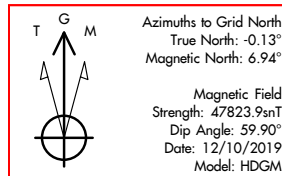


Plan #2



Project: Eddy Co., NM (NAD 83)
Site: Kansas 21-28
Well: W1KN Fed Com #3H
Wellbore: OH
Design: Plan #2
Lat: 32.202612
Long: -104.094706
GL: 3033.00
KB: RKB=28' @ 3061.00usft (Pat. 244)



WELL DETAILS: W1KN Fed Com #3H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	437526.30	615146.00	32.202612	-104.094706

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape Point
W1KN #3H PBHL	9711.00	-7454.40	-304.10	430071.90	614841.90	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2550.00	0.00	0.00	2550.00	0.00	0.00	0.00	0.00	0.00	Build 1°/100'
3000.41	4.50	302.10	2999.95	9.40	-14.99	1.00	302.10	-8.78	4970' Hold
7970.87	4.50	302.10	7955.05	216.84	-345.64	0.00	0.00	-202.57	Drop 1°/100'
8421.28	0.00	0.00	8405.00	226.24	-360.63	1.00	180.00	-211.35	743' Hold
9164.24	0.00	0.00	9147.97	226.24	-360.63	0.00	0.00	-211.35	Build 10°/100'
10065.04	90.08	179.58	9720.92	-347.50	-356.41	10.00	179.58	361.74	7107' hold
17172.14	90.08	179.58	9711.00	-7454.40	-304.10	0.00	0.00	7460.60	TD at 17213.26

