

30-015-41306

Mewbourne Oil Co

Eddy County, New Mexico (Nad 83)

Sec 30, T19S, R29E

Mirage 30 IL State Com #1H

Wellbore #1

Design: Wellbore #1

Survey Report - Geographic

13 June, 2014



DDC
Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mirage 30 IL State Com #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3329.0usft (Patterson-UT)
Site:	Sec 30,T19S, R29E	MD Reference:	WELL @ 3329.0usft (Patterson-UT)
Well:	Mirage 30 IL State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Project	Eddy County, New Mexico (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		Sec 30,T19S, R29E			
Site Position:		Northing:	591,334.50 usft	Latitude:	32° 37' 31.522 N
From:	Map	Easting:	611,308.60 usft	Longitude:	104° 6' 21.799 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.12 °

Well	Mirage 30 IL State Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	593,183.60 usft	Latitude:	32° 37' 49.820 N
	+E/-W	0.0 usft	Easting:	611,301.18 usft	Longitude:	104° 6' 21.840 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,309.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	5/31/2014	(°)	(°)	(nT)
			7.50	60.40	48,507

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	270.35	

Survey Program	Date	6/13/2014			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.0	7,120.0	Gyro Survey (Wellbore #1)	Good_gyro	Good Gyro	
7,163.0	12,010.0	MWD (Wellbore #1)	MWD default	MWD - Standard	

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Map	Map	Latitude	Longitude
Depth	(°)	(°)	Depth	(usft)	(usft)	Northing	Easting		
(usft)			(usft)			(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	593,183.60	611,301.18	32° 37' 49.820 N	104° 6' 21.840 W
100.0	0.48	149.71	100.0	-0.4	0.2	593,183.23	611,301.39	32° 37' 49.816 N	104° 6' 21.838 W
200.0	1.30	145.04	200.0	-1.7	1.1	593,181.94	611,302.25	32° 37' 49.804 N	104° 6' 21.827 W
300.0	1.78	175.63	300.0	-4.1	1.8	593,179.46	611,303.02	32° 37' 49.779 N	104° 6' 21.819 W
400.0	1.80	174.81	399.9	-7.2	2.1	593,176.35	611,303.28	32° 37' 49.748 N	104° 6' 21.816 W
500.0	1.75	173.30	499.9	-10.3	2.4	593,173.27	611,303.60	32° 37' 49.718 N	104° 6' 21.812 W
600.0	1.49	162.38	599.8	-13.1	3.0	593,170.51	611,304.17	32° 37' 49.691 N	104° 6' 21.805 W
700.0	1.38	143.85	699.8	-15.3	4.1	593,168.30	611,305.27	32° 37' 49.669 N	104° 6' 21.792 W
800.0	1.64	126.42	799.7	-17.1	6.0	593,166.48	611,307.14	32° 37' 49.651 N	104° 6' 21.771 W
900.0	1.73	115.49	899.7	-18.6	8.5	593,164.98	611,309.65	32° 37' 49.636 N	104° 6' 21.741 W
1,000.0	1.71	111.16	999.7	-19.8	11.2	593,163.79	611,312.40	32° 37' 49.624 N	104° 6' 21.709 W

