

Results of Directional Survey

API number:	30-025-40605		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	RED HILLS WEST UNIT 9 # 6H

surface	ULSTR:	N	09	T 26S	R 32E
				150 FSL	1650 FWL

BH Loc	ULSTR:	C	09	T 26S	R 32E
13980	MD	9279.8	TVD	306 FNL	1650 FWL
				4974 FSL	

Top Perf/OH	ULSTR:	N	09	T 26S	R 32E
9658	MD	9331.6	TVD	655 FSL	1708 FWL

Bot Perf/OH	ULSTR:	C	09	T 26S	R 32E
13858	MD	9282.1	TVD	428 FNL	1649 FWL
				4852 FSL	

	MD	N/S	E/W	VD
	9636	482.70	59.70	9330.2
TOP PERFS/OH	9658	504.56	57.50	9331.58
	9668	514.50	56.50	9332.20
	13751	4595.10	-1.20	9293.30
BOT PERFS/OH	13858	4702.10	-0.64	9291.62
	13980	4824.10	0.00	9289.70

NEXT TO LAST	13751	4595.10	-1.20	9293.30
LAST READING	13980	4824.10	0.00	9289.70
TD	13980	4824.10	0.00	9289.70

Surface Location	150	FS	1650	FW
Projected BHL	4974	FS	1650	FW
Location of				
Top Perfs/OH	655	FS	1708	FW
Bottom Perfs/OH	4852	FS	1649	FW

SUMMARY of Subsurface Locations

Surface Location	N-09-26S-32E	150	FS	1650	FW	Vert. Depth
Top Perfs/OH	N-09-26S-32E	655	FS	1708	FW	9331.58
Bottom Perfs/OH	C-09-26S-32E	4852	FS	1649	FW	9291.62
Projected TD	C-09-26S-32E	4974	FS	1650	FW	9289.70

APD 07 2010

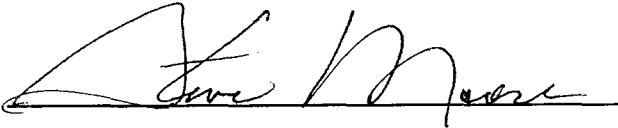
OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE RED HILLS WEST UNIT 6H
COUNTY LEA

FEB 27 2014

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STATE OF NEW MEXICO
DEVIATION REPORT

353	0.56
620	2.68
796	3.17
1,245	2.90
1,372	2.50
1,465	2.50
1,975	2.00
2,056	2.00
2,152	1.90
2,532	2.40
2,627	2.40
2,837	2.40
3,026	1.40
3,116	0.80
3,356	2.00
3,483	1.80
3,642	0.90
3,800	1.50
3,959	1.40
4,119	3.70
4,380	3.20
4,520	2.50
5,072	1.00
5,448	0.50
6,137	1.90
5,755	0.10
6,571	1.40
7,150	0.80
7,534	0.60
7,874	1.00
8,365	0.30

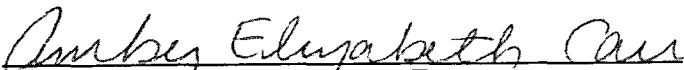
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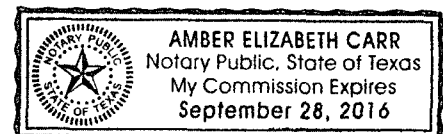
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

1/14/14, by


Notary Public for Midland County, Texas
My Commission Expires:





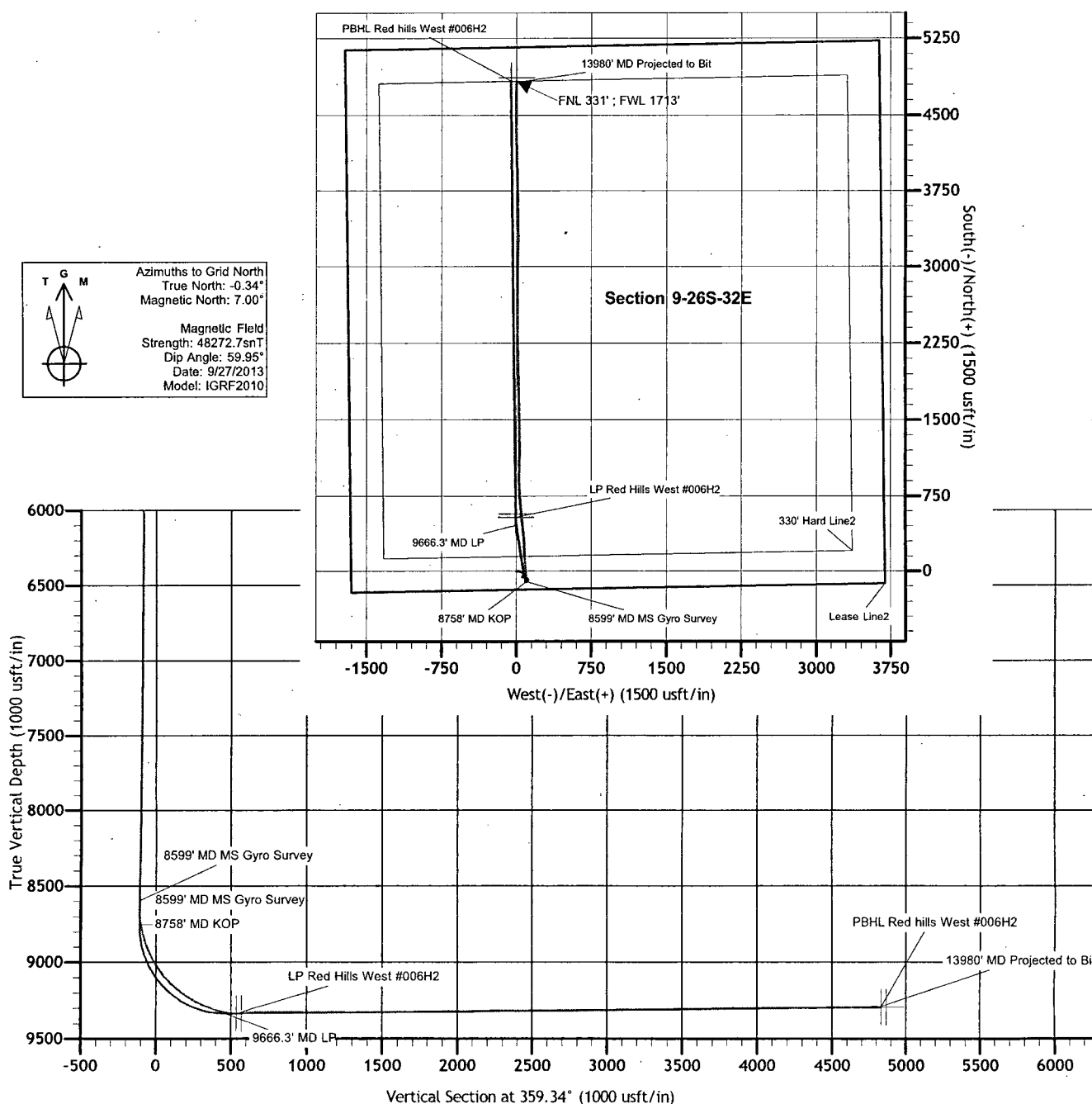
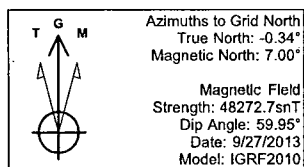
COMPANY: Mewbourne Oil Company
 WELL: Red Hills West Unit #006H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 36



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.00°

GEODETIC ZONE: New Mexico East 3001						Slot
GL 3203 + 20 @ 3223.0usft (Patterson 36)						
GROUND ELEVATION: 3203.0						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	382720.79	701552.18	32° 3' 1.963 N	103° 40' 58.090 W	

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	8599.0	1.69	237.29	8594.9	-104.3	102.0	0.00	0.00	-105.4	
2	8758.0	1.69	237.29	8753.9	-106.8	98.0	0.00	0.00	-107.9	
3	9666.3	90.15	351.63	9333.5	459.1	-1.0	10.00	114.33	459.1	
4	9743.6	90.53	359.35	9333.0	536.1	-7.0	10.00	87.15	536.1	LP Red Hills West #006H2
5	14040.0	90.53	359.35	9293.0	4832.1	-55.7	0.00	0.00	4832.4	PBHL Red hills West #006H2





HOBBS OCD

FEB 27 2014

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Mewbourne Oil Company .

Lea County N.M.

Section 9-26S-32E Red Hills West Unit #006H

Red Hills West Unit #006H

OH

Design: OH

Standard Survey Report

24 February, 2014





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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 9-26S-32E Red Hills West Unit #006H		
Site Position:		Northing:	382,720.79 usft
From:	Map	Easting:	701,552.17 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 1.963 N
		Longitude:	103° 40' 58.090 W
		Grid Convergence:	0.35 °

Well	Red Hills West Unit #006H		
Well Position	+N/-S	0.0 usft	Northing: 382,720.79 usft
	+E/-W	0.0 usft	Easting: 701,552.17 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 3' 1.963 N
		Longitude:	103° 40' 58.090 W
		Ground Level:	3,203.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/27/2013	7.34	59.95	48,273

Design	OH			
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	359.34

Survey Program	Date 2/24/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,599.0	MS Gyro Survey #1 (OH)	GyroFlex	
8,653.0	13,980.0	MWD Survey #2 (OH)	MWD	MWD - Standard

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	0.07	87.48	100.0	0.0	0.1	0.0	0.07	0.07	0.00
200.0	0.62	62.95	200.0	0.3	0.6	0.2	0.56	0.55	-24.53
300.0	1.29	77.28	300.0	0.7	2.2	0.7	0.71	0.67	14.33
400.0	2.07	84.53	399.9	1.2	5.1	1.1	0.81	0.78	7.25
500.0	2.25	90.47	499.9	1.3	8.8	1.2	0.29	0.18	5.94
600.0	2.98	93.41	599.8	1.2	13.4	1.0	0.74	0.73	2.94
700.0	3.33	92.76	699.6	0.9	18.9	0.6	0.35	0.35	-0.65
800.0	3.52	97.58	799.4	0.3	24.8	0.0	0.34	0.19	4.82
900.0	3.80	99.99	899.2	-0.7	31.1	-1.0	0.32	0.28	2.41



