

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
EL MAR 21 W1DM FED COM 3H
LEA COUNTY

RIG # 243

STATE OF NEW MEXICO
DEVIATION REPORT

280 0.50
750 0.75

HOBBS OGD

DEC 22 2015

RECEIVED

STATE OF TEXAS

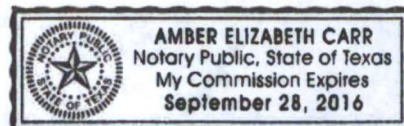
COUNTY OF MIDLAND

BY: *Dora Garcia*

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

11/6/15, by

Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:



JAN 20 2016

cy



COMPANY: Mewbourne Oil Company
WELL: El Mar 21 W1DM Fed Com #3H
COUNTY: Lea County N.M.
DATUM: NAD 1927 (NADCON CONUS)
RIG: Patterson Patterson # 243



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.74°

OFFICE: 936.582.7296

GEODETIC ZONE: New Mexico East 3001 3275 + 27 @ 3302.0usft (Patterson # 243) GROUND ELEVATION: 3275.0										Slot
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude					
0.0	0.0	377481.10	732463.50	32° 2' 8.127 N	103° 34' 59.368 W					

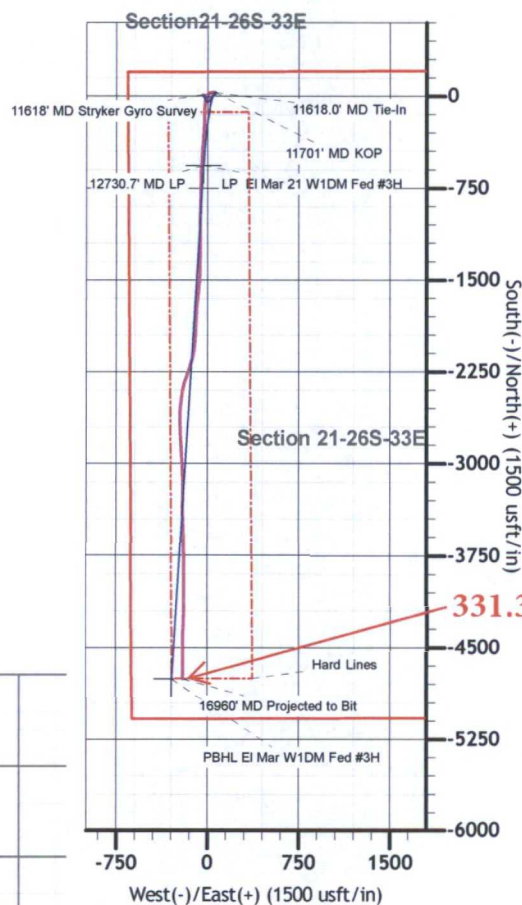
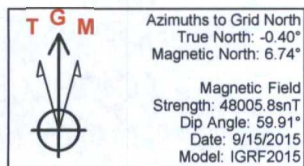
PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	11618.0	0.18	350.02	11614.1	27.8	58.3	0.00	0.00	-31.3	
2	11701.0	0.18	350.02	11697.1	28.0	58.2	0.00	0.00	-31.6	
3	11759.6	5.62	297.75	11755.6	29.5	55.7	9.40	-53.75	-32.8	
4	12730.7	88.99	183.52	12387.0	-584.2	-36.6	9.40	-114.21	565.4	LP El Mar 21 W1DM Fed #3H
5	16925.3	88.99	183.52	12461.0	-4750.3	-294.3	0.00	0.00	4759.4	PBHL El Mar W1DM Fed #3H

SHL 200' FNL; 660' FWL
Section 21-26S-33E
PBHL 330' FSL; 330' FWL
Section 21-26S-33E