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Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3329.0usft (Patterson-UTI)
Site:	Sec 30, T19S, R29E	MD Reference:	WELL @ 3329.0usft (Patterson-UTI)
Well:	Mirage 30 IL State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,100.0	1.28	112.42	1,099.6	-20.8	13.7	593,162.83	611,314.83	32° 37' 49.614 N	104° 6' 21.681 W
1,200.0	0.82	124.31	1,199.6	-21.6	15.3	593,162.00	611,316.45	32° 37' 49.606 N	104° 6' 21.662 W
1,300.0	0.52	159.47	1,299.6	-22.4	16.0	593,161.17	611,317.20	32° 37' 49.598 N	104° 6' 21.653 W
1,400.0	0.51	195.85	1,399.6	-23.3	16.1	593,160.32	611,317.24	32° 37' 49.589 N	104° 6' 21.653 W
1,500.0	0.54	213.65	1,499.6	-24.1	15.7	593,159.50	611,316.86	32° 37' 49.581 N	104° 6' 21.657 W
1,600.0	0.57	214.72	1,599.6	-24.9	15.1	593,158.70	611,316.31	32° 37' 49.573 N	104° 6' 21.664 W
1,700.0	0.59	217.25	1,699.6	-25.7	14.5	593,157.88	611,315.72	32° 37' 49.565 N	104° 6' 21.671 W
1,800.0	0.54	225.21	1,799.6	-26.5	13.9	593,157.14	611,315.07	32° 37' 49.558 N	104° 6' 21.678 W
1,900.0	0.45	225.42	1,899.6	-27.1	13.3	593,156.53	611,314.46	32° 37' 49.552 N	104° 6' 21.685 W
2,000.0	0.24	225.78	1,999.6	-27.5	12.9	593,156.11	611,314.03	32° 37' 49.548 N	104° 6' 21.690 W
2,100.0	0.23	226.17	2,099.6	-27.8	12.6	593,155.82	611,313.73	32° 37' 49.545 N	104° 6' 21.694 W
2,200.0	0.18	272.42	2,199.6	-27.9	12.3	593,155.69	611,313.43	32° 37' 49.544 N	104° 6' 21.697 W
2,300.0	0.19	287.75	2,299.6	-27.8	11.9	593,155.75	611,313.12	32° 37' 49.544 N	104° 6' 21.701 W
2,400.0	0.21	286.20	2,399.6	-27.7	11.6	593,155.85	611,312.78	32° 37' 49.545 N	104° 6' 21.705 W
2,500.0	0.27	303.44	2,499.6	-27.6	11.2	593,156.03	611,312.41	32° 37' 49.547 N	104° 6' 21.709 W
2,600.0	0.37	318.72	2,599.6	-27.2	10.8	593,156.40	611,312.00	32° 37' 49.551 N	104° 6' 21.714 W
2,700.0	0.34	336.48	2,699.6	-26.7	10.5	593,156.92	611,311.67	32° 37' 49.556 N	104° 6' 21.718 W
2,800.0	0.34	340.68	2,799.6	-26.1	10.3	593,157.47	611,311.45	32° 37' 49.561 N	104° 6' 21.721 W
2,900.0	0.37	352.05	2,899.6	-25.5	10.1	593,158.07	611,311.31	32° 37' 49.567 N	104° 6' 21.722 W
3,000.0	0.46	337.47	2,999.6	-24.8	9.9	593,158.76	611,311.11	32° 37' 49.574 N	104° 6' 21.724 W
3,100.0	0.62	328.81	3,099.6	-24.0	9.5	593,159.59	611,310.68	32° 37' 49.582 N	104° 6' 21.730 W
3,200.0	0.62	336.42	3,199.6	-23.0	9.0	593,160.55	611,310.18	32° 37' 49.592 N	104° 6' 21.735 W
3,300.0	0.62	336.14	3,299.5	-22.1	8.6	593,161.54	611,309.74	32° 37' 49.602 N	104° 6' 21.740 W
3,400.0	0.77	335.28	3,399.5	-20.9	8.1	593,162.65	611,309.24	32° 37' 49.613 N	104° 6' 21.746 W
3,500.0	1.02	332.27	3,499.5	-19.5	7.4	593,164.05	611,308.55	32° 37' 49.626 N	104° 6' 21.754 W
3,600.0	1.39	306.54	3,599.5	-18.0	6.0	593,165.56	611,307.16	32° 37' 49.641 N	104° 6' 21.770 W
