0.73
10,057.0	89.40	359.60	9,603.8	488.3	639.1	521.0	0.81	0.32	-0.74
10,152.0	90.10	1.80	9,604.2	583.3	640.2	615.9	2.43	0.74	2.32
10,247.0	92.40	1.40	9,602.1	678.2	642.9	710.9	2.46	2.42	-0.42
10,341.0	92.30	1.30	9,598.3	772.1	645.1	804.7	0.15	-0.11	-0.11
10,435.0	91.30	1.00	9,595.3	866.0	647.0	898.6	1.11	-1.06	-0.32
10,530.0	91.60	1.70	9,592.9	961.0	649.2	993.6	0.80	0.32	0.74
10,625.0	91.60	1.70	9,590.2	1,055.9	652.0	1,088.5	0.00	0.00	0.00
10,719.0	90.70	0.50	9,588.4	1,149.8	653.8	1,182.4	1.60	-0.96	-1.28
10,814.0	90.90	359.60	9,587.0	1,244.8	653.9	1,277.3	0.97	0.21	-0.95
10,906.0	90.60	358.00	9,585.8	1,336.8	652.0	1,369.0	1.77	-0.33	-1.74
11,000.0	90.60	357.80	9,584.8	1,430.7	648.5	1,462.7	0.21	0.00	-0.21
11,095.0	90.70	358.90	9,583.8	1,525.7	645.8	1,557.3	1.16	0.11	1.16
11,190.0	90.20	359.10	9,583.0	1,620.7	644.2	1,652.1	0.57	-0.53	0.21
11,284.0	90.10	1.80	9,582.8	1,714.7	644.9	1,746.0	2.87	-0.11	2.87
11,379.0	90.60	358.90	9,582.2	1,809.6	645.5	1,840.9	3.10	0.53	-3.05
11,473.0	90.90	358.70	9,581.0	1,903.6	643.5	1,934.6	0.38	0.32	-0.21
11,567.0	91.70	358.60	9,578.8	1,997.6	641.3	2,028.3	0.86	0.85	-0.11
11,658.0	91.00	358.70	9,576.7	2,088.5	639.1	2,119.1	0.78	-0.77	0.11
11,753.0	90.60	359.60	9,575.4	2,183.5	637.7	2,213.8	1.04	-0.42	0.95
11,849.0	90.90	357.18	9,574.1	2,279.4	635.0	2,309.5	2.54	0.31	-2.52

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

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)
11,944.0	91.20	359.99	9,572.4	2,374.4	632.7	2,404.2	2.97	0.32	2.96
11,987.0	91.40	2.10	9,571.4	2,417.4	633.5	2,447.2	4.93	0.47	4.91
12,050.0	93.10	1.60	9,568.9	2,480.3	635.5	2,510.1	2.81	2.70	-0.79
12,145.0	88.80	0.25	9,567.3	2,575.2	637.0	2,605.0	4.74	-4.53	-1.42
12,239.0	89.40	359.29	9,568.8	2,669.2	636.7	2,698.8	1.20	0.64	-1.02
12,333.0	90.20	359.20	9,569.1	2,763.2	635.4	2,792.6	0.86	0.85	-0.10
12,427.0	91.60	359.02	9,567.7	2,857.2	634.0	2,886.4	1.50	1.49	-0.19
12,522.0	89.50	359.11	9,566.8	2,952.2	632.4	2,981.2	2.21	-2.21	0.09
12,616.0	87.40	358.85	9,569.3	3,046.1	630.7	3,074.9	2.25	-2.23	-0.28
12,711.0	90.80	358.50	9,570.8	3,141.1	628.6	3,169.6	3.60	3.58	-0.37
12,806.0	91.20	358.94	9,569.1	3,236.0	626.4	3,264.3	0.63	0.42	0.46