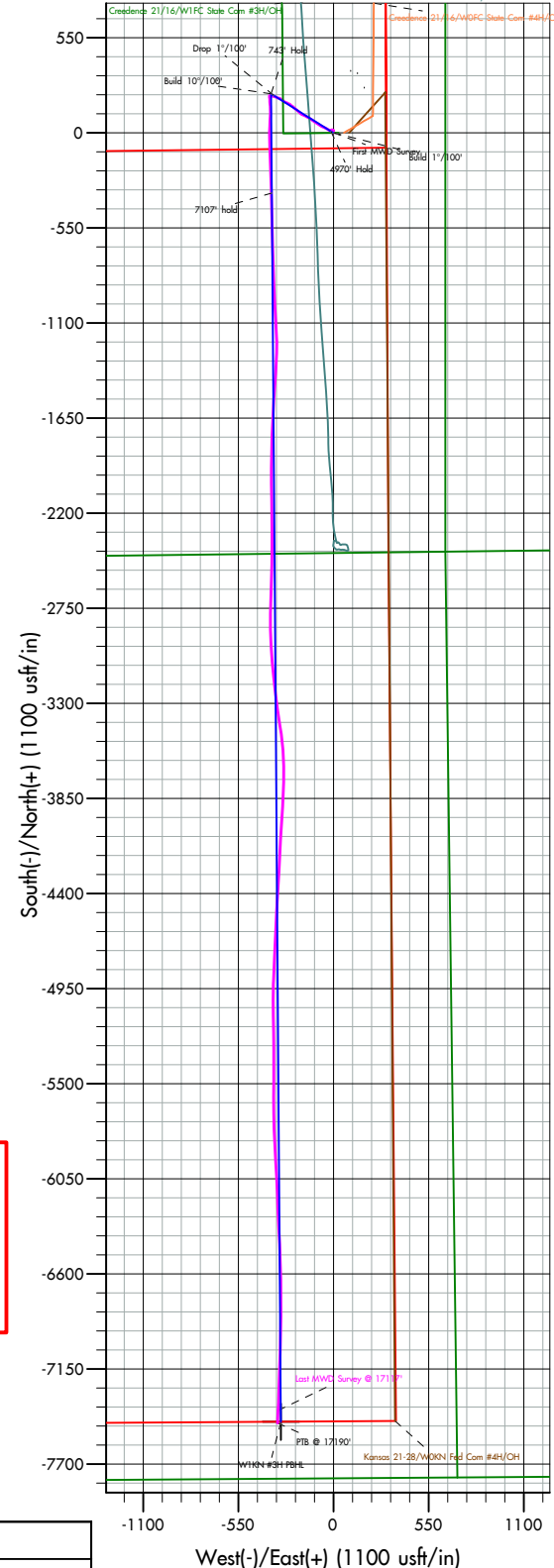
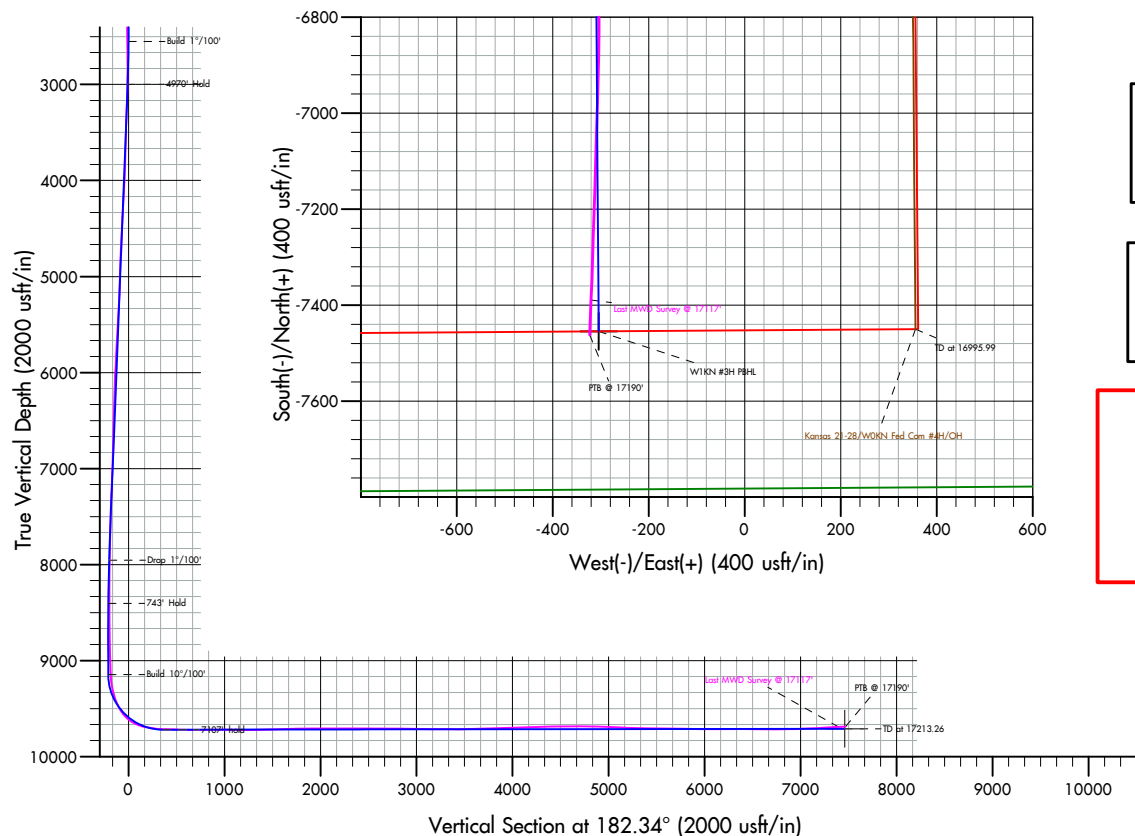
-Back
Build-
2660'
FSL &
1650'
FWL

50'
Dotted
Buffer
Line *DO
NOT
CROSS*

W1KN #3H SHL:
2430' FSL & 2010'
FWL

#3H PBHL:
330' FSL & 1650'
FWL

Hard Lines:
330' FSL
2340' FSL
2315' FWL
330' FWL





MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy Co., NM (NAD 83)

Kansas 21-28

W1KN Fed Com #3H

OH

Design: OH

Standard Survey Report

10 March, 2020



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well W1KN Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Site:	Kansas 21-28	MD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Well:	W1KN Fed Com #3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Eddy Co., NM (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		Kansas 21-28			
Site Position:		Northing:	437,526.30 usft	Latitude:	32.202612
From:	Map	Easting:	615,146.00 usft	Longitude:	-104.094707
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well		W1KN Fed Com #3H				
Well Position	+N/-S	0.00 usft	Northing:	437,526.30 usft	Latitude:	32.202612
	+E/-W	0.00 usft	Easting:	615,146.00 usft	Longitude:	-104.094707
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,033.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/10/19	7.07	59.90	47,823.90000000

