



Mewbourne Oil Company .

Eddy County, New Mexico

Section 33-4 23S-28E Foreigner 33-4 W2LM Fee 1H

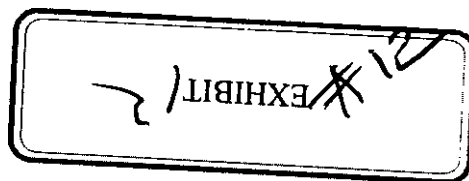
Foreigner 33-4 W2LM Fee #1H

Original Hole

Plan: Plan#3

Standard Planning Report

24 January, 2016





Stryker Directional Planning Report



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Foreigner 33-4 W2LM Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	3101 + 27 @ 3128.0usft (Patterson 250)
Project:	Eddy County, New Mexico	MD Reference:	3101 + 27 @ 3128.0usft (Patterson 250)
Site:	Section 33-4 23S-28E Foreigner 33-4 W2LM Fee 1H	North Reference:	Grid
Well:	Foreigner 33-4 W2LM Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#3		

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 33-4 23S-28E Foreigner 33-4 W2LM Fee 1H		
Site Position:	Northings:	458,693.20 usft	Latitude: 32° 15' 39.050 N
From: Map	Easting:	572,429.90 usft	Longitude: 104° 5' 56.468 W
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "		Grid Convergence: 0.13 °

Well	Foreigner 33-4 W2LM Fee #1H		
Well Position	+N/-S 0.0 usft	Northings: 458,693.20 usft	Latitude: 32° 15' 39.050 N
	+E/-W 0.0 usft	Easting: 572,429.90 usft	Longitude: 104° 5' 56.468 W
Position Uncertainty 0.0 usft		Wellhead Elevation: 27.0 usft	Ground Level: 3,101.0 usft

Wellbore	Original Hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/5/2016	7.36	60.03	48,054

Design	Plan#3		
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Audit Notes:			
Version:	Phase: PLAN	Tie On Depth:	9,600.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	178.03

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
9,600.0	0.11	152.83	9,596.5	-42.9	-85.5	0.00	0.00	0.00	0.00	
9,820.0	0.11	152.83	9,816.5	-43.3	-85.3	0.00	0.00	0.00	0.00	
10,119.3	30.00	103.65	10,102.2	-61.6	-10.8	10.00	9.99	-16.43	-49.32	
10,863.4	89.15	174.49	10,495.8	-558.9	249.2	10.72	7.95	9.52	73.67	
10,879.5	89.15	174.49	10,496.0	-575.0	250.7	0.00	0.00	0.00	0.00	New LP
11,162.5	89.96	180.09	10,498.2	-857.5	264.1	2.00	0.29	1.98	81.78	
17,674.1	89.96	180.09	10,503.0	-7,369.1	253.3	0.00	0.00	0.00	0.00	PBHL Foreigner 33



Stryker Directional Planning Report



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Company:	Mewbourne Oil Company	TVD Reference:	3101 + 27 @ 3128.0usft (Patterson 250)
Project:	Eddy County, New Mexico	MD Reference:	3101 + 27 @ 3128.0usft (Patterson 250)
Site:	Section 33-4 23S-28E Foreigner 33-4 W2LM Fee 1H	North Reference:	Grid
Well:	Foreigner 33-4 W2LM Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#3		