3,700.0	2.16	293.63	3,699.5	-16.6	3.3	593,167.03	611,304.46	32° 37' 49.656 N	104° 6' 21.802 W
3,800.0	2.53	292.72	3,799.4	-15.0	-0.5	593,168.64	611,300.70	32° 37' 49.672 N	104° 6' 21.846 W
3,900.0	2.74	290.78	3,899.3	-13.3	-4.8	593,170.34	611,296.43	32° 37' 49.689 N	104° 6' 21.896 W
4,000.0	3.21	291.47	3,999.1	-11.4	-9.6	593,172.21	611,291.59	32° 37' 49.708 N	104° 6' 21.952 W
4,100.0	3.25	291.36	4,099.0	-9.3	-14.8	593,174.27	611,286.34	32° 37' 49.728 N	104° 6' 22.014 W
4,200.0	3.36	291.88	4,198.8	-7.2	-20.2	593,176.40	611,280.98	32° 37' 49.749 N	104° 6' 22.076 W
4,300.0	3.29	290.80	4,298.6	-5.1	-25.6	593,178.51	611,275.58	32° 37' 49.770 N	104° 6' 22.139 W
4,400.0	3.09	290.24	4,398.5	-3.1	-30.8	593,180.46	611,270.37	32° 37' 49.790 N	104° 6' 22.200 W
4,500.0	2.86	293.22	4,498.3	-1.2	-35.6	593,182.37	611,265.55	32° 37' 49.809 N	104° 6' 22.257 W
4,600.0	2.15	293.16	4,598.3	0.5	-39.6	593,184.10	611,261.53	32° 37' 49.826 N	104° 6' 22.304 W
4,700.0	1.97	298.59	4,698.2	2.1	-42.9	593,185.66	611,258.30	32° 37' 49.841 N	104° 6' 22.341 W
4,800.0	2.10	317.14	4,798.1	4.2	-45.6	593,187.82	611,255.54	32° 37' 49.863 N	104° 6' 22.374 W
4,900.0	2.12	326.44	4,898.1	7.1	-47.9	593,190.71	611,253.27	32° 37' 49.891 N	104° 6' 22.400 W
5,000.0	2.08	327.27	4,998.0	10.2	-49.9	593,193.77	611,251.27	32° 37' 49.922 N	104° 6' 22.423 W
5,100.0	2.13	328.56	5,097.9	13.3	-51.9	593,196.89	611,249.32	32° 37' 49.953 N	104° 6' 22.446 W
5,200.0	2.20	333.82	5,197.9	16.6	-53.7	593,200.19	611,247.50	32° 37' 49.985 N	104° 6' 22.467 W
5,300.0	2.19	337.09	5,297.8	20.1	-55.3	593,203.68	611,245.91	32° 37' 50.020 N	104° 6' 22.486 W
5,400.0	2.63	339.86	5,397.7	24.0	-56.8	593,207.59	611,244.38	32° 37' 50.059 N	104° 6' 22.504 W
5,500.0	3.08	342.70	5,497.6	28.7	-58.4	593,212.31	611,242.79	32° 37' 50.105 N	104° 6' 22.522 W
5,600.0	3.35	348.84	5,597.4	34.1	-59.8	593,217.74	611,241.42	32° 37' 50.159 N	104° 6' 22.538 W
5,700.0	3.72	356.29	5,697.2	40.2	-60.5	593,223.85	611,240.65	32° 37' 50.220 N	104° 6' 22.547 W
5,800.0	3.99	356.89	5,797.0	47.0	-60.9	593,230.56	611,240.25	32° 37' 50.286 N	104° 6' 22.551 W
5,900.0	4.10	357.31	5,896.7	54.0	-61.3	593,237.60	611,239.89	32° 37' 50.356 N	104° 6' 22.555 W
6,000.0	4.11	356.80	5,996.5	61.2	-61.7	593,244.75	611,239.53	32° 37' 50.426 N	104° 6' 22.559 W
6,100.0	4.06	357.77	6,096.2	68.3	-62.0	593,251.87	611,239.19	32° 37' 50.497 N	104° 6' 22.563 W
6,200.0	3.63	357.82	6,196.0	75.0	-62.2	593,258.57	611,238.93	32° 37' 50.563 N	104° 6' 22.566 W
6,300.0	3.15	358.93	6,295.8	80.9	-62.4	593,264.48	611,238.76	32° 37' 50.622 N	104° 6' 22.568 W
6,400.0	2.82	2.78	6,395.7	86.1	-62.4	593,269.68	611,238.83	32° 37' 50.673 N	104° 6' 22.567 W
6,500.0	2.70	11.94	6,495.6	90.8	-61.7	593,274.44	611,239.43	32° 37' 50.720 N	104° 6' 22.560 W