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	182.34	

Survey Program	Date	03/10/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
195.00	17,190.00	MWD Survey (OH)	MWD	OWSG MWD - Standard	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.00	0.30	274.95	195.00	0.04	-0.51	-0.02	0.15	0.15	0.00
First MWD Survey									
326.00	0.20	333.95	326.00	0.28	-0.95	-0.24	0.20	-0.08	45.04
436.00	0.30	267.95	436.00	0.44	-1.32	-0.39	0.26	0.09	-60.00
499.00	0.31	319.47	499.00	0.56	-1.60	-0.50	0.42	0.02	81.78
590.00	0.36	320.04	589.99	0.97	-1.94	-0.89	0.06	0.05	0.63
680.00	0.47	332.94	679.99	1.52	-2.29	-1.42	0.16	0.12	14.33
777.00	0.76	343.22	776.99	2.49	-2.66	-2.38	0.32	0.30	10.60
871.00	0.89	346.83	870.98	3.79	-3.00	-3.67	0.15	0.14	3.84
965.00	0.78	357.85	964.97	5.14	-3.19	-5.01	0.21	-0.12	11.72

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well W1KN Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Site:	Kansas 21-28	MD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Well:	W1KN Fed Com #3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)
1,059.00	1.00	354.58	1,058.96	6.60	-3.30	-6.46	0.24	0.23	-3.48
1,152.00	0.82	350.82	1,151.94	8.07	-3.48	-7.92	0.20	-0.19	-4.04
1,246.00	0.84	349.60	1,245.93	9.41	-3.71	-9.25	0.03	0.02	-1.30
1,339.00	0.86	329.94	1,338.92	10.68	-4.18	-10.50	0.31	0.02	-21.14
1,433.00	0.82	314.87	1,432.91	11.77	-5.01	-11.55	0.24	-0.04	-16.03
1,527.00	0.90	312.46	1,526.90	12.74	-6.03	-12.48	0.09	0.09	-2.56
1,620.00	1.23	305.78	1,619.89	13.82	-7.38	-13.50	0.38	0.35	-7.18
1,714.00	1.30	305.50	1,713.86	15.03	-9.07	-14.64	0.07	0.07	-0.30
1,806.00	1.03	307.41	1,805.85	16.13	-10.58	-15.69	0.30	-0.29	2.08
1,899.00	0.29	345.52	1,898.84	16.87	-11.30	-16.39	0.88	-0.80	40.98
1,992.00	0.37	55.89	1,991.84	17.27	-11.11	-16.80	0.41	0.09	75.67
2,086.00	0.62	81.78	2,085.83	17.51	-10.35	-17.07	0.35	0.27	27.54
2,180.00	1.53	96.86	2,179.82	17.43	-8.61	-17.07	1.01	0.97	16.04
2,274.00	2.42	103.60	2,273.76	16.82	-5.43	-16.58	0.98	0.95	7.17
2,368.00	1.98	116.25	2,367.69	15.63	-2.05	-15.53	0.69	-0.47	13.46
2,461.00	1.13	135.67	2,460.66	14.26	0.04	-14.25	1.06	-0.91	20.88
2,553.00	1.66	237.12	2,552.64	12.89	-0.45	-12.86	2.38	0.58	110.27
2,646.00	1.81	241.91	2,645.60	11.47	-2.88	-11.34	0.22	0.16	5.15
2,740.00	2.01	256.44	2,739.55	10.38	-5.79	-10.14	0.56	0.21	15.46
2,832.00	2.10	265.08	2,831.49	9.86	-9.04	-9.48	0.35	0.10	9.39
2,926.00	2.75	284.29	2,925.40	10.27	-12.94	-9.73	1.10	0.69	20.44
3,020.00	4.31	300.10	3,019.22	12.60	-18.18	-11.84	1.94	1.66	16.82
3,113.00	4.28	299.29	3,111.96	16.05	-24.23	-15.04	0.07	-0.03	-0.87
3,208.00	4.36	299.36	3,206.69	19.55	-30.47	-18.29	0.08	0.08	0.07
3,301.00	4.27	297.11	3,299.43	22.86	-36.63	-21.35	0.21	-0.10	-2.42
3,394.00	4.14	296.35	3,392.18	25.93	-42.72	-24.17	0.15	-0.14	-0.82
3,487.00	3.96	296.36	3,484.95	28.85	-48.61	-26.84	0.19	-0.19	0.01
3,594.00	4.13	294.73	3,591.68	32.10	-55.42	-29.81	0.19	0.16	-1.52
3,688.00	4.03	294.95	3,685.44	34.91	-61.49	-32.37	0.11	-0.11	0.23
3,780.00	4.12	295.45	3,777.21	37.69	-67.40	-34.91	0.11	0.10	0.54
3,874.00	3.97	295.08	3,870.98	40.52	-73.40	-37.49	0.16	-0.16	-0.39
3,968.00	5.17	302.97	3,964.68	44.21	-79.90	-40.91	1.44	1.28	8.39
4,061.00	5.64	305.74	4,057.26	49.16	-87.12	-45.56	0.58	0.51	2.98
4,156.00	5.33	305.63	4,151.83	54.45	-94.50	-50.55	0.33	-0.33	-0.12
4,249.00	5.42	305.22	4,244.42	59.50	-101.60	-55.31	0.11	0.10	-0.44
4,342.00	5.40	304.96	4,337.00	64.54	-108.77	-60.05	0.03	-0.02	-0.28
4,435.00	5.54	304.34	4,429.58	69.58	-116.06	-64.79	0.16	0.15	-0.67
4,528.00	5.54	303.61	4,522.15	74.60	-123.51	-69.50	0.08	0.00	-0.78
4,620.00	5.33	303.66	4,613.73	79.43	-130.77	-74.02	0.23	-0.23	0.05
4,714.00	5.30	302.33	4,707.33	84.17	-138.07	-78.46	0.13	-0.03	-1.41
4,807.00	5.13	300.38	4,799.94	88.57	-145.28	-82.56	0.26	-0.18	-2.10
4,900.00	5.08	298.23	4,892.57	92.62	-152.50	-86.32	0.21	-0.05	-2.31
4,993.00	5.02	295.88	4,985.21	96.34	-159.79	-89.74	0.23	-0.06	-2.53

