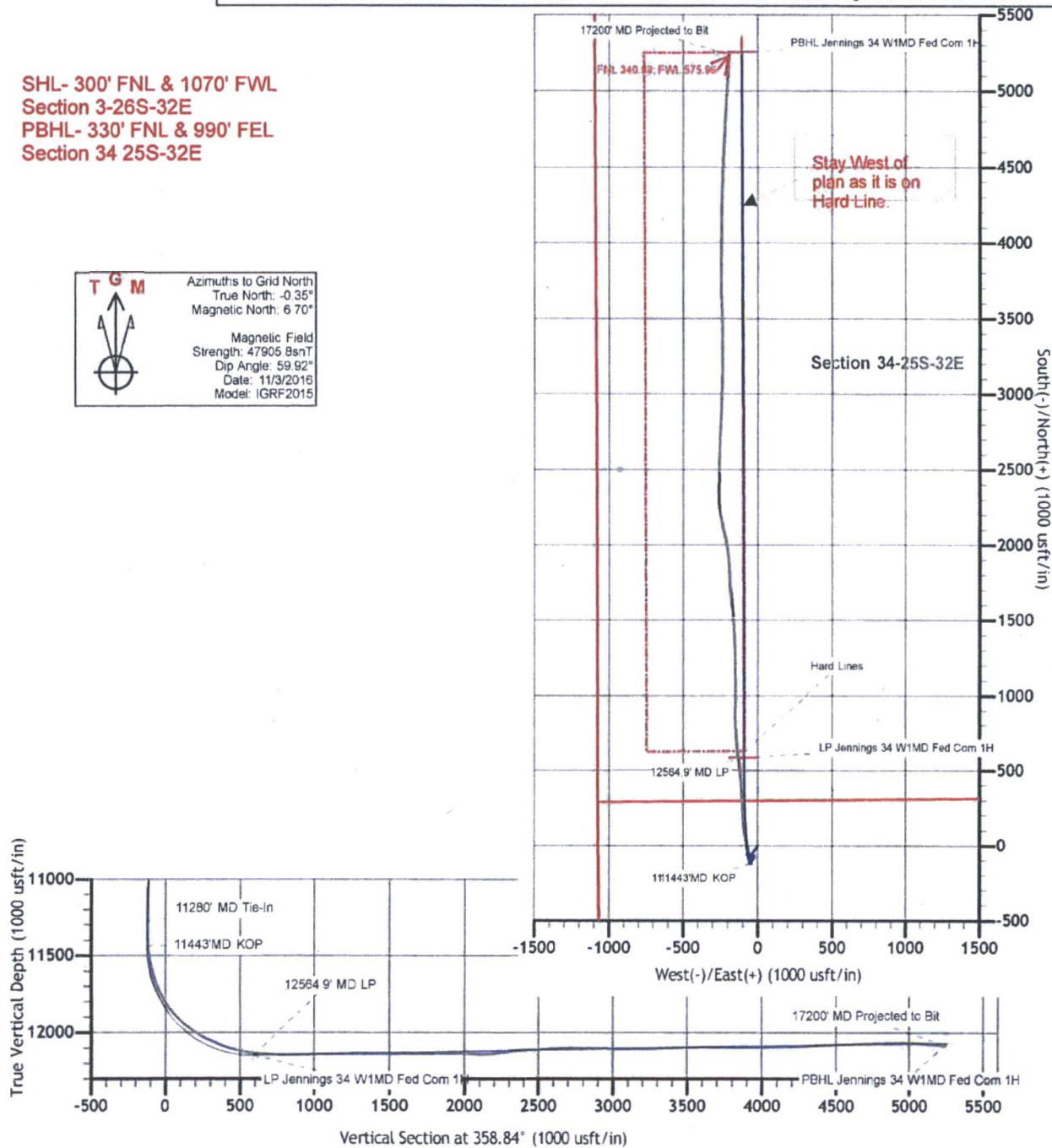
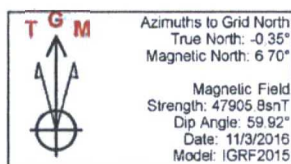


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.70°

GEODETIC ZONE: New Mexico East 3001 3317 + 27 @ 3344.0usft (Patterson 231) GROUND ELEVATION: 3317.0										Slot
+N/-S 0.0	+E/-W 0.0	Northing 392999.90	Easting 706211.60	Latitude 32° 4' 43.403 N	Longitude 103° 40' 3.217 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	11280.0	0.54	258.67	11273.4	-118.6	-45.3	0.00	0.00	-117.6	
2	11443.0	0.54	258.67	11436.4	-118.9	-46.8	0.00	0.00	-117.9	
3	11486.2	3.97	298.20	11479.5	-118.2	-48.3	8.26	45.05	-117.2	
4	12564.9	90.98	359.83	12149.0	586.8	-92.0	8.26	61.63	588.5	LP Jennings 34 W1MD Fed Com 1H
5	17232.4	90.98	359.83	12089.0	5253.8	-106.0	0.00	0.00	5254.7	PBHL Jennings 34 W1MD Fed Com 1H