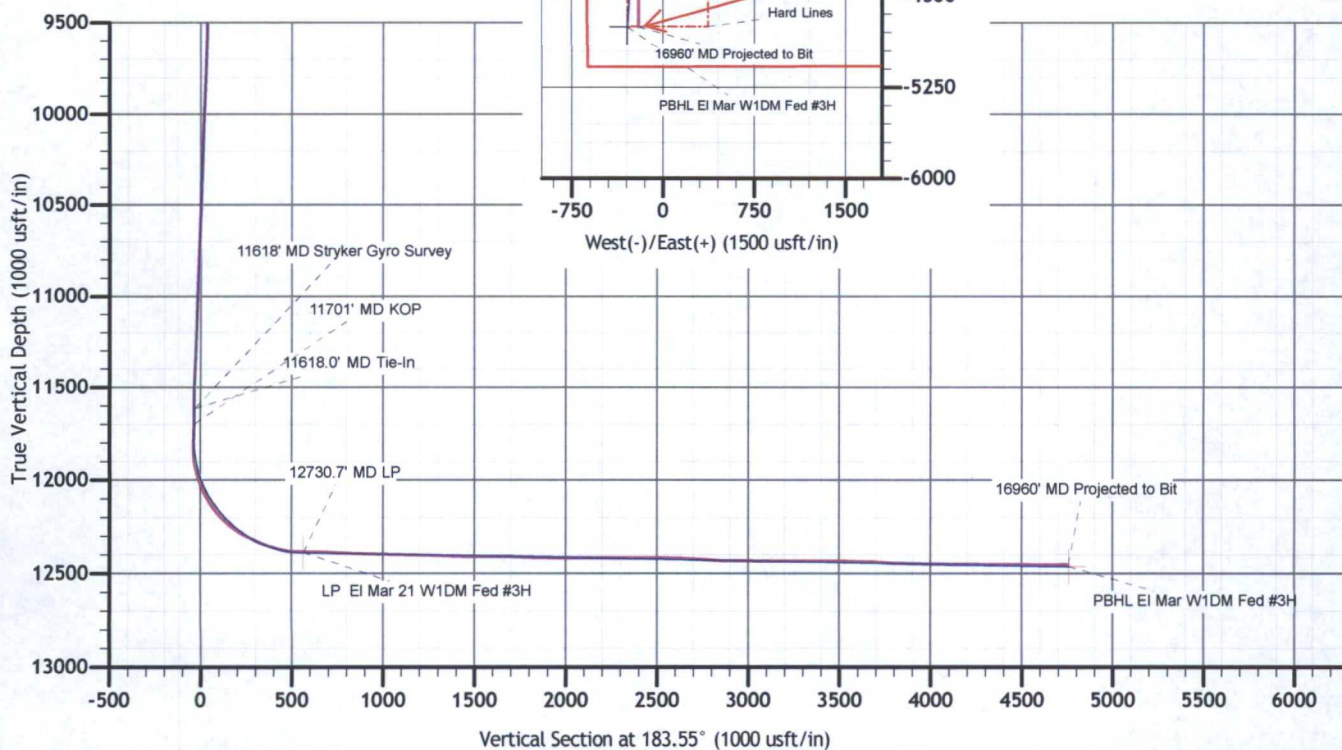
HOBBS OCD

DEC 22 2015

RECEIVED



331.32' FSL; 419.97' FWL





Mewbourne Oil Company .

Lea County N.M.

Section 21-26S-33E El Mar 21W1DM Fed Com #3H

El Mar 21W1DM Fed Com #3H

Original Hole

Design: Original Hole

Standard Survey Report

12 October, 2015





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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	Section21-26S-33E El Mar 21 W1DM Fed Com #3H				
Site Position:		Northing:	377,481.10 usft	Latitude:	32° 2' 8.127 N
From:	Map	Easting:	732,463.50 usft	Longitude:	103° 34' 59.368 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	El Mar 21 W1DM Fed Com #3H				
Well Position	+N/-S	0.0 usft	Northing:	377,481.10 usft	Latitude: 32° 2' 8.127 N
	+E/-W	0.0 usft	Easting:	732,463.50 usft	Longitude: 103° 34' 59.368 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft	Ground Level: 3,275.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/15/2015	7.14	59.91	48,006

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	183.55

Survey Program	Date 10/12/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	11,618.0	Stryker Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
11,726.0	16,960.0	MWD Survey (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	0.25	152.69	100.0	-0.2	0.1	0.2	0.25	0.25	0.00	
200.0	0.37	224.95	200.0	-0.6	0.0	0.6	0.38	0.12	72.26	
300.0	0.60	246.03	300.0	-1.1	-0.7	1.1	0.29	0.23	21.08	
400.0	0.80	227.24	400.0	-1.7	-1.7	1.8	0.30	0.20	-18.79	
500.0	0.88	247.69	500.0	-2.5	-2.9	2.7	0.31	0.08	20.45	
600.0	1.11	232.35	600.0	-3.4	-4.4	3.7	0.35	0.23	-15.34	
700.0	1.00	246.05	699.9	-4.3	-6.0	4.7	0.27	-0.11	13.70	
800.0	1.13	236.39	799.9	-5.2	-7.6	5.7	0.22	0.13	-9.66	



