



NM OIL CONSERVATION
ARTESIA DISTRICT

JAN 31 2019

RECEIVED

Mewbourne Oil Co.

Eddy County, NM (NAD 83 NME)
(Armstrong 26/35) Sec-26_T-25-S_R-31-E
Armstrong 26/35 W1LM Fed Com #2H
API# 30-015-43798
ST01

Design: AWB

Standard Survey Report

15 October, 2018

INTREPID



Intrepid Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Armstrong 26/35 W1LM Fed Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3358.0usft (Patterson 231)
Site:	(Armstrong 26/35) Sec-26_T-25-S_R-31-E	MD Reference:	KB @ 3358.0usft (Patterson 231)
Well:	Armstrong 26/35 W1LM Fed Com #2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Eddy County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	(Armstrong 26/35) Sec-26_T-25-S_R-31-E		
Site Position:		Northing:	400,917.50 usft
From:	Map	Easting:	720,057.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 3.192 N
		Longitude:	103° 45' 22.201 W
		Grid Convergence:	0.31 °

Well	Armstrong 26/35 W1LM Fed Com #2H		
Well Position	+N/-S	0.0 usft	Northing: 400,917.50 usft
	+E/-W	0.0 usft	Easting: 720,007.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 3.194 N
		Longitude:	103° 45' 22.783 W
		Ground Level:	3,331.0 usft

Wellbore	ST01		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	09/24/18	6.89
			Dip Angle
			(°)
			59.90
			Field Strength
			(nT)
			47,715.66553673

Design	AWB		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	11,572.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			179.79

Survey Program	Date 10/15/18		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	925.0	Gyro Svys (OWB)	GYRO-NS
1,054.0	11,572.0	Intrepid MWD (OWB)	MWD
11,604.0	19,460.0	Intrepid MWD ST01 (ST01)	MWD
			Description
			OWSG Gyrocompass Gyro
			OWSG MWD - Standard
			OWSG MWD - Standard

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.29	275.41	100.0	0.0	-0.3	0.0	0.29	0.29	0.00
200.0	0.40	288.29	200.0	0.2	-0.8	-0.2	0.13	0.11	12.88
300.0	0.54	292.18	300.0	0.4	-1.6	-0.5	0.14	0.14	3.89
400.0	0.36	299.59	400.0	0.8	-2.3	-0.8	0.19	-0.18	7.41
500.0	0.44	293.69	500.0	1.1	-2.9	-1.1	0.09	0.08	-5.90
600.0	0.33	291.70	600.0	1.3	-3.6	-1.4	0.11	-0.11	-1.99
700.0	0.70	340.09	700.0	2.0	-4.0	-2.0	0.54	0.37	48.39
800.0	0.80	341.91	800.0	3.3	-4.5	-3.3	0.10	0.10	1.82