12,899.0	91.90	358.76	9,566.6	3,329.0	624.6	3,357.0	0.78	0.75	-0.19
12,994.0	89.50	358.67	9,565.5	3,423.9	622.4	3,451.8	2.53	-2.53	-0.09
13,089.0	92.00	358.67	9,564.2	3,518.9	620.2	3,546.5	2.63	2.63	0.00
13,183.0	90.10	358.76	9,562.5	3,612.8	618.1	3,640.2	2.02	-2.02	0.10
13,277.0	91.00	358.67	9,561.6	3,706.8	616.0	3,733.9	0.96	0.96	-0.10
13,372.0	89.20	359.29	9,561.4	3,801.8	614.3	3,828.7	2.00	-1.89	0.65
13,467.0	89.00	358.67	9,562.9	3,896.8	612.6	3,923.5	0.69	-0.21	-0.65
13,561.0	89.70	358.67	9,564.0	3,990.7	610.4	4,017.2	0.74	0.74	0.00
13,655.0	90.20	358.32	9,564.1	4,084.7	608.0	4,110.9	0.65	0.53	-0.37
13,749.0	91.60	358.23	9,562.6	4,178.6	605.2	4,204.6	1.49	1.49	-0.10
13,842.0	90.30	359.29	9,561.0	4,271.6	603.1	4,297.3	1.80	-1.40	1.14
13,936.0	91.40	358.94	9,559.6	4,365.6	601.7	4,391.1	1.23	1.17	-0.37
14,031.0	90.00	359.64	9,558.5	4,460.6	600.5	4,485.8	1.65	-1.47	0.74
14,125.0	89.20	359.37	9,559.1	4,554.6	599.7	4,579.7	0.90	-0.85	-0.29
14,219.0	89.20	358.32	9,560.5	4,648.5	597.8	4,673.4	1.12	0.00	-1.12
14,315.0	90.60	357.35	9,560.6	4,744.5	594.2	4,769.0	1.77	1.46	-1.01
14,409.0	91.60	355.86	9,558.8	4,838.3	588.6	4,862.4	1.91	1.06	-1.59
14,502.0	90.10	357.44	9,557.4	4,931.1	583.2	4,954.8	2.34	-1.61	1.70
14,598.0	88.70	358.58	9,558.4	5,027.0	579.8	5,050.5	1.88	-1.46	1.19
14,692.0	88.60	358.41	9,560.7	5,121.0	577.4	5,144.1	0.21	-0.11	-0.18
14,787.0	88.60	357.79	9,563.0	5,215.9	574.2	5,238.8	0.65	0.00	-0.65
14,881.0	88.70	359.37	9,565.2	5,309.8	571.9	5,332.5	1.68	0.11	1.68
14,976.0	90.10	0.52	9,566.2	5,404.8	571.8	5,427.3	1.91	1.47	1.21
15,071.0	91.30	0.87	9,565.0	5,499.8	573.0	5,522.2	1.32	1.26	0.37
15,165.0	92.30	1.22	9,562.1	5,593.7	574.7	5,616.1	1.13	1.06	0.37
15,259.0	90.80	359.90	9,559.5	5,687.7	575.6	5,710.0	2.13	-1.60	-1.40
15,354.0	88.70	358.76	9,559.9	5,782.7	574.5	5,804.8	2.52	-2.21	-1.20
15,448.0	89.80	359.64	9,561.2	5,876.7	573.2	5,898.6	1.50	1.17	0.94
15,542.0	90.80	359.64	9,560.7	5,970.7	572.6	5,992.4	1.06	1.06	0.00
15,637.0	90.80	359.20	9,559.4	6,065.6	571.6	6,087.2	0.46	0.00	-0.46
15,732.0	92.00	359.37	9,557.0	6,160.6	570.4	6,182.0	1.28	1.26	0.18
15,827.0	90.00	0.69	9,555.4	6,255.6	570.5	6,276.8	2.52	-2.11	1.39
15,921.0	88.00	359.37	9,557.0	6,349.6	570.5	6,370.7	2.55	-2.13	-1.40