DDC

Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mirage 30 IL State Com #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3329.0usft (Patterson-UTI)
Site:	Sec 30,T19S, R29E	MD Reference:	WELL @ 3329.0usft (Patterson-UTI)
Well:	Mirage 30 IL State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,600.0	1.75	8.32	6,595.5	94.7	-61.0	593,278.26	611,240.14	32° 37' 50.758 N	104° 6' 22.551 W
6,700.0	2.07	26.61	6,695.4	97.8	-60.0	593,281.38	611,241.17	32° 37' 50.789 N	104° 6' 22.539 W
6,800.0	1.96	38.95	6,795.4	100.7	-58.1	593,284.33	611,243.05	32° 37' 50.818 N	104° 6' 22.517 W
6,900.0	1.83	40.88	6,895.3	103.3	-56.0	593,286.86	611,245.17	32° 37' 50.843 N	104° 6' 22.492 W
7,000.0	2.09	47.46	6,995.3	105.7	-53.6	593,289.31	611,247.56	32° 37' 50.867 N	104° 6' 22.464 W
7,100.0	0.97	75.92	7,095.2	107.1	-51.4	593,290.74	611,249.73	32° 37' 50.881 N	104° 6' 22.439 W
7,120.0	0.77	67.15	7,115.2	107.2	-51.2	593,290.84	611,250.02	32° 37' 50.882 N	104° 6' 22.436 W
Tie In @ 7120' MD / 7115' TVD									
7,163.0	0.40	97.90	7,158.2	107.3	-50.7	593,290.93	611,250.43	32° 37' 50.883 N	104° 6' 22.431 W
7,195.0	1.40	272.80	7,190.2	107.3	-51.0	593,290.93	611,250.15	32° 37' 50.883 N	104° 6' 22.434 W
7,226.0	2.80	275.10	7,221.2	107.4	-52.2	593,291.02	611,249.02	32° 37' 50.884 N	104° 6' 22.447 W
7,258.0	5.70	281.40	7,253.1	107.8	-54.5	593,291.40	611,246.68	32° 37' 50.888 N	104° 6' 22.475 W
7,290.0	9.10	279.70	7,284.8	108.5	-58.5	593,292.14	611,242.63	32° 37' 50.895 N	104° 6' 22.522 W
7,321.0	11.80	276.30	7,315.3	109.3	-64.1	593,292.90	611,237.06	32° 37' 50.903 N	104° 6' 22.587 W
7,353.0	14.90	276.00	7,346.5	110.1	-71.5	593,293.69	611,229.71	32° 37' 50.911 N	104° 6' 22.673 W
7,385.0	18.00	275.60	7,377.1	111.0	-80.5	593,294.61	611,220.70	32° 37' 50.920 N	104° 6' 22.778 W
7,415.0	21.10	276.10	7,405.4	112.0	-90.5	593,295.63	611,210.71	32° 37' 50.931 N	104° 6' 22.895 W
7,447.0	23.60	274.40	7,435.0	113.1	-102.6	593,296.74	611,198.60	32° 37' 50.942 N	104° 6' 23.037 W
7,479.0	26.60	269.60	7,464.0	113.6	-116.1	593,297.18	611,185.04	32° 37' 50.946 N	104° 6' 23.195 W
7,510.0	29.40	268.20	7,491.4	113.3	-130.7	593,296.89	611,170.50	32° 37' 50.944 N	104° 6' 23.365 W
7,542.0	31.70	270.00	7,518.9	113.0	-146.9	593,296.64	611,154.23	32° 37' 50.942 N	104° 6' 23.556 W
7,573.0	34.90	271.40	7,544.8	113.3	-164.0	593,296.86	611,137.22	32° 37' 50.944 N	104° 6' 23.754 W
7,603.0	38.09	271.40	7,568.9	113.7	-181.8	593,297.30	611,119.38	32° 37' 50.949 N	104° 6' 23.963 W
Crossed 330' Hard Line @ 7603' MD / 7569' TVD									
7,605.0	38.30	271.40	7,570.5	113.7	-183.0	593,297.33	611,118.15	32° 37' 50.949 N	104° 6' 23.977 W
7,637.0	41.50	270.00	7,595.1	114.0	-203.5	593,297.57	611,097.63	32° 37' 50.952 N	104° 6' 24.217 W
7,668.0	44.50	267.20	7,617.7	113.4	-224.7	593,297.04	611,076.50	32° 37' 50.947 N	104° 6' 24.465 W
