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NM OIL CONSERVATION
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Mewbourne Oil Company .

Eddy County, New Mexico

Section 11/14-26S-28E Delaware Ranch 14 B2CN Fee 2

Delaware Ranch 14 B2CN Fee #2H

Original Hole

Design: Original Hole

Standard Survey Report

09 February, 2015

Provide signature page for Survey





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 14 B2CN Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	2969 + 20 @ 2989.0usft (Patterson 36)
Site:	Section 11/14-26S-28E Delaware Ranch 14 B2CN Fee 2	MD Reference:	2969 + 20 @ 2989.0usft (Patterson 36)
Well:	Delaware Ranch 14 B2CN Fee #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

Project	Eddy County, New Mexico		
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 11/14-26S-28E Delaware Ranch 14 B2CN Fee 2		
Site Position:		Northing:	382,274.90 usft
From:	Map	Easting:	584,805.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 2.495 N
		Longitude:	104° 3' 34.606 W
		Grid Convergence:	0.15 °

Well	Delaware Ranch 14 B2CN Fee #2H		
Well Position	+N/-S	0.0 usft	Northing: 382,274.90 usft
	+E/-W	0.0 usft	Easting: 584,805.30 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 3' 2.495 N
		Longitude:	104° 3' 34.606 W
		Ground Level:	2,969.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/7/2015	7.43	59.85	48,035

Design	Original Hole		
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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	179.66

Survey Program	Date 2/9/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	7,550.0	MD Gyro Survey (Original Hole)	GyroFlex
7,615.0	13,350.0	MWD Survey #2 (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	0.63	260.04	100.0	-0.1	-0.5	0.1	0.63	0.63	0.00
200.0	0.41	252.96	200.0	-0.3	-1.4	0.3	0.23	-0.22	-7.08
300.0	1.23	305.00	300.0	0.2	-2.6	-0.2	1.03	0.82	52.04
400.0	1.62	310.22	400.0	1.7	-4.6	-1.8	0.41	0.39	5.22
500.0	1.31	314.56	499.9	3.5	-6.5	-3.5	0.33	-0.31	4.34
600.0	1.51	325.14	599.9	5.3	-8.1	-5.4	0.33	0.20	10.58
700.0	1.28	316.58	699.9	7.2	-9.6	-7.3	0.31	-0.23	-8.56
800.0	0.89	307.69	799.8	8.5	-11.0	-8.6	0.42	-0.39	-8.89