Planned 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	1.21	263.81	100.0	-0.1	-1.0	0.1	1.21	1.21	0.00	
200.0	1.55	253.92	200.0	-0.6	-3.4	0.5	0.41	0.34	-9.89	
300.0	1.46	240.80	299.9	-1.6	-5.8	1.4	0.36	-0.09	-13.12	
400.0	1.14	219.59	399.9	-3.0	-7.6	2.7	0.57	-0.32	-21.21	
500.0	1.55	191.23	499.9	-5.1	-8.5	4.8	0.77	0.41	-28.36	
600.0	1.43	200.68	599.8	-7.6	-9.2	7.3	0.27	-0.12	9.45	
700.0	1.51	182.92	699.8	-10.1	-9.7	9.7	0.46	0.08	-17.76	
800.0	1.58	198.03	799.8	-12.7	-10.2	12.3	0.41	0.07	15.11	
900.0	1.06	190.83	899.7	-14.9	-10.8	14.5	0.54	-0.52	-7.20	
1,000.0	0.64	198.01	999.7	-16.3	-11.1	16.0	0.43	-0.42	7.18	
1,100.0	0.89	201.22	1,099.7	-17.6	-11.6	17.2	0.25	0.25	3.21	
1,200.0	0.52	247.07	1,199.7	-18.5	-12.3	18.1	0.65	-0.37	45.85	
1,300.0	0.65	255.63	1,299.7	-18.8	-13.2	18.4	0.16	0.13	8.56	
1,400.0	0.68	259.90	1,399.7	-19.1	-14.4	18.6	0.06	0.03	4.27	
1,500.0	0.66	274.61	1,499.7	-19.1	-15.5	18.6	0.17	-0.02	14.71	
1,600.0	0.42	313.17	1,599.7	-18.8	-16.4	18.2	0.42	-0.24	38.56	
1,700.0	0.37	100.95	1,699.7	-18.6	-16.3	18.1	0.76	-0.05	147.78	
1,800.0	1.92	87.34	1,799.7	-18.6	-14.3	18.1	1.56	1.55	-13.61	
1,900.0	2.50	85.09	1,899.6	-18.4	-10.5	18.0	0.59	0.58	-2.25	
2,000.0	1.99	82.59	1,999.5	-17.9	-6.6	17.7	0.52	-0.51	-2.50	
2,100.0	2.40	91.59	2,099.4	-17.8	-2.8	17.7	0.53	0.41	9.00	
2,200.0	3.30	90.70	2,199.3	-17.9	2.2	17.9	0.90	0.90	-0.89	
2,300.0	3.07	106.83	2,299.2	-18.7	7.6	18.9	0.92	-0.23	16.13	
2,400.0	1.22	120.28	2,399.1	-20.0	11.1	20.4	1.90	-1.85	13.45	
2,500.0	0.39	160.29	2,499.1	-20.8	12.2	21.3	0.95	-0.83	40.01	
2,600.0	0.91	227.73	2,599.1	-21.7	11.7	22.1	0.84	0.52	67.44	
2,700.0	0.58	233.75	2,699.1	-22.5	10.7	22.9	0.34	-0.33	6.02	
2,800.0	0.97	247.28	2,799.1	-23.2	9.5	23.5	0.43	0.39	13.53	
2,900.0	0.56	234.72	2,899.1	-23.8	8.3	24.0	0.44	-0.41	-12.56	
3,000.0	0.60	234.29	2,999.1	-24.4	7.5	24.6	0.04	0.04	-0.43	
3,100.0	0.76	234.14	3,099.0	-25.1	6.5	25.3	0.16	0.16	-0.15	
3,200.0	0.84	242.09	3,199.0	-25.8	5.4	26.0	0.14	0.08	7.95	
3,300.0	0.63	266.52	3,299.0	-26.2	4.2	26.3	0.37	-0.21	24.43	
3,400.0	1.16	281.57	3,399.0	-26.0	2.6	26.1	0.58	0.53	15.05	
3,500.0	1.50	258.96	3,499.0	-26.0	0.3	26.0	0.62	0.34	-22.61	
3,600.0	1.35	259.49	3,599.0	-26.5	-2.1	26.4	0.15	-0.15	0.53	
3,700.0	1.04	252.72	3,698.9	-27.0	-4.1	26.8	0.34	-0.31	-6.77	
3,800.0	0.68	266.62	3,798.9	-27.3	-5.6	27.1	0.41	-0.36	13.90	
3,900.0	0.77	271.13	3,898.9	-27.3	-6.8	27.1	0.11	0.09	4.51	
4,000.0	0.98	264.93	3,998.9	-27.4	-8.4	27.1	0.23	0.21	-6.20	
4,100.0	0.89	262.42	4,098.9	-27.6	-10.0	27.2	0.10	-0.09	-2.51	
4,200.0	0.74	270.57	4,198.9	-27.7	-11.4	27.2	0.19	-0.15	8.15	
4,300.0	0.55	268.43	4,298.9	-27.7	-12.5	27.2	0.19	-0.19	-2.14	
4,400.0	0.48	256.80	4,398.9	-27.8	-13.4	27.3	0.13	-0.07	-11.63	
4,500.0	0.52	256.40	4,498.9	-28.0	-14.3	27.5	0.04	0.04	-0.40	
4,600.0	0.52	261.36	4,598.9	-28.1	-15.2	27.6	0.05	0.00	4.96	
4,700.0	0.97	261.38	4,698.9	-28.3	-16.4	27.8	0.45	0.45	0.02	
4,800.0	0.59	249.51	4,798.8	-28.6	-17.8	28.0	0.41	-0.38	-11.87	
4,900.0	0.51	255.99	4,898.8	-28.9	-18.7	28.3	0.10	-0.08	6.48	
5,000.0	0.82	274.17	4,998.8	-29.0	-19.8	28.3	0.37	0.31	18.18	
5,100.0	0.78	241.96	5,098.8	-29.3	-21.1	28.5	0.45	-0.04	-32.21	
5,200.0	0.47	254.38	5,198.8	-29.7	-22.1	28.9	0.34	-0.31	12.42	