Stryker Directional Survey Report



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Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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)
900.0	1.05	226.46	899.9	-6.4	-9.1	7.0	0.20	-0.08	-9.93
1,000.0	1.20	237.93	999.9	-7.6	-10.6	8.2	0.27	0.15	11.47
1,100.0	1.38	282.55	1,099.9	-7.9	-12.7	8.7	0.99	0.18	44.62
1,200.0	1.33	230.72	1,199.8	-8.4	-14.8	9.3	1.19	-0.05	-51.83
1,300.0	0.82	300.02	1,299.8	-8.7	-16.3	9.7	1.29	-0.51	69.30
1,400.0	0.82	281.77	1,399.8	-8.2	-17.6	9.3	0.26	0.00	-18.25
1,500.0	0.55	291.60	1,499.8	-7.9	-18.8	9.1	0.29	-0.27	9.83
1,600.0	0.79	294.91	1,599.8	-7.5	-19.8	8.7	0.24	0.24	3.31
1,700.0	0.88	286.34	1,699.8	-6.9	-21.2	8.2	0.15	0.09	-8.57
1,800.0	0.80	288.73	1,799.8	-6.5	-22.6	7.9	0.09	-0.08	2.39
1,900.0	1.07	299.96	1,899.8	-5.8	-24.1	7.3	0.33	0.27	11.23
2,000.0	1.26	291.53	1,999.7	-4.9	-25.9	6.5	0.26	0.19	-8.43
2,100.0	1.16	288.03	2,099.7	-4.2	-27.9	5.9	0.12	-0.10	-3.50
2,200.0	1.32	297.86	2,199.7	-3.4	-29.9	5.2	0.27	0.16	9.83
2,300.0	1.44	297.63	2,299.7	-2.3	-32.0	4.2	0.12	0.12	-0.23
2,400.0	1.61	295.13	2,399.6	-1.1	-34.4	3.2	0.18	0.17	-2.50
2,500.0	1.85	299.59	2,499.6	0.3	-37.1	2.0	0.28	0.24	4.46
2,600.0	1.94	301.65	2,599.5	2.0	-39.9	0.5	0.11	0.09	2.06
2,700.0	0.97	315.60	2,699.5	3.5	-41.9	-0.9	1.03	-0.97	13.95
2,800.0	0.44	351.29	2,799.5	4.5	-42.6	-1.8	0.66	-0.53	35.69
2,900.0	0.33	321.88	2,899.5	5.1	-42.8	-2.4	0.22	-0.11	-29.41
3,000.0	0.32	321.36	2,999.5	5.5	-43.2	-2.8	0.01	-0.01	-0.52
3,100.0	0.35	316.26	3,099.5	6.0	-43.6	-3.3	0.04	0.03	-5.10
3,200.0	0.50	329.99	3,199.5	6.6	-44.0	-3.8	0.18	0.15	13.73
3,300.0	0.31	314.59	3,299.5	7.1	-44.4	-4.4	0.22	-0.19	-15.40
3,400.0	0.25	315.20	3,399.5	7.5	-44.7	-4.7	0.06	-0.06	0.61
3,500.0	0.27	2.66	3,499.5	7.9	-44.9	-5.1	0.21	0.02	47.46
3,600.0	0.43	78.01	3,599.5	8.2	-44.5	-5.4	0.45	0.16	75.35
3,700.0	0.83	86.26	3,699.5	8.3	-43.4	-5.6	0.41	0.40	8.25
3,800.0	1.46	95.82	3,799.5	8.2	-41.4	-5.6	0.66	0.63	9.56
3,900.0	1.86	97.49	3,899.4	7.9	-38.6	-5.5	0.40	0.40	1.67
4,000.0	2.08	101.84	3,999.4	7.3	-35.2	-5.1	0.27	0.22	4.35
4,100.0	1.69	108.89	4,099.3	6.5	-32.0	-4.5	0.45	-0.39	7.05
4,200.0	1.00	171.83	4,199.3	5.1	-30.5	-3.2	1.52	-0.69	62.94
4,300.0	1.00	182.84	4,299.3	3.4	-30.4	-1.5	0.19	0.00	11.01
4,400.0	1.39	170.05	4,399.2	1.3	-30.2	0.6	0.47	0.39	-12.79
4,500.0	1.59	167.52	4,499.2	-1.2	-29.7	3.1	0.21	0.20	-2.53
4,600.0	2.06	166.76	4,599.2	-4.3	-29.0	6.1	0.47	0.47	-0.76
4,700.0	3.24	169.57	4,699.0	-8.9	-28.1	10.6	1.19	1.18	2.81
4,800.0	3.75	147.49	4,798.9	-14.4	-25.8	16.0	1.43	0.51	-22.08
4,900.0	2.95	173.54	4,898.7	-19.7	-23.8	21.2	1.70	-0.80	26.05
5,000.0	1.72	183.96	4,998.6	-23.8	-23.6	25.2	1.30	-1.23	10.42