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

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)
16,016.0	89.90	359.81	9,558.8	6,444.5	569.9	6,465.5	2.05	2.00	0.46
16,110.0	88.30	358.76	9,560.2	6,538.5	568.7	6,559.3	2.04	-1.70	-1.12
16,205.0	91.80	0.61	9,560.2	6,633.5	568.2	6,654.1	4.17	3.68	1.95
16,300.0	90.70	359.73	9,558.1	6,728.5	568.4	6,749.0	1.48	-1.16	-0.93
16,395.0	91.70	359.46	9,556.1	6,823.4	567.8	6,843.8	1.09	1.05	-0.28
16,489.0	90.70	358.67	9,554.1	6,917.4	566.2	6,937.6	1.36	-1.06	-0.84
16,583.0	87.90	358.14	9,555.3	7,011.4	563.6	7,031.2	3.03	-2.98	-0.56
16,678.0	88.70	358.41	9,558.1	7,106.3	560.8	7,125.9	0.89	0.84	0.28
16,773.0	90.00	358.32	9,559.2	7,201.2	558.1	7,220.5	1.37	1.37	-0.09
16,868.0	90.70	358.14	9,558.6	7,296.2	555.1	7,315.2	0.76	0.74	-0.19
16,961.0	91.00	359.81	9,557.2	7,389.2	553.5	7,408.0	1.82	0.32	1.80
17,056.0	89.20	359.02	9,557.0	7,484.1	552.5	7,502.8	2.07	-1.89	-0.83
17,150.0	92.00	2.19	9,556.1	7,578.1	553.5	7,596.7	4.50	2.98	3.37
17,244.0	90.30	0.87	9,554.2	7,672.1	556.0	7,690.6	2.29	-1.81	-1.40
17,338.0	90.90	1.13	9,553.2	7,766.0	557.6	7,784.6	0.70	0.64	0.28
17,433.0	89.80	1.22	9,552.6	7,861.0	559.6	7,879.5	1.16	-1.16	0.09
17,527.0	88.90	359.99	9,553.7	7,955.0	560.6	7,973.4	1.62	-0.96	-1.31
17,622.0	88.00	359.64	9,556.2	8,050.0	560.3	8,068.2	1.02	-0.95	-0.37
17,716.0	92.00	1.40	9,556.2	8,143.9	561.1	8,162.1	4.65	4.26	1.87
17,810.0	93.10	1.75	9,552.1	8,237.8	563.7	8,256.0	1.23	1.17	0.37
17,905.0	91.30	1.31	9,548.4	8,332.7	566.2	8,350.9	1.95	-1.89	-0.46
17,999.0	89.80	0.78	9,547.5	8,426.7	567.9	8,444.8	1.69	-1.60	-0.56
18,092.0	88.40	0.52	9,549.0	8,519.7	569.0	8,537.7	1.53	-1.51	-0.28
18,187.0	88.60	0.87	9,551.5	8,614.6	570.1	8,632.6	0.42	0.21	0.37
18,282.0	89.20	0.78	9,553.3	8,709.6	571.5	8,727.5	0.64	0.63	-0.09
18,377.0	88.10	0.08	9,555.5	8,804.6	572.2	8,822.4	1.37	-1.16	-0.74
18,471.0	86.50	359.11	9,559.9	8,898.4	571.6	8,916.2	1.99	-1.70	-1.03
18,565.0	89.00	359.73	9,563.6	8,992.4	570.6	9,009.9	2.74	2.66	0.66
18,660.0	89.70	0.61	9,564.7	9,087.3	570.9	9,104.8	1.18	0.74	0.93
18,753.0	90.60	0.52	9,564.5	9,180.3	571.8	9,197.7	0.97	0.97	-0.10
18,847.0	90.80	359.73	9,563.3	9,274.3	572.0	9,291.6	0.87	0.21	-0.84
18,940.0	88.40	357.53	9,564.0	9,367.3	569.8	9,384.3	3.50	-2.58	-2.37
19,034.0	92.10	358.50	9,563.6	9,461.2	566.5	9,477.9	4.07	3.94	1.03
19,127.0	92.20	359.55	9,560.1	9,554.1	565.0	9,570.6	1.13	0.11	1.13
19,221.0	92.60	359.29	9,556.1	9,648.1	564.0	9,664.3	0.51	0.43	-0.28
19,313.0	89.80	358.14	9,554.2	9,740.0	561.9	9,756.1	3.29	-3.04	-1.25
19,408.0	93.00	359.46	9,551.9	9,834.9	560.0	9,850.8	3.64	3.37	1.39
19,502.0	88.10	356.03	9,551.0	9,928.8	556.3	9,944.3	6.36	-5.21	-3.65
19,596.0	91.60	358.23	9,551.2	10,022.7	551.6	10,037.8	4.40	3.72	2.34
19,690.0	91.20	358.06	9,548.9	10,116.6	548.5	10,131.4	0.46	-0.43	-0.18
19,784.0	89.10	356.39	9,548.7	10,210.5	544.0	10,225.0	2.85	-2.23	-1.78
19,824.0	89.60	357.40	9,549.1	10,250.4	541.8	10,264.7	2.82	1.25	2.53
19,880.0	89.60	357.40	9,549.5	10,306.4	539.3	10,320.5	0.00	0.00	0.00

Stryker Energy Directional Services

Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	TVD Reference:	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	MD Reference:	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	EDM5000

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)
19880.0' Projected to bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,871.0	1,870.9	-3.5	14.1	First Stryker Surveys
19,880.0	9,549.5	10,306.4	539.3	19880.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____

STRYKER
DIRECTIONAL

April 7, 2020

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Hereford 29 20 B1PA State Com #1H
Scharb; Bone Spring
Lea County, New Mexico
API# 30-025-45569

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

Name & Title	Drainhole No.	Survey Depths	Dates Performed	Type Survey
Cody Hash	Original Hole	2,055ft. to 19,824ft.	02-08-20 to 03-13-20	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Eric Estes

Enclosures

CC: Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Hereford 29 20 B1PA St Com #1H\M201011

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163

STRYKER
DIRECTIONAL

April 7, 2020

Survey Certification Report

STATE OF **TEXAS**

COUNTY OF **Montgomery**

I, Eric Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of February 8, 2020, through March 13, 2020 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 2,055feet to a depth of 19,824feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Hereford 29 20 B1PA State Com #1H,well API # **30-025-45569** in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Eric Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-588-4163

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Survey Program **Date** 03/24/20

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
117.0	1,871.0	Invictus Surveys (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
2,055.0	19,880.0	Stryker Surveys (Original Hole)	MWD	MWD v3:standard declination