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well W1KN Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Site:	Kansas 21-28	MD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Well:	W1KN Fed Com #3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)	
5,087.00	4.98	295.04	5,078.86	99.86	-167.18	-92.96	0.09	-0.04	-0.89	
5,180.00	4.75	294.30	5,171.52	103.16	-174.35	-95.95	0.26	-0.25	-0.80	
5,275.00	4.48	293.34	5,266.21	106.25	-181.34	-98.75	0.30	-0.28	-1.01	
5,369.00	5.50	311.93	5,359.86	110.71	-188.06	-102.94	2.02	1.09	19.78	
5,462.00	5.56	310.37	5,452.43	116.61	-194.81	-108.56	0.17	0.06	-1.68	
5,555.00	5.48	309.62	5,545.00	122.36	-201.67	-114.02	0.12	-0.09	-0.81	
5,650.00	5.33	310.28	5,639.57	128.10	-208.53	-119.48	0.17	-0.16	0.69	
5,744.00	4.58	311.38	5,733.22	133.41	-214.67	-124.53	0.80	-0.80	1.17	
5,837.00	4.47	312.37	5,825.93	138.30	-220.14	-129.20	0.15	-0.12	1.06	
5,930.00	4.30	311.39	5,918.66	143.05	-225.43	-133.73	0.20	-0.18	-1.05	
6,025.00	4.18	309.27	6,013.40	147.60	-230.78	-138.05	0.21	-0.13	-2.23	
6,117.00	4.04	307.08	6,105.16	151.67	-235.96	-141.91	0.23	-0.15	-2.38	
6,211.00	3.43	307.76	6,198.96	155.39	-240.83	-145.43	0.65	-0.65	0.72	
6,305.00	3.18	310.06	6,292.81	158.79	-245.05	-148.65	0.30	-0.27	2.45	
6,399.00	3.31	310.11	6,386.66	162.22	-249.12	-151.91	0.14	0.14	0.05	
6,491.00	2.71	303.67	6,478.53	165.14	-252.96	-154.67	0.75	-0.65	-7.00	
6,585.00	3.09	298.30	6,572.41	167.57	-257.04	-156.93	0.50	0.40	-5.71	
6,679.00	3.60	297.09	6,666.25	170.11	-261.90	-159.28	0.55	0.54	-1.29	
6,772.00	3.43	293.87	6,759.07	172.57	-267.04	-161.52	0.28	-0.18	-3.46	
6,866.00	4.21	294.01	6,852.86	175.11	-272.76	-163.83	0.83	0.83	0.15	
6,960.00	3.79	291.50	6,946.64	177.65	-278.81	-166.12	0.48	-0.45	-2.67	
7,054.00	4.47	308.38	7,040.39	181.07	-284.57	-169.30	1.47	0.72	17.96	
7,148.00	4.02	306.14	7,134.14	185.28	-290.10	-173.29	0.51	-0.48	-2.38	
7,242.00	4.46	304.77	7,227.88	189.31	-295.76	-177.08	0.48	0.47	-1.46	
7,336.00	4.39	304.86	7,321.60	193.45	-301.72	-180.97	0.07	-0.07	0.10	
7,430.00	4.28	299.76	7,415.33	197.25	-307.72	-184.52	0.43	-0.12	-5.43	
7,523.00	4.05	288.38	7,508.09	200.01	-313.85	-187.03	0.92	-0.25	-12.24	
7,617.00	3.73	289.34	7,601.87	202.07	-319.88	-188.84	0.35	-0.34	1.02	
7,710.00	4.98	293.67	7,694.60	204.69	-326.43	-191.19	1.39	1.34	4.66	
7,803.00	4.57	289.35	7,787.28	207.54	-333.63	-193.74	0.59	-0.44	-4.65	
7,897.00	4.10	288.41	7,881.01	209.84	-340.35	-195.77	0.51	-0.50	-1.00	
7,992.00	3.58	282.74	7,975.79	211.57	-346.46	-197.24	0.68	-0.55	-5.97	
8,086.00	3.29	281.15	8,069.63	212.74	-351.97	-198.19	0.32	-0.31	-1.69	