Intrepid Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Armstrong 26/35 W1LM Fed Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3358.0usft (Patterson 231)
Site:	(Armstrong 26/35) Sec-26_T-25-S_R-31-E	MD Reference:	KB @ 3358.0usft (Patterson 231)
Well:	Armstrong 26/35 W1LM Fed Com #2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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	1.08	327.48	900.0	4.7	-5.2	-4.7	0.36	0.28	-14.43
925.0	1.19	322.39	925.0	5.1	-5.5	-5.1	0.60	0.44	-20.36
1,054.0	1.70	328.50	1,053.9	7.8	-7.3	-7.8	0.41	0.40	4.74
1,148.0	1.60	320.00	1,147.9	10.0	-8.9	-10.0	0.28	-0.11	-9.04
1,244.0	1.30	321.20	1,243.8	11.9	-10.4	-11.9	0.31	-0.31	1.25
1,338.0	0.70	338.90	1,337.8	13.3	-11.3	-13.3	0.71	-0.64	18.83
1,433.0	0.60	340.50	1,432.8	14.3	-11.6	-14.3	0.11	-0.11	1.68
1,528.0	0.60	283.30	1,527.8	14.9	-12.3	-14.9	0.60	0.00	-60.21
1,622.0	0.50	267.60	1,621.8	14.9	-13.2	-15.0	0.19	-0.11	-16.70
1,716.0	0.40	255.40	1,715.8	14.8	-13.9	-14.9	0.15	-0.11	-12.98
1,811.0	0.30	250.30	1,810.8	14.7	-14.5	-14.7	0.11	-0.11	-5.37
1,909.0	0.40	139.10	1,908.8	14.3	-14.5	-14.4	0.59	0.10	-113.47
2,003.0	0.50	133.90	2,002.8	13.8	-14.0	-13.9	0.11	0.11	-5.53
2,100.0	0.20	193.30	2,099.8	13.3	-13.7	-13.4	0.45	-0.31	61.24
2,195.0	0.50	177.70	2,194.8	12.8	-13.7	-12.8	0.33	0.32	-16.42
2,290.0	0.50	174.60	2,289.8	11.9	-13.7	-12.0	0.03	0.00	-3.26
2,385.0	0.30	254.80	2,384.8	11.5	-13.9	-11.5	0.57	-0.21	84.42
2,479.0	0.30	272.10	2,478.8	11.4	-14.4	-11.5	0.10	0.00	18.40
2,574.0	0.40	177.80	2,573.8	11.1	-14.6	-11.1	0.54	0.11	-99.26
2,669.0	0.50	216.00	2,668.8	10.4	-14.8	-10.5	0.33	0.11	40.21
2,765.0	0.60	267.10	2,764.8	10.1	-15.6	-10.1	0.50	0.10	53.23
2,859.0	0.20	261.60	2,858.8	10.0	-16.2	-10.1	0.43	-0.43	-5.85
2,954.0	0.40	261.60	2,953.8	9.9	-16.7	-10.0	0.21	0.21	0.00
3,050.0	0.20	144.60	3,049.8	9.7	-17.0	-9.8	0.54	-0.21	-121.88
3,145.0	0.30	20.80	3,144.8	9.8	-16.8	-9.9	0.47	0.11	-130.32
3,240.0	0.70	22.20	3,239.8	10.6	-16.5	-10.7	0.42	0.42	1.47
3,335.0	0.50	9.60	3,334.8	11.6	-16.2	-11.6	0.25	-0.21	-13.26
3,430.0	0.40	353.80	3,429.8	12.3	-16.1	-12.4	0.17	-0.11	-16.63
3,525.0	0.30	83.90	3,524.8	12.7	-15.9	-12.7	0.53	-0.11	94.84
3,620.0	0.10	117.30	3,619.8	12.6	-15.6	-12.7	0.24	-0.21	35.16
3,715.0	0.80	96.20	3,714.8	12.5	-14.9	-12.6	0.74	0.74	-22.21
3,810.0	1.10	127.20	3,809.8	11.9	-13.5	-12.0	0.62	0.32	32.63
3,906.0	0.70	137.20	3,905.7	10.9	-12.4	-11.0	0.45	-0.42	10.42
4,000.0	0.70	143.60	3,999.7	10.0	-11.6	-10.1	0.08	0.00	6.81
4,095.0	0.90	152.50	4,094.7	8.9	-10.9	-9.0	0.25	0.21	9.37
4,180.0	0.80	161.20	4,179.7	7.8	-10.4	-7.8	0.19	-0.12	10.24
4,289.0	0.40	123.50	4,288.7	6.8	-9.9	-6.9	0.50	-0.37	-34.59
4,384.0	2.90	10.50	4,383.7	9.0	-9.2	-9.0	3.24	2.63	-118.95
4,479.0	4.20	10.10	4,478.5	14.8	-8.1	-14.8	1.37	1.37	-0.42
4,573.0	4.00	11.20	4,572.2	21.4	-6.9	-21.4	0.23	-0.21	1.17
4,668.0	4.10	11.80	4,667.0	28.0	-5.5	-28.0	0.11	0.11	0.63
4,763.0	4.10	13.30	4,761.8	34.6	-4.1	-34.6	0.11	0.00	1.58
4,858.0	4.00	16.50	4,856.5	41.1	-2.3	-41.1	0.26	-0.11	3.37