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	592,071.80	805,570.40
117.0	1.00	212.70	117.0	-0.9	-0.6	1.0	212.70	0.85	592,070.94	805,569.85
294.0	0.60	109.70	294.0	-2.5	-0.5	2.5	191.74	0.72	592,069.33	805,569.89
419.0	0.90	37.70	419.0	-1.9	0.7	2.0	159.84	0.73	592,069.88	805,571.10
495.0	0.40	57.70	495.0	-1.3	1.3	1.8	135.20	0.71	592,070.50	805,571.69
590.0	0.70	95.70	590.0	-1.2	2.2	2.5	118.79	0.48	592,070.62	805,572.55
740.0	0.90	101.70	740.0	-1.5	4.2	4.5	109.73	0.14	592,070.29	805,574.62
837.0	1.10	109.70	836.9	-2.0	5.8	6.2	108.73	0.25	592,069.82	805,576.24
928.0	0.70	96.70	927.9	-2.3	7.2	7.6	107.97	0.49	592,069.46	805,577.61
1,116.0	0.70	114.70	1,115.9	-3.0	9.4	9.8	107.45	0.12	592,068.85	805,579.80
1,305.0	0.90	121.70	1,304.9	-4.2	11.7	12.4	109.80	0.12	592,067.58	805,582.11
1,495.0	0.10	315.70	1,494.9	-4.9	12.9	13.8	110.78	0.52	592,066.92	805,583.26
1,593.0	0.40	39.70	1,592.9	-4.6	13.0	13.8	109.29	0.41	592,067.24	805,583.42
1,683.0	0.20	21.70	1,682.9	-4.2	13.3	13.9	107.43	0.24	592,067.63	805,583.68
1,871.0	0.50	65.70	1,870.9	-3.5	14.1	14.6	104.00	0.20	592,068.27	805,584.55
First Stryker Surveys										
2,055.0	1.90	60.40	2,054.8	-1.7	17.5	17.6	95.50	0.76	592,070.11	805,587.93
2,145.0	4.10	82.00	2,144.7	-0.5	22.0	22.0	91.31	2.71	592,071.30	805,592.42
2,236.0	6.60	90.50	2,235.3	-0.1	30.5	30.5	90.18	2.87	592,071.70	805,600.87
2,422.0	6.70	105.50	2,420.1	-3.1	51.6	51.7	93.43	0.93	592,068.71	805,622.01
2,610.0	6.30	107.80	2,606.9	-9.2	72.0	72.6	97.26	0.25	592,062.63	805,642.40

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,800.0	5.50	106.80	2,795.9	-15.0	90.6	91.9	99.39	0.42	592,056.81	805,661.05
2,990.0	5.70	102.00	2,984.9	-19.6	108.6	110.3	100.22	0.27	592,052.21	805,678.99
3,179.0	5.70	115.50	3,173.0	-25.6	126.2	128.8	101.45	0.71	592,046.22	805,696.65
3,368.0	5.10	118.60	3,361.2	-33.6	142.1	146.0	103.32	0.35	592,038.16	805,712.49
3,554.0	3.90	115.10	3,546.6	-40.3	155.1	160.2	104.56	0.66	592,031.52	805,725.48
3,596.0	3.70	113.60	3,588.5	-41.4	157.6	163.0	104.73	0.53	592,030.37	805,728.02
3,663.0	3.50	112.50	3,655.4	-43.1	161.5	167.1	104.94	0.32	592,028.72	805,731.89
3,789.0	5.10	108.30	3,781.0	-46.3	170.4	176.5	105.21	1.29	592,025.49	805,740.76
3,979.0	4.60	109.80	3,970.3	-51.5	185.5	192.6	105.52	0.27	592,020.26	805,755.94
4,168.0	4.60	104.50	4,158.7	-56.0	200.0	207.7	105.64	0.22	592,015.79	805,770.41
4,357.0	5.60	105.50	4,347.0	-60.4	216.2	224.5	105.60	0.53	592,011.43	805,786.64
4,544.0	5.80	101.20	4,533.1	-64.6	234.3	243.1	105.42	0.25	592,007.16	805,804.70
4,731.0	6.00	108.70	4,719.1	-69.6	252.8	262.2	105.39	0.43	592,002.19	805,823.22
4,920.0	5.90	105.30	4,907.1	-75.3	271.5	281.8	105.51	0.19	591,996.46	805,841.95
5,109.0	6.00	108.30	5,095.0	-81.0	290.3	301.4	105.59	0.17	591,990.79	805,860.70
5,298.0	5.80	109.70	5,283.0	-87.3	308.7	320.8	105.80	0.13	591,984.47	805,879.07
5,487.0	5.80	105.50	5,471.1	-93.1	326.9	339.9	105.90	0.22	591,978.70	805,897.26
5,677.0	5.50	105.80	5,660.1	-98.1	344.9	358.6	105.89	0.16	591,973.66	805,915.27
5,865.0	5.20	106.30	5,847.3	-103.0	361.7	376.1	105.89	0.16	591,968.81	805,932.12
6,053.0	4.90	101.90	6,034.6	-107.0	377.8	392.6	105.82	0.26	591,964.77	805,948.15
6,242.0	4.20	103.60	6,223.0	-110.3	392.4	407.6	105.70	0.38	591,961.47	805,962.78
6,429.0	4.80	102.40	6,409.4	-113.6	406.7	422.2	105.61	0.32	591,958.18	805,977.08
6,617.0	5.10	112.10	6,596.7	-118.4	422.1	438.4	105.68	0.47	591,953.35	805,992.50
6,806.0	5.30	113.20	6,784.9	-125.0	437.9	455.4	105.94	0.12	591,946.75	806,008.31
6,995.0	4.90	118.80	6,973.2	-132.4	453.0	471.9	106.29	0.34	591,939.42	806,023.40
7,185.0	5.30	108.10	7,162.5	-139.0	468.5	488.6	106.53	0.54	591,932.79	806,038.86
7,373.0	5.10	105.00	7,349.7	-143.9	484.8	505.7	106.53	0.18	591,927.93	806,055.18