8,181.00	2.99	274.98	8,164.48	213.48	-357.11	-198.72	0.48	-0.32	-6.49	
8,276.00	2.66	271.89	8,259.37	213.77	-361.79	-198.82	0.38	-0.35	-3.25	
8,370.00	2.25	272.08	8,353.28	213.90	-365.81	-198.79	0.44	-0.44	0.20	
8,464.00	0.94	302.45	8,447.24	214.39	-368.30	-199.17	1.61	-1.39	32.31	
8,558.00	0.60	292.38	8,541.23	214.99	-369.41	-199.72	0.39	-0.36	-10.71	
8,652.00	0.68	190.13	8,635.23	214.62	-369.96	-199.34	1.06	0.09	-108.78	
8,745.00	1.41	183.53	8,728.22	212.94	-370.13	-197.65	0.79	0.78	-7.10	
8,840.00	1.50	176.43	8,823.18	210.53	-370.13	-195.24	0.21	0.09	-7.47	
8,934.00	1.49	173.52	8,917.15	208.09	-369.91	-192.81	0.08	-0.01	-3.10	
9,028.00	1.47	169.23	9,011.12	205.69	-369.55	-190.43	0.12	-0.02	-4.56	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well W1KN Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Site:	Kansas 21-28	MD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Well:	W1KN Fed Com #3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)	
9,099.00	1.46	170.14	9,082.10	203.90	-369.22	-188.66	0.04	-0.01	1.28	
9,141.00	1.43	175.42	9,124.08	202.86	-369.09	-187.62	0.32	-0.07	12.57	
9,235.00	7.20	178.41	9,217.78	195.79	-368.83	-180.57	6.14	6.14	3.18	
9,287.00	10.19	178.52	9,269.18	187.93	-368.62	-172.73	5.75	5.75	0.21	
9,328.00	12.69	177.36	9,309.36	179.81	-368.32	-164.62	6.12	6.10	-2.83	
9,374.00	16.23	172.98	9,353.89	168.38	-367.30	-153.24	8.05	7.70	-9.52	
9,421.00	19.49	174.05	9,398.62	154.06	-365.69	-139.00	6.97	6.94	2.28	
9,513.00	26.29	180.69	9,483.34	118.37	-364.34	-103.40	7.90	7.39	7.22	
9,558.00	31.53	186.85	9,522.73	96.70	-365.86	-81.69	13.38	11.64	13.69	
9,607.00	38.31	182.39	9,562.89	68.77	-368.03	-53.69	14.78	13.84	-9.10	
9,652.00	47.52	181.10	9,595.81	38.18	-368.93	-23.08	20.56	20.47	-2.87	
9,700.00	55.55	180.03	9,625.65	0.63	-369.28	14.45	16.82	16.73	-2.23	
9,794.00	67.25	179.28	9,670.57	-81.76	-368.76	96.74	12.47	12.45	-0.80	
9,814.00	72.17	178.67	9,677.50	-100.51	-368.42	115.47	24.77	24.60	-3.05	
9,880.00	79.31	177.36	9,693.75	-164.39	-366.19	179.21	10.99	10.82	-1.98	
9,974.00	82.89	177.37	9,708.29	-257.15	-361.92	271.71	3.81	3.81	0.01	
10,068.00	88.51	179.37	9,715.33	-350.80	-359.26	365.18	6.34	5.98	2.13	
10,162.00	88.93	179.19	9,717.43	-444.77	-358.08	459.02	0.49	0.45	-0.19	
10,256.00	87.20	178.03	9,720.61	-538.68	-355.81	552.76	2.22	-1.84	-1.23	
10,350.00	90.78	177.84	9,722.26	-632.59	-352.42	646.45	3.81	3.81	-0.20	
10,443.00	90.59	178.47	9,721.15	-725.54	-349.43	739.20	0.71	-0.20	0.68	
10,537.00	90.14	178.59	9,720.55	-819.50	-347.01	832.99	0.50	-0.48	0.13	