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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	1.13	299.81	899.8	9.5	-12.4	-9.6	0.28	0.24	-7.88
1,000.0	1.49	206.87	999.8	8.8	-13.9	-8.9	1.92	0.36	-92.94
1,100.0	1.16	92.22	1,099.8	7.6	-13.5	-7.7	2.24	-0.33	-114.65
1,200.0	1.18	346.00	1,199.8	8.6	-12.7	-8.7	1.87	0.02	-106.22
1,300.0	1.25	246.12	1,299.8	9.1	-13.9	-9.2	1.86	0.07	-99.88
1,400.0	1.18	134.83	1,399.8	8.0	-14.2	-8.1	2.01	-0.07	-111.29
1,500.0	0.88	4.77	1,499.7	8.0	-13.4	-8.1	1.87	-0.30	-130.06
1,600.0	1.58	238.67	1,599.7	8.1	-14.5	-8.1	2.22	0.70	-126.10
1,700.0	0.95	131.02	1,699.7	6.8	-15.1	-6.9	2.08	-0.63	-107.65
1,800.0	1.31	33.54	1,799.7	7.2	-13.8	-7.3	1.72	0.36	-97.48
1,900.0	0.45	294.53	1,899.7	8.3	-13.6	-8.4	1.45	-0.86	-99.01
2,000.0	0.44	92.49	1,999.7	8.5	-13.5	-8.5	0.87	-0.01	157.96
2,100.0	0.74	316.60	2,099.7	8.9	-13.6	-9.0	1.10	0.30	-135.89
2,200.0	0.79	137.97	2,199.7	8.9	-13.6	-9.0	1.53	0.05	-178.63
2,300.0	1.66	108.93	2,299.7	7.9	-11.7	-8.0	1.04	0.87	-29.04
2,400.0	1.76	101.70	2,399.6	7.1	-8.9	-7.2	0.24	0.10	-7.23
2,500.0	0.69	55.99	2,499.6	7.1	-6.9	-7.2	1.37	-1.07	-45.71
2,600.0	0.74	347.97	2,599.6	8.1	-6.5	-8.1	0.80	0.05	-68.02
2,700.0	0.85	340.19	2,699.6	9.4	-6.9	-9.5	0.15	0.11	-7.78
2,800.0	0.92	317.27	2,799.6	10.7	-7.7	-10.8	0.36	0.07	-22.92
2,900.0	0.87	303.10	2,899.6	11.7	-8.9	-11.8	0.23	-0.05	-14.17
3,000.0	0.79	295.47	2,999.6	12.4	-10.1	-12.5	0.14	-0.08	-7.63
3,100.0	0.75	292.49	3,099.5	13.0	-11.3	-13.1	0.06	-0.04	-2.98
3,200.0	0.83	297.47	3,199.5	13.6	-12.6	-13.6	0.11	0.08	4.98
3,300.0	0.98	304.04	3,299.5	14.4	-13.9	-14.5	0.18	0.15	6.57
3,400.0	1.19	318.08	3,399.5	15.6	-15.3	-15.7	0.34	0.21	14.04
3,500.0	1.15	304.93	3,499.5	17.0	-16.9	-17.1	0.27	-0.04	-13.15
3,600.0	0.76	290.94	3,599.5	17.8	-18.3	-17.9	0.45	-0.39	-13.99
3,700.0	0.72	295.23	3,699.5	18.3	-19.5	-18.4	0.07	-0.04	4.29
3,800.0	0.78	319.21	3,799.5	19.1	-20.5	-19.2	0.32	0.06	23.98
3,900.0	0.89	323.33	3,899.4	20.2	-21.4	-20.3	0.13	0.11	4.12
4,000.0	0.77	315.73	3,999.4	21.3	-22.3	-21.5	0.16	-0.12	-7.60
4,100.0	1.12	329.09	4,099.4	22.6	-23.3	-22.8	0.41	0.35	13.36
4,200.0	1.51	311.69	4,199.4	24.4	-24.8	-24.5	0.55	0.39	-17.40
4,300.0	1.00	295.82	4,299.4	25.6	-26.6	-25.8	0.61	-0.51	-15.87
4,400.0	1.05	296.31	4,399.4	26.4	-28.2	-26.6	0.05	0.05	0.49
4,500.0	1.09	296.64	4,499.3	27.2	-29.8	-27.4	0.04	0.04	0.33
4,600.0	1.15	299.30	4,599.3	28.1	-31.6	-28.3	0.08	0.06	2.66
4,700.0	1.26	308.21	4,699.3	29.3	-33.3	-29.5	0.22	0.11	8.91
4,800.0	1.23	313.06	4,799.3	30.7	-35.0	-30.9	0.11	-0.03	4.85
4,900.0	1.52	318.63	4,899.2	32.5	-36.6	-32.7	0.32	0.29	5.57
5,000.0	1.34	308.41	4,999.2	34.2	-38.4	-34.4	0.31	-0.18	-10.22