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,563.0	5.90	115.70	7,538.8	-150.3	501.7	523.8	106.68	0.68	591,921.51	806,072.14
7,752.0	5.80	116.20	7,726.8	-158.7	519.1	542.8	107.00	0.06	591,913.08	806,089.46
7,939.0	5.50	107.50	7,912.9	-165.6	536.1	561.1	107.17	0.48	591,906.21	806,106.48
8,126.0	5.00	105.70	8,099.1	-170.5	552.5	578.2	107.15	0.28	591,901.31	806,122.88
8,313.0	4.60	101.50	8,285.5	-174.2	567.7	593.8	107.06	0.28	591,897.61	806,138.07
8,501.0	5.50	104.80	8,472.7	-178.0	583.8	610.3	106.96	0.50	591,893.81	806,154.17
8,690.0	4.40	104.80	8,661.0	-182.2	599.5	626.6	106.90	0.58	591,889.64	806,169.93
8,878.0	3.30	101.40	8,848.6	-185.1	611.8	639.2	106.83	0.60	591,886.73	806,182.21
9,066.0	1.10	64.50	9,036.5	-185.4	618.7	645.9	106.68	1.33	591,886.44	806,189.15
9,138.0	3.60	17.60	9,108.4	-182.9	620.1	646.5	106.44	4.11	591,888.89	806,190.45
9,185.0	11.50	9.40	9,155.0	-176.9	621.3	646.0	105.89	16.92	591,894.93	806,191.67
9,232.0	18.20	5.00	9,200.4	-164.9	622.7	644.1	104.83	14.45	591,906.88	806,193.07
9,279.0	24.40	7.40	9,244.1	-148.0	624.6	641.9	103.33	13.32	591,923.83	806,194.97
9,322.0	30.20	8.80	9,282.3	-128.5	627.4	640.4	101.57	13.57	591,943.34	806,197.77
9,374.0	35.00	7.70	9,326.1	-100.7	631.4	639.4	99.07	9.30	591,971.06	806,201.77
9,421.0	38.90	5.10	9,363.7	-72.7	634.5	638.6	96.53	8.94	591,999.13	806,204.89
9,468.0	42.90	2.60	9,399.2	-42.0	636.5	637.9	93.77	9.19	592,029.83	806,206.92
9,515.0	46.20	2.20	9,432.7	-9.0	637.9	638.0	90.81	7.05	592,062.77	806,208.30
9,561.0	50.30	1.80	9,463.3	25.3	639.1	639.6	87.74	8.94	592,097.06	806,209.50
9,608.0	54.50	1.00	9,492.0	62.5	640.0	643.0	84.42	9.04	592,134.27	806,210.40
9,656.0	58.80	359.90	9,518.4	102.6	640.3	648.5	80.90	9.16	592,174.36	806,210.70
9,703.0	63.80	359.20	9,540.9	143.8	640.0	655.9	77.34	10.72	592,215.57	806,210.37
9,751.0	68.30	359.70	9,560.4	187.6	639.6	666.5	73.65	9.42	592,259.42	806,209.96
9,798.0	73.10	0.00	9,575.9	232.0	639.4	680.2	70.06	10.23	592,303.77	806,209.84
9,845.0	77.30	359.60	9,587.9	277.4	639.3	696.9	66.54	8.97	592,349.20	806,209.68
9,892.0	81.50	359.90	9,596.6	323.6	639.1	716.3	63.15	8.96	592,395.39	806,209.48
9,908.0	83.00	359.90	9,598.7	339.4	639.1	723.6	62.02	9.37	592,411.24	806,209.45