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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	1.63	161.18	5,098.6	-26.6	-23.2	28.0	0.67	-0.09	-22.78
5,200.0	1.17	156.94	5,198.5	-28.9	-22.4	30.2	0.47	-0.46	-4.24
5,300.0	0.94	164.77	5,298.5	-30.6	-21.8	31.9	0.27	-0.23	7.83
5,400.0	0.78	169.22	5,398.5	-32.1	-21.4	33.4	0.17	-0.16	4.45
5,500.0	0.69	165.36	5,498.5	-33.4	-21.1	34.6	0.10	-0.09	-3.86
5,600.0	0.81	160.18	5,598.5	-34.6	-20.7	35.8	0.14	0.12	-5.18
5,700.0	0.61	179.12	5,698.5	-35.8	-20.5	37.0	0.31	-0.20	18.94
5,800.0	0.41	187.62	5,798.5	-36.7	-20.5	37.9	0.21	-0.20	8.50
5,900.0	0.58	157.77	5,898.5	-37.5	-20.4	38.7	0.30	0.17	-29.85
6,000.0	0.42	178.38	5,998.5	-38.3	-20.2	39.5	0.24	-0.16	20.61
6,100.0	0.33	185.92	6,098.5	-39.0	-20.2	40.2	0.10	-0.09	7.54
6,200.0	0.32	168.77	6,198.5	-39.6	-20.2	40.7	0.10	-0.01	-17.15
6,300.0	0.11	97.58	6,298.5	-39.8	-20.0	41.0	0.30	-0.21	-71.19
6,400.0	0.11	99.92	6,398.5	-39.9	-19.8	41.0	0.00	0.00	2.34
6,500.0	0.21	117.50	6,498.5	-40.0	-19.6	41.1	0.11	0.10	17.58
6,600.0	0.42	71.20	6,598.5	-39.9	-19.1	41.0	0.31	0.21	-46.30
6,700.0	0.23	54.99	6,698.5	-39.7	-18.6	40.8	0.21	-0.19	-16.21
6,800.0	0.28	59.82	6,798.5	-39.5	-18.2	40.5	0.05	0.05	4.83
6,900.0	0.28	58.55	6,898.5	-39.2	-17.8	40.2	0.01	0.00	-1.27
7,000.0	0.22	57.92	6,998.5	-39.0	-17.4	40.0	0.06	-0.06	-0.63
7,100.0	0.19	113.08	7,098.5	-38.9	-17.1	39.9	0.19	-0.03	55.16
7,200.0	0.28	92.69	7,198.5	-39.0	-16.7	40.0	0.12	0.09	-20.39
7,300.0	0.23	53.61	7,298.5	-38.9	-16.3	39.9	0.18	-0.05	-39.08
7,400.0	0.22	58.53	7,398.5	-38.7	-16.0	39.6	0.02	-0.01	4.92
7,500.0	0.24	88.79	7,498.5	-38.6	-15.6	39.5	0.12	0.02	30.26
7,600.0	0.52	148.73	7,598.5	-39.0	-15.1	39.8	0.45	0.28	59.94
7,700.0	0.72	164.33	7,698.5	-40.0	-14.7	40.8	0.26	0.20	15.60
7,800.0	0.52	156.64	7,798.5	-41.0	-14.4	41.8	0.22	-0.20	-7.69
7,900.0	0.48	119.00	7,898.4	-41.6	-13.8	42.4	0.32	-0.04	-37.64
8,000.0	0.68	118.57	7,998.4	-42.1	-12.9	42.8	0.20	0.20	-0.43
8,100.0	0.75	99.61	8,098.4	-42.5	-11.8	43.1	0.25	0.07	-18.96
8,200.0	0.79	105.72	8,198.4	-42.8	-10.5	43.4	0.09	0.04	6.11
8,300.0	0.90	104.20	8,298.4	-43.2	-9.0	43.6	0.11	0.11	-1.52
8,400.0	0.78	102.89	8,398.4	-43.5	-7.6	43.9	0.12	-0.12	-1.31
8,500.0	0.70	105.62	8,498.4	-43.8	-6.4	44.1	0.09	-0.08	2.73
8,600.0	0.83	104.43	8,598.4	-44.2	-5.1	44.4	0.13	0.13	-1.19
8,700.0	0.46	134.24	8,698.4	-44.6	-4.1	44.8	0.49	-0.37	29.81
8,800.0	0.13	158.12	8,798.4	-45.0	-3.8	45.2	0.35	-0.33	23.88
8,900.0	0.44	220.45	8,898.4	-45.4	-4.0	45.6	0.40	0.31	62.33
9,000.0	0.24	342.43	8,998.4	-45.5	-4.3	45.7	0.60	-0.20	121.98
9,100.0	0.66	5.63	9,098.4	-44.7	-4.3	44.9	0.45	0.42	23.20
9,200.0	0.98	21.68	9,198.4	-43.4	-3.9	43.5	0.39	0.32	16.05
9,300.0	1.11	30.26	9,298.3	-41.7	-3.1	41.8	0.20	0.13	8.58