Intrepid Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Armstrong 26/35 W1LM Fed Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3358.0usft (Patterson 231)
Site:	(Armstrong 26/35) Sec-26_T-25-S_R-31-E	MD Reference:	KB @ 3358.0usft (Patterson 231)
Well:	Armstrong 26/35 W1LM Fed Com #2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
4,952.0	4.10	2.30	4,950.3	47.6	-1.3	-47.6	1.07	0.11	-15.11
5,048.0	5.10	352.90	5,046.0	55.3	-1.7	-55.3	1.30	1.04	-9.79
5,142.0	3.80	2.90	5,139.7	62.5	-2.0	-62.5	1.61	-1.38	10.64
5,236.0	3.20	9.90	5,233.5	68.2	-1.4	-68.2	0.78	-0.64	7.45
5,330.0	3.00	7.00	5,327.4	73.2	-0.7	-73.2	0.27	-0.21	-3.09
5,426.0	3.00	6.30	5,423.3	78.2	-0.1	-78.2	0.04	0.00	-0.73
5,520.0	3.00	5.50	5,517.1	83.1	0.4	-83.1	0.04	0.00	-0.85
5,614.0	3.00	3.10	5,611.0	88.0	0.8	-88.0	0.13	0.00	-2.55
5,709.0	2.80	2.40	5,705.9	92.8	1.0	-92.8	0.21	-0.21	-0.74
5,804.0	3.80	7.10	5,800.7	98.3	1.5	-98.3	1.09	1.05	4.95
5,898.0	4.40	8.70	5,894.5	104.9	2.4	-104.9	0.65	0.64	1.70
5,992.0	4.20	8.00	5,988.2	111.9	3.5	-111.9	0.22	-0.21	-0.74
6,088.0	4.10	9.40	6,084.0	118.8	4.5	-118.7	0.15	-0.10	1.46
6,183.0	4.20	358.50	6,178.7	125.6	5.0	-125.6	0.84	0.11	-11.47
6,277.0	4.50	347.30	6,272.4	132.6	4.1	-132.6	0.96	0.32	-11.91
6,372.0	4.40	348.50	6,367.2	139.8	2.5	-139.8	0.14	-0.11	1.26
6,467.0	4.20	5.70	6,461.9	146.9	2.2	-146.9	1.37	-0.21	18.11
6,562.0	4.10	7.90	6,556.6	153.7	3.0	-153.7	0.20	-0.11	2.32
6,656.0	3.70	5.30	6,650.4	160.0	3.7	-160.0	0.47	-0.43	-2.77
6,751.0	3.60	7.70	6,745.2	166.0	4.4	-166.0	0.19	-0.11	2.53
6,846.0	3.10	11.70	6,840.1	171.5	5.3	-171.5	0.58	-0.53	4.21
6,941.0	2.80	15.50	6,934.9	176.3	6.5	-176.2	0.38	-0.32	4.00
7,037.0	2.60	14.30	7,030.8	180.6	7.6	-180.6	0.22	-0.21	-1.25
7,133.0	2.50	17.10	7,126.7	184.7	8.8	-184.7	0.17	-0.10	2.92
7,228.0	2.50	347.90	7,221.7	188.8	8.9	-188.7	1.33	0.00	-30.74
7,323.0	2.50	345.20	7,316.6	192.8	8.0	-192.8	0.12	0.00	-2.84
7,418.0	1.30	324.70	7,411.5	195.7	6.8	-195.6	1.43	-1.26	-21.58
7,513.0	1.10	308.00	7,506.5	197.1	5.5	-197.1	0.42	-0.21	-17.58
7,607.0	1.20	309.70	7,600.5	198.3	4.0	-198.3	0.11	0.11	1.81
7,702.0	1.10	308.70	7,695.5	199.5	2.5	-199.5	0.11	-0.11	-1.05
7,797.0	0.90	309.20	7,790.4	200.5	1.3	-200.5	0.21	-0.21	0.53
7,892.0	0.90	301.00	7,885.4	201.4	0.0	-201.4	0.14	0.00	-8.63
7,987.0	0.80	303.30	7,980.4	202.1	-1.2	-202.1	0.11	-0.11	2.42
8,082.0	0.60	292.50	8,075.4	202.7	-2.2	-202.7	0.25	-0.21	-11.37
8,177.0	0.60	317.60	8,170.4	203.3	-3.0	-203.3	0.27	0.00	26.42
8,272.0	0.60	302.30	8,265.4	203.9	-3.7	-203.9	0.17	0.00	-16.11
8,366.0	0.50	288.50	8,359.4	204.3	-4.5	-204.3	0.18	-0.11	-14.68
8,461.0	0.60	275.10	8,454.4	204.5	-5.4	-204.5	0.17	0.11	-14.11
8,556.0	0.40	321.00	8,549.4	204.8	-6.1	-204.8	0.45	-0.21	48.32
8,651.0	0.40	348.10	8,644.4	205.3	-6.4	-205.4	0.20	0.00	28.53
8,746.0	1.00	7.00	8,739.4	206.5	-6.4	-206.5	0.67	0.63	19.89
8,840.0	1.30	9.80	8,833.4	208.4	-6.1	-208.4	0.32	0.32	2.98
8,936.0	1.40	3.30	8,929.3	210.6	-5.8	-210.6	0.19	0.10	-6.77