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Well:	Delaware Ranch 14 B2CN Fee #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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	1.81	318.43	5,099.2	36.1	-40.4	-36.3	0.54	0.47	10.02
5,200.0	1.68	323.56	5,199.1	38.5	-42.3	-38.7	0.20	-0.13	5.13
5,300.0	1.56	323.28	5,299.1	40.7	-44.0	-41.0	0.12	-0.12	-0.28
5,400.0	1.41	319.03	5,399.1	42.7	-45.6	-43.0	0.19	-0.15	-4.25
5,500.0	1.34	317.85	5,499.0	44.5	-47.2	-44.8	0.08	-0.07	-1.18
5,600.0	1.13	304.74	5,599.0	46.0	-48.8	-46.3	0.35	-0.21	-13.11
5,700.0	1.18	304.57	5,699.0	47.1	-50.4	-47.4	0.05	0.05	-0.17
5,800.0	1.29	292.85	5,799.0	48.1	-52.3	-48.4	0.27	0.11	-11.72
5,900.0	1.17	303.95	5,898.9	49.1	-54.2	-49.5	0.27	-0.12	11.10
6,000.0	1.12	307.43	5,998.9	50.3	-55.8	-50.6	0.09	-0.05	3.48
6,100.0	1.04	290.31	6,098.9	51.2	-57.5	-51.6	0.33	-0.08	-17.12
6,200.0	1.21	265.15	6,198.9	51.4	-59.4	-51.8	0.52	0.17	-25.16
6,300.0	1.74	255.32	6,298.8	51.0	-61.9	-51.3	0.59	0.53	-9.83
6,400.0	1.96	258.21	6,398.8	50.2	-65.0	-50.6	0.24	0.22	2.89
6,500.0	1.94	257.77	6,498.7	49.5	-68.4	-49.9	0.02	-0.02	-0.44
6,600.0	1.57	270.11	6,598.7	49.2	-71.4	-49.6	0.53	-0.37	12.34
6,700.0	1.73	280.54	6,698.6	49.4	-74.2	-49.9	0.34	0.16	10.43
6,800.0	2.34	277.93	6,798.6	50.0	-77.7	-50.5	0.62	0.61	-2.61
6,900.0	2.30	262.24	6,898.5	50.0	-81.8	-50.5	0.63	-0.04	-15.69
7,000.0	2.13	256.27	6,998.4	49.3	-85.5	-49.8	0.29	-0.17	-5.97
7,100.0	2.47	267.72	7,098.3	48.8	-89.5	-49.3	0.57	0.34	11.45
7,200.0	3.41	261.00	7,198.2	48.2	-94.6	-48.8	1.00	0.94	-6.72
7,300.0	3.93	250.66	7,298.0	46.6	-100.8	-47.2	0.84	0.52	-10.34
7,400.0	3.53	243.87	7,397.8	44.1	-106.8	-44.8	0.60	-0.40	-6.79
7,500.0	3.06	248.41	7,497.6	41.8	-112.0	-42.5	0.54	-0.47	4.54
7,550.0	2.97	250.25	7,547.6	40.9	-114.5	-41.5	0.26	-0.18	3.68
7550' MD MS Gyro Survey									
7,615.0	3.30	241.60	7,612.5	39.4	-117.7	-40.1	0.89	0.51	-13.31
7,646.0	3.10	240.40	7,643.4	38.6	-119.2	-39.3	0.68	-0.65	-3.87
7,678.0	4.10	191.30	7,675.4	37.0	-120.2	-37.7	9.77	3.13	-153.44
7,709.0	8.10	166.40	7,706.2	33.8	-119.9	-34.5	15.18	12.90	-80.32
7,741.0	11.10	155.90	7,737.7	28.8	-118.1	-29.5	10.82	9.38	-32.81
7,772.0	11.30	156.80	7,768.1	23.3	-115.7	-24.0	0.86	0.65	2.90
7,804.0	14.60	156.00	7,799.3	16.7	-112.8	-17.4	10.33	10.31	-2.50
7,836.0	16.60	156.90	7,830.1	8.8	-109.4	-9.5	6.30	6.25	2.81
7,867.0	20.00	155.70	7,859.6	-0.1	-105.5	-0.6	11.03	10.97	-3.87
7,899.0	24.00	154.30	7,889.2	-10.9	-100.4	10.3	12.61	12.50	-4.38
7,930.0	27.60	153.00	7,917.1	-23.0	-94.4	22.5	11.75	11.61	-4.19
7,962.0	30.70	156.90	7,945.1	-37.1	-87.8	36.6	11.36	9.69	12.19
7,993.0	34.10	160.10	7,971.3	-52.6	-81.8	52.1	12.28	10.97	10.32
8,025.0	37.50	163.80	7,997.2	-70.4	-76.0	69.9	12.59	10.63	11.56
8,057.0	41.20	166.10	8,022.0	-90.0	-70.7	89.6	12.43	11.56	7.19
8,088.0	45.20	166.80	8,044.6	-110.6	-65.8	110.2	13.00	12.90	2.26