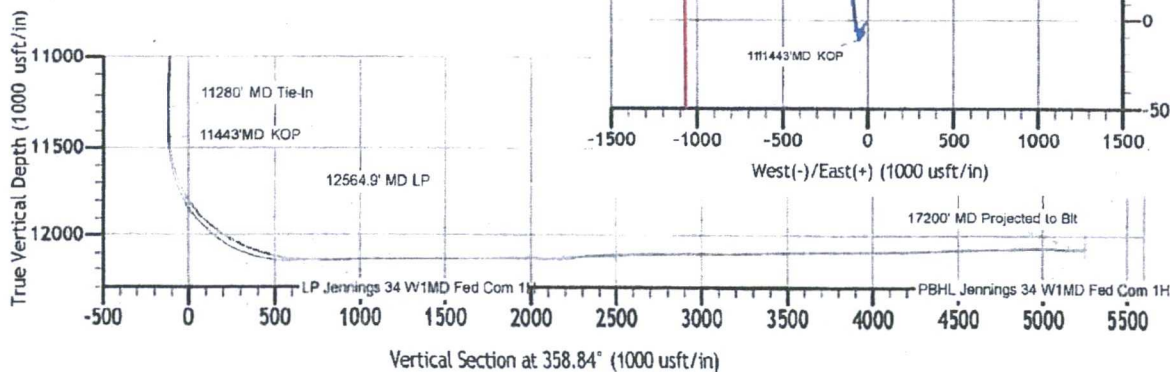
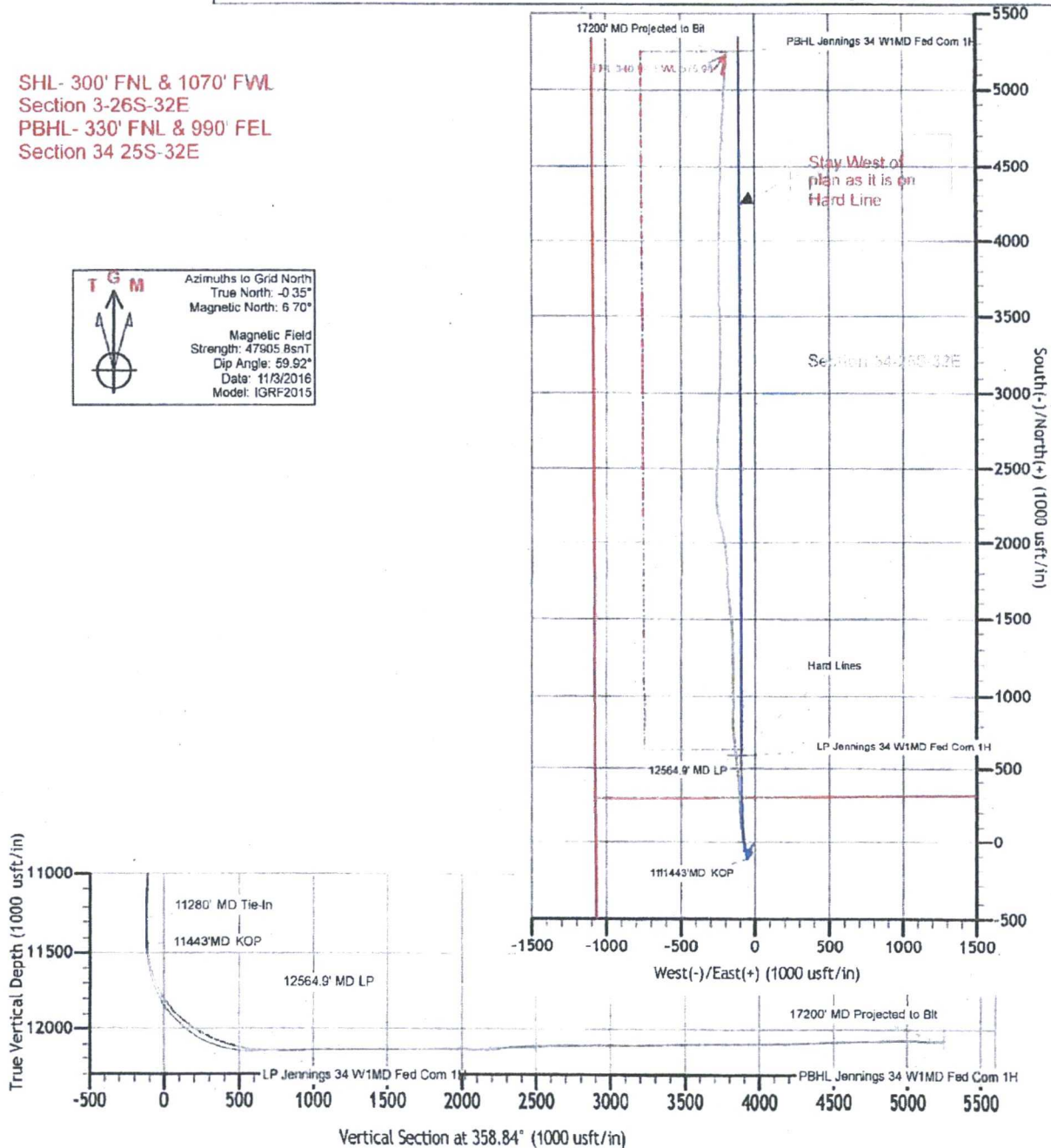
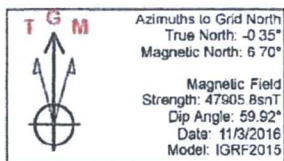
SHL- 300' FNL & 1070' FWL
Section 3-26S-32E
PBHL- 330' FNL & 990' FEL
Section 34 25S-32E



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.70°

GEODETIC ZONE: New Mexico East 3001								Slot		
3317 + 27 @ 3344.0usft (Patterson 231)										
GROUND ELEVATION: 3317.0										
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude					
0.0	0.0	392999.90	706211.60	32° 4' 43.403 N	103° 40' 3.217 W					
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	V Sekt	Target
1	11280.0	0.54	258.67	11273.4	-118.6	-45.3	0.00	0.00	-117.6	
2	11443.0	0.54	258.67	11436.4	-118.9	-48.8	0.00	0.00	-117.9	
3	11488.2	3.87	298.20	11479.5	-118.2	-48.3	6.28	45.05	-117.2	
4	12564.9	90.98	359.83	12149.0	586.8	-92.0	8.26	61.63	588.5	LP Jennings 34 W1MD Fed Com 1H
5	17232.4	90.98	359.83	12069.0	5253.6	-106.0	0.00	0.00	5254.7	PBHL Jennings 34 W1MD Fed Com 1H

SHL- 300' FNL & 1070' FWL
Section 3-26S-32E
PBHL- 330' FNL & 990' FEL
Section 34 25S-32E





Mewbourne Oil Company

Lea County N.M.

Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H

Jennings 34 W1MD Fed Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

30 November, 2016



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Lea County N.M.
Map System:	US State Plane 1927 (Exact solution)
Geo Datum:	NAD 1927 (NADCON CONUS)
Map Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

Site Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H

Site Position: Northing: 392,999.90 usft Latitude: 32° 4' 43.403 N
From: Map Easting: 706,211.60 usft Longitude: 103° 40' 3.217 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.35 °

Well Jennings 34 W1MD Fed Com 1H

Well Position +N/-S 0.0 usft Northing: 392,999.90 usft Latitude: 32° 4' 43.403 N
 +E/-W 0.0 usft Easting: 706,211.60 usft Longitude: 103° 40' 3.217 W
Position Uncertainty 0.0 usft Wellhead Elevation: 27.0 usft Ground Level: 3,317.0 usft

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/3/2016	7.05	59.92	47,905.79662370

Design Original Hole

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	227.25
-----	-----	-----	--------

Survey Program Date 11/30/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	11,280.0	VES Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
11,365.0	17,200.0	MWD Curve & Lateral Survey (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
100.0	0.51	147.98	100.0	-0.4	0.2	0.1	0.51	0.51	0.00
200.0	0.96	190.23	200.0	-1.6	0.3	0.8	0.68	0.45	42.25
300.0	0.48	144.35	300.0	-2.7	0.4	1.6	0.71	-0.48	-45.88
400.0	0.59	216.42	400.0	-3.5	0.4	2.1	0.64	0.11	72.07
500.0	0.99	201.21	500.0	-4.7	-0.3	3.4	0.45	0.40	-15.21
600.0	2.13	214.74	599.9	-7.1	-1.6	6.0	1.19	1.14	13.53
700.0	3.25	210.09	699.8	-11.0	-4.1	10.5	1.14	1.12	-4.65
800.0	5.66	219.79	799.5	-17.3	-8.7	18.1	2.52	2.41	9.70

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
900.0	6.65	218.55	898.9	-25.6	-15.5	28.7	1.00	0.99	-1.24
1,000.0	6.67	216.28	998.3	-34.8	-22.5	40.1	0.26	0.02	-2.27
1,100.0	6.57	216.94	1,097.6	-44.1	-29.4	51.5	0.13	-0.10	0.66
1,200.0	6.50	219.31	1,196.9	-53.0	-36.4	62.7	0.28	-0.07	2.37
1,300.0	3.07	202.42	1,296.6	-59.9	-41.0	70.7	3.67	-3.43	-16.89
1,400.0	2.34	204.81	1,396.5	-64.2	-42.9	75.1	0.74	-0.73	2.39
1,500.0	0.63	243.73	1,496.4	-66.3	-44.2	77.5	1.89	-1.71	38.92
1,600.0	0.65	104.70	1,596.4	-66.7	-44.2	77.7	1.20	0.02	-139.03
1,700.0	1.04	340.97	1,696.4	-66.0	-43.9	77.0	1.50	0.39	-123.73
1,800.0	1.11	324.74	1,796.4	-64.3	-44.8	76.5	0.31	0.07	-16.23
1,900.0	1.17	323.98	1,896.4	-62.7	-45.9	76.3	0.06	0.06	-0.76
2,000.0	1.10	323.88	1,996.4	-61.1	-47.1	76.1	0.07	-0.07	-0.10
2,100.0	1.09	308.37	2,096.4	-59.7	-48.4	76.1	0.30	-0.01	-15.51
2,200.0	1.47	323.45	2,196.3	-58.1	-49.9	76.1	0.50	0.38	15.08
2,300.0	1.43	326.00	2,296.3	-56.0	-51.4	75.8	0.08	-0.04	2.55
2,400.0	1.73	275.90	2,396.3	-54.9	-53.6	76.6	1.37	0.30	-50.10
2,500.0	1.64	238.54	2,496.2	-55.4	-56.3	79.0	1.08	-0.09	-37.36
2,600.0	1.55	267.87	2,596.2	-56.2	-58.9	81.4	0.81	-0.09	29.33
2,700.0	1.40	297.13	2,696.2	-55.7	-61.3	82.9	0.76	-0.15	29.26
2,800.0	1.91	273.59	2,796.1	-55.1	-64.1	84.4	0.84	0.51	-23.54
2,900.0	1.74	241.73	2,896.1	-55.7	-67.1	87.1	1.01	-0.17	-31.86
3,000.0	1.78	225.99	2,996.0	-57.5	-69.5	90.1	0.48	0.04	-15.74
3,100.0	1.94	197.75	3,096.0	-60.2	-71.2	93.1	0.92	0.16	-28.24
3,200.0	0.84	147.62	3,195.9	-62.4	-71.3	94.7	1.54	-1.10	-50.13
3,300.0	1.35	95.99	3,295.9	-63.2	-69.7	94.1	1.06	0.51	-51.63
3,400.0	1.88	77.87	3,395.9	-62.9	-66.9	91.9	0.73	0.53	-18.12
3,500.0	2.22	60.25	3,495.8	-61.6	-63.7	88.6	0.71	0.34	-17.62
3,600.0	1.14	86.82	3,595.8	-60.6	-61.0	85.9	1.30	-1.08	26.57
3,700.0	0.78	210.52	3,695.8	-61.1	-60.3	85.8	1.70	-0.36	123.70
3,800.0	0.95	187.41	3,795.8	-62.5	-60.8	87.1	0.38	0.17	-23.11
3,900.0	0.63	135.76	3,895.8	-63.8	-60.5	87.7	0.75	-0.32	-51.65
4,000.0	1.09	113.05	3,995.7	-64.5	-59.3	87.3	0.56	0.46	-22.71
4,100.0	2.18	109.16	4,095.7	-65.5	-56.6	86.0	1.10	1.09	-3.89
4,200.0	2.24	132.55	4,195.6	-67.5	-53.3	85.0	0.90	0.06	23.39
4,300.0	0.62	166.75	4,295.6	-69.3	-51.8	85.1	1.76	-1.62	34.20
4,400.0	0.97	117.12	4,395.6	-70.2	-50.9	85.1	0.74	0.35	-49.63
4,500.0	1.46	114.92	4,495.6	-71.2	-49.0	84.3	0.49	0.49	-2.20
4,600.0	1.20	113.52	4,595.5	-72.1	-46.9	83.4	0.26	-0.26	-1.40
4,700.0	1.06	127.58	4,695.5	-73.1	-45.2	82.8	0.31	-0.14	14.06
4,800.0	0.89	121.98	4,795.5	-74.1	-43.8	82.4	0.19	-0.17	-5.60
4,900.0	0.71	136.81	4,895.5	-74.9	-42.7	82.2	0.27	-0.18	14.83
5,000.0	0.55	99.23	4,995.5	-75.5	-41.8	81.9	0.43	-0.16	-37.58