7,700.0	47.30	267.00	7,640.0	112.3	-247.6	593,295.87	611,053.55	32° 37' 50.936 N	104° 6' 24.733 W
7,732.0	50.50	267.40	7,661.0	111.1	-271.7	593,294.70	611,029.47	32° 37' 50.925 N	104° 6' 25.015 W
7,764.0	53.50	269.30	7,680.7	110.4	-296.9	593,293.98	611,004.27	32° 37' 50.919 N	104° 6' 25.309 W
7,795.0	57.10	269.60	7,698.4	110.1	-322.4	593,293.74	610,978.79	32° 37' 50.917 N	104° 6' 25.607 W
7,826.0	61.00	270.90	7,714.3	110.3	-349.0	593,293.86	610,952.21	32° 37' 50.918 N	104° 6' 25.918 W
7,858.0	65.90	271.40	7,728.6	110.8	-377.6	593,294.44	610,923.60	32° 37' 50.925 N	104° 6' 26.253 W
7,890.0	71.70	271.40	7,740.2	111.6	-407.4	593,295.17	610,893.78	32° 37' 50.933 N	104° 6' 26.601 W
7,921.0	76.80	271.00	7,748.6	112.2	-437.2	593,295.79	610,863.96	32° 37' 50.939 N	104° 6' 26.950 W
7,953.0	81.90	271.60	7,754.5	112.9	-468.6	593,296.50	610,832.53	32° 37' 50.947 N	104° 6' 27.318 W
8,025.0	90.90	271.90	7,759.0	115.1	-540.4	593,298.70	610,760.78	32° 37' 50.970 N	104° 6' 28.157 W
8,056.0	91.60	272.50	7,758.3	116.3	-571.4	593,299.89	610,729.81	32° 37' 50.983 N	104° 6' 28.519 W
8,088.0	91.40	272.30	7,757.5	117.6	-603.3	593,301.23	610,697.85	32° 37' 50.997 N	104° 6' 28.892 W
8,120.0	91.40	272.60	7,756.7	119.0	-635.3	593,302.59	610,665.89	32° 37' 51.011 N	104° 6' 29.266 W
8,151.0	92.10	271.60	7,755.8	120.1	-666.2	593,303.73	610,634.93	32° 37' 51.023 N	104° 6' 29.628 W
8,183.0	92.50	270.40	7,754.5	120.7	-698.2	593,304.29	610,602.96	32° 37' 51.029 N	104° 6' 30.002 W
8,215.0	92.80	270.40	7,753.0	120.9	-730.2	593,304.51	610,570.99	32° 37' 51.032 N	104° 6' 30.376 W
8,246.0	93.00	269.80	7,751.4	121.0	-761.1	593,304.56	610,540.03	32° 37' 51.033 N	104° 6' 30.738 W
8,278.0	93.30	269.10	7,749.7	120.7	-793.1	593,304.26	610,508.08	32° 37' 51.031 N	104° 6' 31.111 W
8,310.0	91.60	268.60	7,748.3	120.0	-825.1	593,303.62	610,476.12	32° 37' 51.025 N	104° 6' 31.485 W
8,341.0	90.90	267.70	7,747.6	119.0	-856.0	593,302.62	610,445.14	32° 37' 51.016 N	104° 6' 31.847 W
8,373.0	91.30	266.80	7,747.0	117.5	-888.0	593,301.08	610,413.19	32° 37' 51.001 N	104° 6' 32.221 W
8,405.0	91.70	266.30	7,746.2	115.6	-919.9	593,299.16	610,381.26	32° 37' 50.983 N	104° 6' 32.595 W
8,436.0	91.60	265.10	7,745.3	113.2	-950.8	593,296.83	610,350.36	32° 37' 50.960 N	104° 6' 32.956 W
8,468.0	91.50	264.20	7,744.4	110.3	-982.7	593,293.85	610,318.51	32° 37' 50.932 N	104° 6' 33.329 W
8,499.0	91.70	264.20	7,743.6	107.1	-1,013.5	593,290.72	610,287.68	32° 37' 50.901 N	104° 6' 33.689 W
8,531.0	91.10	266.30	7,742.8	104.5	-1,045.4	593,288.07	610,255.80	32° 37' 50.876 N	104° 6' 34.062 W
8,563.0	91.00	266.70	7,742.2	102.5	-1,077.3	593,286.12	610,223.87	32° 37' 50.857 N	104° 6' 34.436 W
8,594.0	91.00	266.10	7,741.7	100.6	-1,108.2	593,284.17	610,192.93	32° 37' 50.838 N	104° 6' 34.797 W