Stryker Directional Survey Report



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Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)
1,000.0	3.78	108.54	999.0	-2.3	37.5	-2.7	0.56	-0.02	8.55
1,100.0	3.67	107.22	1,098.8	-4.3	43.7	-4.8	0.14	-0.11	-1.32
1,200.0	3.04	111.88	1,198.6	-6.2	49.2	-6.8	0.69	-0.63	4.66
1,300.0	2.66	114.09	1,298.5	-8.2	53.8	-8.8	0.40	-0.38	2.21
1,400.0	2.46	114.06	1,398.4	-10.0	57.9	-10.6	0.20	-0.20	-0.03
1,500.0	2.42	127.66	1,498.3	-12.1	61.5	-12.9	0.58	-0.04	13.60
1,600.0	2.19	132.24	1,598.2	-14.7	64.6	-15.5	0.29	-0.23	4.58
1,700.0	2.32	138.70	1,698.2	-17.5	67.4	-18.3	0.29	0.13	6.46
1,800.0	2.12	146.38	1,798.1	-20.6	69.7	-21.4	0.36	-0.20	7.68
1,900.0	2.13	142.34	1,898.0	-23.6	71.9	-24.4	0.15	0.01	-4.04
2,000.0	2.11	157.50	1,997.9	-26.8	73.7	-27.6	0.56	-0.02	15.16
2,100.0	1.93	163.00	2,097.9	-30.1	74.9	-30.9	0.26	-0.18	5.50
2,200.0	1.71	174.43	2,197.8	-33.2	75.6	-34.0	0.42	-0.22	11.43
2,300.0	1.51	189.16	2,297.8	-36.0	75.5	-36.8	0.46	-0.20	14.73
2,400.0	1.59	213.35	2,397.8	-38.4	74.5	-39.3	0.65	0.08	24.19
2,500.0	1.95	215.85	2,497.7	-41.0	72.8	-41.8	0.37	0.36	2.50
2,600.0	2.26	230.19	2,597.6	-43.6	70.2	-44.4	0.61	0.31	14.34
2,700.0	2.26	227.13	2,697.6	-46.2	67.3	-47.0	0.12	0.00	-3.06
2,800.0	2.18	222.90	2,797.5	-48.9	64.5	-49.7	0.18	-0.08	-4.23
2,900.0	2.21	218.52	2,897.4	-51.8	62.0	-52.6	0.17	0.03	-4.38
3,000.0	1.58	211.81	2,997.4	-54.5	60.1	-55.2	0.67	-0.63	-6.71
3,100.0	0.89	167.65	3,097.3	-56.5	59.6	-57.1	1.13	-0.69	-44.16
3,200.0	0.92	103.72	3,197.3	-57.4	60.5	-58.1	0.96	0.03	-63.93
3,300.0	1.33	81.26	3,297.3	-57.4	62.4	-58.1	0.59	0.41	-22.46
3,400.0	1.77	76.52	3,397.3	-56.9	65.1	-57.6	0.46	0.44	-4.74
3,500.0	1.68	75.81	3,497.2	-56.2	68.0	-56.9	0.09	-0.09	-0.71
3,600.0	0.98	79.17	3,597.2	-55.6	70.3	-56.4	0.70	-0.70	3.36
3,700.0	1.07	82.41	3,697.2	-55.4	72.0	-56.2	0.11	0.09	3.24
3,800.0	1.44	86.16	3,797.2	-55.1	74.2	-56.0	0.38	0.37	3.75
3,900.0	1.69	98.30	3,897.1	-55.3	76.9	-56.2	0.41	0.25	12.14
4,000.0	1.60	114.16	3,997.1	-56.1	79.7	-57.0	0.46	-0.09	15.86
4,100.0	2.52	116.91	4,097.0	-57.6	82.9	-58.6	0.93	0.92	2.75
4,200.0	3.25	118.08	4,196.9	-60.0	87.4	-61.0	0.73	0.73	1.17
4,300.0	3.55	115.68	4,296.7	-62.6	92.6	-63.7	0.33	0.30	-2.40
4,400.0	3.37	113.83	4,396.5	-65.2	98.1	-66.3	0.21	-0.18	-1.85
4,500.0	2.40	114.05	4,496.4	-67.2	102.7	-68.4	0.97	-0.97	0.22
4,600.0	1.86	119.56	4,596.3	-68.9	106.0	-70.1	0.58	-0.54	5.51
4,700.0	1.64	123.98	4,696.3	-70.5	108.6	-71.7	0.26	-0.22	4.42
4,800.0	1.51	121.57	4,796.3	-71.9	111.0	-73.2	0.15	-0.13	-2.41
4,900.0	1.26	122.78	4,896.2	-73.2	113.0	-74.5	0.25	-0.25	1.21
5,000.0	1.04	125.17	4,996.2	-74.3	114.7	-75.7	0.23	-0.22	2.39
5,100.0	0.97	131.65	5,096.2	-75.4	116.0	-76.8	0.13	-0.07	6.48
5,200.0	0.45	144.69	5,196.2	-76.3	116.9	-77.7	0.54	-0.52	13.04



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20' @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20' @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)	
5,300.0	0.58	179.55	5,296.2	-77.1	117.1	-78.5	0.33	0.13	34.86	
5,400.0	0.60	179.46	5,396.2	-78.2	117.1	-79.5	0.02	0.02	-0.09	
5,500.0	0.27	198.89	5,496.2	-78.9	117.1	-80.3	0.36	-0.33	19.43	
5,600.0	0.46	213.02	5,596.2	-79.5	116.8	-80.8	0.21	0.19	14.13	
5,700.0	0.42	228.85	5,696.2	-80.1	116.3	-81.4	0.13	-0.04	15.83	
5,800.0	0.24	222.52	5,796.2	-80.5	115.9	-81.8	0.18	-0.18	-6.33	
5,900.0	0.16	178.22	5,896.2	-80.7	115.7	-82.1	0.17	-0.08	-44.30	
6,000.0	0.27	103.14	5,996.2	-80.9	116.0	-82.3	0.28	0.11	-75.08	
6,100.0	0.36	83.94	6,096.2	-81.0	116.5	-82.3	0.14	0.09	-19.20	
6,200.0	0.30	117.39	6,196.2	-81.0	117.0	-82.4	0.20	-0.06	33.45	
6,300.0	0.79	161.50	6,296.2	-81.8	117.5	-83.2	0.61	0.49	44.11	
6,400.0	0.81	157.52	6,396.1	-83.1	118.0	-84.5	0.06	0.02	-3.98	
6,500.0	0.75	148.27	6,496.1	-84.3	118.6	-85.7	0.14	-0.06	-9.25	
6,600.0	0.33	166.86	6,596.1	-85.2	119.0	-86.5	0.45	-0.42	18.59	
6,700.0	0.46	209.76	6,696.1	-85.8	118.9	-87.2	0.31	0.13	42.90	
6,800.0	0.52	208.83	6,796.1	-86.5	118.5	-87.9	0.06	0.06	-0.93	
6,900.0	0.59	230.60	6,896.1	-87.3	117.8	-88.6	0.22	0.07	21.77	
7,000.0	0.92	248.89	6,996.1	-87.9	116.7	-89.2	0.40	0.33	18.29	
7,100.0	0.73	231.45	7,096.1	-88.6	115.4	-89.9	0.31	-0.19	-17.44	
7,200.0	0.59	261.32	7,196.1	-89.1	114.4	-90.4	0.37	-0.14	29.87	
7,300.0	0.82	262.43	7,296.1	-89.2	113.2	-90.5	0.23	0.23	1.11	
7,400.0	0.80	225.13	7,396.1	-89.8	112.0	-91.1	0.52	-0.02	-37.30	
7,500.0	0.64	187.40	7,496.1	-90.9	111.5	-92.1	0.49	-0.16	-37.73	
7,600.0	0.49	217.90	7,596.1	-91.7	111.1	-93.0	0.33	-0.15	30.50	
7,700.0	0.89	209.16	7,696.1	-92.8	110.5	-94.0	0.41	0.40	-8.74	
7,800.0	0.88	209.21	7,796.0	-94.1	109.7	-95.4	0.01	-0.01	0.05	
7,900.0	0.89	189.88	7,896.0	-95.5	109.2	-96.8	0.30	0.01	-19.33	
8,000.0	0.70	192.21	7,996.0	-96.9	109.0	-98.2	0.19	-0.19	2.33	
8,100.0	0.63	205.86	8,096.0	-98.0	108.6	-99.2	0.17	-0.07	13.65	
8,200.0	1.03	220.06	8,196.0	-99.2	107.8	-100.4	0.45	0.40	14.20	
8,300.0	1.03	219.28	8,296.0	-100.6	106.6	-101.8	0.01	0.00	-0.78	
8,400.0	0.84	220.00	8,396.0	-101.8	105.6	-103.0	0.19	-0.19	0.72	
8,500.0	1.26	239.78	8,496.0	-102.9	104.2	-104.1	0.55	0.42	19.78	
8,599.0	1.69	237.29	8,594.9	-104.3	102.0	-105.4	0.44	0.43	-2.52	
8599' MD MS Gyro Survey										
8,653.0	1.50	243.30	8,648.9	-105.0	100.7	-106.2	0.47	-0.35	11.13	
8,685.0	1.40	294.50	8,680.9	-105.0	100.0	-106.2	3.93	-0.31	160.00	
8,716.0	3.70	350.60	8,711.9	-103.9	99.4	-105.0	10.13	7.42	180.97	
8,748.0	7.00	352.80	8,743.7	-101.0	99.0	-102.1	10.33	10.31	6.88	
8,780.0	11.30	356.20	8,775.3	-95.9	98.6	-97.0	13.54	13.44	10.63	
8,812.0	14.60	356.70	8,806.5	-88.7	98.1	-89.9	10.32	10.31	1.56	
8,843.0	16.90	357.70	8,836.3	-80.3	97.7	-81.4	7.47	7.42	3.23	
8,875.0	19.30	357.90	8,866.7	-70.4	97.4	-71.5	7.50	7.50	0.63	