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
5,100.0	0.43	181.23	5,095.5	-75.9	-41.3	81.9	0.65	-0.12	82.00
5,200.0	0.45	123.59	5,195.5	-76.5	-41.0	82.1	0.42	0.02	-57.64
5,300.0	0.18	181.38	5,295.5	-76.9	-40.7	82.1	0.39	-0.27	57.79
5,400.0	0.23	145.19	5,395.5	-77.2	-40.6	82.2	0.14	0.05	-36.19
5,500.0	0.23	108.69	5,495.5	-77.4	-40.3	82.1	0.14	0.00	-36.50
5,600.0	0.19	162.94	5,595.5	-77.7	-40.1	82.1	0.19	-0.04	54.25
5,700.0	0.32	228.36	5,695.5	-78.0	-40.2	82.5	0.30	0.13	65.42
5,800.0	0.24	91.34	5,795.5	-78.2	-40.2	82.6	0.52	-0.08	-137.02
5,900.0	0.52	275.83	5,895.5	-78.1	-40.5	82.8	0.76	0.28	-175.51
6,000.0	0.52	264.52	5,995.5	-78.1	-41.4	83.4	0.10	0.00	-11.31
6,100.0	0.43	238.48	6,095.5	-78.4	-42.1	84.1	0.23	-0.09	-26.04
6,200.0	0.66	270.53	6,195.5	-78.6	-43.0	84.9	0.37	0.23	32.05
6,300.0	0.25	260.15	6,295.5	-78.6	-43.8	85.5	0.42	-0.41	-10.38
6,400.0	0.34	241.28	6,395.5	-78.8	-44.3	86.0	0.13	0.09	-18.87
6,500.0	0.23	296.34	6,495.5	-78.8	-44.7	86.4	0.28	-0.11	55.06
6,600.0	0.25	215.73	6,595.5	-78.9	-45.0	86.6	0.31	0.02	-80.61
6,700.0	0.13	206.97	6,695.5	-79.2	-45.2	87.0	0.12	-0.12	-8.76
6,800.0	0.39	240.14	6,795.5	-79.5	-45.6	87.4	0.29	0.26	33.17
6,900.0	0.55	240.33	6,895.4	-79.9	-46.3	88.2	0.16	0.16	0.19
7,000.0	0.35	256.24	6,995.4	-80.2	-47.0	88.9	0.23	-0.20	15.91
7,100.0	0.39	255.65	7,095.4	-80.4	-47.6	89.5	0.04	0.04	-0.59
7,200.0	0.35	246.92	7,195.4	-80.6	-48.2	90.1	0.07	-0.04	-8.73
7,300.0	0.24	65.18	7,295.4	-80.6	-48.3	90.2	0.59	-0.11	178.26
7,400.0	0.43	65.83	7,395.4	-80.3	-47.8	89.6	0.19	0.19	0.65
7,500.0	1.44	112.73	7,495.4	-80.7	-46.3	88.7	1.19	1.01	46.90
7,600.0	0.68	92.62	7,595.4	-81.2	-44.5	87.8	0.83	-0.76	-20.11
7,700.0	0.33	83.20	7,695.4	-81.2	-43.7	87.2	0.36	-0.35	-9.42
7,800.0	0.33	75.47	7,795.4	-81.1	-43.1	86.7	0.04	0.00	-7.73
7,900.0	0.45	100.62	7,895.4	-81.1	-42.4	86.2	0.21	0.12	25.15
8,000.0	0.53	127.94	7,995.4	-81.4	-41.7	85.9	0.24	0.08	27.32
8,100.0	0.70	111.23	8,095.4	-81.9	-40.7	85.5	0.25	0.17	-16.71
8,200.0	0.38	107.97	8,195.4	-82.3	-39.9	85.1	0.32	-0.32	-3.26
8,300.0	0.40	127.64	8,295.4	-82.6	-39.3	84.9	0.13	0.02	19.67
8,400.0	1.05	17.95	8,395.4	-81.9	-38.7	84.0	1.24	0.65	-109.69
8,500.0	2.13	324.41	8,495.3	-79.5	-39.5	83.0	1.73	1.08	-53.54
8,600.0	2.33	9.17	8,595.3	-76.0	-40.3	81.2	1.71	0.20	44.76
8,700.0	2.51	14.11	8,695.2	-71.9	-39.4	77.7	0.28	0.18	4.94
8,800.0	1.43	99.10	8,795.1	-70.0	-37.6	75.1	2.78	-1.08	84.99
8,900.0	0.97	0.39	8,895.1	-69.3	-36.4	73.8	1.85	-0.46	-98.71
9,000.0	0.50	297.41	8,995.1	-68.3	-36.8	73.3	0.87	-0.47	-62.98
9,100.0	0.68	14.00	9,095.1	-67.5	-37.0	73.0	0.74	0.18	76.59
9,200.0	1.18	358.06	9,195.1	-65.9	-36.9	71.8	0.56	0.50	-15.94
9,300.0	1.11	19.85	9,295.1	-63.9	-36.6	70.3	0.44	-0.07	21.79