Stryker Directional Survey Report



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Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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)	
9,400.0	1.15	35.54	9,398.3	-40.1	-2.0	40.1	0.11	0.04	5.28	
9,500.0	2.00	61.12	9,498.3	-38.4	0.1	38.3	1.08	0.85	25.58	
9,600.0	2.40	69.30	9,598.2	-36.8	3.6	36.6	0.51	0.40	8.18	
9,700.0	3.27	68.02	9,698.1	-35.0	8.2	34.5	0.87	0.87	-1.28	
9,800.0	3.75	38.92	9,797.9	-31.4	12.9	30.6	1.82	0.48	-29.10	
9,900.0	3.24	42.07	9,897.7	-26.8	16.8	25.7	0.54	-0.51	3.15	
10,000.0	2.83	32.84	9,997.6	-22.6	20.0	21.3	0.64	-0.41	-9.23	
10,100.0	2.09	21.46	10,097.5	-18.8	22.0	17.4	0.88	-0.74	-11.38	
10,200.0	1.39	19.33	10,197.4	-16.0	23.1	14.5	0.70	-0.70	-2.13	
10,300.0	1.51	19.30	10,297.4	-13.6	24.0	12.1	0.12	0.12	-0.03	
10,400.0	2.04	26.66	10,397.4	-10.8	25.2	9.2	0.58	0.53	7.36	
10,500.0	2.80	33.57	10,497.3	-7.1	27.3	5.4	0.81	0.76	6.91	
10,600.0	3.86	44.19	10,597.1	-2.7	31.0	0.8	1.22	1.06	10.62	
10,700.0	3.44	46.26	10,696.9	1.8	35.5	-4.0	0.44	-0.42	2.07	
10,800.0	2.68	48.61	10,796.8	5.4	39.5	-7.8	0.77	-0.76	2.35	
10,900.0	2.90	56.30	10,896.6	8.4	43.3	-11.0	0.43	0.22	7.69	
11,000.0	3.01	50.08	10,996.5	11.4	47.4	-14.4	0.34	0.11	-6.22	
11,100.0	2.19	40.73	11,096.4	14.6	50.7	-17.7	0.92	-0.82	-9.35	
11,200.0	2.42	42.74	11,196.3	17.6	53.4	-20.9	0.24	0.23	2.01	
11,300.0	2.34	24.46	11,296.2	21.0	55.7	-24.4	0.76	-0.08	-18.28	
11,400.0	1.87	22.51	11,396.2	24.4	57.1	-27.8	0.48	-0.47	-1.95	
11,500.0	1.05	22.18	11,496.1	26.7	58.1	-30.3	0.82	-0.82	-0.33	
11,600.0	0.25	316.04	11,596.1	27.7	58.3	-31.3	0.98	-0.80	-66.14	
11,618.0	0.18	350.02	11,614.1	27.8	58.3	-31.3	0.79	-0.39	188.78	
11618' MD Stryker Gyro Survey										
11,726.0	2.60	306.20	11,722.1	29.4	56.3	-32.8	2.29	2.24	-40.57	
11,757.0	6.80	293.90	11,753.0	30.5	54.0	-33.8	13.86	13.55	-39.68	
11,789.0	10.00	281.40	11,784.6	31.9	49.6	-34.9	11.46	10.00	-39.06	
11,821.0	12.00	276.20	11,816.1	32.8	43.5	-35.4	6.97	6.25	-16.25	
11,852.0	15.30	266.30	11,846.2	32.9	36.2	-35.0	13.01	10.65	-31.94	
11,884.0	18.30	255.60	11,876.8	31.3	27.2	-33.0	13.43	9.38	-33.44	
11,916.0	19.60	247.90	11,907.1	28.1	17.3	-29.1	8.80	4.06	-24.06	
11,947.0	20.40	236.20	11,936.2	23.1	8.0	-23.5	13.14	2.58	-37.74	
11,979.0	20.80	226.90	11,966.2	16.1	-0.8	-16.0	10.29	1.25	-29.06	
12,011.0	21.40	217.90	11,996.1	7.6	-8.5	-7.1	10.29	1.88	-28.13	
12,042.0	22.40	205.20	12,024.8	-2.2	-14.5	3.1	15.59	3.23	-40.97	
12,074.0	25.60	197.60	12,054.1	-14.3	-19.2	15.5	13.89	10.00	-23.75	
12,106.0	29.40	191.90	12,082.4	-28.6	-22.9	30.0	14.43	11.88	-17.81	
12,137.0	32.40	185.00	12,109.1	-44.3	-25.2	45.8	14.96	9.68	-22.26	
12,169.0	33.90	182.30	12,135.8	-61.8	-26.3	63.3	6.58	4.69	-8.44	
12,201.0	36.30	182.60	12,162.0	-80.2	-27.1	81.7	7.52	7.50	0.94	
12,232.0	40.60	182.30	12,186.3	-99.4	-27.9	101.0	13.88	13.87	-0.97	