Stryker Directional Survey Report



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Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)
8,907.0	21.60	356.40	8,896.7	-59.2	96.8	-60.3	7.37	7.19	-4.69
8,938.0	23.90	355.80	8,925.3	-47.3	96.0	-48.4	7.46	7.42	-1.94
8,970.0	26.20	355.80	8,954.3	-33.8	95.0	-34.8	7.19	7.19	0.00
9,002.0	28.10	355.40	8,982.8	-19.2	93.9	-20.3	5.96	5.94	-1.25
9,033.0	30.50	355.20	9,009.8	-4.1	92.6	-5.1	7.75	7.74	-0.65
9,065.0	33.80	355.50	9,036.9	12.9	91.2	11.8	10.32	10.31	0.94
9,097.0	36.40	355.20	9,063.1	31.2	89.7	30.2	8.14	8.13	-0.94
9,129.0	39.30	355.20	9,088.3	50.8	88.1	49.8	9.06	9.06	0.00
9,160.0	42.30	356.20	9,111.8	71.0	86.6	70.0	9.90	9.68	3.23
9,192.0	45.50	357.20	9,134.9	93.1	85.3	92.1	10.23	10.00	3.13
9,224.0	48.30	358.10	9,156.7	116.5	84.4	115.5	8.99	8.75	2.81
9,255.0	51.00	357.90	9,176.8	140.1	83.5	139.1	8.72	8.71	-0.65
9,287.0	53.20	357.80	9,196.4	165.3	82.6	164.4	6.88	6.88	-0.31
9,319.0	55.30	357.80	9,215.1	191.3	81.6	190.3	6.56	6.56	0.00
9,350.0	58.90	357.90	9,232.0	217.3	80.6	216.3	11.62	11.61	0.32
9,382.0	61.10	357.80	9,248.0	245.0	79.6	244.0	6.88	6.88	-0.31
9,414.0	63.30	357.50	9,262.9	273.2	78.4	272.3	6.92	6.88	-0.94
9,446.0	65.70	356.50	9,276.7	302.1	76.9	301.2	8.01	7.50	-3.13
9,477.0	67.90	355.00	9,288.9	330.5	74.8	329.6	8.37	7.10	-4.84
9,509.0	70.30	354.10	9,300.3	360.3	71.9	359.4	7.95	7.50	-2.81
9,541.0	72.70	354.30	9,310.4	390.4	68.9	389.6	7.52	7.50	0.63
9,573.0	75.70	354.40	9,319.2	421.1	65.8	420.3	9.38	9.38	0.31
9,604.0	79.60	354.30	9,325.8	451.2	62.9	450.5	12.58	12.58	-0.32
9,636.0	84.60	354.20	9,330.2	482.7	59.7	482.0	15.63	15.63	-0.31
9,668.0	88.30	354.30	9,332.2	514.5	56.5	513.8	11.57	11.56	0.31
9,698.0	91.20	353.20	9,332.3	544.3	53.2	543.7	10.34	9.67	-3.67
9,729.0	92.70	353.10	9,331.2	575.1	49.5	574.5	4.85	4.84	-0.32
9,761.0	93.40	353.60	9,329.5	606.8	45.8	606.3	2.69	2.19	1.56
9,793.0	92.80	354.60	9,327.8	638.6	42.5	638.1	3.64	-1.88	3.13
9,825.0	91.30	355.10	9,326.7	670.5	39.7	670.0	4.94	-4.69	1.56
9,856.0	91.20	355.20	9,326.0	701.3	37.1	700.9	0.46	-0.32	0.32
9,888.0	91.10	355.10	9,325.3	733.2	34.4	732.8	0.44	-0.31	-0.31
9,920.0	90.10	356.10	9,325.0	765.1	31.9	764.7	4.42	-3.13	3.13
9,951.0	89.80	357.20	9,325.0	796.1	30.1	795.7	3.68	-0.97	3.55
9,983.0	89.30	358.20	9,325.3	828.0	28.8	827.7	3.49	-1.56	3.13
10,014.0	89.70	358.40	9,325.6	859.0	27.9	858.7	1.44	1.29	0.65
10,046.0	88.80	359.80	9,326.0	891.0	27.4	890.6	5.20	-2.81	4.38
10,078.0	89.20	0.70	9,326.5	923.0	27.5	922.6	3.08	1.25	2.81
10,109.0	89.50	0.30	9,326.9	954.0	27.8	953.6	1.61	0.97	-1.29
10,141.0	90.00	0.60	9,327.0	986.0	28.0	985.6	1.82	1.56	0.94
10,173.0	90.40	0.60	9,326.9	1,018.0	28.4	1,017.6	1.25	1.25	0.00
10,205.0	91.20	0.60	9,326.5	1,050.0	28.7	1,049.6	2.50	2.50	0.00
10,236.0	91.20	0.70	9,325.8	1,081.0	29.1	1,080.6	0.32	0.00	0.32
10,268.0	91.50	0.50	9,325.1	1,113.0	29.4	1,112.6	1.13	0.94	-0.63



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)
10,299.0	90.30	0.00	9,324.6	1,144.0	29.5	1,143.6	4.19	-3.87	-1.61
10,331.0	90.30	359.90	9,324.4	1,176.0	29.5	1,175.6	0.31	0.00	-0.31
10,363.0	88.90	359.60	9,324.6	1,208.0	29.4	1,207.6	4.47	-4.38	-0.94
10,395.0	88.90	359.40	9,325.3	1,240.0	29.1	1,239.6	0.62	0.00	-0.63
10,426.0	89.40	359.30	9,325.7	1,271.0	28.7	1,270.6	1.64	1.61	-0.32
10,458.0	89.80	359.40	9,325.9	1,303.0	28.4	1,302.6	1.29	1.25	0.31
10,490.0	90.30	359.30	9,325.9	1,335.0	28.0	1,334.6	1.59	1.56	-0.31
10,522.0	90.70	359.30	9,325.6	1,367.0	27.6	1,366.5	1.25	1.25	0.00
10,554.0	91.30	359.40	9,325.1	1,399.0	27.3	1,398.5	1.90	1.88	0.31
10,585.0	90.30	359.40	9,324.6	1,429.9	26.9	1,429.5	3.23	-3.23	0.00
10,617.0	90.40	359.40	9,324.4	1,461.9	26.6	1,461.5	0.31	0.31	0.00
10,649.0	90.90	359.50	9,324.1	1,493.9	26.3	1,493.5	1.59	1.56	0.31
10,680.0	91.40	359.40	9,323.5	1,524.9	26.0	1,524.5	1.64	1.61	-0.32
10,712.0	90.30	359.40	9,323.0	1,556.9	25.7	1,556.5	3.44	-3.44	0.00
10,743.0	90.10	359.40	9,322.9	1,587.9	25.3	1,587.5	0.65	-0.65	0.00
10,775.0	90.50	359.40	9,322.7	1,619.9	25.0	1,619.5	1.25	1.25	0.00
10,806.0	90.80	359.60	9,322.4	1,650.9	24.7	1,650.5	1.16	0.97	0.65
10,838.0	91.30	359.40	9,321.8	1,682.9	24.4	1,682.5	1.68	1.56	-0.63
10,870.0	90.20	359.40	9,321.3	1,714.9	24.1	1,714.5	3.44	-3.44	0.00
10,902.0	90.20	359.00	9,321.2	1,746.9	23.7	1,746.5	1.25	0.00	-1.25
10,933.0	90.60	358.90	9,321.0	1,777.9	23.1	1,777.5	1.33	1.29	-0.32
10,965.0	91.00	358.80	9,320.6	1,809.9	22.5	1,809.5	1.29	1.25	-0.31
10,997.0	89.80	358.90	9,320.3	1,841.9	21.8	1,841.5	3.76	-3.75	0.31
11,029.0	89.70	359.30	9,320.5	1,873.9	21.3	1,873.5	1.29	-0.31	1.25
11,060.0	90.00	358.80	9,320.6	1,904.9	20.8	1,904.5	1.88	0.97	-1.61
11,092.0	90.10	358.70	9,320.5	1,936.9	20.1	1,936.5	0.44	0.31	-0.31
11,122.0	90.30	358.60	9,320.4	1,966.9	19.4	1,966.5	0.75	0.67	-0.33
11,154.0	90.10	358.60	9,320.3	1,998.8	18.6	1,998.5	0.63	-0.63	0.00
11,186.0	89.80	358.20	9,320.4	2,030.8	17.7	2,030.5	1.56	-0.94	-1.25
11,217.0	90.20	358.10	9,320.4	2,061.8	16.7	2,061.5	1.33	1.29	-0.32
11,249.0	90.70	357.90	9,320.1	2,093.8	15.6	2,093.5	1.68	1.56	-0.63
11,281.0	91.20	358.10	9,319.6	2,125.8	14.5	2,125.5	1.68	1.56	0.63
11,313.0	92.00	358.10	9,318.7	2,157.7	13.4	2,157.4	2.50	2.50	0.00
11,344.0	91.20	358.60	9,317.8	2,188.7	12.5	2,188.4	3.04	-2.58	1.61
11,376.0	91.50	358.70	9,317.1	2,220.7	11.8	2,220.4	0.99	0.94	0.31
11,407.0	92.10	358.80	9,316.1	2,251.7	11.1	2,251.4	1.96	1.94	0.32
11,439.0	91.00	359.50	9,315.2	2,283.7	10.6	2,283.4	4.07	-3.44	2.19
11,471.0	90.70	359.90	9,314.7	2,315.7	10.5	2,315.4	1.56	-0.94	1.25
11,502.0	89.90	0.60	9,314.6	2,346.7	10.6	2,346.4	3.43	-2.58	2.26
11,534.0	90.20	0.70	9,314.6	2,378.7	11.0	2,378.4	0.99	0.94	0.31
11,566.0	90.10	0.60	9,314.5	2,410.7	11.3	2,410.4	0.44	-0.31	-0.31
11,598.0	89.10	359.80	9,314.7	2,442.6	11.4	2,442.4	4.00	-3.13	-2.50
11,629.0	88.60	359.60	9,315.3	2,473.6	11.3	2,473.3	1.74	-1.61	-0.65