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Well:	Foreigner 33-4 W2LM Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#3		

Planned 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	0.70	253.35	5,298.8	-30.0	-23.1	29.2	0.23	0.23	-1.03
5,400.0	0.57	222.54	5,398.8	-30.5	-24.0	29.7	0.36	-0.13	-30.81
5,500.0	0.56	237.68	5,498.8	-31.1	-24.8	30.3	0.15	-0.01	15.14
5,600.0	0.85	206.79	5,598.8	-32.1	-25.5	31.2	0.47	0.29	-30.89
5,700.0	0.71	197.04	5,698.8	-33.3	-26.0	32.4	0.19	-0.14	-9.75
5,800.0	0.76	200.64	5,798.8	-34.5	-26.5	33.6	0.07	0.05	3.60
5,900.0	0.92	202.65	5,898.8	-35.9	-27.0	34.9	0.16	0.16	2.01
6,000.0	1.19	200.83	5,998.7	-37.6	-27.7	36.6	0.27	0.27	-1.82
6,100.0	1.35	222.73	6,098.7	-39.4	-28.9	38.4	0.51	0.16	21.90
6,200.0	0.60	264.00	6,198.7	-40.4	-30.2	39.3	0.98	-0.75	41.27
6,300.0	1.65	280.96	6,298.7	-40.1	-32.1	39.0	1.09	1.05	16.96
6,400.0	2.01	299.95	6,398.6	-39.0	-35.0	37.8	0.70	0.36	18.99
6,500.0	2.00	300.23	6,498.6	-37.2	-38.1	35.9	0.01	-0.01	0.28
6,600.0	2.30	320.30	6,598.5	-34.8	-40.9	33.4	0.81	0.30	20.07
6,700.0	2.52	322.33	6,698.4	-31.5	-43.5	30.0	0.24	0.22	2.03
6,800.0	3.37	331.41	6,798.3	-27.2	-46.2	25.6	0.97	0.85	9.08
6,900.0	2.68	340.37	6,898.1	-22.4	-48.4	20.8	0.83	-0.69	8.96
7,000.0	3.00	359.44	6,998.0	-17.6	-49.2	15.9	0.99	0.32	19.07
7,100.0	0.96	349.31	7,098.0	-14.2	-49.4	12.5	2.06	-2.04	-10.13
7,200.0	1.24	298.41	7,197.9	-12.8	-50.5	11.1	0.98	0.28	-50.90
7,300.0	1.14	300.09	7,297.9	-11.8	-52.3	10.0	0.11	-0.10	1.68
7,400.0	1.67	272.21	7,397.9	-11.3	-54.7	9.4	0.85	0.53	-27.88
7,500.0	2.44	255.36	7,497.8	-11.7	-58.2	9.7	0.97	0.77	-16.85
7,600.0	3.66	240.76	7,597.7	-13.8	-63.0	11.7	1.44	1.22	-14.60
7,700.0	3.34	225.69	7,697.5	-17.4	-67.9	15.1	0.97	-0.32	-15.07
7,800.0	3.27	210.19	7,797.3	-21.9	-71.4	19.5	0.89	-0.07	-15.50
7,900.0	1.95	190.49	7,897.2	-26.1	-73.1	23.5	1.58	-1.32	-19.70
8,000.0	1.18	210.67	7,997.2	-28.6	-74.0	26.1	0.94	-0.77	20.18
8,100.0	1.18	235.61	8,097.2	-30.1	-75.4	27.5	0.51	0.00	24.94
8,200.0	0.58	253.62	8,197.2	-30.8	-76.7	28.2	0.65	-0.60	18.01
8,300.0	0.76	245.16	8,297.2	-31.2	-77.8	28.6	0.20	0.18	-8.46
8,400.0	0.56	282.40	8,397.2	-31.4	-78.9	28.7	0.46	-0.20	37.24
8,500.0	4.02	267.25	8,497.1	-31.5	-82.8	28.6	3.48	3.46	-15.15
8,600.0	3.44	257.89	8,596.8	-32.3	-89.3	29.2	0.84	-0.58	-9.36
8,700.0	1.59	230.88	8,696.7	-33.8	-93.3	30.6	2.15	-1.85	-27.01
8,800.0	1.69	242.12	8,796.7	-35.4	-95.7	32.0	0.34	0.10	11.24
8,900.0	0.90	215.08	8,896.7	-36.7	-97.4	33.3	0.98	-0.79	-27.04
9,000.0	1.28	165.22	8,996.7	-38.4	-97.6	35.0	0.98	0.38	-49.86
9,100.0	2.78	100.20	9,096.6	-39.9	-94.9	36.6	2.52	1.50	-65.02
9,200.0	2.10	105.47	9,196.5	-40.8	-90.8	37.7	0.72	-0.68	5.27
9,300.0	1.18	98.41	9,296.5	-41.5	-88.0	38.4	0.94	-0.92	-7.06
9,400.0	0.54	112.57	9,396.5	-41.8	-86.5	38.8	0.67	-0.64	14.16
9,500.0	0.56	145.88	9,496.5	-42.4	-85.8	39.4	0.32	0.02	33.31
9,600.0	0.11	152.83	9,596.5	-42.9	-85.5	39.9	0.45	-0.45	6.95
9600' MD VES Gyro Survey									
9,700.0	0.11	152.83	9,696.5	-43.1	-85.4	40.1	0.00	0.00	0.00
9,800.0	0.11	152.83	9,796.5	-43.2	-85.3	40.3	0.00	0.00	0.00
9,820.0	0.11	152.83	9,816.5	-43.3	-85.3	40.3	0.00	0.00	0.00
9820' MD KOP									
9,850.0	3.07	105.06	9,846.4	-43.5	-84.5	40.6	10.00	9.88	-159.22
9,900.0	8.07	104.10	9,896.2	-44.7	-79.8	41.9	10.00	10.00	-1.93
9,950.0	13.07	103.87	9,945.3	-46.9	-70.9	44.4	10.00	10.00	-0.46
10,000.0	18.07	103.77	9,993.5	-50.1	-57.9	48.1	10.00	10.00	-0.21