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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)
12,264.0	45.00	181.40	12,209.8	-121.1	-28.6	122.7	13.88	13.75	-2.81
12,296.0	50.10	181.70	12,231.4	-144.7	-29.3	146.3	15.95	15.94	0.94
12,327.0	54.70	180.30	12,250.3	-169.3	-29.7	170.8	15.26	14.84	-4.52
12,359.0	57.10	180.60	12,268.2	-195.8	-29.9	197.3	7.54	7.50	0.94
12,390.0	59.70	181.20	12,284.5	-222.2	-30.3	223.6	8.55	8.39	1.94
12,430.0	61.90	183.30	12,304.0	-257.1	-31.7	258.5	7.16	5.50	5.25
12,506.0	68.00	185.20	12,336.1	-325.7	-36.8	327.3	8.34	8.03	2.50
12,538.0	70.40	185.00	12,347.5	-355.5	-39.5	357.2	7.52	7.50	-0.63
12,570.0	72.00	184.50	12,357.8	-385.7	-42.0	387.5	5.21	5.00	-1.56
12,601.0	75.10	183.70	12,366.6	-415.3	-44.1	417.3	10.30	10.00	-2.58
12,633.0	77.80	183.40	12,374.1	-446.4	-46.0	448.4	8.49	8.44	-0.94
12,665.0	81.00	183.00	12,380.0	-477.8	-47.8	479.8	10.08	10.00	-1.25
12,696.0	85.40	183.00	12,383.6	-508.5	-49.4	510.6	14.19	14.19	0.00
12,728.0	90.20	183.70	12,384.9	-540.4	-51.3	542.5	15.16	15.00	2.19
12,750.7	90.98	184.13	12,384.6	-563.0	-52.8	565.2	3.92	3.44	1.87
LP El Mar 21 W1DM Fed #3H									
12,760.0	91.30	184.30	12,384.4	-572.3	-53.5	574.5	3.92	3.44	1.88
12,854.0	87.10	180.60	12,385.8	-666.2	-57.5	668.5	5.95	-4.47	-3.94
12,949.0	86.70	180.30	12,390.9	-761.1	-58.3	763.2	0.53	-0.42	-0.32
13,044.0	88.50	181.60	12,394.9	-855.9	-59.8	858.0	2.34	1.89	1.37
13,139.0	88.00	181.60	12,397.8	-950.9	-62.5	952.9	0.53	-0.53	0.00
13,234.0	89.60	179.80	12,399.8	-1,045.8	-63.6	1,047.8	2.53	1.68	-1.89
13,329.0	89.50	181.50	12,400.5	-1,140.8	-64.7	1,142.6	1.79	-0.11	1.79
13,423.0	86.90	179.30	12,403.5	-1,234.8	-65.4	1,236.4	3.62	-2.77	-2.34
13,518.0	88.70	181.40	12,407.1	-1,329.7	-66.0	1,331.2	2.91	1.89	2.21
13,613.0	89.00	180.40	12,409.0	-1,424.6	-67.5	1,426.1	1.10	0.32	-1.05
13,708.0	89.60	184.90	12,410.2	-1,519.5	-71.8	1,521.0	4.78	0.63	4.74
13,803.0	90.10	185.80	12,410.4	-1,614.1	-80.7	1,616.0	1.08	0.53	0.95
13,898.0	88.30	185.60	12,411.8	-1,708.6	-90.1	1,710.9	1.91	-1.89	-0.21
13,993.0	89.20	182.80	12,413.8	-1,803.3	-97.1	1,805.9	3.10	0.95	-2.95
14,088.0	88.40	182.20	12,415.8	-1,898.2	-101.2	1,900.8	1.05	-0.84	-0.63
14,182.0	90.50	184.30	12,416.7	-1,992.0	-106.6	1,994.8	3.16	2.23	2.23
14,277.0	89.50	189.70	12,416.7	-2,086.3	-118.1	2,089.6	5.78	-1.05	5.68
14,372.0	90.10	197.20	12,417.1	-2,178.6	-140.2	2,183.1	7.92	0.63	7.89
14,467.0	90.10	199.40	12,416.9	-2,268.8	-170.0	2,275.0	2.32	0.00	2.32
14,499.0	90.20	198.60	12,416.8	-2,299.1	-180.5	2,305.8	2.52	0.31	-2.50
14,531.0	90.70	197.90	12,416.6	-2,329.5	-190.5	2,336.8	2.69	1.56	-2.19
14,562.0	90.20	195.30	12,416.3	-2,359.2	-199.3	2,367.0	8.54	-1.61	-8.39
14,594.0	91.40	192.50	12,415.9	-2,390.2	-207.0	2,398.5	9.52	3.75	-8.75
14,626.0	89.30	186.90	12,415.7	-2,421.8	-212.4	2,430.3	18.69	-6.56	-17.50
14,657.0	90.10	187.20	12,415.8	-2,452.5	-216.2	2,461.2	2.76	2.58	0.97
14,689.0	89.50	188.10	12,415.9	-2,484.2	-220.5	2,493.1	3.38	-1.88	2.81
14,721.0	88.30	186.80	12,416.6	-2,516.0	-224.6	2,525.0	5.53	-3.75	-4.06