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
11,661.0	88.90	359.40	9,316.0	2,505.6	11.0	2,505.3	1.13	0.94	-0.63
11,693.0	89.60	359.40	9,316.4	2,537.6	10.7	2,537.3	2.19	2.19	0.00
11,724.0	90.20	359.50	9,316.5	2,568.6	10.4	2,568.3	1.96	1.94	0.32
11,756.0	90.70	359.40	9,316.2	2,600.6	10.0	2,600.3	1.59	1.56	-0.31
11,788.0	91.40	0.00	9,315.7	2,632.6	9.9	2,632.3	2.88	2.19	1.88
11,820.0	92.00	0.10	9,314.7	2,664.6	9.9	2,664.3	1.90	1.88	0.31
11,851.0	90.50	0.10	9,314.0	2,695.6	10.0	2,695.3	4.84	-4.84	0.00
11,883.0	90.20	0.10	9,313.8	2,727.6	10.0	2,727.3	0.94	-0.94	0.00
11,915.0	90.50	0.10	9,313.6	2,759.6	10.1	2,759.3	0.94	0.94	0.00
11,947.0	90.90	0.10	9,313.2	2,791.6	10.1	2,791.3	1.25	1.25	0.00
11,979.0	91.60	359.60	9,312.5	2,823.6	10.0	2,823.3	2.69	2.19	-1.56
12,010.0	92.00	359.90	9,311.6	2,854.6	9.9	2,854.3	1.61	1.29	0.97
12,042.0	90.50	0.30	9,310.9	2,886.6	10.0	2,886.3	4.85	-4.69	1.25
12,074.0	90.30	0.80	9,310.6	2,918.6	10.3	2,918.2	1.68	-0.63	1.56
12,105.0	90.70	0.90	9,310.4	2,949.6	10.7	2,949.2	1.33	1.29	0.32
12,137.0	91.40	1.00	9,309.8	2,981.5	11.3	2,981.2	2.21	2.19	0.31
12,169.0	89.60	0.80	9,309.5	3,013.5	11.8	3,013.2	5.66	-5.63	-0.63
12,201.0	89.30	0.90	9,309.8	3,045.5	12.2	3,045.2	0.99	-0.94	0.31
12,233.0	90.10	1.20	9,310.0	3,077.5	12.8	3,077.2	2.67	2.50	0.94
12,265.0	90.60	1.80	9,309.8	3,109.5	13.7	3,109.1	2.44	1.56	1.88
12,297.0	91.30	1.90	9,309.3	3,141.5	14.7	3,141.1	2.21	2.19	0.31
12,328.0	90.10	1.00	9,308.9	3,172.5	15.5	3,172.1	4.84	-3.87	-2.90
12,360.0	90.20	0.80	9,308.8	3,204.5	16.0	3,204.1	0.70	0.31	-0.63
12,392.0	89.80	0.70	9,308.8	3,236.5	16.4	3,236.1	1.29	-1.25	-0.31
12,424.0	89.80	0.60	9,308.9	3,268.5	16.8	3,268.1	0.31	0.00	-0.31
12,455.0	90.40	359.80	9,308.9	3,299.5	16.9	3,299.1	3.23	1.94	-2.58
12,487.0	90.70	359.60	9,308.5	3,331.5	16.7	3,331.1	1.13	0.94	-0.63
12,519.0	90.80	359.50	9,308.1	3,363.5	16.5	3,363.1	0.44	0.31	-0.31
12,550.0	90.80	359.40	9,307.7	3,394.5	16.2	3,394.0	0.32	0.00	-0.32
12,582.0	90.90	359.60	9,307.2	3,426.5	15.9	3,426.0	0.70	0.31	0.63
12,614.0	91.10	359.40	9,306.7	3,458.4	15.6	3,458.0	0.88	0.63	-0.63
12,646.0	91.20	359.50	9,306.0	3,490.4	15.3	3,490.0	0.44	0.31	0.31
12,677.0	91.10	359.50	9,305.4	3,521.4	15.0	3,521.0	0.32	-0.32	0.00
12,709.0	91.10	359.40	9,304.8	3,553.4	14.7	3,553.0	0.31	0.00	-0.31
12,741.0	91.20	359.30	9,304.1	3,585.4	14.4	3,585.0	0.44	0.31	-0.31
12,772.0	91.30	359.00	9,303.5	3,616.4	13.9	3,616.0	1.02	0.32	-0.97
12,804.0	91.20	359.00	9,302.8	3,648.4	13.3	3,648.0	0.31	-0.31	0.00
12,836.0	91.40	358.90	9,302.0	3,680.4	12.8	3,680.0	0.70	0.63	-0.31
12,868.0	91.40	358.80	9,301.3	3,712.4	12.1	3,712.0	0.31	0.00	-0.31
12,899.0	90.50	359.20	9,300.7	3,743.4	11.6	3,743.0	3.18	-2.90	1.29
12,931.0	90.10	359.10	9,300.6	3,775.4	11.1	3,775.0	1.29	-1.25	-0.31
12,963.0	90.20	359.10	9,300.5	3,807.3	10.6	3,807.0	0.31	0.31	0.00
12,995.0	90.50	359.00	9,300.3	3,839.3	10.1	3,839.0	0.99	0.94	-0.31



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)
13,027.0	90.60	358.80	9,300.0	3,871.3	9.4	3,871.0	0.70	0.31	-0.63
13,058.0	90.50	358.90	9,299.7	3,902.3	8.8	3,902.0	0.46	-0.32	0.32
13,090.0	90.50	359.00	9,299.4	3,934.3	8.2	3,934.0	0.31	0.00	0.31
13,122.0	90.60	359.10	9,299.1	3,966.3	7.7	3,966.0	0.44	0.31	0.31
13,153.0	90.70	359.00	9,298.8	3,997.3	7.2	3,997.0	0.46	0.32	-0.32
13,182.0	90.90	358.70	9,298.4	4,026.3	6.6	4,026.0	1.24	0.69	-1.03
13,213.0	90.80	358.70	9,297.9	4,057.3	5.9	4,057.0	0.32	-0.32	0.00
13,245.0	90.70	358.60	9,297.5	4,089.3	5.2	4,088.9	0.44	-0.31	-0.31
13,275.0	90.90	359.00	9,297.1	4,119.3	4.5	4,118.9	1.49	0.67	1.33
13,307.0	90.50	358.80	9,296.7	4,151.3	3.9	4,150.9	1.40	-1.25	-0.63
13,339.0	89.30	359.30	9,296.7	4,183.3	3.4	4,182.9	4.06	-3.75	1.56
13,370.0	89.00	358.80	9,297.2	4,214.2	2.9	4,213.9	1.88	-0.97	-1.61
13,402.0	89.00	358.30	9,297.7	4,246.2	2.1	4,245.9	1.56	0.00	-1.56
13,434.0	89.80	358.80	9,298.1	4,278.2	1.2	4,277.9	2.95	2.50	1.56
13,465.0	90.00	358.70	9,298.1	4,309.2	0.6	4,308.9	0.72	0.65	-0.32
13,497.0	90.00	358.70	9,298.1	4,341.2	-0.2	4,340.9	0.00	0.00	0.00
13,529.0	90.50	358.70	9,298.0	4,373.2	-0.9	4,372.9	1.56	1.56	0.00
13,561.0	91.20	359.80	9,297.5	4,405.2	-1.3	4,404.9	4.07	2.19	3.44
13,593.0	91.40	0.00	9,296.8	4,437.2	-1.4	4,436.9	0.88	0.63	0.63
13,624.0	91.80	359.90	9,295.9	4,468.2	-1.4	4,467.9	1.33	1.29	-0.32
13,656.0	92.20	359.80	9,294.8	4,500.1	-1.5	4,499.9	1.29	1.25	-0.31
13,688.0	90.60	0.10	9,294.0	4,532.1	-1.5	4,531.9	5.09	-5.00	0.94
13,719.0	90.50	0.30	9,293.7	4,563.1	-1.4	4,562.8	0.72	-0.32	0.65
13,751.0	90.90	0.30	9,293.3	4,595.1	-1.2	4,594.8	1.25	1.25	0.00
13,980.0	90.90	0.30	9,289.7	4,824.1	0.0	4,823.8	0.00	0.00	0.00

13980' MD Projected to Bit

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
LP Red Hills West #01	0.00	0.00	9,333.0	536.1	-7.0	383,256.89	701,545.13	32° 3' 7.268 N	103° 40' 58.135 W
- actual wellpath misses target center by 60.8usft at 9696.4usft MD (9332.3 TVD, 542.7 N, 53.4 E)									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,599.0	8,594.9	-104.3	102.0	8599' MD MS Gyro Survey
13,980.0	9,289.7	4,824.1	0.0	13980' MD Projected to Bit



Mewbourne Oil Company .

Lea County N.M.