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
9,963.0	89.10	0.30	9,602.5	394.3	639.1	751.0	58.33	11.11	592,466.08	806,209.55
10,057.0	89.40	359.60	9,603.8	488.3	639.1	804.2	52.62	0.81	592,560.07	806,209.47
10,152.0	90.10	1.80	9,604.2	583.3	640.2	866.1	47.67	2.43	592,655.06	806,210.63
10,247.0	92.40	1.40	9,602.1	678.2	642.9	934.5	43.47	2.46	592,749.99	806,213.28
10,341.0	92.30	1.30	9,598.3	772.1	645.1	1,006.1	39.88	0.15	592,843.89	806,215.49
10,435.0	91.30	1.00	9,595.3	866.0	647.0	1,081.0	36.76	1.11	592,937.82	806,217.38
10,530.0	91.60	1.70	9,592.9	961.0	649.2	1,159.7	34.04	0.80	593,032.76	806,219.62
10,625.0	91.60	1.70	9,590.2	1,055.9	652.0	1,241.0	31.70	0.00	593,127.68	806,222.43
10,719.0	90.70	0.50	9,588.4	1,149.8	653.8	1,322.7	29.62	1.60	593,221.65	806,224.24
10,814.0	90.90	359.60	9,587.0	1,244.8	653.9	1,406.1	27.71	0.97	593,316.64	806,224.32
10,906.0	90.60	358.00	9,585.8	1,336.8	652.0	1,487.3	26.00	1.77	593,408.60	806,222.39
11,000.0	90.60	357.80	9,584.8	1,430.7	648.5	1,570.9	24.38	0.21	593,502.54	806,218.95
11,095.0	90.70	358.90	9,583.8	1,525.7	645.8	1,656.7	22.94	1.16	593,597.49	806,216.21
11,190.0	90.20	359.10	9,583.0	1,620.7	644.2	1,744.0	21.68	0.57	593,692.47	806,214.56
11,284.0	90.10	1.80	9,582.8	1,714.7	644.9	1,831.9	20.61	2.87	593,786.46	806,215.29
11,379.0	90.60	358.90	9,582.2	1,809.6	645.5	1,921.3	19.63	3.10	593,881.45	806,215.87
11,473.0	90.90	358.70	9,581.0	1,903.6	643.5	2,009.4	18.68	0.38	593,975.42	806,213.91
11,567.0	91.70	358.60	9,578.8	1,997.6	641.3	2,098.0	17.80	0.86	594,069.37	806,211.69
11,658.0	91.00	358.70	9,576.7	2,088.5	639.1	2,184.1	17.02	0.78	594,160.31	806,209.55
11,753.0	90.60	359.60	9,575.4	2,183.5	637.7	2,274.7	16.28	1.04	594,255.29	806,208.14
11,849.0	90.90	357.18	9,574.1	2,279.4	635.0	2,366.2	15.57	2.54	594,351.24	806,205.44
11,944.0	91.20	359.99	9,572.4	2,374.4	632.7	2,457.2	14.92	2.97	594,446.19	806,203.10
11,987.0	91.40	2.10	9,571.4	2,417.4	633.5	2,499.0	14.68	4.93	594,489.16	806,203.88
12,050.0	93.10	1.60	9,568.9	2,480.3	635.5	2,560.4	14.37	2.81	594,552.08	806,205.91
12,145.0	88.80	0.25	9,567.3	2,575.2	637.0	2,652.9	13.89	4.74	594,647.03	806,207.45
12,239.0	89.40	359.29	9,568.8	2,669.2	636.7	2,744.1	13.42	1.20	594,741.02	806,207.07
12,333.0	90.20	359.20	9,569.1	2,763.2	635.4	2,835.3	12.95	0.86	594,835.01	806,205.83

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
12,427.0	91.60	359.02	9,567.7	2,857.2	634.0	2,926.7	12.51	1.50	594,928.98	806,204.37
12,522.0	89.50	359.11	9,566.8	2,952.2	632.4	3,019.1	12.09	2.21	595,023.96	806,202.82
12,616.0	87.40	358.85	9,569.3	3,046.1	630.7	3,110.7	11.70	2.25	595,117.91	806,201.15
12,711.0	90.80	358.50	9,570.8	3,141.1	628.6	3,203.3	11.32	3.60	595,212.85	806,198.95
12,806.0	91.20	358.94	9,569.1	3,236.0	626.4	3,296.1	10.96	0.63	595,307.82	806,196.83
12,899.0	91.90	358.76	9,566.6	3,329.0	624.6	3,387.0	10.63	0.78	595,400.76	806,194.96
12,994.0	89.50	358.67	9,565.5	3,423.9	622.4	3,480.0	10.30	2.53	595,495.72	806,192.83
13,089.0	92.00	358.67	9,564.2	3,518.9	620.2	3,573.1	10.00	2.63	595,590.68	806,190.63
13,183.0	90.10	358.76	9,562.5	3,612.8	618.1	3,665.3	9.71	2.02	595,684.64	806,188.52
13,277.0	91.00	358.67	9,561.6	3,706.8	616.0	3,757.6	9.44	0.96	595,778.61	806,186.41
13,372.0	89.20	359.29	9,561.4	3,801.8	614.3	3,851.1	9.18	2.00	595,873.59	806,184.72
13,467.0	89.00	358.67	9,562.9	3,896.8	612.6	3,944.6	8.93	0.69	595,968.56	806,183.03
13,561.0	89.70	358.67	9,564.0	3,990.7	610.4	4,037.2	8.70	0.74	596,062.53	806,180.85
13,655.0	90.20	358.32	9,564.1	4,084.7	608.0	4,129.7	8.47	0.65	596,156.50	806,178.38
13,749.0	91.60	358.23	9,562.6	4,178.6	605.2	4,222.2	8.24	1.49	596,250.44	806,175.55
13,842.0	90.30	359.29	9,561.0	4,271.6	603.1	4,314.0	8.04	1.80	596,343.40	806,173.54
13,936.0	91.40	358.94	9,559.6	4,365.6	601.7	4,406.8	7.85	1.23	596,437.38	806,172.09
14,031.0	90.00	359.64	9,558.5	4,460.6	600.5	4,500.8	7.67	1.65	596,532.36	806,170.91
14,125.0	89.20	359.37	9,559.1	4,554.6	599.7	4,593.9	7.50	0.90	596,626.36	806,170.10
14,219.0	89.20	358.32	9,560.5	4,648.5	597.8	4,686.8	7.33	1.12	596,720.33	806,168.20
14,315.0	90.60	357.35	9,560.6	4,744.5	594.2	4,781.5	7.14	1.77	596,816.26	806,164.58
14,409.0	91.60	355.86	9,558.8	4,838.3	588.6	4,873.9	6.94	1.91	596,910.07	806,159.01
14,502.0	90.10	357.44	9,557.4	4,931.1	583.2	4,965.5	6.74	2.34	597,002.89	806,153.58
14,598.0	88.70	358.58	9,558.4	5,027.0	579.8	5,060.4	6.58	1.88	597,098.83	806,150.25
14,692.0	88.60	358.41	9,560.7	5,121.0	577.4	5,153.4	6.43	0.21	597,192.77	806,147.78
14,787.0	88.60	357.79	9,563.0	5,215.9	574.2	5,247.4	6.28	0.65	597,287.69	806,144.63
14,881.0	88.70	359.37	9,565.2	5,309.8	571.9	5,340.5	6.15	1.68	597,381.63	806,142.30