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Well:	Foreigner 33-4 W2LM Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#3		

Planned 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)
10,050.0	23.07	103.71	10,040.3	-54.3	-40.8	52.8	10.00	10.00	-0.12
10,100.0	28.07	103.67	10,085.4	-59.4	-19.9	58.7	10.00	10.00	-0.08
10,119.3	30.00	103.65	10,102.2	-61.6	-10.8	61.2	10.00	10.00	-0.06
10,150.0	31.07	109.79	10,128.7	-66.1	4.2	66.2	10.72	3.49	19.97
10,200.0	33.38	118.87	10,171.0	-77.1	28.4	78.0	10.72	4.62	18.17
10,250.0	36.28	126.79	10,212.1	-92.6	52.3	94.4	10.72	5.78	15.83
10,300.0	39.62	133.61	10,251.5	-112.5	75.7	115.0	10.72	6.69	13.65
10,350.0	43.31	139.50	10,289.0	-136.5	98.4	139.8	10.72	7.38	11.77
10,400.0	47.26	144.61	10,324.2	-164.6	120.2	168.6	10.72	7.90	10.21
10,450.0	51.41	149.09	10,356.7	-196.3	140.9	201.1	10.72	8.30	8.96
10,500.0	55.71	153.07	10,386.4	-231.5	160.3	236.9	10.72	8.60	7.96
10,550.0	60.13	156.66	10,413.0	-269.9	178.2	275.8	10.72	8.84	7.18
10,600.0	64.64	159.94	10,436.2	-311.0	194.6	317.5	10.72	9.01	6.56
10,650.0	69.21	162.98	10,455.8	-354.6	209.2	361.6	10.72	9.15	6.09
10,700.0	73.84	165.84	10,471.6	-400.3	221.9	407.7	10.72	9.25	5.72
10,750.0	78.50	168.57	10,483.6	-447.6	232.6	455.4	10.72	9.32	5.46
10,800.0	83.19	171.21	10,491.5	-496.2	241.3	504.2	10.72	9.37	5.28
10,826.3	85.66	172.58	10,494.1	-522.2	245.0	530.3	10.72	9.40	5.20
LP Foreigner 33-4 W2LM Fee #1H									
10,850.0	87.89	173.80	10,495.4	-545.6	247.8	553.8	10.72	9.40	5.16
10,863.4	89.15	174.49	10,495.8	-558.9	249.2	567.2	10.72	9.41	5.15
10,879.5	89.15	174.49	10,496.0	-575.0	250.7	583.3	0.00	0.00	0.00
10879.5' MD LP - New LP									
10,900.0	89.20	174.90	10,496.3	-595.4	252.6	603.7	2.00	0.29	1.98
11,000.0	89.49	176.88	10,497.4	-695.1	259.8	703.6	2.00	0.29	1.98
11,100.0	89.78	178.86	10,498.1	-795.0	263.5	803.6	2.00	0.29	1.98