Intrepid Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Armstrong 26/35 W1LM Fed Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3358.0usft (Patterson 231)
Site:	(Armstrong 26/35) Sec-26_T-25-S_R-31-E	MD Reference:	KB @ 3358.0usft (Patterson 231)
Well:	Armstrong 26/35 W1LM Fed Com #2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
9,031.0	0.50	323.40	9,024.3	212.1	-6.0	-212.1	1.12	-0.95	-42.00
9,127.0	0.50	340.20	9,120.3	212.8	-6.4	-212.8	0.15	0.00	17.50
9,222.0	0.40	354.60	9,215.3	213.5	-6.6	-213.6	0.16	-0.11	15.16
9,318.0	0.70	169.20	9,311.3	213.3	-6.5	-213.3	1.14	0.31	181.88
9,412.0	1.20	159.70	9,405.3	211.8	-6.0	-211.8	0.56	0.53	-10.11
9,506.0	1.10	168.70	9,499.3	210.0	-5.5	-210.0	0.22	-0.11	9.57
9,600.0	1.30	175.40	9,593.3	208.1	-5.3	-208.1	0.26	0.21	7.13
9,694.0	1.50	170.90	9,687.2	205.8	-5.0	-205.8	0.24	0.21	-4.79
9,788.0	2.00	172.40	9,781.2	202.9	-4.6	-203.0	0.53	0.53	1.60
9,883.0	0.50	198.40	9,876.2	200.9	-4.5	-200.9	1.65	-1.58	27.37
9,977.0	0.80	198.60	9,970.2	199.9	-4.8	-199.9	0.32	0.32	0.21
10,072.0	0.70	183.80	10,065.2	198.7	-5.1	-198.7	0.23	-0.11	-15.58
10,166.0	0.70	179.50	10,159.1	197.5	-5.1	-197.6	0.06	0.00	-4.57
10,260.0	1.10	224.30	10,253.1	196.3	-5.7	-196.3	0.83	0.43	47.66
10,354.0	1.30	213.30	10,347.1	194.8	-6.9	-194.8	0.32	0.21	-11.70
10,448.0	1.70	198.80	10,441.1	192.6	-8.0	-192.6	0.58	0.43	-15.43
10,542.0	2.00	131.00	10,535.0	190.2	-7.2	-190.2	2.21	0.32	-72.13
10,637.0	1.70	124.40	10,630.0	188.3	-4.8	-188.3	0.39	-0.32	-6.95
10,731.0	0.80	183.70	10,724.0	186.8	-3.7	-186.9	1.56	-0.96	63.09
10,826.0	1.10	152.60	10,819.0	185.4	-3.3	-185.4	0.62	0.32	-32.74
10,921.0	1.50	142.00	10,913.9	183.6	-2.1	-183.6	0.49	0.42	-11.16
11,015.0	1.10	149.00	11,007.9	181.8	-0.9	-181.8	0.46	-0.43	7.45
11,109.0	1.70	351.90	11,101.9	182.4	-0.6	-182.4	2.92	0.64	-167.13
11,204.0	1.10	13.40	11,196.9	184.7	-0.6	-184.7	0.83	-0.63	22.63
11,298.0	0.50	50.90	11,290.9	185.9	-0.1	-185.9	0.82	-0.64	39.89
11,393.0	0.20	126.00	11,385.9	186.0	0.4	-186.0	0.51	-0.32	79.05
11,484.0	0.60	116.70	11,476.9	185.7	0.9	-185.7	0.44	0.44	-10.22
11,510.0	0.70	144.00	11,502.9	185.5	1.1	-185.5	1.24	0.38	105.00
11,541.0	0.70	134.90	11,533.9	185.2	1.4	-185.2	0.36	0.00	-29.35
11,572.0	2.20	153.40	11,564.8	184.6	1.8	-184.6	5.01	4.84	59.68
11,604.0	5.90	171.00	11,596.8	182.4	2.3	-182.4	12.06	11.56	55.00
11,636.0	12.40	174.90	11,628.3	177.4	2.9	-177.3	20.39	20.31	12.19
11,668.0	19.90	175.70	11,659.1	168.5	3.6	-168.5	23.45	23.44	2.50
11,699.0	26.10	176.00	11,687.6	156.4	4.5	-156.4	20.00	20.00	0.97
11,731.0	33.10	176.50	11,715.4	140.6	5.5	-140.6	21.89	21.88	1.56
11,762.0	39.90	177.40	11,740.3	122.2	6.5	-122.2	22.00	21.94	2.90
11,772.0	42.20	177.50	11,747.8	115.7	6.8	-115.7	23.01	23.00	1.00
11,854.0	51.60	180.50	11,803.8	55.9	7.7	-55.9	11.77	11.46	3.66
11,885.0	52.60	179.30	11,822.8	31.4	7.7	-31.4	4.44	3.23	-3.87
11,917.0	53.90	178.60	11,842.0	5.8	8.2	-5.8	4.42	4.06	-2.19
11,948.0	54.90	178.60	11,860.0	-19.4	8.8	19.4	3.23	3.23	0.00
11,980.0	56.30	178.80	11,878.1	-45.8	9.4	45.8	4.41	4.38	0.63
12,011.0	56.90	179.50	11,895.2	-71.7	9.8	71.7	2.70	1.94	2.26
12,042.0	56.40	178.90	11,912.2	-97.6	10.2	97.6	2.28	-1.61	-1.94