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
14,976.0	90.10	0.52	9,566.2	5,404.8	571.8	5,435.0	6.04	1.91	597,476.62	806,142.21
15,071.0	91.30	0.87	9,565.0	5,499.8	573.0	5,529.6	5.95	1.32	597,571.60	806,143.36
15,165.0	92.30	1.22	9,562.1	5,593.7	574.7	5,623.2	5.87	1.13	597,665.54	806,145.08
15,259.0	90.80	359.90	9,559.5	5,687.7	575.6	5,716.7	5.78	2.13	597,759.50	806,145.99
15,354.0	88.70	358.76	9,559.9	5,782.7	574.5	5,811.1	5.67	2.52	597,854.48	806,144.88
15,448.0	89.80	359.64	9,561.2	5,876.7	573.2	5,904.5	5.57	1.50	597,948.46	806,143.57
15,542.0	90.80	359.64	9,560.7	5,970.7	572.6	5,998.1	5.48	1.06	598,042.46	806,142.98
15,637.0	90.80	359.20	9,559.4	6,065.6	571.6	6,092.5	5.38	0.46	598,137.44	806,142.02
15,732.0	92.00	359.37	9,557.0	6,160.6	570.4	6,187.0	5.29	1.28	598,232.41	806,140.83
15,827.0	90.00	0.69	9,555.4	6,255.6	570.5	6,281.5	5.21	2.52	598,327.39	806,140.88
15,921.0	88.00	359.37	9,557.0	6,349.6	570.5	6,375.1	5.13	2.55	598,421.36	806,140.93
16,016.0	89.90	359.81	9,558.8	6,444.5	569.9	6,469.7	5.05	2.05	598,516.34	806,140.25
16,110.0	88.30	358.76	9,560.2	6,538.5	568.7	6,563.2	4.97	2.04	598,610.32	806,139.08
16,205.0	91.80	0.61	9,560.2	6,633.5	568.2	6,657.8	4.90	4.17	598,705.30	806,138.56
16,300.0	90.70	359.73	9,558.1	6,728.5	568.4	6,752.4	4.83	1.48	598,800.27	806,138.84
16,395.0	91.70	359.46	9,556.1	6,823.4	567.8	6,847.0	4.76	1.09	598,895.25	806,138.17
16,489.0	90.70	358.67	9,554.1	6,917.4	566.2	6,940.5	4.68	1.36	598,989.21	806,136.63
16,583.0	87.90	358.14	9,555.3	7,011.4	563.6	7,034.0	4.60	3.03	599,083.16	806,134.02
16,678.0	88.70	358.41	9,558.1	7,106.3	560.8	7,128.4	4.51	0.89	599,178.07	806,131.16
16,773.0	90.00	358.32	9,559.2	7,201.2	558.1	7,222.8	4.43	1.37	599,273.03	806,128.45
16,868.0	90.70	358.14	9,558.6	7,296.2	555.1	7,317.3	4.35	0.76	599,367.98	806,125.52
16,961.0	91.00	359.81	9,557.2	7,389.2	553.5	7,409.8	4.28	1.82	599,460.95	806,123.85
17,056.0	89.20	359.02	9,557.0	7,484.1	552.5	7,504.5	4.22	2.07	599,555.94	806,122.88
17,150.0	92.00	2.19	9,556.1	7,578.1	553.5	7,598.3	4.18	4.50	599,649.91	806,123.87
17,244.0	90.30	0.87	9,554.2	7,672.1	556.0	7,692.2	4.14	2.29	599,743.85	806,126.38
17,338.0	90.90	1.13	9,553.2	7,766.0	557.6	7,786.0	4.11	0.70	599,837.83	806,128.02
17,433.0	89.80	1.22	9,552.6	7,861.0	559.6	7,880.9	4.07	1.16	599,932.81	806,129.97