11,162.5	89.96	180.09	10,498.2	-857.5	264.1	866.1	2.00	0.29	1.98
11,200.0	89.96	180.09	10,498.2	-895.0	264.0	903.6	0.00	0.00	0.00
11,300.0	89.96	180.09	10,498.3	-995.0	263.8	1,003.5	0.00	0.00	0.00
11,400.0	89.96	180.09	10,498.4	-1,095.0	263.7	1,103.4	0.00	0.00	0.00
11,500.0	89.96	180.09	10,498.5	-1,195.0	263.5	1,203.4	0.00	0.00	0.00
11,600.0	89.96	180.09	10,498.5	-1,295.0	263.3	1,303.3	0.00	0.00	0.00
11,700.0	89.96	180.09	10,498.6	-1,395.0	263.2	1,403.2	0.00	0.00	0.00
11,800.0	89.96	180.09	10,498.7	-1,495.0	263.0	1,503.2	0.00	0.00	0.00
11,900.0	89.96	180.09	10,498.8	-1,595.0	262.8	1,603.1	0.00	0.00	0.00
12,000.0	89.96	180.09	10,498.8	-1,695.0	262.7	1,703.1	0.00	0.00	0.00
12,100.0	89.96	180.09	10,498.9	-1,795.0	262.5	1,803.0	0.00	0.00	0.00
12,200.0	89.96	180.09	10,499.0	-1,895.0	262.3	1,902.9	0.00	0.00	0.00
12,300.0	89.96	180.09	10,499.0	-1,995.0	262.2	2,002.9	0.00	0.00	0.00
12,400.0	89.96	180.09	10,499.1	-2,095.0	262.0	2,102.8	0.00	0.00	0.00
12,500.0	89.96	180.09	10,499.2	-2,195.0	261.8	2,202.7	0.00	0.00	0.00
12,600.0	89.96	180.09	10,499.3	-2,295.0	261.7	2,302.7	0.00	0.00	0.00
12,700.0	89.96	180.09	10,499.3	-2,395.0	261.5	2,402.6	0.00	0.00	0.00
12,800.0	89.96	180.09	10,499.4	-2,495.0	261.3	2,502.5	0.00	0.00	0.00
12,900.0	89.96	180.09	10,499.5	-2,595.0	261.2	2,602.5	0.00	0.00	0.00
13,000.0	89.96	180.09	10,499.6	-2,695.0	261.0	2,702.4	0.00	0.00	0.00
13,100.0	89.96	180.09	10,499.6	-2,795.0	260.8	2,802.3	0.00	0.00	0.00
13,200.0	89.96	180.09	10,499.7	-2,895.0	260.7	2,902.3	0.00	0.00	0.00
13,300.0	89.96	180.09	10,499.8	-2,995.0	260.5	3,002.2	0.00	0.00	0.00
13,400.0	89.96	180.09	10,499.9	-3,095.0	260.3	3,102.1	0.00	0.00	0.00
13,500.0	89.96	180.09	10,499.9	-3,195.0	260.2	3,202.1	0.00	0.00	0.00
13,600.0	89.96	180.09	10,500.0	-3,295.0	260.0	3,302.0	0.00	0.00	0.00
13,700.0	89.96	180.09	10,500.1	-3,395.0	259.8	3,401.9	0.00	0.00	0.00