Intrepid Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Armstrong 26/35 W1LM Fed Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3358.0usft (Patterson 231)
Site:	(Armstrong 26/35) Sec-26_T-25-S_R-31-E	MD Reference:	KB @ 3358.0usft (Patterson 231)
Well:	Armstrong 26/35 W1LM Fed Com #2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
12,074.0	55.80	179.10	11,930.1	-124.1	10.6	124.2	1.95	-1.88	0.63
12,105.0	55.10	179.40	11,947.6	-149.6	11.0	149.7	2.39	-2.26	0.97
12,136.0	55.40	180.30	11,965.3	-175.1	11.0	175.2	2.57	0.97	2.90
12,168.0	56.00	180.30	11,983.4	-201.5	10.9	201.6	1.88	1.88	0.00
12,220.0	56.40	177.60	12,012.3	-244.7	11.7	244.8	4.38	0.77	-5.19
12,251.0	56.00	177.60	12,029.5	-270.5	12.8	270.5	1.29	-1.29	0.00
12,283.0	58.40	177.20	12,046.9	-297.4	14.0	297.4	7.57	7.50	-1.25
12,314.0	62.10	177.20	12,062.2	-324.2	15.3	324.3	11.94	11.94	0.00
12,346.0	67.20	177.20	12,075.9	-353.1	16.7	353.2	15.94	15.94	0.00
12,377.0	72.30	177.90	12,086.7	-382.2	17.9	382.2	16.59	16.45	2.26
12,409.0	75.20	178.20	12,095.6	-412.9	19.0	412.9	9.11	9.06	0.94
12,441.0	78.11	179.66	12,103.0	-444.0	19.6	444.0	10.12	9.09	4.56
12,483.0	82.81	180.62	12,110.0	-485.4	19.5	485.5	11.42	11.19	2.29
12,530.0	85.45	181.06	12,114.8	-532.1	18.8	532.2	5.69	5.62	0.94
12,577.0	86.81	179.92	12,117.9	-579.0	18.4	579.1	3.77	2.89	-2.43
12,672.0	91.82	180.27	12,119.1	-674.0	18.2	674.0	5.29	5.27	0.37
12,766.0	90.73	181.59	12,117.0	-767.9	16.7	768.0	1.82	-1.16	1.40
12,860.0	89.36	181.41	12,116.9	-861.9	14.2	862.0	1.47	-1.46	-0.19
12,954.0	89.58	181.94	12,117.8	-955.9	11.5	955.9	0.61	0.23	0.56
13,048.0	89.41	181.68	12,118.6	-1,049.8	8.5	1,049.8	0.33	-0.18	-0.28
13,143.0	88.92	181.24	12,120.0	-1,144.8	6.1	1,144.8	0.69	-0.52	-0.46
13,237.0	89.63	181.59	12,121.2	-1,238.7	3.8	1,238.7	0.84	0.76	0.37
13,332.0	90.99	182.47	12,120.7	-1,333.7	0.4	1,333.7	1.71	1.43	0.93
13,426.0	89.36	182.64	12,120.4	-1,427.6	-3.8	1,427.6	1.74	-1.73	0.18
13,520.0	89.76	181.94	12,121.1	-1,521.5	-7.5	1,521.5	0.86	0.43	-0.74
13,614.0	90.15	180.62	12,121.2	-1,615.5	-9.6	1,615.4	1.46	0.41	-1.40
13,709.0	91.96	180.45	12,119.4	-1,710.4	-10.5	1,710.4	1.91	1.91	-0.18
13,803.0	91.43	180.27	12,116.6	-1,804.4	-11.1	1,804.3	0.60	-0.56	-0.19
13,898.0	91.16	179.74	12,114.5	-1,899.4	-11.1	1,899.3	0.63	-0.28	-0.56
13,992.0	93.85	182.47	12,110.4	-1,993.3	-12.9	1,993.2	4.08	2.86	2.90
14,086.0	92.04	180.71	12,105.6	-2,087.1	-15.5	2,087.0	2.68	-1.93	-1.87
14,179.0	90.81	176.49	12,103.2	-2,180.0	-13.3	2,179.9	4.73	-1.32	-4.54
14,273.0	91.16	178.07	12,101.6	-2,273.9	-8.8	2,273.8	1.72	0.37	1.68
14,367.0	89.05	178.16	12,101.5	-2,367.8	-5.7	2,367.8	2.25	-2.24	0.10
14,462.0	87.52	177.90	12,104.3	-2,462.7	-2.4	2,462.7	1.63	-1.61	-0.27
14,555.0	86.42	177.46	12,109.2	-2,555.5	1.3	2,555.5	1.27	-1.18	-0.47
14,649.0	90.07	177.20	12,112.1	-2,649.4	5.7	2,649.4	3.89	3.88	-0.28
14,743.0	92.44	177.90	12,110.0	-2,743.2	9.7	2,743.3	2.63	2.52	0.74
14,837.0	90.07	178.69	12,108.0	-2,837.2	12.5	2,837.2	2.66	-2.52	0.84
14,931.0	90.73	179.39	12,107.3	-2,931.2	14.1	2,931.2	1.02	0.70	0.74
15,024.0	91.65	180.36	12,105.4	-3,024.1	14.3	3,024.2	1.44	0.99	1.04
15,118.0	89.54	180.18	12,104.4	-3,118.1	13.8	3,118.1	2.25	-2.24	-0.19
15,210.0	90.15	180.80	12,104.7	-3,210.1	13.1	3,210.1	0.95	0.66	0.67