Section 9-26S-32E Red Hills West Unit #006H

Red Hills West Unit #006H

OH

HOBBS OCD

FEB 27 2014

Design: OH

RECEIVED

Survey Report - Geographic

24 February, 2014





Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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 9-26S-32E Red Hills West Unit #006H			
Site Position:		Northing:	382,720.79 usft	Latitude: 32° 3' 1.963 N
From:	Map	Easting:	701,552.17 usft	Longitude: 103° 40' 58.090 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.35 °

Well	Red Hills West Unit #006H			
Well Position	+N/-S	0.0 usft	Northing:	382,720.79 usft
	+E/-W	0.0 usft	Easting:	701,552.17 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft
			Ground Level:	3,203.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/27/2013	7.34	59.95	48,273

Design	OH			
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	359.34

Survey Program	Date 2/24/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,599.0	MS Gyro Survey #1 (OH)	GyroFlex	
8,653.0	13,980.0	MWD Survey #2 (OH)	MWD	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	382,720.79	701,552.17	32° 3' 1.963 N	103° 40' 58.090 W
100.0	0.07	87.48	100.0	0.0	0.1	382,720.79	701,552.23	32° 3' 1.963 N	103° 40' 58.090 W
200.0	0.62	62.95	200.0	0.3	0.6	382,721.04	701,552.77	32° 3' 1.965 N	103° 40' 58.083 W
300.0	1.29	77.28	300.0	0.7	2.2	382,721.54	701,554.35	32° 3' 1.970 N	103° 40' 58.065 W
400.0	2.07	84.53	399.9	1.2	5.1	382,721.96	701,557.25	32° 3' 1.974 N	103° 40' 58.031 W
500.0	2.25	90.47	499.9	1.3	8.8	382,722.11	701,561.01	32° 3' 1.975 N	103° 40' 57.988 W
600.0	2.98	93.41	599.8	1.2	13.4	382,721.94	701,565.57	32° 3' 1.973 N	103° 40' 57.935 W
700.0	3.33	92.76	699.6	0.9	18.9	382,721.65	701,571.06	32° 3' 1.970 N	103° 40' 57.871 W
800.0	3.52	97.58	799.4	0.3	24.8	382,721.10	701,577.01	32° 3' 1.964 N	103° 40' 57.802 W
900.0	3.80	99.99	899.2	-0.7	31.1	382,720.12	701,583.32	32° 3' 1.954 N	103° 40' 57.729 W
1,000.0	3.78	108.54	999.0	-2.3	37.5	382,718.50	701,589.70	32° 3' 1.938 N	103° 40' 57.655 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,100.0	3.67	107.22	1,098.8	-4.3	43.7	382,716.50	701,595.89	32° 3' 1.918 N	103° 40' 57.583 W
1,200.0	3.04	111.88	1,198.6	-6.2	49.2	382,714.57	701,601.40	32° 3' 1.898 N	103° 40' 57.519 W
1,300.0	2.66	114.09	1,298.5	-8.2	53.8	382,712.63	701,605.98	32° 3' 1.879 N	103° 40' 57.466 W
1,400.0	2.46	114.06	1,398.4	-10.0	57.9	382,710.81	701,610.06	32° 3' 1.861 N	103° 40' 57.419 W
1,500.0	2.42	127.66	1,498.3	-12.1	61.5	382,708.65	701,613.69	32° 3' 1.839 N	103° 40' 57.377 W
1,600.0	2.19	132.24	1,598.2	-14.7	64.6	382,706.07	701,616.78	32° 3' 1.813 N	103° 40' 57.341 W
1,700.0	2.32	138.70	1,698.2	-17.5	67.4	382,703.27	701,619.53	32° 3' 1.785 N	103° 40' 57.309 W
1,800.0	2.12	146.38	1,798.1	-20.6	69.7	382,700.21	701,621.89	32° 3' 1.755 N	103° 40' 57.282 W
1,900.0	2.13	142.34	1,898.0	-23.6	71.9	382,697.20	701,624.05	32° 3' 1.725 N	103° 40' 57.257 W
2,000.0	2.11	157.50	1,997.9	-26.8	73.7	382,694.02	701,625.89	32° 3' 1.694 N	103° 40' 57.236 W
2,100.0	1.93	163.00	2,097.9	-30.1	74.9	382,690.71	701,627.08	32° 3' 1.661 N	103° 40' 57.222 W
2,200.0	1.71	174.43	2,197.8	-33.2	75.6	382,687.62	701,627.72	32° 3' 1.630 N	103° 40' 57.215 W
2,300.0	1.51	189.16	2,297.8	-36.0	75.5	382,684.83	701,627.66	32° 3' 1.602 N	103° 40' 57.216 W
2,400.0	1.59	213.35	2,397.8	-38.4	74.5	382,682.37	701,626.68	32° 3' 1.578 N	103° 40' 57.227 W
2,500.0	1.95	215.85	2,497.7	-41.0	72.8	382,679.83	701,624.92	32° 3' 1.553 N	103° 40' 57.248 W
2,600.0	2.26	230.19	2,597.6	-43.6	70.2	382,677.19	701,622.41	32° 3' 1.527 N	103° 40' 57.277 W
2,700.0	2.26	227.13	2,697.6	-46.2	67.3	382,674.59	701,619.45	32° 3' 1.502 N	103° 40' 57.312 W
2,800.0	2.18	222.90	2,797.5	-48.9	64.5	382,671.85	701,616.71	32° 3' 1.475 N	103° 40' 57.344 W
2,900.0	2.21	218.52	2,897.4	-51.8	62.0	382,668.95	701,614.22	32° 3' 1.446 N	103° 40' 57.373 W
3,000.0	1.58	211.81	2,997.4	-54.5	60.1	382,666.27	701,612.29	32° 3' 1.420 N	103° 40' 57.396 W
3,100.0	0.89	167.65	3,097.3	-56.5	59.6	382,664.34	701,611.73	32° 3' 1.401 N	103° 40' 57.402 W
3,200.0	0.92	103.72	3,197.3	-57.4	60.5	382,663.39	701,612.68	32° 3' 1.391 N	103° 40' 57.391 W
3,300.0	1.33	81.26	3,297.3	-57.4	62.4	382,663.38	701,614.60	32° 3' 1.391 N	103° 40' 57.369 W
3,400.0	1.77	76.52	3,397.3	-56.9	65.1	382,663.91	701,617.25	32° 3' 1.396 N	103° 40' 57.338 W
3,500.0	1.68	75.81	3,497.2	-56.2	68.0	382,664.63	701,620.18	32° 3' 1.403 N	103° 40' 57.304 W
3,600.0	0.98	79.17	3,597.2	-55.6	70.3	382,665.15	701,622.44	32° 3' 1.408 N	103° 40' 57.278 W
3,700.0	1.07	82.41	3,697.2	-55.4	72.0	382,665.44	701,624.20	32° 3' 1.411 N	103° 40' 57.257 W
3,800.0	1.44	86.16	3,797.2	-55.1	74.2	382,665.65	701,626.38	32° 3' 1.413 N	103° 40' 57.232 W
3,900.0	1.69	98.30	3,897.1	-55.3	76.9	382,665.52	701,629.09	32° 3' 1.411 N	103° 40' 57.201 W
4,000.0	1.60	114.16	3,997.1	-56.1	79.7	382,664.73	701,631.83	32° 3' 1.403 N	103° 40' 57.169 W
4,100.0	2.52	116.91	4,097.0	-57.6	82.9	382,663.17	701,635.06	32° 3' 1.388 N	103° 40' 57.131 W
4,200.0	3.25	118.08	4,196.9	-60.0	87.4	382,660.84	701,639.52	32° 3' 1.364 N	103° 40' 57.080 W
4,300.0	3.55	115.68	4,296.7	-62.6	92.6	382,658.16	701,644.81	32° 3' 1.337 N	103° 40' 57.018 W
4,400.0	3.37	113.83	4,396.5	-65.2	98.1	382,655.63	701,650.29	32° 3' 1.312 N	103° 40' 56.955 W
4,500.0	2.40	114.05	4,496.4	-67.2	102.7	382,653.59	701,654.89	32° 3' 1.292 N	103° 40' 56.902 W
4,600.0	1.86	119.56	4,596.3	-68.9	106.0	382,651.94	701,658.22	32° 3' 1.275 N	103° 40' 56.863 W
4,700.0	1.64	123.98	4,696.3	-70.5	108.6	382,650.34	701,660.82	32° 3' 1.259 N	103° 40' 56.833 W
4,800.0	1.51	121.57	4,796.3	-71.9	111.0	382,648.85	701,663.12	32° 3' 1.244 N	103° 40' 56.806 W
4,900.0	1.26	122.78	4,896.2	-73.2	113.0	382,647.56	701,665.17	32° 3' 1.231 N	103° 40' 56.783 W
5,000.0	1.04	125.17	4,996.2	-74.3	114.7	382,646.44	701,666.84	32° 3' 1.220 N	103° 40' 56.763 W
5,100.0	0.97	131.65	5,096.2	-75.4	116.0	382,645.36	701,668.21	32° 3' 1.209 N	103° 40' 56.747 W
5,200.0	0.45	144.69	5,196.2	-76.3	116.9	382,644.48	701,669.07	32° 3' 1.201 N	103° 40' 56.738 W