DDC
Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mirage 30 IL State Com #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3329.0usft (Patterson-UT)
Site:	Sec 30,T19S, R29E	MD Reference:	WELL @ 3329.0usft (Patterson-UT)
Well:	Mirage 30 IL State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,626.0	90.80	266.30	7,741.2	98.5	-1,140.2	593,282.05	610,161.01	32° 37' 50.818 N	104° 6' 35.171 W
8,657.0	90.70	266.30	7,740.7	96.5	-1,171.1	593,280.05	610,130.07	32° 37' 50.799 N	104° 6' 35.532 W
8,689.0	90.70	266.10	7,740.4	94.3	-1,203.0	593,277.93	610,098.15	32° 37' 50.779 N	104° 6' 35.906 W
8,720.0	92.00	266.70	7,739.6	92.4	-1,234.0	593,275.98	610,067.22	32° 37' 50.760 N	104° 6' 36.268 W
8,752.0	91.50	266.50	7,738.6	90.5	-1,265.9	593,274.09	610,035.29	32° 37' 50.742 N	104° 6' 36.641 W
8,815.0	91.40	265.30	7,737.1	86.0	-1,328.7	593,269.58	609,972.47	32° 37' 50.699 N	104° 6' 37.376 W
8,878.0	91.50	265.80	7,735.5	81.1	-1,391.5	593,264.70	609,909.68	32° 37' 50.652 N	104° 6' 38.110 W
8,941.0	92.20	266.00	7,733.4	76.6	-1,454.3	593,260.19	609,846.88	32° 37' 50.608 N	104° 6' 38.845 W
9,005.0	91.50	264.50	7,731.4	71.3	-1,518.0	593,254.90	609,783.13	32° 37' 50.557 N	104° 6' 39.590 W
9,068.0	90.80	264.40	7,730.1	65.2	-1,580.7	593,248.81	609,720.44	32° 37' 50.498 N	104° 6' 40.324 W
9,131.0	90.50	264.00	7,729.4	58.8	-1,643.4	593,242.44	609,657.77	32° 37' 50.437 N	104° 6' 41.057 W
9,194.0	91.30	264.00	7,728.4	52.3	-1,706.1	593,235.85	609,595.12	32° 37' 50.373 N	104° 6' 41.789 W
9,257.0	92.20	265.30	7,726.5	46.4	-1,768.8	593,229.98	609,532.42	32° 37' 50.316 N	104° 6' 42.523 W
9,320.0	92.90	263.70	7,723.7	40.4	-1,831.4	593,223.95	609,469.78	32° 37' 50.258 N	104° 6' 43.255 W
9,384.0	92.40	264.50	7,720.7	33.8	-1,895.0	593,217.38	609,406.19	32° 37' 50.194 N	104° 6' 43.999 W
9,447.0	92.30	266.10	7,718.1	28.6	-1,957.7	593,212.22	609,343.45	32° 37' 50.144 N	104° 6' 44.733 W
9,479.0	92.40	264.90	7,716.8	26.1	-1,989.6	593,209.71	609,311.58	32° 37' 50.120 N	104° 6' 45.106 W
9,510.0	92.80	264.50	7,715.4	23.3	-2,020.4	593,206.85	609,280.74	32° 37' 50.092 N	104° 6' 45.466 W
9,542.0	91.80	264.00	7,714.1	20.1	-2,052.2	593,203.65	609,248.93	32° 37' 50.061 N	104° 6' 45.838 W
9,573.0	90.40	265.40	7,713.5	17.2	-2,083.1	593,200.79	609,218.07	32° 37' 50.034 N	104° 6' 46.199 W
9,605.0	90.80	266.50	7,713.2	14.9	-2,115.0	593,198.53	609,186.15	32° 37' 50.012 N	104° 6' 46.573 W
9,668.0	91.60	266.50	7,711.9	11.1	-2,177.9	593,194.68	609,123.29	32° 37' 49.975 N	104° 6' 47.308 W
9,731.0	91.70	266.30	7,710.1	7.1	-2,240.7	593,190.73	609,060.44	32° 37' 49.937 N	104° 6' 48.043 W
9,794.0	89.90	267.90	7,709.2	3.9	-2,303.6	593,187.54	608,997.53	32° 37' 49.907 N	104° 6' 48.779 W
9,858.0	90.50	266.70	7,709.0	0.9	-2,367.6	593,184.53	608,933.60	32° 37' 49.878 N	104° 6' 49.526 W
9,921.0	91.80	267.50	7,707.7	-2.3	-2,430.5	593,181.34	608,870.70	32° 37' 49.848 N	104° 6' 50.262 W