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
9,400.0	0.61	27.85	9,395.1	-62.6	-36.0	68.9	0.51	-0.50	8.00
9,500.0	1.51	94.68	9,495.1	-62.2	-34.5	67.5	1.39	0.90	66.83
9,600.0	2.25	116.60	9,595.0	-63.2	-31.4	66.0	1.02	0.74	21.92
9,700.0	3.03	128.85	9,694.9	-65.7	-27.6	64.9	0.96	0.78	12.25
9,800.0	3.12	118.47	9,794.8	-68.7	-23.1	63.6	0.56	0.09	-10.38
9,900.0	2.33	187.84	9,894.7	-72.0	-21.0	64.3	3.17	-0.79	69.37
10,000.0	1.49	162.43	9,994.6	-75.2	-20.9	66.4	1.17	-0.84	-25.41
10,100.0	2.52	205.76	10,094.6	-78.5	-21.5	69.0	1.76	1.03	43.33
10,200.0	2.21	212.94	10,194.5	-82.1	-23.5	72.9	0.43	-0.31	7.18
10,300.0	1.45	171.46	10,294.4	-84.9	-24.3	75.5	1.48	-0.76	-41.48
10,400.0	2.26	230.75	10,394.4	-87.4	-25.7	78.2	1.97	0.81	59.29
10,500.0	2.16	239.80	10,494.3	-89.6	-28.8	82.0	0.36	-0.10	9.05
10,600.0	2.79	218.44	10,594.2	-92.5	-32.0	86.3	1.11	0.63	-21.36
10,700.0	3.60	219.86	10,694.1	-96.8	-35.5	91.8	0.81	0.81	1.42
10,800.0	3.73	221.97	10,793.8	-101.6	-39.7	98.1	0.19	0.13	2.11
10,900.0	3.10	205.52	10,893.7	-106.5	-43.0	103.9	1.16	-0.63	-16.45
11,000.0	3.26	179.04	10,993.5	-111.8	-44.2	108.3	1.46	0.16	-26.48
11,100.0	2.04	181.37	11,093.4	-116.4	-44.1	111.4	1.22	-1.22	2.33
11,200.0	0.51	244.33	11,193.4	-118.4	-44.6	113.1	1.86	-1.53	62.96
11,280.0	0.54	258.67	11,273.4	-118.6	-45.3	113.7	0.17	0.04	17.93
11,365.0	1.20	270.20	11,358.4	-118.7	-46.6	114.7	0.80	0.78	13.56
11,460.0	2.90	306.20	11,453.3	-117.2	-49.5	115.9	2.16	1.79	37.89
11,492.0	7.30	329.70	11,485.2	-115.0	-51.2	115.6	14.94	13.75	73.44
11,524.0	10.40	346.60	11,516.8	-110.4	-52.9	113.8	12.55	9.69	52.81
11,555.0	13.50	351.80	11,547.1	-104.1	-54.0	110.4	10.58	10.00	16.77
11,586.0	15.20	352.80	11,577.2	-96.5	-55.1	106.0	5.54	5.48	3.23
11,618.0	16.50	351.80	11,607.9	-87.9	-56.2	100.9	4.15	4.06	-3.13
11,650.0	18.20	349.30	11,638.5	-78.5	-57.8	95.7	5.80	5.31	-7.81
11,681.0	20.80	348.10	11,667.7	-68.3	-59.8	90.3	8.49	8.39	-3.87
11,713.0	22.00	347.00	11,697.5	-56.9	-62.4	84.4	3.95	3.75	-3.44
11,744.0	23.80	347.80	11,726.1	-45.1	-65.0	78.4	5.89	5.81	2.58
11,776.0	27.90	350.40	11,754.8	-31.4	-67.6	71.0	13.29	12.81	8.13
11,808.0	32.00	351.90	11,782.6	-15.7	-70.1	62.1	13.02	12.81	4.69
11,839.0	36.40	352.40	11,808.2	1.6	-72.4	52.1	14.22	14.19	1.61
11,871.0	38.90	351.40	11,833.5	21.0	-75.2	41.0	8.04	7.81	-3.13
11,903.0	40.50	350.10	11,858.2	41.1	-78.5	29.7	5.63	5.00	-4.06
11,935.0	42.30	348.70	11,882.2	61.9	-82.4	18.5	6.33	5.63	-4.38
11,967.0	45.10	350.70	11,905.3	83.7	-86.3	6.6	9.76	8.75	6.25
11,998.0	47.40	353.40	11,926.7	105.8	-89.4	-6.2	9.73	7.42	8.71
12,030.0	51.80	354.40	11,947.5	130.1	-92.0	-20.7	13.95	13.75	3.13
12,062.0	54.20	354.60	11,966.7	155.5	-94.4	-36.2	7.52	7.50	0.63
12,093.0	55.90	355.50	11,984.5	180.8	-96.6	-51.8	5.98	5.48	2.90