5,300.0	0.58	179.55	5,296.2	-77.1	117.1	382,643.65	701,669.30	32° 3' 1.192 N	103° 40' 56.735 W
5,400.0	0.60	179.46	5,396.2	-78.2	117.1	382,642.62	701,669.31	32° 3' 1.182 N	103° 40' 56.735 W
5,500.0	0.27	198.89	5,496.2	-78.9	117.1	382,641.87	701,669.24	32° 3' 1.175 N	103° 40' 56.736 W
5,600.0	0.46	213.02	5,596.2	-79.5	116.8	382,641.31	701,668.95	32° 3' 1.169 N	103° 40' 56.739 W
5,700.0	0.42	228.85	5,696.2	-80.1	116.3	382,640.74	701,668.45	32° 3' 1.164 N	103° 40' 56.745 W
5,800.0	0.24	222.52	5,796.2	-80.5	115.9	382,640.34	701,668.03	32° 3' 1.160 N	103° 40' 56.750 W
5,900.0	0.16	178.22	5,896.2	-80.7	115.7	382,640.05	701,667.90	32° 3' 1.157 N	103° 40' 56.752 W
6,000.0	0.27	103.14	5,996.2	-80.9	116.0	382,639.85	701,668.13	32° 3' 1.155 N	103° 40' 56.749 W
6,100.0	0.36	83.94	6,096.2	-81.0	116.5	382,639.83	701,668.67	32° 3' 1.155 N	103° 40' 56.743 W
6,200.0	0.30	117.39	6,196.2	-81.0	117.0	382,639.75	701,669.22	32° 3' 1.154 N	103° 40' 56.736 W
6,300.0	0.79	161.50	6,296.2	-81.8	117.5	382,638.97	701,669.67	32° 3' 1.146 N	103° 40' 56.731 W
6,400.0	0.81	157.52	6,396.1	-83.1	118.0	382,637.66	701,670.16	32° 3' 1.133 N	103° 40' 56.725 W
6,500.0	0.75	148.27	6,496.1	-84.3	118.6	382,636.45	701,670.77	32° 3' 1.121 N	103° 40' 56.718 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,600.0	0.33	166.86	6,596.1	-85.2	119.0	382,635.62	701,671.18	32° 3' 1.113 N	103° 40' 56.714 W
6,700.0	0.46	209.76	6,696.1	-85.8	118.9	382,634.99	701,671.05	32° 3' 1.107 N	103° 40' 56.715 W
6,800.0	0.52	208.83	6,796.1	-86.5	118.5	382,634.24	701,670.63	32° 3' 1.099 N	103° 40' 56.720 W
6,900.0	0.59	230.60	6,896.1	-87.3	117.8	382,633.52	701,670.01	32° 3' 1.092 N	103° 40' 56.727 W
7,000.0	0.92	248.89	6,996.1	-87.9	116.7	382,632.90	701,668.87	32° 3' 1.086 N	103° 40' 56.741 W
7,100.0	0.73	231.45	7,096.1	-88.6	115.4	382,632.22	701,667.62	32° 3' 1.079 N	103° 40' 56.755 W
7,200.0	0.59	261.32	7,196.1	-89.1	114.4	382,631.74	701,666.61	32° 3' 1.075 N	103° 40' 56.767 W
7,300.0	0.82	262.43	7,296.1	-89.2	113.2	382,631.57	701,665.39	32° 3' 1.073 N	103° 40' 56.781 W
7,400.0	0.80	225.13	7,396.1	-89.8	112.0	382,630.98	701,664.19	32° 3' 1.067 N	103° 40' 56.795 W
7,500.0	0.64	187.40	7,496.1	-90.9	111.5	382,629.94	701,663.62	32° 3' 1.057 N	103° 40' 56.802 W
7,600.0	0.49	217.90	7,596.1	-91.7	111.1	382,629.04	701,663.29	32° 3' 1.048 N	103° 40' 56.806 W
7,700.0	0.89	209.16	7,696.1	-92.8	110.5	382,628.03	701,662.65	32° 3' 1.038 N	103° 40' 56.813 W
7,800.0	0.88	209.21	7,796.0	-94.1	109.7	382,626.68	701,661.89	32° 3' 1.025 N	103° 40' 56.822 W
7,900.0	0.89	189.88	7,896.0	-95.5	109.2	382,625.25	701,661.39	32° 3' 1.011 N	103° 40' 56.828 W
8,000.0	0.70	192.21	7,996.0	-96.9	109.0	382,623.88	701,661.12	32° 3' 0.997 N	103° 40' 56.831 W
8,100.0	0.63	205.86	8,096.0	-98.0	108.6	382,622.79	701,660.75	32° 3' 0.987 N	103° 40' 56.836 W
8,200.0	1.03	220.06	8,196.0	-99.2	107.8	382,621.61	701,659.94	32° 3' 0.975 N	103° 40' 56.845 W
8,300.0	1.03	219.28	8,296.0	-100.6	106.6	382,620.22	701,658.79	32° 3' 0.961 N	103° 40' 56.859 W
8,400.0	0.84	220.00	8,396.0	-101.8	105.6	382,618.97	701,657.75	32° 3' 0.949 N	103° 40' 56.871 W
8,500.0	1.26	239.78	8,496.0	-102.9	104.2	382,617.85	701,656.33	32° 3' 0.938 N	103° 40' 56.888 W
8,599.0	1.69	237.29	8,594.9	-104.3	102.0	382,616.52	701,654.16	32° 3' 0.925 N	103° 40' 56.913 W
8599' MD MS Gyro Survey									
8,653.0	1.50	243.30	8,648.9	-105.0	100.7	382,615.77	701,652.86	32° 3' 0.917 N	103° 40' 56.928 W
8,685.0	1.40	294.50	8,680.9	-105.0	100.0	382,615.74	701,652.13	32° 3' 0.917 N	103° 40' 56.936 W
8,716.0	3.70	350.60	8,711.9	-103.9	99.4	382,616.89	701,651.62	32° 3' 0.929 N	103° 40' 56.942 W
8,748.0	7.00	352.80	8,743.7	-101.0	99.0	382,619.84	701,651.20	32° 3' 0.958 N	103° 40' 56.947 W
8,780.0	11.30	356.20	8,775.3	-95.9	98.6	382,624.91	701,650.75	32° 3' 1.008 N	103° 40' 56.952 W
8,812.0	14.60	356.70	8,806.5	-88.7	98.1	382,632.06	701,650.31	32° 3' 1.079 N	103° 40' 56.956 W
8,843.0	16.90	357.70	8,836.3	-80.3	97.7	382,640.47	701,649.91	32° 3' 1.162 N	103° 40' 56.961 W
8,875.0	19.30	357.90	8,866.7	-70.4	97.4	382,650.40	701,649.53	32° 3' 1.260 N	103° 40' 56.964 W
8,907.0	21.60	356.40	8,896.7	-59.2	96.8	382,661.56	701,648.96	32° 3' 1.371 N	103° 40' 56.970 W
8,938.0	23.90	355.80	8,925.3	-47.3	96.0	382,673.52	701,648.14	32° 3' 1.489 N	103° 40' 56.979 W
8,970.0	26.20	355.80	8,954.3	-33.8	95.0	382,687.04	701,647.15	32° 3' 1.623 N	103° 40' 56.989 W
9,002.0	28.10	355.40	8,982.8	-19.2	93.9	382,701.59	701,646.03	32° 3' 1.767 N	103° 40' 57.001 W
9,033.0	30.50	355.20	9,009.8	-4.1	92.6	382,716.71	701,644.79	32° 3' 1.917 N	103° 40' 57.015 W
9,065.0	33.80	355.50	9,036.9	12.9	91.2	382,733.68	701,643.41	32° 3' 2.085 N	103° 40' 57.030 W
9,097.0	36.40	355.20	9,063.1	31.2	89.7	382,752.02	701,641.91	32° 3' 2.266 N	103° 40' 57.046 W
9,129.0	39.30	355.20	9,088.3	50.8	88.1	382,771.58	701,640.27	32° 3' 2.460 N	103° 40' 57.063 W
9,160.0	42.30	356.20	9,111.8	71.0	86.6	382,791.78	701,638.76	32° 3' 2.660 N	103° 40' 57.079 W
9,192.0	45.50	357.20	9,134.9	93.1	85.3	382,813.93	701,637.49	32° 3' 2.879 N	103° 40' 57.093 W
9,224.0	48.30	358.10	9,156.7	116.5	84.4	382,837.27	701,636.53	32° 3' 3.110 N	103° 40' 57.102 W
9,255.0	51.00	357.90	9,176.8	140.1	83.5	382,860.88	701,635.71	32° 3' 3.344 N	103° 40' 57.110 W
9,287.0	53.20	357.80	9,196.4	165.3	82.6	382,886.11	701,634.76	32° 3' 3.594 N	103° 40' 57.119 W
9,319.0	55.30	357.80	9,215.1	191.3	81.6	382,912.06	701,633.76	32° 3' 3.851 N	103° 40' 57.129 W
9,350.0	58.90	357.90	9,232.0	217.3	80.6	382,938.07	701,632.79	32° 3' 4.108 N	103° 40' 57.139 W
9,382.0	61.10	357.80	9,248.0	245.0	79.6	382,965.76	701,631.75	32° 3' 4.382 N	103° 40' 57.149 W
9,414.0	63.30	357.50	9,262.9	273.2	78.4	382,994.04	701,630.59	32° 3' 4.662 N	103° 40' 57.160 W
9,446.0	65.70	356.50	9,276.7	302.1	76.9	383,022.88	701,629.07	32° 3' 4.948 N	103° 40' 57.176 W
9,477.0	67.90	355.00	9,288.9	330.5	74.8	383,051.29	701,626.96	32° 3' 5.229 N	103° 40' 57.198 W
9,509.0	70.30	354.10	9,300.3	360.3	71.9	383,081.05	701,624.12	32° 3' 5.524 N	103° 40' 57.229 W
9,541.0	72.70	354.30	9,310.4	390.4	68.9	383,111.24	701,621.05	32° 3' 5.823 N	103° 40' 57.263 W