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Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)	
8,120.0	49.60	167.30	8,066.2	-133.6	-60.5	133.2	13.80	13.75	1.56	
8,152.0	53.70	167.10	8,086.1	-158.0	-54.9	157.7	12.82	12.81	-0.63	
8,183.0	58.60	166.70	8,103.3	-183.1	-49.1	182.8	15.84	15.81	-1.29	
8,215.0	62.30	167.50	8,119.1	-210.2	-42.9	210.0	11.77	11.56	2.50	
8,246.0	64.70	169.20	8,132.9	-237.4	-37.3	237.2	9.17	7.74	5.48	
8,278.0	67.20	170.40	8,146.0	-266.1	-32.1	266.0	8.53	7.81	3.75	
8,309.0	68.60	171.10	8,157.6	-294.5	-27.5	294.3	4.98	4.52	2.26	
8,341.0	71.40	170.40	8,168.6	-324.2	-22.7	324.0	8.99	8.75	-2.19	
8,372.0	73.90	171.80	8,177.8	-353.4	-18.1	353.3	9.14	8.06	4.52	
8,404.0	77.30	173.40	8,185.8	-384.1	-14.1	384.0	11.68	10.63	5.00	
8,436.0	81.30	173.70	8,191.7	-415.4	-10.6	415.3	12.53	12.50	0.94	
8,467.0	83.30	174.30	8,195.9	-445.9	-7.4	445.9	6.73	6.45	1.94	
8,499.0	86.90	176.10	8,198.6	-477.7	-4.7	477.7	12.57	11.25	5.63	
8,501.3	87.21	176.19	8,198.7	-480.0	-4.5	480.0	13.90	13.33	3.95	
Delaware Ranch 14 B2CN Fee #2H LP										
8,532.0	91.30	177.40	8,199.1	-510.6	-2.8	510.6	13.90	13.33	3.94	
8,563.0	92.80	178.00	8,198.0	-541.6	-1.6	541.6	5.21	4.84	1.94	
8,595.0	90.60	179.00	8,197.1	-573.5	-0.7	573.5	7.55	-6.88	3.13	
8,627.0	89.20	181.20	8,197.1	-605.5	-0.8	605.5	8.15	-4.38	6.88	
8,689.0	88.80	181.10	8,198.2	-667.5	-2.0	667.5	0.67	-0.65	-0.16	
8,752.0	88.40	181.00	8,199.7	-730.5	-3.2	730.5	0.65	-0.63	-0.16	
8,815.0	89.70	180.70	8,200.8	-793.5	-4.1	793.4	2.12	2.06	-0.48	
8,878.0	89.80	180.50	8,201.1	-856.5	-4.8	856.4	0.35	0.16	-0.32	
8,942.0	90.00	180.10	8,201.2	-920.5	-5.1	920.4	0.70	0.31	-0.63	
9,005.0	89.90	179.00	8,201.2	-983.5	-4.6	983.4	1.75	-0.16	-1.75	
9,068.0	89.20	178.10	8,201.7	-1,046.4	-3.0	1,046.4	1.81	-1.11	-1.43	
9,131.0	88.70	177.30	8,202.9	-1,109.4	-0.5	1,109.4	1.50	-0.79	-1.27	
9,195.0	89.70	177.60	8,203.8	-1,173.3	2.3	1,173.3	1.63	1.56	0.47	
9,258.0	89.90	177.20	8,204.0	-1,236.2	5.2	1,236.3	0.71	0.32	-0.63	
9,321.0	89.90	178.50	8,204.1	-1,299.2	7.6	1,299.2	2.06	0.00	2.06	
9,384.0	89.80	177.60	8,204.3	-1,362.2	9.7	1,362.2	1.44	-0.16	-1.43	
9,447.0	90.90	179.60	8,203.9	-1,425.1	11.2	1,425.2	3.62	1.75	3.17	
9,510.0	91.50	179.80	8,202.6	-1,488.1	11.6	1,488.2	1.00	0.95	0.32	
9,573.0	90.20	179.80	8,201.6	-1,551.1	11.8	1,551.2	2.06	-2.06	0.00	
9,630.0	90.20	179.50	8,201.4	-1,608.1	12.1	1,608.2	0.53	0.00	-0.53	
9,693.0	89.90	179.20	8,201.4	-1,671.1	12.9	1,671.2	0.67	-0.48	-0.48	
9,757.0	89.60	178.70	8,201.7	-1,735.1	14.0	1,735.2	0.91	-0.47	-0.78	
9,820.0	89.10	178.30	8,202.4	-1,798.1	15.7	1,798.1	1.02	-0.79	-0.63	
9,883.0	91.10	180.30	8,202.3	-1,861.1	16.4	1,861.1	4.49	3.17	3.17	
9,946.0	91.70	180.10	8,200.7	-1,924.0	16.2	1,924.1	1.00	0.95	-0.32	
10,009.0	90.90	179.40	8,199.3	-1,987.0	16.5	1,987.1	1.69	-1.27	-1.11	
10,072.0	90.50	179.00	8,198.5	-2,050.0	17.4	2,050.1	0.90	-0.63	-0.63	
10,135.0	90.00	178.30	8,198.2	-2,113.0	18.9	2,113.1	1.37	-0.79	-1.11	