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
17,527.0	88.90	359.99	9,553.7	7,955.0	560.6	7,974.7	4.03	1.62	600,026.79	806,130.96
17,622.0	88.00	359.64	9,556.2	8,050.0	560.3	8,069.4	3.98	1.02	600,121.76	806,130.66
17,716.0	92.00	1.40	9,556.2	8,143.9	561.1	8,163.2	3.94	4.65	600,215.73	806,131.51
17,810.0	93.10	1.75	9,552.1	8,237.8	563.7	8,257.1	3.91	1.23	600,309.60	806,134.09
17,905.0	91.30	1.31	9,548.4	8,332.7	566.2	8,351.9	3.89	1.95	600,404.49	806,136.63
17,999.0	89.80	0.78	9,547.5	8,426.7	567.9	8,445.8	3.86	1.69	600,498.47	806,138.34
18,092.0	88.40	0.52	9,549.0	8,519.7	569.0	8,538.6	3.82	1.53	600,591.45	806,139.39
18,187.0	88.60	0.87	9,551.5	8,614.6	570.1	8,633.5	3.79	0.42	600,686.41	806,140.55
18,282.0	89.20	0.78	9,553.3	8,709.6	571.5	8,728.3	3.75	0.64	600,781.38	806,141.91
18,377.0	88.10	0.08	9,555.5	8,804.6	572.2	8,823.1	3.72	1.37	600,876.35	806,142.63
18,471.0	86.50	359.11	9,559.9	8,898.4	571.6	8,916.8	3.68	1.99	600,970.24	806,141.96
18,565.0	89.00	359.73	9,563.6	8,992.4	570.6	9,010.4	3.63	2.74	601,064.16	806,141.01
18,660.0	89.70	0.61	9,564.7	9,087.3	570.9	9,105.3	3.59	1.18	601,159.15	806,141.30
18,753.0	90.60	0.52	9,564.5	9,180.3	571.8	9,198.1	3.56	0.97	601,252.14	806,142.21
18,847.0	90.80	359.73	9,563.3	9,274.3	572.0	9,292.0	3.53	0.87	601,346.13	806,142.42
18,940.0	88.40	357.53	9,564.0	9,367.3	569.8	9,384.6	3.48	3.50	601,439.09	806,140.19
19,034.0	92.10	358.50	9,563.6	9,461.2	566.5	9,478.2	3.43	4.07	601,533.02	806,136.94
19,127.0	92.20	359.55	9,560.1	9,554.1	565.0	9,570.8	3.38	1.13	601,625.94	806,135.36
19,221.0	92.60	359.29	9,556.1	9,648.1	564.0	9,664.5	3.35	0.51	601,719.85	806,134.41
19,313.0	89.80	358.14	9,554.2	9,740.0	561.9	9,756.2	3.30	3.29	601,811.80	806,132.34
19,408.0	93.00	359.46	9,551.9	9,834.9	560.0	9,850.9	3.26	3.64	601,906.73	806,130.35
19,502.0	88.10	356.03	9,551.0	9,928.8	556.3	9,944.4	3.21	6.36	602,000.61	806,126.66
19,596.0	91.60	358.23	9,551.2	10,022.7	551.6	10,037.8	3.15	4.40	602,094.47	806,121.95
19,690.0	91.20	358.06	9,548.9	10,116.6	548.5	10,131.5	3.10	0.46	602,188.40	806,118.91
19,784.0	89.10	356.39	9,548.7	10,210.5	544.0	10,225.0	3.05	2.85	602,282.28	806,114.36
19,824.0	89.60	357.40	9,549.1	10,250.4	541.8	10,264.7	3.03	2.82	602,322.22	806,112.19

Company:	Mewbourne Oil Company	**Local Co-ordinate Reference:**	Well Hereford 29/20 B1PA St Com #1H
Project:	Lea County N. M. Nad (83)	**TVD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Site:	Section 29 20-19S-35E Hereford	**MD Reference:**	3744+28 @ 3772.0usft (Patterson 217)
Well:	Hereford 29/20 B1PA St Com #1H	**North Reference:**	Grid
Wellbore:	Original Hole	**Survey Calculation Method:**	Minimum Curvature
Design:	As Drilled	**Database:**	EDM5000

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
19,880.0	89.60	357.40	9,549.5	10,306.4	539.3	10,320.5	3.00	0.00	602,378.16	806,109.65
19880.0' Projected to bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,871.0	1,870.9	-3.5	14.1	First Stryker Surveys
19,880.0	9,549.5	10,306.4	539.3	19880.0' Projected to bit

Checked By: _____ Approved By: _____ Date: _____

COMPANY: Mewbourne Oil Company
WELL: Hereford 29/20 B1PA St Com #1H
COUNTY: Lea County N. M. Nad (83)
DATUM: North American Datum 1983
RIG: Patterson 217
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.23°

STRYKER DIRECTIONAL
OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico Eastern Zone
3744+28 @ 3772.0usft (Patterson 217)
GROUND ELEVATION: 3744.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	592071.80	805570.40	32° 37' 29.000 N	103° 28' 30.286 W	

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1930.0	0.00	0.00	1930.0	0.0	0.0	0.00	0.00	0.0	
3	2206.2	5.52	106.95	2205.8	-3.9	12.7	2.00	106.95	-3.2	
4	8880.2	5.52	106.95	8848.7	-191.1	627.3	0.00	0.00	-157.0	
5	9156.3	0.00	0.00	9124.5	-195.0	640.0	2.00	180.00	-160.1	BB B1PA
6	9907.8	90.17	359.55	9602.0	283.9	636.2	12.00	359.55	317.6	
7	19919.9	90.17	359.55	9572.0	10295.6	556.9	0.00	0.00	10310.7	PBHL B1PA

SHL: 205' FSL; 1300' FEL
Section 29-19S-35E
PBHL: 100 FNL; 660' FEL
Section 20-19S-35E