9,984.0	92.20	268.80	7,705.5	-4.3	-2,493.4	593,179.31	608,807.77	32° 37' 49.829 N	104° 6' 50.998 W
10,047.0	91.70	270.50	7,703.3	-4.7	-2,556.4	593,178.92	608,744.81	32° 37' 49.827 N	104° 6' 51.734 W
10,110.0	91.40	270.50	7,701.6	-4.1	-2,619.3	593,179.47	608,681.83	32° 37' 49.834 N	104° 6' 52.471 W
10,142.0	89.80	270.90	7,701.3	-3.7	-2,651.3	593,179.86	608,649.84	32° 37' 49.838 N	104° 6' 52.845 W
10,205.0	89.90	269.80	7,701.5	-3.3	-2,714.3	593,180.25	608,586.84	32° 37' 49.843 N	104° 6' 53.582 W
10,268.0	90.70	270.00	7,701.1	-3.5	-2,777.3	593,180.14	608,523.84	32° 37' 49.843 N	104° 6' 54.318 W
10,331.0	92.20	270.00	7,699.5	-3.5	-2,840.3	593,180.14	608,460.86	32° 37' 49.845 N	104° 6' 55.055 W
10,426.0	90.80	270.20	7,697.1	-3.3	-2,935.3	593,180.30	608,365.90	32° 37' 49.848 N	104° 6' 56.165 W
10,489.0	91.80	268.60	7,695.6	-4.0	-2,998.3	593,179.64	608,302.92	32° 37' 49.843 N	104° 6' 56.902 W
10,553.0	91.70	269.60	7,693.7	-5.0	-3,062.2	593,178.64	608,238.96	32° 37' 49.834 N	104° 6' 57.650 W
10,616.0	92.20	269.30	7,691.5	-5.6	-3,125.2	593,178.04	608,176.00	32° 37' 49.830 N	104° 6' 58.386 W
10,679.0	92.20	270.00	7,689.1	-5.9	-3,188.1	593,177.65	608,113.05	32° 37' 49.827 N	104° 6' 59.122 W
10,742.0	90.80	270.90	7,687.5	-5.4	-3,251.1	593,178.15	608,050.07	32° 37' 49.833 N	104° 6' 59.859 W
10,806.0	91.40	270.50	7,686.2	-4.7	-3,315.1	593,178.93	607,986.09	32° 37' 49.842 N	104° 7' 0.607 W
10,869.0	91.20	270.20	7,684.8	-4.3	-3,378.1	593,179.31	607,923.11	32° 37' 49.847 N	104° 7' 1.343 W
10,932.0	90.80	270.00	7,683.7	-4.2	-3,441.1	593,179.42	607,860.12	32° 37' 49.850 N	104° 7' 2.080 W
10,996.0	90.60	269.80	7,682.9	-4.3	-3,505.1	593,179.31	607,796.12	32° 37' 49.850 N	104° 7' 2.828 W
11,059.0	90.40	268.80	7,682.4	-5.1	-3,568.0	593,178.54	607,733.13	32° 37' 49.844 N	104° 7' 3.565 W
11,122.0	90.30	267.70	7,682.0	-7.0	-3,631.0	593,176.62	607,670.16	32° 37' 49.826 N	104° 7' 4.301 W
11,185.0	91.00	268.10	7,681.3	-9.3	-3,694.0	593,174.31	607,607.21	32° 37' 49.804 N	104° 7' 5.037 W
11,248.0	92.40	267.00	7,679.4	-12.0	-3,756.9	593,171.62	607,544.30	32° 37' 49.779 N	104° 7' 5.773 W
11,311.0	93.90	266.50	7,675.9	-15.5	-3,819.7	593,168.05	607,481.50	32° 37' 49.745 N	104° 7' 6.508 W
11,375.0	93.30	266.30	7,671.9	-19.6	-3,883.4	593,164.04	607,417.75	32° 37' 49.706 N	104° 7' 7.253 W
11,438.0	91.10	267.00	7,669.5	-23.2	-3,946.3	593,160.36	607,354.91	32° 37' 49.671 N	104° 7' 7.988 W
11,501.0	89.60	267.00	7,669.1	-26.5	-4,009.2	593,157.06	607,292.00	32° 37' 49.640 N	104° 7' 8.724 W
11,564.0	89.30	267.50	7,669.7	-29.6	-4,072.1	593,154.04	607,229.07	32° 37' 49.611 N	104° 7' 9.460 W
11,628.0	91.00	267.00	7,669.6	-32.6	-4,136.0	593,150.97	607,165.15	32° 37' 49.582 N	104° 7' 10.207 W
11,691.0	91.30	267.20	7,668.3	-35.8	-4,198.9	593,147.79	607,102.24	32° 37' 49.552 N	104° 7' 10.943 W
11,754.0	92.20	266.80	7,666.4	-39.1	-4,261.8	593,144.49	607,039.36	32° 37' 49.520 N	104° 7' 11.679 W