10,630.00	90.34	177.64	9,720.16	-912.45	-343.96	925.73	1.04	0.22	-1.02	
10,723.00	89.75	176.04	9,720.09	-1,005.31	-338.83	1,018.30	1.83	-0.63	-1.72	
10,817.00	88.51	176.90	9,721.52	-1,099.12	-333.04	1,111.80	1.61	-1.32	0.91	
10,910.00	87.50	177.92	9,724.76	-1,191.96	-328.84	1,204.39	1.54	-1.09	1.10	
11,004.00	91.21	182.99	9,725.81	-1,285.91	-329.59	1,298.29	6.68	3.95	5.39	
11,097.00	93.05	183.55	9,722.36	-1,378.69	-334.89	1,391.21	2.07	1.98	0.60	
11,190.00	92.86	183.41	9,717.56	-1,471.39	-340.53	1,484.07	0.25	-0.20	-0.15	
11,283.00	92.78	183.60	9,712.99	-1,564.10	-346.21	1,576.94	0.22	-0.09	0.20	
11,377.00	90.36	182.55	9,710.41	-1,657.93	-351.25	1,670.88	2.81	-2.57	-1.12	
11,471.00	89.76	182.19	9,710.31	-1,751.84	-355.13	1,764.88	0.74	-0.64	-0.38	
11,563.00	90.59	181.03	9,710.03	-1,843.81	-357.72	1,856.87	1.55	0.90	-1.26	
11,657.00	90.31	180.21	9,709.30	-1,937.80	-358.73	1,950.83	0.92	-0.30	-0.87	
11,750.00	90.00	179.75	9,709.04	-2,030.80	-358.70	2,043.75	0.60	-0.33	-0.49	
11,843.00	90.22	179.07	9,708.86	-2,123.79	-357.74	2,136.63	0.77	0.24	-0.73	
11,936.00	90.28	179.05	9,708.46	-2,216.78	-356.22	2,229.47	0.07	0.06	-0.02	
12,030.00	89.80	180.07	9,708.39	-2,310.77	-355.50	2,323.36	1.20	-0.51	1.09	
12,124.00	89.41	180.34	9,709.04	-2,404.77	-355.83	2,417.29	0.50	-0.41	0.29	
12,217.00	90.17	181.02	9,709.38	-2,497.76	-356.94	2,510.25	1.10	0.82	0.73	
12,312.00	89.86	181.54	9,709.36	-2,592.74	-359.06	2,605.23	0.64	-0.33	0.55	
12,405.00	89.89	181.67	9,709.56	-2,685.70	-361.66	2,698.23	0.14	0.03	0.14	
12,498.00	89.61	181.29	9,709.97	-2,778.67	-364.07	2,791.22	0.51	-0.30	-0.41	
12,591.00	89.08	178.90	9,711.03	-2,871.65	-364.22	2,884.13	2.63	-0.57	-2.57	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well W1KN Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Site:	Kansas 21-28	MD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Well:	W1KN Fed Com #3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)
12,685.00	89.19	176.73	9,712.45	-2,965.57	-360.64	2,977.82	2.31	0.12	-2.31
12,779.00	89.16	175.44	9,713.80	-3,059.34	-354.22	3,071.25	1.37	-0.03	-1.37
12,872.00	90.20	174.53	9,714.32	-3,151.98	-346.09	3,163.48	1.49	1.12	-0.98
12,966.00	89.24	172.93	9,714.78	-3,245.41	-335.82	3,256.42	1.98	-1.02	-1.70
13,060.00	89.36	171.73	9,715.93	-3,338.56	-323.28	3,348.98	1.28	0.13	-1.28
13,153.00	89.80	171.37	9,716.61	-3,430.55	-309.61	3,440.33	0.61	0.47	-0.39
13,200.00	90.42	172.46	9,716.52	-3,477.08	-303.00	3,486.55	2.67	1.32	2.32
13,247.00	91.32	173.81	9,715.81	-3,523.74	-297.39	3,532.94	3.45	1.91	2.87
13,340.00	91.54	176.77	9,713.49	-3,616.38	-289.75	3,625.20	3.19	0.24	3.18