9,573.0	75.70	354.40	9,319.2	421.1	65.8	383,141.88	701,618.02	32° 3' 6.126 N	103° 40' 57.296 W
9,604.0	79.60	354.30	9,325.8	451.2	62.9	383,172.01	701,615.04	32° 3' 6.424 N	103° 40' 57.328 W
9,636.0	84.60	354.20	9,330.2	482.7	59.7	383,203.53	701,611.86	32° 3' 6.736 N	103° 40' 57.363 W
9,668.0	88.30	354.30	9,332.2	514.5	56.5	383,235.31	701,608.67	32° 3' 7.051 N	103° 40' 57.398 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20' @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20' @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,698.0	91.20	353.20	9,332.3	544.3	53.2	383,265.12	701,605.40	32° 3' 7.346 N	103° 40' 57.434 W	
9,729.0	92.70	353.10	9,331.2	575.1	49.5	383,295.88	701,601.70	32° 3' 7.651 N	103° 40' 57.475 W	
9,761.0	93.40	353.60	9,329.5	606.8	45.8	383,327.62	701,598.00	32° 3' 7.965 N	103° 40' 57.515 W	
9,793.0	92.80	354.60	9,327.8	638.6	42.5	383,359.41	701,594.72	32° 3' 8.280 N	103° 40' 57.551 W	
9,825.0	91.30	355.10	9,326.7	670.5	39.7	383,391.26	701,591.85	32° 3' 8.595 N	103° 40' 57.583 W	
9,856.0	91.20	355.20	9,326.0	701.3	37.1	383,422.14	701,589.23	32° 3' 8.901 N	103° 40' 57.611 W	
9,888.0	91.10	355.10	9,325.3	733.2	34.4	383,454.02	701,586.52	32° 3' 9.217 N	103° 40' 57.640 W	
9,920.0	90.10	356.10	9,325.0	765.1	31.9	383,485.92	701,584.07	32° 3' 9.533 N	103° 40' 57.666 W	
9,951.0	89.80	357.20	9,325.0	796.1	30.1	383,516.87	701,582.26	32° 3' 9.839 N	103° 40' 57.685 W	
9,983.0	89.30	358.20	9,325.3	828.0	28.8	383,548.84	701,580.97	32° 3' 10.155 N	103° 40' 57.698 W	
10,014.0	89.70	358.40	9,325.6	859.0	27.9	383,579.82	701,580.05	32° 3' 10.462 N	103° 40' 57.706 W	
10,046.0	88.80	359.80	9,326.0	891.0	27.4	383,611.82	701,579.55	32° 3' 10.779 N	103° 40' 57.710 W	
10,078.0	89.20	0.70	9,326.5	923.0	27.5	383,643.81	701,579.69	32° 3' 11.095 N	103° 40' 57.706 W	
10,109.0	89.50	0.30	9,326.9	954.0	27.8	383,674.81	701,579.96	32° 3' 11.402 N	103° 40' 57.701 W	
10,141.0	90.00	0.60	9,327.0	986.0	28.0	383,706.81	701,580.21	32° 3' 11.719 N	103° 40' 57.696 W	
10,173.0	90.40	0.60	9,326.9	1,018.0	28.4	383,738.80	701,580.55	32° 3' 12.035 N	103° 40' 57.689 W	
10,205.0	91.20	0.60	9,326.5	1,050.0	28.7	383,770.80	701,580.88	32° 3' 12.352 N	103° 40' 57.683 W	
10,236.0	91.20	0.70	9,325.8	1,081.0	29.1	383,801.79	701,581.23	32° 3' 12.659 N	103° 40' 57.677 W	
10,268.0	91.50	0.50	9,325.1	1,113.0	29.4	383,833.78	701,581.57	32° 3' 12.975 N	103° 40' 57.671 W	
10,299.0	90.30	0.00	9,324.6	1,144.0	29.5	383,864.77	701,581.70	32° 3' 13.282 N	103° 40' 57.667 W	
10,331.0	90.30	359.90	9,324.4	1,176.0	29.5	383,896.77	701,581.68	32° 3' 13.599 N	103° 40' 57.665 W	
10,363.0	88.90	359.60	9,324.6	1,208.0	29.4	383,928.77	701,581.54	32° 3' 13.915 N	103° 40' 57.665 W	
10,395.0	88.90	359.40	9,325.3	1,240.0	29.1	383,960.76	701,581.26	32° 3' 14.232 N	103° 40' 57.666 W	
10,426.0	89.40	359.30	9,325.7	1,271.0	28.7	383,991.76	701,580.91	32° 3' 14.539 N	103° 40' 57.668 W	
10,458.0	89.80	359.40	9,325.9	1,303.0	28.4	384,023.76	701,580.54	32° 3' 14.855 N	103° 40' 57.670 W	
10,490.0	90.30	359.30	9,325.9	1,335.0	28.0	384,055.75	701,580.18	32° 3' 15.172 N	103° 40' 57.672 W	
10,522.0	90.70	359.30	9,325.6	1,367.0	27.6	384,087.75	701,579.79	32° 3' 15.489 N	103° 40' 57.674 W	
10,554.0	91.30	359.40	9,325.1	1,399.0	27.3	384,119.74	701,579.43	32° 3' 15.805 N	103° 40' 57.676 W	
10,585.0	90.30	359.40	9,324.6	1,429.9	26.9	384,150.74	701,579.10	32° 3' 16.112 N	103° 40' 57.677 W	
10,617.0	90.40	359.40	9,324.4	1,461.9	26.6	384,182.74	701,578.77	32° 3' 16.429 N	103° 40' 57.679 W	
10,649.0	90.90	359.50	9,324.1	1,493.9	26.3	384,214.73	701,578.46	32° 3' 16.745 N	103° 40' 57.680 W	
10,680.0	91.40	359.40	9,323.5	1,524.9	26.0	384,245.72	701,578.16	32° 3' 17.052 N	103° 40' 57.682 W	
10,712.0	90.30	359.40	9,323.0	1,556.9	25.7	384,277.72	701,577.83	32° 3' 17.369 N	103° 40' 57.683 W	
10,743.0	90.10	359.40	9,322.9	1,587.9	25.3	384,308.72	701,577.50	32° 3' 17.675 N	103° 40' 57.685 W	
10,775.0	90.50	359.40	9,322.7	1,619.9	25.0	384,340.71	701,577.17	32° 3' 17.992 N	103° 40' 57.687 W	
10,806.0	90.80	359.60	9,322.4	1,650.9	24.7	384,371.71	701,576.90	32° 3' 18.299 N	103° 40' 57.688 W	
10,838.0	91.30	359.40	9,321.8	1,682.9	24.4	384,403.70	701,576.62	32° 3' 18.615 N	103° 40' 57.689 W	
10,870.0	90.20	359.40	9,321.3	1,714.9	24.1	384,435.70	701,576.28	32° 3' 18.932 N	103° 40' 57.690 W	
10,902.0	90.20	359.00	9,321.2	1,746.9	23.7	384,467.70	701,575.84	32° 3' 19.249 N	103° 40' 57.693 W	
10,933.0	90.60	358.90	9,321.0	1,777.9	23.1	384,498.69	701,575.27	32° 3' 19.556 N	103° 40' 57.698 W	
10,965.0	91.00	358.80	9,320.6	1,809.9	22.5	384,530.68	701,574.63	32° 3' 19.872 N	103° 40' 57.703 W	
10,997.0	89.80	358.90	9,320.3	1,841.9	21.8	384,562.67	701,573.98	32° 3' 20.189 N	103° 40' 57.708 W	
11,029.0	89.70	359.30	9,320.5	1,873.9	21.3	384,594.67	701,573.48	32° 3' 20.505 N	103° 40' 57.712 W	
11,060.0	90.00	358.80	9,320.6	1,904.9	20.8	384,625.66	701,572.97	32° 3' 20.812 N	103° 40' 57.715 W	
11,092.0	90.10	358.70	9,320.5	1,936.9	20.1	384,657.66	701,572.27	32° 3' 21.129 N	103° 40' 57.721 W	
11,122.0	90.30	358.60	9,320.4	1,966.9	19.4	384,687.65	701,571.56	32° 3' 21.426 N	103° 40' 57.727 W	
11,154.0	90.10	358.60	9,320.3	1,998.8	18.6	384,719.64	701,570.78	32° 3' 21.742 N	103° 40' 57.734 W	
11,186.0	89.80	358.20	9,320.4	2,030.8	17.7	384,751.62	701,569.89	32° 3' 22.059 N	103° 40' 57.742 W	
11,217.0	90.20	358.10	9,320.4	2,061.8	16.7	384,782.61	701,568.89	32° 3' 22.366 N	103° 40' 57.752 W	
11,249.0	90.70	357.90	9,320.1	2,093.8	15.6	384,814.59	701,567.77	32° 3' 22.682 N	103° 40' 57.763 W	
11,281.0	91.20	358.10	9,319.6	2,125.8	14.5	384,846.56	701,566.65	32° 3' 22.999 N	103° 40' 57.773 W	
11,313.0	92.00	358.10	9,318.7	2,157.7	13.4	384,878.53	701,565.59	32° 3' 23.315 N	103° 40' 57.783 W	
11,344.0	91.20	358.60	9,317.8	2,188.7	12.5	384,909.51	701,564.70	32° 3' 23.622 N	103° 40' 57.792 W	
11,376.0	91.50	358.70	9,317.1	2,220.7	11.8	384,941.49	701,563.95	32° 3' 23.938 N	103° 40' 57.798 W	
11,407.0	92.10	358.80	9,316.1	2,251.7	11.1	384,972.47	701,563.27	32° 3' 24.245 N	103° 40' 57.804 W	