Intrepid Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Armstrong 26/35 W1LM Fed Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3358.0usft (Patterson 231)
Site:	(Armstrong 26/35) Sec-26_T-25-S_R-31-E	MD Reference:	KB @ 3358.0usft (Patterson 231)
Well:	Armstrong 26/35 W1LM Fed Com #2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
15,304.0	90.11	179.39	12,104.5	-3,304.1	12.9	3,304.1	1.50	-0.04	-1.50
15,398.0	90.02	179.48	12,104.3	-3,398.1	13.8	3,398.1	0.14	-0.10	0.10
15,492.0	89.63	179.39	12,104.6	-3,492.1	14.8	3,492.1	0.43	-0.41	-0.10
15,587.0	90.11	178.95	12,104.8	-3,587.1	16.1	3,587.1	0.69	0.51	-0.46
15,680.0	91.16	178.60	12,103.8	-3,680.1	18.1	3,680.1	1.19	1.13	-0.38
15,774.0	91.56	179.57	12,101.6	-3,774.0	19.6	3,774.1	1.12	0.43	1.03
15,868.0	91.96	179.92	12,098.7	-3,868.0	20.0	3,868.0	0.57	0.43	0.37
15,962.0	91.96	179.57	12,095.5	-3,961.9	20.5	3,962.0	0.37	0.00	-0.37
16,056.0	92.57	178.78	12,091.8	-4,055.8	21.8	4,055.9	1.06	0.65	-0.84
16,150.0	91.96	179.74	12,088.1	-4,149.8	23.0	4,149.8	1.21	-0.65	1.02
16,245.0	93.58	180.27	12,083.5	-4,244.6	23.0	4,244.7	1.79	1.71	0.56
16,339.0	94.77	180.45	12,076.6	-4,338.4	22.4	4,338.4	1.28	1.27	0.19
16,370.0	94.99	180.36	12,074.0	-4,369.3	22.2	4,369.3	0.77	0.71	-0.29
16,404.0	95.34	180.71	12,070.9	-4,403.1	21.9	4,403.2	1.45	1.03	1.03
16,435.0	93.54	182.38	12,068.5	-4,434.0	21.1	4,434.1	7.91	-5.81	5.39
16,466.0	88.44	181.77	12,068.0	-4,465.0	19.9	4,465.0	16.57	-16.45	-1.97
16,498.0	87.52	181.50	12,069.1	-4,497.0	19.0	4,497.0	3.00	-2.88	-0.84
16,529.0	88.09	180.80	12,070.3	-4,527.9	18.4	4,528.0	2.91	1.84	-2.26
16,561.0	88.79	179.66	12,071.2	-4,559.9	18.3	4,560.0	4.18	2.19	-3.56