Stryker Directional Planning Report



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Foreigner 33-4 W2LM Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	3101 + 27 @ 3128.0usft (Patterson 250)
Project:	Eddy County, New Mexico	MD Reference:	3101 + 27 @ 3128.0usft (Patterson 250)
Site:	Section 33-4 23S-28E Foreigner 33-4 W2LM Fee 1H	North Reference:	Grid
Well:	Foreigner 33-4 W2LM Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#3		

Planned 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)
13,800.0	89.96	180.09	10,500.2	-3,495.0	259.7	3,501.9	0.00	0.00	0.00
13,900.0	89.96	180.09	10,500.2	-3,595.0	259.5	3,601.8	0.00	0.00	0.00
14,000.0	89.96	180.09	10,500.3	-3,695.0	259.3	3,701.8	0.00	0.00	0.00
14,100.0	89.96	180.09	10,500.4	-3,795.0	259.2	3,801.7	0.00	0.00	0.00
14,200.0	89.96	180.09	10,500.4	-3,895.0	259.0	3,901.6	0.00	0.00	0.00
14,300.0	89.96	180.09	10,500.5	-3,995.0	258.8	4,001.6	0.00	0.00	0.00
14,400.0	89.96	180.09	10,500.6	-4,095.0	258.7	4,101.5	0.00	0.00	0.00
14,500.0	89.96	180.09	10,500.7	-4,195.0	258.5	4,201.4	0.00	0.00	0.00
14,600.0	89.96	180.09	10,500.7	-4,295.0	258.4	4,301.4	0.00	0.00	0.00
14,700.0	89.96	180.09	10,500.8	-4,395.0	258.2	4,401.3	0.00	0.00	0.00
14,800.0	89.96	180.09	10,500.9	-4,495.0	258.0	4,501.2	0.00	0.00	0.00
14,900.0	89.96	180.09	10,501.0	-4,595.0	257.9	4,601.2	0.00	0.00	0.00
15,000.0	89.96	180.09	10,501.0	-4,695.0	257.7	4,701.1	0.00	0.00	0.00
15,100.0	89.96	180.09	10,501.1	-4,795.0	257.5	4,801.0	0.00	0.00	0.00
15,200.0	89.96	180.09	10,501.2	-4,895.0	257.4	4,901.0	0.00	0.00	0.00
15,300.0	89.96	180.09	10,501.3	-4,995.0	257.2	5,000.9	0.00	0.00	0.00
15,400.0	89.96	180.09	10,501.3	-5,095.0	257.0	5,100.8	0.00	0.00	0.00
15,500.0	89.96	180.09	10,501.4	-5,195.0	256.9	5,200.8	0.00	0.00	0.00
15,600.0	89.96	180.09	10,501.5	-5,295.0	256.7	5,300.7	0.00	0.00	0.00
15,700.0	89.96	180.09	10,501.5	-5,395.0	256.5	5,400.7	0.00	0.00	0.00
15,800.0	89.96	180.09	10,501.6	-5,495.0	256.4	5,500.6	0.00	0.00	0.00
15,900.0	89.96	180.09	10,501.7	-5,595.0	256.2	5,600.5	0.00	0.00	0.00
16,000.0	89.96	180.09	10,501.8	-5,695.0	256.0	5,700.5	0.00	0.00	0.00
16,100.0	89.96	180.09	10,501.8	-5,795.0	255.9	5,800.4	0.00	0.00	0.00
16,200.0	89.96	180.09	10,501.9	-5,895.0	255.7	5,900.3	0.00	0.00	0.00
16,300.0	89.96	180.09	10,502.0	-5,995.0	255.5	6,000.3	0.00	0.00	0.00
16,400.0	89.96	180.09	10,502.1	-6,095.0	255.4	6,100.2	0.00	0.00	0.00
16,500.0	89.96	180.09	10,502.1	-6,195.0	255.2	6,200.1	0.00	0.00	0.00
16,600.0	89.96	180.09	10,502.2	-6,295.0	255.0	6,300.1	0.00	0.00	0.00
16,700.0	89.96	180.09	10,502.3	-6,395.0	254.9	6,400.0	0.00	0.00	0.00
16,800.0	89.96	180.09	10,502.4	-6,495.0	254.7	6,499.9	0.00	0.00	0.00
16,900.0	89.96	180.09	10,502.4	-6,595.0	254.5	6,599.9	0.00	0.00	0.00
17,000.0	89.96	180.09	10,502.5	-6,695.0	254.4	6,699.8	0.00	0.00	0.00
17,100.0	89.96	180.09	10,502.6	-6,795.0	254.2	6,799.7	0.00	0.00	0.00
17,200.0	89.96	180.09	10,502.7	-6,895.0	254.0	6,899.7	0.00	0.00	0.00
17,300.0	89.96	180.09	10,502.7	-6,995.0	253.9	6,999.6	0.00	0.00	0.00
17,400.0	89.96	180.09	10,502.8	-7,095.0	253.7	7,099.5	0.00	0.00	0.00
17,500.0	89.96	180.09	10,502.9	-7,195.0	253.5	7,199.5	0.00	0.00	0.00
17,600.0	89.96	180.09	10,502.9	-7,295.0	253.4	7,299.4	0.00	0.00	0.00
17,674.1	89.96	180.09	10,503.0	-7,369.1	253.3	7,373.4	0.00	0.00	0.00