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,439.0	91.00	359.50	9,315.2	2,283.7	10.6	385,004.45	701,562.80	32° 3' 24.561 N	103° 40' 57.807 W
11,471.0	90.70	359.90	9,314.7	2,315.7	10.5	385,036.45	701,562.63	32° 3' 24.878 N	103° 40' 57.807 W
11,502.0	89.90	0.60	9,314.6	2,346.7	10.6	385,067.45	701,562.76	32° 3' 25.185 N	103° 40' 57.803 W
11,534.0	90.20	0.70	9,314.6	2,378.7	11.0	385,099.44	701,563.13	32° 3' 25.501 N	103° 40' 57.797 W
11,566.0	90.10	0.60	9,314.5	2,410.7	11.3	385,131.44	701,563.49	32° 3' 25.818 N	103° 40' 57.790 W
11,598.0	89.10	359.80	9,314.7	2,442.6	11.4	385,163.44	701,563.60	32° 3' 26.135 N	103° 40' 57.787 W
11,629.0	88.60	359.60	9,315.3	2,473.6	11.3	385,194.43	701,563.44	32° 3' 26.441 N	103° 40' 57.786 W
11,661.0	88.90	359.40	9,316.0	2,505.6	11.0	385,226.43	701,563.16	32° 3' 26.758 N	103° 40' 57.787 W
11,693.0	89.60	359.40	9,316.4	2,537.6	10.7	385,258.42	701,562.82	32° 3' 27.075 N	103° 40' 57.789 W
11,724.0	90.20	359.50	9,316.5	2,568.6	10.4	385,289.42	701,562.53	32° 3' 27.381 N	103° 40' 57.790 W
11,756.0	90.70	359.40	9,316.2	2,600.6	10.0	385,321.42	701,562.22	32° 3' 27.698 N	103° 40' 57.792 W
11,788.0	91.40	0.00	9,315.7	2,632.6	9.9	385,353.41	701,562.05	32° 3' 28.015 N	103° 40' 57.791 W
11,820.0	92.00	0.10	9,314.7	2,664.6	9.9	385,385.40	701,562.08	32° 3' 28.331 N	103° 40' 57.789 W
11,851.0	90.50	0.10	9,314.0	2,695.6	10.0	385,416.39	701,562.13	32° 3' 28.638 N	103° 40' 57.786 W
11,883.0	90.20	0.10	9,313.8	2,727.6	10.0	385,448.39	701,562.19	32° 3' 28.955 N	103° 40' 57.783 W
11,915.0	90.50	0.10	9,313.6	2,759.6	10.1	385,480.39	701,562.25	32° 3' 29.271 N	103° 40' 57.780 W
11,947.0	90.90	0.10	9,313.2	2,791.6	10.1	385,512.38	701,562.30	32° 3' 29.588 N	103° 40' 57.777 W
11,979.0	91.60	359.60	9,312.5	2,823.6	10.0	385,544.38	701,562.22	32° 3' 29.904 N	103° 40' 57.776 W
12,010.0	92.00	359.90	9,311.6	2,854.6	9.9	385,575.36	701,562.08	32° 3' 30.211 N	103° 40' 57.775 W
12,042.0	90.50	0.30	9,310.9	2,886.6	10.0	385,607.35	701,562.14	32° 3' 30.528 N	103° 40' 57.773 W
12,074.0	90.30	0.80	9,310.6	2,918.6	10.3	385,639.35	701,562.45	32° 3' 30.844 N	103° 40' 57.767 W
12,105.0	90.70	0.90	9,310.4	2,949.6	10.7	385,670.34	701,562.91	32° 3' 31.151 N	103° 40' 57.759 W
12,137.0	91.40	1.00	9,309.8	2,981.5	11.3	385,702.33	701,563.44	32° 3' 31.468 N	103° 40' 57.751 W
12,169.0	89.60	0.80	9,309.5	3,013.5	11.8	385,734.33	701,563.94	32° 3' 31.784 N	103° 40' 57.743 W
12,201.0	89.30	0.90	9,309.8	3,045.5	12.2	385,766.32	701,564.41	32° 3' 32.101 N	103° 40' 57.735 W
12,233.0	90.10	1.20	9,310.0	3,077.5	12.8	385,798.32	701,565.00	32° 3' 32.417 N	103° 40' 57.726 W
12,265.0	90.60	1.80	9,309.8	3,109.5	13.7	385,830.30	701,565.84	32° 3' 32.734 N	103° 40' 57.714 W
12,297.0	91.30	1.90	9,309.3	3,141.5	14.7	385,862.28	701,566.87	32° 3' 33.050 N	103° 40' 57.700 W
12,328.0	90.10	1.00	9,308.9	3,172.5	15.5	385,893.27	701,567.65	32° 3' 33.357 N	103° 40' 57.688 W
12,360.0	90.20	0.80	9,308.8	3,204.5	16.0	385,925.27	701,568.16	32° 3' 33.673 N	103° 40' 57.680 W
12,392.0	89.80	0.70	9,308.8	3,236.5	16.4	385,957.26	701,568.58	32° 3' 33.990 N	103° 40' 57.673 W
12,424.0	89.80	0.60	9,308.9	3,268.5	16.8	385,989.26	701,568.94	32° 3' 34.307 N	103° 40' 57.667 W
12,455.0	90.40	359.80	9,308.9	3,299.5	16.9	386,020.26	701,569.05	32° 3' 34.613 N	103° 40' 57.663 W
12,487.0	90.70	359.60	9,308.5	3,331.5	16.7	386,052.26	701,568.88	32° 3' 34.930 N	103° 40' 57.663 W
12,519.0	90.80	359.50	9,308.1	3,363.5	16.5	386,084.26	701,568.63	32° 3' 35.247 N	103° 40' 57.664 W
12,550.0	90.80	359.40	9,307.7	3,394.5	16.2	386,115.25	701,568.33	32° 3' 35.553 N	103° 40' 57.665 W
12,582.0	90.90	359.60	9,307.2	3,426.5	15.9	386,147.25	701,568.05	32° 3' 35.870 N	103° 40' 57.666 W
12,614.0	91.10	359.40	9,306.7	3,458.4	15.6	386,179.24	701,567.77	32° 3' 36.187 N	103° 40' 57.667 W
12,646.0	91.20	359.50	9,306.0	3,490.4	15.3	386,211.23	701,567.47	32° 3' 36.503 N	103° 40' 57.668 W
12,677.0	91.10	359.50	9,305.4	3,521.4	15.0	386,242.22	701,567.20	32° 3' 36.810 N	103° 40' 57.669 W
12,709.0	91.10	359.40	9,304.8	3,553.4	14.7	386,274.22	701,566.89	32° 3' 37.127 N	103° 40' 57.671 W
12,741.0	91.20	359.30	9,304.1	3,585.4	14.4	386,306.21	701,566.53	32° 3' 37.443 N	103° 40' 57.673 W
12,772.0	91.30	359.00	9,303.5	3,616.4	13.9	386,337.20	701,566.07	32° 3' 37.750 N	103° 40' 57.676 W
12,804.0	91.20	359.00	9,302.8	3,648.4	13.3	386,369.19	701,565.51	32° 3' 38.067 N	103° 40' 57.680 W
12,836.0	91.40	358.90	9,302.0	3,680.4	12.8	386,401.17	701,564.92	32° 3' 38.383 N	103° 40' 57.685 W
12,868.0	91.40	358.80	9,301.3	3,712.4	12.1	386,433.16	701,564.28	32° 3' 38.700 N	103° 40' 57.690 W
12,899.0	90.50	359.20	9,300.7	3,743.4	11.6	386,464.15	701,563.74	32° 3' 39.006 N	103° 40' 57.694 W
12,931.0	90.10	359.10	9,300.6	3,775.4	11.1	386,496.14	701,563.26	32° 3' 39.323 N	103° 40' 57.697 W
12,963.0	90.20	359.10	9,300.5	3,807.3	10.6	386,528.14	701,562.76	32° 3' 39.640 N	103° 40' 57.701 W
12,995.0	90.50	359.00	9,300.3	3,839.3	10.1	386,560.13	701,562.23	32° 3' 39.956 N	103° 40' 57.705 W
13,027.0	90.60	358.80	9,300.0	3,871.3	9.4	386,592.13	701,561.62	32° 3' 40.273 N	103° 40' 57.710 W
13,058.0	90.50	358.90	9,299.7	3,902.3	8.8	386,623.12	701,560.99	32° 3' 40.580 N	103° 40' 57.715 W
13,090.0	90.50	359.00	9,299.4	3,934.3	8.2	386,655.11	701,560.41	32° 3' 40.896 N	103° 40' 57.719 W
13,122.0	90.60	359.10	9,299.1	3,966.3	7.7	386,687.11	701,559.88	32° 3' 41.213 N	103° 40' 57.723 W
13,153.0	90.70	359.00	9,298.8	3,997.3	7.2	386,718.10	701,559.36	32° 3' 41.520 N	103° 40' 57.727 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Red Hills West Unit #006H
Project:	Lea County N.M.	TVD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Site:	Section 9-26S-32E Red Hills West Unit #006H	MD Reference:	GL 3203 + 20 @ 3223.0usft (Patterson 36)
Well:	Red Hills West Unit #006H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,182.0	90.90	358.70	9,298.4	4,026.3	6.6	386,747.09	701,558.78	32° 3' 41.807 N	103° 40' 57.732 W
13,213.0	90.80	358.70	9,297.9	4,057.3	5.9	386,778.08	701,558.08	32° 3' 42.113 N	103° 40' 57.738 W
13,245.0	90.70	358.60	9,297.5	4,089.3	5.2	386,810.07	701,557.32	32° 3' 42.430 N	103° 40' 57.744 W
13,275.0	90.90	359.00	9,297.1	4,119.3	4.5	386,840.06	701,556.70	32° 3' 42.727 N	103° 40' 57.749 W
13,307.0	90.50	358.80	9,296.7	4,151.3	3.9	386,872.05	701,556.08	32° 3' 43.043 N	103° 40' 57.754 W
13,339.0	89.30	359.30	9,296.7	4,183.3	3.4	386,904.04	701,555.55	32° 3' 43.360 N	103° 40' 57.758 W
13,370.0	89.00	358.80	9,297.2	4,214.2	2.9	386,935.04	701,555.04	32° 3' 43.667 N	103° 40' 57.762 W
13,402.0	89.00	358.30	9,297.7	4,246.2	2.1	386,967.02	701,554.23	32° 3' 43.983 N	103° 40' 57.769 W
13,434.0	89.80	358.80	9,298.1	4,278.2	1.2	386,999.01	701,553.42	32° 3' 44.300 N	103° 40' 57.776 W
13,465.0	90.00	358.70	9,298.1	4,309.2	0.6	387,030.00	701,552.74	32° 3' 44.607 N	103° 40' 57.782 W
13,497.0	90.00	358.70	9,298.1	4,341.2	-0.2	387,061.99	701,552.02	32° 3' 44.923 N	103° 40' 57.788 W
13,529.0	90.50	358.70	9,298.0	4,373.2	-0.9	387,093.98	701,551.29	32° 3' 45.240 N	103° 40' 57.794 W
13,561.0	91.20	359.80	9,297.5	4,405.2	-1.3	387,125.98	701,550.87	32° 3' 45.557 N	103° 40' 57.797 W
13,593.0	91.40	0.00	9,296.8	4,437.2	-1.4	387,157.97	701,550.81	32° 3' 45.873 N	103° 40' 57.795 W
13,624.0	91.80	359.90	9,295.9	4,468.2	-1.4	387,188.96	701,550.79	32° 3' 46.180 N	103° 40' 57.794 W
13,656.0	92.20	359.80	9,294.8	4,500.1	-1.5	387,220.94	701,550.70	32° 3' 46.496 N	103° 40' 57.792 W
13,688.0	90.60	0.10	9,294.0	4,532.1	-1.5	387,252.93	701,550.68	32° 3' 46.813 N	103° 40' 57.790 W
13,719.0	90.50	0.30	9,293.7	4,563.1	-1.4	387,283.93	701,550.78	32° 3' 47.120 N	103° 40' 57.787 W
13,751.0	90.90	0.30	9,293.3	4,595.1	-1.2	387,315.92	701,550.95	32° 3' 47.436 N	103° 40' 57.783 W
13,980.0	90.90	0.30	9,289.7	4,824.1	0.0	387,544.89	701,552.15	32° 3' 49.702 N	103° 40' 57.753 W
13980' MD Projected to Bit									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
LP Red Hills West #01	-	0.00	0.00	9,333.0	536.1	-7.0	383,256.89	701,545.13	32° 3' 7.268 N 103° 40' 58.135 W
- actual wellpath misses target center by 60.8usft at 9696.4usft MD (9332.3 TVD, 542.7 N, 53.4 E)									
- Point									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,599.0	8,594.9	-104.3	102.0	8599' MD MS Gyro Survey
13,980.0	9,289.7	4,824.1	0.0	13980' MD Projected to Bit