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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)
14,752.0	89.40	186.00	12,417.2	-2,546.8	-228.1	2,556.0	4.39	3.55	-2.58
14,784.0	89.90	183.40	12,417.4	-2,578.6	-230.7	2,588.0	8.27	1.56	-8.13
14,816.0	88.50	180.80	12,417.8	-2,610.6	-231.9	2,620.0	9.23	-4.38	-8.13
14,847.0	88.00	178.90	12,418.8	-2,641.6	-231.8	2,650.9	6.33	-1.61	-6.13
14,879.0	86.80	177.40	12,420.2	-2,673.5	-230.8	2,682.7	6.00	-3.75	-4.69
14,942.0	86.70	177.60	12,423.8	-2,736.4	-228.0	2,745.3	0.35	-0.16	0.32
15,037.0	86.20	176.20	12,429.7	-2,831.1	-222.9	2,839.4	1.56	-0.53	-1.47
15,132.0	90.10	176.40	12,432.7	-2,925.8	-216.8	2,933.6	4.11	4.11	0.21
15,227.0	90.30	178.10	12,432.4	-3,020.7	-212.2	3,028.0	1.80	0.21	1.79
15,322.0	89.70	178.00	12,432.4	-3,115.6	-209.0	3,122.6	0.64	-0.63	-0.11
15,417.0	89.20	179.00	12,433.3	-3,210.6	-206.5	3,217.2	1.18	-0.53	1.05
15,512.0	91.70	182.90	12,432.6	-3,305.5	-208.1	3,312.1	4.88	2.63	4.11
15,575.0	89.80	181.20	12,431.7	-3,368.5	-210.3	3,375.1	4.05	-3.02	-2.70
15,607.0	89.60	177.80	12,431.9	-3,400.5	-210.0	3,407.0	10.64	-0.63	-10.63
15,701.0	89.10	175.90	12,433.0	-3,494.3	-204.9	3,500.3	2.09	-0.53	-2.02
15,796.0	89.30	178.40	12,434.3	-3,589.2	-200.1	3,594.7	2.64	0.21	2.63
15,892.0	86.40	179.00	12,437.9	-3,685.1	-198.0	3,690.3	3.08	-3.02	0.63
15,987.0	86.50	179.20	12,443.8	-3,779.9	-196.5	3,784.8	0.24	0.11	0.21
16,082.0	90.20	179.10	12,446.5	-3,874.8	-195.1	3,879.5	3.90	3.89	-0.11
16,177.0	89.00	179.30	12,447.2	-3,969.8	-193.7	3,974.2	1.28	-1.26	0.21
16,272.0	89.40	180.00	12,448.5	-4,064.8	-193.2	4,069.0	0.85	0.42	0.74
16,366.0	88.80	180.10	12,450.0	-4,158.8	-193.2	4,162.8	0.65	-0.64	0.11
16,461.0	90.00	184.20	12,451.0	-4,253.7	-196.8	4,257.7	4.50	1.26	4.32
16,556.0	89.80	181.50	12,451.2	-4,348.6	-201.5	4,352.7	2.85	-0.21	-2.84
16,651.0	89.60	180.90	12,451.7	-4,443.6	-203.5	4,447.6	0.67	-0.21	-0.63
16,746.0	89.40	179.80	12,452.5	-4,538.6	-204.1	4,542.5	1.18	-0.21	-1.16
16,841.0	89.70	179.90	12,453.2	-4,633.6	-203.9	4,637.3	0.33	0.32	0.11
16,904.0	90.60	179.40	12,453.1	-4,696.5	-203.5	4,700.1	1.63	1.43	-0.79
16,914.0	90.80	180.10	12,452.9	-4,706.5	-203.4	4,710.1	7.28	2.00	7.00
16,957.8	90.80	180.10	12,452.3	-4,750.3	-203.5	4,753.8	0.00	0.00	0.00
PBHL El Mar W1DM Fed #3H									
16,960.0	90.80	180.10	12,452.3	-4,752.5	-203.5	4,756.0	0.00	0.00	0.00
16960' MD Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,618.0	11,614.1	27.8	58.3	11618' MD Stryker Gyro Survey
16,960.0	12,452.3	-4,752.5	-203.5	16960' MD Projected to Bit



Mewbourne Oil Company .

Lea County N.M.

Section 21-26S-33E El Mar 21W1DM Fed Com #3H

El Mar 21W1DM Fed Com #3H

Original Hole

Design: Original Hole

Survey Report - Geographic

12 October, 2015





Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Original Hole	Database:	Stryker_EDM

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		Section21-26S-33E El Mar 21 W1DM Fed Com #3H			
Site Position:		Northing:	377,481.10 usft	Latitude:	32° 2' 8.127 N
From:	Map	Easting:	732,463.50 usft	Longitude:	103° 34' 59.368 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	El Mar 21 W1DM Fed Com #3H					
Well Position	+N/-S	0.0 usft	Northing:	377,481.10 usft	Latitude:	32° 2' 8.127 N
	+E/-W	0.0 usft	Easting:	732,463.50 usft	Longitude:	103° 34' 59.368 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	27.0 usft	Ground Level:	3,275.0 usft

Wellbore	Original Hole				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/15/2015	7.14	59.91	48,006

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	183.55

Survey Program	Date 10/12/2015				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	11,618.0	Stryker Gyro Survey (Original Hole)	SRG-GYRO-MS	surface readout gyro multishot	
11,726.0	16,960.0	MWD Survey (Original Hole)	MWD	MWD v3:standard declination	