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,125.0	56.90	356.70	12,002.2	207.4	-98.4	-68.5	4.42	3.13	3.75
12,156.0	58.50	356.90	12,018.8	233.6	-99.9	-85.2	5.19	5.16	0.65
12,187.0	62.40	356.70	12,034.0	260.5	-101.4	-102.3	12.59	12.58	-0.65
12,219.0	65.10	356.80	12,048.2	289.1	-103.0	-120.6	8.44	8.44	0.31
12,251.0	67.40	356.40	12,061.1	318.4	-104.8	-139.2	7.28	7.19	-1.25
12,283.0	68.50	356.40	12,073.1	348.0	-106.6	-157.9	3.44	3.44	0.00
12,315.0	69.20	356.60	12,084.6	377.8	-108.5	-176.8	2.26	2.19	0.63
12,346.0	72.30	355.70	12,094.9	407.0	-110.4	-195.1	10.37	10.00	-2.90
12,378.0	73.30	355.10	12,104.3	437.4	-112.9	-214.0	3.60	3.13	-1.88
12,389.0	73.50	354.80	12,107.5	447.9	-113.8	-220.5	3.18	1.82	-2.73
12,471.0	79.50	352.10	12,126.6	527.1	-122.9	-267.5	7.99	7.32	-3.29
12,503.0	82.70	352.50	12,131.6	558.4	-127.1	-285.7	10.08	10.00	1.25
12,534.0	84.80	353.10	12,134.9	589.0	-131.0	-303.6	7.04	6.77	1.94
12,566.0	86.80	354.50	12,137.3	620.7	-134.5	-322.6	7.62	6.25	4.38
12,598.0	88.90	355.50	12,138.5	652.6	-137.2	-342.2	7.27	6.56	3.13
12,693.0	85.70	355.50	12,142.9	747.2	-144.7	-400.9	3.37	-3.37	0.00
12,788.0	91.70	359.10	12,145.1	842.0	-149.2	-462.0	7.36	6.32	3.79
12,883.0	91.60	359.80	12,142.4	936.9	-150.1	-525.8	0.74	-0.11	0.74
12,978.0	91.30	0.30	12,140.0	1,031.9	-150.0	-590.3	0.61	-0.32	0.53
13,073.0	90.60	0.40	12,138.4	1,126.9	-149.4	-655.2	0.74	-0.74	0.11
13,169.0	91.00	358.70	12,137.0	1,222.9	-150.2	-719.8	1.82	0.42	-1.77
13,262.0	88.70	359.20	12,137.3	1,315.9	-151.9	-781.6	2.53	-2.47	0.54
13,357.0	89.40	356.20	12,138.9	1,410.8	-155.7	-843.2	3.24	0.74	-3.16
13,453.0	91.50	354.90	12,138.1	1,506.5	-163.1	-902.7	2.57	2.19	-1.35
13,548.0	89.20	353.40	12,137.5	1,600.9	-172.8	-959.8	2.89	-2.42	-1.58
13,643.0	91.20	355.10	12,137.2	1,695.5	-182.3	-1,016.9	2.76	2.11	1.79
13,738.0	89.50	0.00	12,136.6	1,790.3	-186.4	-1,078.3	5.46	-1.79	5.16
13,834.0	90.50	354.00	12,136.6	1,886.2	-191.4	-1,139.7	6.34	1.04	-6.25
13,929.0	89.20	352.40	12,136.9	1,980.5	-202.6	-1,195.5	2.17	-1.37	-1.68
14,023.0	88.70	346.60	12,138.6	2,072.9	-219.8	-1,245.6	6.19	-0.53	-6.17
14,055.0	88.60	347.50	12,139.3	2,104.0	-226.9	-1,261.5	2.83	-0.31	2.81
14,087.0	89.20	348.30	12,140.0	2,135.3	-233.6	-1,277.8	3.12	1.88	2.50
14,119.0	91.60	347.80	12,139.7	2,166.6	-240.3	-1,294.2	7.66	7.50	-1.56
14,150.0	96.20	349.00	12,137.6	2,196.9	-246.5	-1,310.2	15.33	14.84	3.87
14,182.0	98.10	350.50	12,133.6	2,228.2	-252.1	-1,327.2	7.54	5.94	4.69
14,214.0	99.10	354.20	12,128.9	2,259.5	-256.3	-1,345.4	11.85	3.13	11.56
14,245.0	99.10	358.20	12,124.0	2,290.0	-258.4	-1,364.6	12.74	0.00	12.90
14,277.0	97.10	0.60	12,119.4	2,321.7	-258.7	-1,385.9	9.71	-6.25	7.50
14,308.0	95.30	0.30	12,116.1	2,352.5	-258.5	-1,407.0	5.89	-5.81	-0.97
14,340.0	92.90	0.50	12,113.8	2,384.4	-258.2	-1,428.8	7.53	-7.50	0.63
14,372.0	90.80	0.20	12,112.8	2,416.4	-258.0	-1,450.7	6.63	-6.56	-0.94
14,436.0	91.20	0.30	12,111.7	2,480.4	-257.8	-1,494.3	0.64	0.63	0.16
14,530.0	94.70	1.70	12,106.8	2,574.3	-256.1	-1,559.2	4.01	3.72	1.49

Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

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)
14,625.0	91.20	3.30	12,101.9	2,669.0	-252.0	-1,626.6	4.05	-3.68	1.68
14,721.0	89.40	2.40	12,101.4	2,764.9	-247.2	-1,695.1	2.10	-1.88	-0.94
14,816.0	89.10	2.10	12,102.7	2,859.8	-243.5	-1,762.3	0.45	-0.32	-0.32
14,911.0	89.50	2.20	12,103.8	2,954.7	-239.9	-1,829.4	0.43	0.42	0.11
15,007.0	88.80	1.90	12,105.3	3,050.7	-236.5	-1,897.0	0.79	-0.73	-0.31
15,102.0	90.20	1.20	12,106.1	3,145.6	-233.9	-1,963.3	1.65	1.47	-0.74
15,197.0	92.00	359.80	12,104.3	3,240.6	-233.1	-2,028.4	2.40	1.89	-1.47
15,292.0	92.40	359.40	12,100.6	3,335.5	-233.8	-2,092.4	0.60	0.42	-0.42
15,387.0	91.20	359.40	12,097.6	3,430.5	-234.8	-2,156.1	1.26	-1.26	0.00
15,482.0	91.00	358.70	12,095.8	3,525.4	-236.3	-2,219.4	0.77	-0.21	-0.74
15,577.0	89.40	357.70	12,095.5	3,620.4	-239.3	-2,281.6	1.99	-1.68	-1.05
15,672.0	91.30	0.10	12,094.9	3,715.4	-241.1	-2,344.7	3.22	2.00	2.53
15,767.0	90.10	0.40	12,093.7	3,810.4	-240.7	-2,409.5	1.30	-1.26	0.32
15,863.0	87.00	359.40	12,096.2	3,906.3	-240.9	-2,474.5	3.39	-3.23	-1.04
15,958.0	92.40	1.20	12,096.7	4,001.3	-240.4	-2,539.4	5.99	5.68	1.89
16,053.0	91.40	0.00	12,093.5	4,096.2	-239.4	-2,604.5	1.64	-1.05	-1.26
16,149.0	89.80	0.40	12,092.5	4,192.2	-239.1	-2,669.9	1.72	-1.67	0.42
16,244.0	94.10	1.50	12,089.3	4,287.1	-237.5	-2,735.5	4.67	4.53	1.16
16,339.0	92.70	1.90	12,083.6	4,381.9	-234.7	-2,801.9	1.53	-1.47	0.42
16,434.0	92.20	2.30	12,079.6	4,476.7	-231.2	-2,868.8	0.67	-0.53	0.42
16,529.0	92.20	3.20	12,075.9	4,571.6	-226.6	-2,936.5	0.95	0.00	0.95
16,624.0	90.80	2.10	12,073.4	4,666.4	-222.3	-3,004.2	1.87	-1.47	-1.16
16,720.0	91.40	2.70	12,071.6	4,762.3	-218.2	-3,072.2	0.88	0.63	0.63
16,815.0	91.40	3.50	12,069.3	4,857.2	-213.1	-3,140.3	0.84	0.00	0.84
16,910.0	91.70	3.50	12,066.7	4,951.9	-207.3	-3,208.9	0.32	0.32	0.00
17,006.0	85.80	3.10	12,068.8	5,047.7	-201.8	-3,278.0	6.16	-6.15	-0.42
17,101.0	85.90	3.60	12,075.7	5,142.3	-196.2	-3,346.3	0.54	0.11	0.53
17,152.0	86.10	4.20	12,079.2	5,193.1	-192.8	-3,383.3	1.24	0.39	1.18
17,200.0	86.10	4.20	12,082.5	5,240.8	-189.3	-3,418.3	0.00	0.00	0.00