DDC
Survey Report - Geographic



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Mirage 30 IL State Com #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3329.0usft (Patterson-UTI)
Site:	Sec 30,T19S, R29E	MD Reference:	WELL @ 3329.0usft (Patterson-UTI)
Well:	Mirage 30 IL State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,817.0	93.30	266.00	7,663.3	-43.1	-4,324.6	593,140.54	606,976.56	32° 37' 49.483 N	104° 7' 12.413 W
11,881.0	94.20	265.80	7,659.2	-47.6	-4,388.3	593,135.97	606,912.86	32° 37' 49.439 N	104° 7' 13.158 W
11,956.0	94.20	265.80	7,653.7	-53.1	-4,462.9	593,130.49	606,838.26	32° 37' 49.386 N	104° 7' 14.031 W
12,010.0	94.20	265.80	7,649.7	-57.0	-4,516.6	593,126.55	606,784.55	32° 37' 49.348 N	104° 7' 14.659 W
TD @ 12010' MD / 7650' TVD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,120.0	7,115.2	107.2	-51.2	Tie In @ 7120' MD / 7115' TVD
7,603.0	7,568.9	113.7	-181.8	Crossed 330' Hard Line @ 7603' MD / 7569' TVD
12,010.0	7,649.7	-57.0	-4,516.6	TD @ 12010' MD / 7650' TVD

Checked By: _____	Approved By: _____	Date: _____
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