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Delaware Ranch 14 B2CN Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	2969 + 20 @ 2989.0usft (Patterson 36)
Site:	Section 11/14-26S-28E Delaware Ranch 14 B2CN Fee 2	MD Reference:	2969 + 20 @ 2989.0usft (Patterson 36)
Well:	Delaware Ranch 14 B2CN Fee #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)
10,198.0	89.50	177.60	8,198.5	-2,176.0	21.1	2,176.0	1.37	-0.79	-1.11
10,261.0	89.90	177.90	8,198.9	-2,238.9	23.6	2,239.0	0.79	0.63	0.48
10,324.0	92.00	180.90	8,197.8	-2,301.9	24.3	2,302.0	5.81	3.33	4.76
10,387.0	92.60	181.80	8,195.3	-2,364.8	22.8	2,364.9	1.72	0.95	1.43
10,451.0	90.90	180.90	8,193.3	-2,428.8	21.3	2,428.8	3.01	-2.66	-1.41
10,514.0	91.10	180.80	8,192.2	-2,491.7	20.3	2,491.8	0.35	0.32	-0.16
10,577.0	89.70	181.00	8,191.8	-2,554.7	19.3	2,554.8	2.24	-2.22	0.32
10,640.0	89.80	180.80	8,192.1	-2,617.7	18.3	2,617.8	0.35	0.16	-0.32
10,704.0	90.20	180.40	8,192.1	-2,681.7	17.7	2,681.8	0.88	0.63	-0.63
10,767.0	89.10	180.90	8,192.4	-2,744.7	17.0	2,744.8	1.92	-1.75	0.79
10,830.0	88.70	180.30	8,193.7	-2,807.7	16.3	2,807.7	1.14	-0.63	-0.95
10,893.0	88.70	180.30	8,195.1	-2,870.7	16.0	2,870.7	0.00	0.00	0.00
10,956.0	89.10	180.40	8,196.3	-2,933.7	15.6	2,933.7	0.65	0.63	0.16
11,019.0	89.50	179.70	8,197.1	-2,996.7	15.5	2,996.7	1.28	0.63	-1.11
11,082.0	89.50	179.10	8,197.6	-3,059.7	16.2	3,059.7	0.95	0.00	-0.95
11,146.0	89.50	178.40	8,198.2	-3,123.6	17.6	3,123.7	1.09	0.00	-1.09
11,209.0	91.10	179.40	8,197.8	-3,186.6	18.8	3,186.7	2.99	2.54	1.59
11,272.0	91.40	178.90	8,196.5	-3,249.6	19.7	3,249.7	0.93	0.48	-0.79
11,335.0	91.50	178.40	8,194.9	-3,312.6	21.2	3,312.6	0.81	0.16	-0.79
11,398.0	91.50	178.50	8,193.2	-3,375.5	22.9	3,375.6	0.16	0.00	0.16
11,461.0	92.00	178.30	8,191.3	-3,438.5	24.7	3,438.6	0.85	0.79	-0.32
11,525.0	89.80	178.90	8,190.3	-3,502.4	26.2	3,502.5	3.56	-3.44	0.94
11,588.0	89.80	178.00	8,190.5	-3,565.4	27.9	3,565.5	1.43	0.00	-1.43
11,652.0	89.50	177.20	8,190.9	-3,629.4	30.6	3,629.5	1.33	-0.47	-1.25
11,715.0	89.60	178.10	8,191.4	-3,692.3	33.2	3,692.4	1.44	0.16	1.43
11,778.0	90.40	178.70	8,191.4	-3,755.3	35.0	3,755.4	1.59	1.27	0.95
11,841.0	90.90	179.40	8,190.7	-3,818.3	36.0	3,818.4	1.37	0.79	1.11
11,904.0	89.30	178.40	8,190.6	-3,881.2	37.2	3,881.4	2.99	-2.54	-1.59
11,968.0	90.10	178.90	8,190.9	-3,945.2	38.7	3,945.4	1.47	1.25	0.78
12,031.0	90.00	178.40	8,190.9	-4,008.2	40.2	4,008.4	0.81	-0.16	-0.79
12,094.0	90.20	177.90	8,190.7	-4,071.2	42.2	4,071.4	0.85	0.32	-0.79
12,157.0	89.80	179.20	8,190.7	-4,134.2	43.8	4,134.3	2.16	-0.63	2.06
12,220.0	90.10	179.10	8,190.8	-4,197.1	44.8	4,197.3	0.50	0.48	-0.16
12,284.0	89.80	179.70	8,190.9	-4,261.1	45.4	4,261.3	1.05	-0.47	0.94
12,347.0	89.90	179.20	8,191.0	-4,324.1	46.1	4,324.3	0.81	0.16	-0.79
12,410.0	89.70	178.70	8,191.2	-4,387.1	47.2	4,387.3	0.85	-0.32	-0.79
12,473.0	90.20	181.00	8,191.3	-4,450.1	47.4	4,450.3	3.74	0.79	3.65
12,537.0	90.10	181.10	8,191.1	-4,514.1	46.2	4,514.3	0.22	-0.16	0.16
12,600.0	89.50	179.40	8,191.3	-4,577.1	45.9	4,577.3	2.86	-0.95	-2.70
12,663.0	88.70	179.00	8,192.3	-4,640.1	46.8	4,640.3	1.42	-1.27	-0.63
12,726.0	90.80	179.00	8,192.6	-4,703.1	47.9	4,703.3	3.33	3.33	0.00
12,789.0	90.60	178.20	8,191.8	-4,766.1	49.4	4,766.3	1.31	-0.32	-1.27