17200' MD Projected to Bit

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
17,200.0	12,082.5	5,240.8	-189.3	17200' MD Projected to Bit



December 15, 2016

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
Jennings 34 W1MD Federal Com #001H
Jennings; Upper Bone Spring Shale
Lea County, New Mexico
API# 30-025-43362

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:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Keith Broussard	Original Hole	11,365ft. to 17,152ft.	11-19-16 to 11-30-16	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.


Todd 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\Jennings 34 W1MD Federal Com #1H1M161081

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



December 15, 2016

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of November 19, 2016, through November 30, 2016 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 11,365 feet to a depth of 17,152 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Jennings 34 W1MD Federal Com #001H well, API # 30-025-43362 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.

Todd 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



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed C
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Project	Lea County N.M.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 3-34-26S-32E Jennings 34 W1MD Fed Com 1H		
Site Position:		Northing:	392,999.90 usft
From:	Map	Easting:	706,211.60 usft
Position Uncertainty:	0.0 usft.	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 43.403 N
		Longitude:	103° 40' 3.217 W
		Grid Convergence:	0.35 "

Well	Jennings 34 W1MD Fed Com 1H					
Well Position	+N/-S	0.0 usft	Northing:	392,999.90 usft	Latitude:	32° 4' 43.403 N
	+E/-W	0.0 usft	Easting:	706,211.60 usft	Longitude:	103° 40' 3.217 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,317.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/3/2016	7.05	59.92	47,905.79662370

Design	Original Hole			
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	227.25



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed C
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey Program Date 11/30/2016

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	11,280.0	VES Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot
11,365.0	17,200.0	MWD Curve & Lateral Survey (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 (°)	Tie-In
11,280.0	0.54	258.67	11,273.4	-118.6	-45.3	126.9	200.90	Tie-In
11,365.0	1.20	270.20	11,358.4	-118.7	-48.5	127.5	201.43	
11,460.0	2.90	306.20	11,453.3	-117.2	-49.5	127.3	202.89	
11,492.0	7.30	329.70	11,485.2	-115.0	-51.2	125.9	203.99	
11,524.0	10.40	346.60	11,516.8	-110.4	-52.9	122.4	205.58	
11,555.0	13.50	351.80	11,547.1	-104.1	-54.0	117.3	207.43	
11,586.0	15.20	352.80	11,577.2	-96.5	-55.1	111.1	209.70	
11,618.0	16.50	351.80	11,607.9	-87.9	-56.2	104.3	212.62	
11,650.0	18.20	349.30	11,638.5	-78.5	-57.8	97.5	216.39	
11,681.0	20.80	348.10	11,667.7	-68.3	-59.8	90.8	221.22	
11,713.0	22.00	347.00	11,697.5	-56.8	-62.4	84.4	227.62	
11,744.0	23.80	347.80	11,726.1	-45.1	-65.0	79.1	235.22	
11,776.0	27.90	350.40	11,754.8	-31.4	-67.6	74.6	245.07	
11,808.0	32.00	351.90	11,782.6	-15.7	-70.1	71.8	257.41	
11,839.0	36.40	352.40	11,808.2	1.6	-72.4	72.4	271.27	
11,871.0	38.90	351.40	11,833.5	21.0	-75.2	78.1	285.57	
11,903.0	40.50	350.10	11,858.2	41.1	-78.5	88.6	297.66	
11,935.0	42.30	348.70	11,882.2	61.9	-82.4	103.1	306.93	
11,967.0	45.10	350.70	11,905.3	83.7	-86.3	120.2	314.11	
11,998.0	47.40	353.40	11,926.7	105.6	-89.4	138.6	319.81	
12,030.0	51.80	354.40	11,947.5	130.1	-92.0	159.3	324.73	



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed C
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
12,062.0	54.20	354.60	11,966.7	155.5	-94.4	181.9	326.73
12,093.0	55.90	355.50	11,984.5	180.8	-95.6	205.0	331.88
12,125.0	56.90	356.70	12,002.2	207.4	-98.4	229.6	334.61
12,156.0	58.50	356.90	12,018.6	233.6	-99.9	254.0	336.84
12,187.0	62.40	356.70	12,034.0	260.5	-101.4	279.5	338.73
12,219.0	65.10	356.80	12,048.2	289.1	-103.0	307.0	340.39
12,251.0	67.40	356.40	12,061.1	318.4	-104.8	335.2	341.79
12,283.0	68.50	356.40	12,073.1	348.0	-106.6	364.0	342.96
12,315.0	69.20	356.60	12,084.6	377.8	-108.5	393.0	343.98
12,346.0	72.30	355.70	12,094.9	407.0	-110.4	421.7	344.62
12,376.0	73.30	355.10	12,104.3	437.4	-112.9	451.8	345.53
12,389.0	73.50	354.80	12,107.5	447.9	-113.8	462.2	345.75
12,471.0	79.50	352.10	12,126.6	527.1	-122.9	541.2	346.87
12,503.0	82.70	352.50	12,131.6	558.4	-127.1	572.7	347.17
12,534.0	84.80	353.10	12,134.9	589.0	-131.0	603.4	347.46
12,566.0	86.80	354.50	12,137.3	620.7	-134.5	635.1	347.78
12,596.0	88.90	355.50	12,138.5	652.6	-137.2	666.9	348.12
12,693.0	85.70	355.50	12,142.9	747.2	-144.7	781.1	349.04
12,788.0	91.70	359.10	12,145.1	842.0	-149.2	855.1	349.95
12,883.0	91.60	359.80	12,142.4	936.9	-150.1	948.9	350.90
12,978.0	91.30	0.30	12,140.0	1,031.9	-150.0	1,042.8	351.73
13,073.0	90.60	0.40	12,138.4	1,126.9	-149.4	1,136.8	352.45
13,169.0	91.00	358.70	12,137.0	1,222.9	-150.2	1,232.1	353.00
13,262.0	88.70	359.20	12,137.3	1,315.9	-151.9	1,324.6	353.42
13,357.0	89.40	356.20	12,138.9	1,410.8	-155.7	1,419.3	353.70
13,453.0	91.50	354.90	12,138.1	1,506.5	-163.1	1,515.3	353.82
13,548.0	89.20	353.40	12,137.5	1,600.9	-172.8	1,610.2	353.64