17674.1' MD PBHL - PBHL Foreigner 33-4 W2LM Fee #1H



Stryker Directional Planning Report



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Foreigner 33-4 W2LM Fee #1H
Company:	Mewbourne Oil Company	TVD Reference:	3101 + 27 @ 3128.0usft (Patterson 250)
Project:	Eddy County, New Mexico	MD Reference:	3101 + 27 @ 3128.0usft (Patterson 250)
Site:	Section 33-4 23S-28E Foreigner 33-4 W2LM Fee 1H	North Reference:	Grid
Well:	Foreigner 33-4 W2LM Fee #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan#3		

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
New LP	0.00	0.00	10,496.0	-575.0	250.7	458,118.20	572,680.60	32° 15' 33.354 N	104° 5' 53.563 W
- plan hits target center									
- Point									
LP Foreigner 33-4 W2	0.00	0.00	10,496.0	-521.3	250.7	458,171.93	572,680.60	32° 15' 33.886 N	104° 5' 53.562 W
- plan misses target center by 6.1usft at 10826.3usft MD (10494.1 TVD, -522.2 N, 245.0 E)									
- Point									
PBHL Foreigner 33-4	0.00	0.00	10,503.0	-7,369.1	253.3	451,324.10	572,683.16	32° 14' 26.118 N	104° 5' 53.707 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,600.0	9,596.5	-42.9	-85.5	9600' MD VES Gyro Survey
9,820.0	9,816.5	-43.3	-85.3	9820' MD KOP
10,879.5	10,496.0	-575.0	250.7	10879.5' MD LP
17,674.1	10,503.0	-7,369.1	253.3	17674.1' MD PBHL



COMPANY: Mewbourne Oil Company
 WELL: Foreigner 33-4 W2LM Fee #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson Patterson 250



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.23°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001 3101 + 27 @ 3128.0usft (Patterson 250) GROUND ELEVATION: 3101.0										
+N/-S 0.0	+E/-W 0.0	Northing 458693.20	Easting 572429.90	Latitude 32° 15' 39.050 N	Longitude 104° 5' 56.468 W					Slot
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	9600.0	0.11	152.83	9596.5	-42.9	-85.5	0.00	0.00	39.9	
2	9820.0	0.11	152.83	9816.5	-43.3	-85.3	0.00	0.00	40.3	
3	10119.3	30.00	103.65	10102.2	-61.6	-10.8	10.00	-49.32	61.2	
4	10863.4	89.15	174.49	10495.8	-558.9	249.2	10.72	73.67	567.2	
5	10879.5	89.15	174.49	10496.0	-575.0	250.7	0.00	0.00	583.3	New LP
6	11162.5	89.96	180.09	10498.2	-857.5	264.1	2.00	81.78	866.1	
7	17674.1	89.96	180.09	10503.0	-7369.1	253.3	0.00	0.00	7373.4	PBHL Foreigner 33-4 W2LM Fee #1H



SHL 2450' FSL; 450' FWL
 Section 33-23S-28E
 PBHL 330' FSL; 700' FWL
 Section 4-24S-28E

Please stay off the West hardline