16,623.0	88.84	179.66	12,072.5	-4,621.9	18.6	4,621.9	0.08	0.08	0.00
16,717.0	88.66	179.66	12,074.5	-4,715.9	19.2	4,715.9	0.19	-0.19	0.00
16,811.0	89.10	180.18	12,076.3	-4,809.9	19.3	4,809.9	0.72	0.47	0.55
16,906.0	89.10	180.18	12,077.8	-4,904.8	19.0	4,904.9	0.00	0.00	0.00
17,000.0	89.93	179.92	12,078.6	-4,998.8	18.9	4,998.9	0.93	0.88	-0.28
17,094.0	90.46	180.54	12,078.3	-5,092.8	18.6	5,092.9	0.87	0.56	0.66
17,189.0	90.99	179.92	12,077.1	-5,187.8	18.2	5,187.9	0.86	0.56	-0.65
17,283.0	91.43	180.71	12,075.1	-5,281.8	17.7	5,281.8	0.96	0.47	0.84
17,377.0	89.32	180.62	12,074.5	-5,375.8	16.6	5,375.8	2.25	-2.24	-0.10
17,471.0	89.19	180.18	12,075.7	-5,469.8	15.9	5,469.8	0.49	-0.14	-0.47
17,566.0	89.36	178.25	12,076.9	-5,564.8	17.2	5,564.8	2.04	0.18	-2.03
17,660.0	91.34	177.72	12,076.4	-5,658.7	20.5	5,658.7	2.18	2.11	-0.56
17,754.0	91.08	176.93	12,074.4	-5,752.6	24.9	5,752.6	0.88	-0.28	-0.84
17,848.0	91.12	177.90	12,072.6	-5,846.5	29.2	5,846.5	1.03	0.04	1.03
17,942.0	91.96	178.16	12,070.0	-5,940.4	32.4	5,940.4	0.94	0.89	0.28
18,036.0	92.53	178.87	12,066.4	-6,034.3	34.8	6,034.3	0.97	0.61	0.76
18,130.0	92.22	180.27	12,062.5	-6,128.2	35.5	6,128.3	1.52	-0.33	1.49
18,224.0	90.11	181.94	12,060.6	-6,222.1	33.7	6,222.2	2.86	-2.24	1.78
18,319.0	89.36	181.77	12,061.0	-6,317.1	30.6	6,317.1	0.81	-0.79	-0.18
18,413.0	89.27	181.68	12,062.1	-6,411.0	27.8	6,411.1	0.14	-0.10	-0.10
18,508.0	89.54	181.24	12,063.1	-6,506.0	25.4	6,506.0	0.54	0.28	-0.46
18,603.0	89.49	181.15	12,063.9	-6,601.0	23.4	6,601.0	0.11	-0.05	-0.09
18,697.0	89.27	179.39	12,064.9	-6,695.0	23.0	6,695.0	1.89	-0.23	-1.87
18,791.0	89.63	179.39	12,065.8	-6,789.0	24.0	6,789.0	0.38	0.38	0.00