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed C
Well: Jennings 34 W1MD Fed Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Com 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
13,643.0	91.20	355.10	12,137.2	1,695.5	-182.3	1,705.2	353.86
13,738.0	89.50	0.00	12,136.6	1,790.3	-186.4	1,800.0	354.06
13,834.0	90.50	354.00	12,136.6	1,885.2	-191.4	1,895.9	354.21
13,929.0	89.20	352.40	12,136.9	1,980.5	-202.6	1,990.8	354.16
14,023.0	88.70	346.60	12,138.6	2,072.8	-219.8	2,084.5	353.95
14,055.0	88.60	347.50	12,139.3	2,104.0	-226.9	2,116.2	353.84
14,087.0	89.20	348.30	12,140.0	2,135.3	-233.6	2,146.1	353.76
14,119.0	87.60	347.80	12,139.7	2,166.6	-240.3	2,179.9	353.67
14,150.0	96.20	349.00	12,137.6	2,198.8	-246.5	2,210.7	353.60
14,182.0	98.10	350.50	12,133.6	2,228.2	-252.1	2,242.4	353.54
14,214.0	99.10	354.20	12,128.9	2,259.5	-258.3	2,274.0	353.53
14,245.0	99.10	358.20	12,124.0	2,290.0	-258.4	2,304.6	353.56
14,277.0	97.10	0.60	12,119.4	2,321.7	-258.7	2,336.1	353.64
14,308.0	95.30	0.30	12,116.1	2,352.5	-258.5	2,366.7	353.73
14,340.0	92.90	0.50	12,113.8	2,384.4	-258.2	2,398.4	353.82
14,372.0	90.80	0.20	12,112.8	2,416.4	-258.0	2,430.2	353.90
14,436.0	91.20	0.30	12,111.7	2,480.4	-257.8	2,493.8	354.07
14,530.0	94.70	1.70	12,106.8	2,574.3	-258.1	2,587.0	354.32
14,625.0	91.20	3.30	12,101.9	2,669.0	-252.0	2,680.9	354.61
14,721.0	89.40	2.40	12,101.4	2,764.9	-247.2	2,775.9	354.89
14,816.0	89.10	2.10	12,102.7	2,859.8	-243.5	2,870.2	355.13
14,911.0	89.50	2.20	12,103.6	2,954.7	-239.9	2,964.5	355.36
15,007.0	88.80	1.90	12,105.3	3,050.7	-236.5	3,059.8	355.57
15,102.0	90.20	1.20	12,106.1	3,145.6	-233.9	3,154.3	355.75
15,197.0	92.00	359.80	12,104.3	3,240.6	-233.1	3,249.0	355.89
15,292.0	92.40	359.40	12,100.6	3,335.5	-233.8	3,343.7	355.99
15,387.0	91.20	359.40	12,097.6	3,430.5	-234.8	3,438.5	356.09



Microsoft
MWD Surveys



Company: Mewbourne Oil Company
Project: Lea County N.M.
Site: Section 3-34-26S-32E Jennings 34 W1MD Fed C
Well: Jennings 34 W1MD Fed Corn 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Jennings 34 W1MD Fed Corn 1H
TVD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
MD Reference: 3317 + 27 @ 3344.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Stryker_EDM

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)
15,482.0	91.00	358.70	12,095.8	3,525.4	-236.3	3,533.4	356.18
15,577.0	89.40	367.70	12,095.5	3,620.4	-239.3	3,628.3	358.22
15,572.0	91.30	0.10	12,094.9	3,715.4	-241.1	3,723.2	356.29
15,787.0	90.10	0.40	12,083.7	3,810.4	-240.7	3,818.0	358.39
15,863.0	87.00	359.40	12,096.2	3,806.3	-240.9	3,913.7	358.47
15,958.0	92.40	1.20	12,096.7	4,001.3	-240.4	4,008.5	356.56
16,053.0	91.40	0.00	12,093.5	4,098.2	-239.4	4,103.2	358.86
16,149.0	89.80	0.40	12,092.5	4,192.2	-239.1	4,199.0	358.74
16,244.0	94.10	1.50	12,089.3	4,287.1	-237.5	4,293.7	356.83
16,339.0	92.70	1.90	12,083.8	4,381.9	-234.7	4,388.2	356.93
16,434.0	92.20	2.30	12,079.6	4,476.7	-231.2	4,482.7	357.04
16,529.0	92.20	3.20	12,075.9	4,571.6	-226.6	4,577.2	357.16
16,624.0	90.80	2.10	12,073.4	4,666.4	-222.3	4,671.7	357.27
16,720.0	91.40	2.70	12,071.6	4,762.3	-218.2	4,767.3	357.38
16,815.0	91.40	3.50	12,069.3	4,857.2	-213.1	4,861.8	357.49
16,910.0	91.70	3.50	12,066.7	4,951.9	-207.3	4,956.3	357.60
17,006.0	85.80	3.10	12,068.8	5,047.7	-201.8	5,051.8	357.71
17,101.0	85.90	3.60	12,075.7	5,142.3	-196.2	5,146.1	357.81
17,152.0	86.10	4.20	12,079.2	5,193.1	-192.8	5,196.6	357.87
17,200.0	86.10	4.20	12,082.5	5,240.8	-189.3	5,244.2	357.93

17200' MD Projected to Bit

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
17,200.0	12,082.5	5,240.8	-189.3	17200' MD Projected to Bit