13,433.00	92.75	180.19	9,710.00	-3,709.27	-287.29	3,717.91	3.90	1.30	3.68
13,526.00	92.66	183.05	9,705.61	-3,802.12	-289.91	3,810.79	3.07	-0.10	3.08
13,620.00	92.27	183.21	9,701.57	-3,895.89	-295.04	3,904.69	0.45	-0.41	0.17
13,714.00	91.60	183.09	9,698.40	-3,989.70	-300.20	3,998.63	0.72	-0.71	-0.13
13,808.00	91.63	183.16	9,695.75	-4,083.52	-305.33	4,092.58	0.08	0.03	0.07
13,901.00	91.12	182.69	9,693.52	-4,176.37	-310.07	4,185.55	0.75	-0.55	-0.51
13,995.00	90.90	182.95	9,691.86	-4,270.24	-314.69	4,279.53	0.36	-0.23	0.28
14,088.00	91.51	183.61	9,689.90	-4,363.07	-320.01	4,372.50	0.97	0.66	0.71
14,182.00	90.92	182.78	9,687.91	-4,456.90	-325.25	4,466.46	1.08	-0.63	-0.88
14,275.00	90.48	184.13	9,686.77	-4,549.72	-330.86	4,559.44	1.53	-0.47	1.45
14,369.00	89.22	182.30	9,687.02	-4,643.57	-336.13	4,653.42	2.36	-1.34	-1.95
14,463.00	89.75	182.10	9,687.87	-4,737.49	-339.74	4,747.42	0.60	0.56	-0.21
14,557.00	90.20	183.18	9,687.91	-4,831.39	-344.07	4,841.41	1.24	0.48	1.15
14,650.00	88.57	181.33	9,688.90	-4,924.31	-347.72	4,934.40	2.65	-1.75	-1.99
14,744.00	87.06	179.44	9,692.49	-5,018.23	-348.36	5,028.27	2.57	-1.61	-2.01
14,837.00	87.34	179.20	9,697.03	-5,111.11	-347.25	5,121.03	0.40	0.30	-0.26
14,930.00	87.56	179.68	9,701.17	-5,204.02	-346.35	5,213.82	0.57	0.24	0.52
15,022.00	88.23	179.57	9,704.55	-5,295.95	-345.74	5,305.65	0.74	0.73	-0.12
15,116.00	89.86	180.19	9,706.12	-5,389.93	-345.55	5,399.55	1.86	1.73	0.66
15,210.00	88.79	180.33	9,707.22	-5,483.93	-345.97	5,493.48	1.15	-1.14	0.15
15,303.00	89.33	179.96	9,708.75	-5,576.91	-346.21	5,586.40	0.70	0.58	-0.40
15,396.00	89.16	178.96	9,709.97	-5,669.90	-345.33	5,679.27	1.09	-0.18	-1.08
15,489.00	88.63	177.92	9,711.77	-5,762.85	-342.80	5,772.04	1.25	-0.57	-1.12
15,582.00	89.19	177.42	9,713.54	-5,855.75	-339.02	5,864.71	0.81	0.60	-0.54
15,675.00	89.78	176.69	9,714.37	-5,948.62	-334.24	5,957.31	1.01	0.63	-0.78
15,768.00	89.89	177.11	9,714.64	-6,041.49	-329.21	6,049.89	0.47	0.12	0.45
15,862.00	89.66	177.49	9,715.01	-6,135.38	-324.79	6,143.53	0.47	-0.24	0.40
15,954.00	90.14	177.80	9,715.17	-6,227.30	-321.01	6,235.22	0.62	0.52	0.34
16,048.00	89.78	177.48	9,715.24	-6,321.22	-317.14	6,328.90	0.51	-0.38	-0.34
16,141.00	89.55	176.85	9,715.78	-6,414.11	-312.54	6,421.52	0.72	-0.25	-0.68
16,234.00	90.67	178.22	9,715.60	-6,507.02	-308.54	6,514.19	1.90	1.20	1.47
16,327.00	89.47	178.61	9,715.49	-6,599.98	-305.96	6,606.97	1.36	-1.29	0.42
16,420.00	89.47	179.54	9,716.35	-6,692.96	-304.46	6,699.81	1.00	0.00	1.00
16,514.00	89.05	179.39	9,717.56	-6,786.95	-303.58	6,793.69	0.47	-0.45	-0.16