Intrepid Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Armstrong 26/35 W1LM Fed Com #2H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 3358.0usft (Patterson 231)
Site:	(Armstrong 26/35) Sec-26_T-25-S_R-31-E	MD Reference:	KB @ 3358.0usft (Patterson 231)
Well:	Armstrong 26/35 W1LM Fed Com #2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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)
18,885.0	89.45	179.31	12,066.6	-6,882.9	25.0	6,883.0	0.21	-0.19	-0.09
18,982.0	88.44	178.69	12,068.4	-6,979.9	26.7	6,980.0	1.22	-1.04	-0.64
19,076.0	89.05	178.34	12,070.4	-7,073.9	29.2	7,073.9	0.75	0.65	-0.37
19,170.0	90.90	177.72	12,070.5	-7,167.8	32.4	7,167.9	2.08	1.97	-0.66
19,266.0	90.68	177.81	12,069.1	-7,263.7	36.1	7,263.8	0.25	-0.23	0.09
19,360.0	89.85	177.11	12,068.7	-7,357.6	40.3	7,357.7	1.16	-0.88	-0.74
19,394.0	90.42	177.81	12,068.6	-7,391.6	41.8	7,391.7	2.66	1.68	2.06
LAST SVY									
19,460.0	90.42	177.81	12,068.1	-7,457.5	44.3	7,457.6	0.00	0.00	0.00
Projection to TD @ 19460'MD, 334'FSL & 347'FWL									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Armstrong 26/35)	-0.55	179.79	12,053.0	-7,461.7	27.2	393,455.80	720,034.50	32° 4' 49.354 N	103° 45' 22.931 W
- actual wellpath misses target center by 23.2usft at 19460.0usft MD (12068.1 TVD, -7457.5 N, 44.3 E)									
- Rectangle (sides W60.0 H7,280.6 D20.0)									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,394.0	12,068.6	-7,391.6	41.8	LAST SVY
19,460.0	12,068.1	-7,457.5	44.3	Projection to TD @ 19460'MD, 334'FSL & 347'FWL

Checked By: _____ Approved By: _____ Date: _____

Memphish Oil Co.
 Project: Edgely County, NM (NAD 83 NINE)
 Site: Armstrong 2025 Sec-28, T-4-S, R-31-E
 Well: Armstrong 2025 WILM Fed Com 02H
 Design: AMB
 Date: 01/11/2011
 Lat: 37° 03' 22.733" N
 Long: 107° 45' 22.733" W
 UTM: 18Q UTM
 KB: KB @ 3360000 (Elevation 231)

WELL DETAILS: ARMSTRONG 2025 WILM Fed Com 02H

3331.0
 0.0 -06.4 -0.0
 400071.200 720007.500 37° 03' 22.733" N 107° 45' 22.733" W

SECTION DETAILS									
INC	AS	TO	WELL	WELL	WELL	WELL	WELL	WELL	WELL
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400071.200	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DESIGN TARGET DETAILS									
TYPE	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL

ANNOTATIONS									
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL
WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL	WELL

DESIGN TARGET DETAILS
 No casing data is available