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Delaware Ranch 14 B2CN Fee #2H
Project:	Eddy County, New Mexico	TVD Reference:	2969 + 20 @ 2989.0usft (Patterson 36)
Site:	Section 11/14-26S-28E Delaware Ranch 14 B2CN Fee 2	MD Reference:	2969 + 20 @ 2989.0usft (Patterson 36)
Well:	Delaware Ranch 14 B2CN Fee #2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	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)
12,853.0	90.40	178.40	8,191.3	-4,830.0	51.3	4,830.2	0.44	-0.31	0.31
12,916.0	90.60	181.20	8,190.7	-4,893.0	51.6	4,893.2	4.46	0.32	4.44
12,979.0	90.70	180.90	8,190.0	-4,956.0	50.4	4,956.2	0.50	0.16	-0.48
13,042.0	90.30	180.10	8,189.5	-5,019.0	49.9	5,019.2	1.42	-0.63	-1.27
13,106.0	90.00	179.40	8,189.3	-5,083.0	50.1	5,083.2	1.19	-0.47	-1.09
13,169.0	89.70	179.40	8,189.5	-5,146.0	50.8	5,146.2	0.48	-0.48	0.00
13,232.0	89.00	178.50	8,190.2	-5,209.0	51.9	5,209.2	1.81	-1.11	-1.43
13,307.0	88.30	177.80	8,191.9	-5,283.9	54.4	5,284.1	1.32	-0.93	-0.93
13,350.0	88.30	177.80	8,193.2	-5,326.9	56.0	5,327.1	0.00	0.00	0.00
13350' MD Projected to Bit - Delaware Ranch 14 B2CN Fee #2H PBHL									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,550.0	7,547.6	40.9	-114.5	7550' MD MS Gyro Survey
13,350.0	8,193.2	-5,326.9	56.0	13350' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Delaware Ranch 14 B2CN Fee #2H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 36



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.28°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001										
2969 + 20 @ 2989.0usft (Patterson 36)										
GROUND ELEVATION: 2969.0										
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
	0.0	0.0	382274.90	584805.30	32° 3' 2.495 N	104° 3' 34.606 W				
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	7550.0	2.97	250.25	7547.6	40.9	-114.5	0.00	0.00	-41.5	
2	7713.0	2.97	250.25	7710.3	38.0	-122.4	0.00	0.00	-38.7	
3	8234.7	62.41	157.54	8134.7	-204.8	-38.3	12.00	-94.25	204.6	
4	8526.6	90.18	179.78	8204.0	-478.9	13.3	12.00	41.26	479.0	Delaware Ranch 14 B2CN Fee #2H LP
5	13386.0	90.18	179.78	8189.0	-5336.3	31.7	0.00	0.00	5338.4	Delaware Ranch 14 B2CN Fee #2H PBHL