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well W1KN Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Site:	Kansas 21-28	MD Reference:	RKB=28' @ 3061.00usft (Pat. 244)
Well:	W1KN Fed Com #3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 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)	
16,609.00	91.79	181.23	9,716.87	-6,881.93	-304.10	6,888.61	3.47	2.88	1.94	
16,701.00	92.24	181.80	9,713.63	-6,973.84	-306.53	6,980.54	0.79	0.49	0.62	
16,794.00	92.86	181.73	9,709.49	-7,066.71	-309.39	7,073.45	0.67	0.67	-0.08	
16,888.00	93.42	181.89	9,704.34	-7,160.52	-312.36	7,167.30	0.62	0.60	0.17	
16,983.00	92.94	181.56	9,699.07	-7,255.33	-315.21	7,262.15	0.61	-0.51	-0.35	
17,077.00	93.28	182.33	9,693.97	-7,349.14	-318.40	7,356.01	0.89	0.36	0.82	
17,117.00	92.94	182.43	9,691.80	-7,389.04	-320.05	7,395.95	0.89	-0.85	0.25	
Last MWD Survey @ 17117'										
17,180.55	92.94	182.43	9,688.54	-7,452.45	-322.75	7,459.42	0.00	0.00	0.00	
W1KN #3H PBHL										
17,190.00	92.94	182.43	9,688.06	-7,461.88	-323.15	7,468.85	0.00	0.00	0.00	
PTB @ 17190'										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
195.00	195.00	0.04	-0.51	First MWD Survey	
17,117.00	9,691.80	-7,389.04	-320.05	Last MWD Survey @ 17117'	
17,190.00	9,688.06	-7,461.88	-323.15	PTB @ 17190'	

Checked By: _____	Approved By: _____	Date: _____
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