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	377,481.10	732,463.50	32° 2' 8.127 N	103° 34' 59.368 W
100.0	0.25	152.69	100.0	-0.2	0.1	377,480.90	732,463.60	32° 2' 8.125 N	103° 34' 59.367 W
200.0	0.37	224.95	200.0	-0.6	0.0	377,480.48	732,463.47	32° 2' 8.121 N	103° 34' 59.368 W
300.0	0.60	246.03	300.0	-1.1	-0.7	377,480.04	732,462.76	32° 2' 8.117 N	103° 34' 59.376 W
400.0	0.80	227.24	400.0	-1.7	-1.7	377,479.35	732,461.77	32° 2' 8.110 N	103° 34' 59.388 W
500.0	0.88	247.69	500.0	-2.5	-2.9	377,478.59	732,460.55	32° 2' 8.103 N	103° 34' 59.402 W
600.0	1.11	232.35	600.0	-3.4	-4.4	377,477.71	732,459.07	32° 2' 8.094 N	103° 34' 59.420 W
700.0	1.00	246.05	699.9	-4.3	-6.0	377,476.76	732,457.51	32° 2' 8.085 N	103° 34' 59.438 W
800.0	1.13	236.39	799.9	-5.2	-7.6	377,475.86	732,455.89	32° 2' 8.076 N	103° 34' 59.457 W
900.0	1.05	226.46	899.9	-6.4	-9.1	377,474.68	732,454.40	32° 2' 8.064 N	103° 34' 59.474 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,000.0	1.20	237.93	999.9	-7.6	-10.6	377,473.50	732,452.85	32° 2' 8.053 N	103° 34' 59.492 W
1,100.0	1.38	282.55	1,099.9	-7.9	-12.7	377,473.20	732,450.79	32° 2' 8.050 N	103° 34' 59.516 W
1,200.0	1.33	230.72	1,199.8	-8.4	-14.8	377,472.73	732,448.71	32° 2' 8.045 N	103° 34' 59.540 W
1,300.0	0.82	300.02	1,299.8	-8.7	-16.3	377,472.35	732,447.20	32° 2' 8.042 N	103° 34' 59.558 W
1,400.0	0.82	281.77	1,399.8	-8.2	-17.6	377,472.86	732,445.88	32° 2' 8.047 N	103° 34' 59.573 W
1,500.0	0.55	291.60	1,499.8	-7.9	-18.8	377,473.18	732,444.73	32° 2' 8.050 N	103° 34' 59.586 W
1,600.0	0.79	294.91	1,599.8	-7.5	-19.8	377,473.65	732,443.66	32° 2' 8.055 N	103° 34' 59.599 W
1,700.0	0.88	286.34	1,699.8	-6.9	-21.2	377,474.15	732,442.30	32° 2' 8.060 N	103° 34' 59.615 W
1,800.0	0.80	288.73	1,799.8	-6.5	-22.6	377,474.59	732,440.90	32° 2' 8.064 N	103° 34' 59.631 W
1,900.0	1.07	299.96	1,899.8	-5.8	-24.1	377,475.28	732,439.43	32° 2' 8.071 N	103° 34' 59.648 W
2,000.0	1.26	291.53	1,999.7	-4.9	-25.9	377,476.15	732,437.60	32° 2' 8.080 N	103° 34' 59.669 W
2,100.0	1.16	288.03	2,099.7	-4.2	-27.9	377,476.87	732,435.61	32° 2' 8.087 N	103° 34' 59.692 W
2,200.0	1.32	297.86	2,199.7	-3.4	-29.9	377,477.72	732,433.63	32° 2' 8.096 N	103° 34' 59.715 W
2,300.0	1.44	297.63	2,299.7	-2.3	-32.0	377,478.84	732,431.50	32° 2' 8.107 N	103° 34' 59.740 W
2,400.0	1.61	295.13	2,399.6	-1.1	-34.4	377,480.02	732,429.11	32° 2' 8.119 N	103° 34' 59.767 W
2,500.0	1.85	299.59	2,499.6	0.3	-37.1	377,481.41	732,426.44	32° 2' 8.133 N	103° 34' 59.798 W
2,600.0	1.94	301.65	2,599.5	2.0	-39.9	377,483.10	732,423.59	32° 2' 8.150 N	103° 34' 59.831 W
2,700.0	0.97	315.60	2,699.5	3.5	-41.9	377,484.59	732,421.56	32° 2' 8.165 N	103° 34' 59.855 W
2,800.0	0.44	351.29	2,799.5	4.5	-42.6	377,485.58	732,420.91	32° 2' 8.175 N	103° 34' 59.862 W
2,900.0	0.33	321.88	2,899.5	5.1	-42.8	377,486.18	732,420.67	32° 2' 8.181 N	103° 34' 59.865 W
3,000.0	0.32	321.36	2,999.5	5.5	-43.2	377,486.63	732,420.32	32° 2' 8.185 N	103° 34' 59.869 W
3,100.0	0.35	316.26	3,099.5	6.0	-43.6	377,487.07	732,419.94	32° 2' 8.189 N	103° 34' 59.873 W
3,200.0	0.50	329.99	3,199.5	6.6	-44.0	377,487.66	732,419.51	32° 2' 8.195 N	103° 34' 59.878 W
3,300.0	0.31	314.59	3,299.5	7.1	-44.4	377,488.23	732,419.10	32° 2' 8.201 N	103° 34' 59.883 W
3,400.0	0.25	315.20	3,399.5	7.5	-44.7	377,488.58	732,418.75	32° 2' 8.204 N	103° 34' 59.887 W
3,500.0	0.27	2.66	3,499.5	7.9	-44.9	377,488.97	732,418.61	32° 2' 8.208 N	103° 34' 59.889 W
3,600.0	0.43	78.01	3,599.5	8.2	-44.5	377,489.28	732,418.98	32° 2' 8.211 N	103° 34' 59.884 W
3,700.0	0.83	86.26	3,699.5	8.3	-43.4	377,489.41	732,420.07	32° 2' 8.212 N	103° 34' 59.872 W
3,800.0	1.46	95.82	3,799.5	8.2	-41.4	377,489.32	732,422.06	32° 2' 8.212 N	103° 34' 59.848 W
3,900.0	1.86	97.49	3,899.4	7.9	-38.6	377,488.98	732,424.94	32° 2' 8.208 N	103° 34' 59.815 W
4,000.0	2.08	101.84	3,999.4	7.3	-35.2	377,488.40	732,428.33	32° 2' 8.202 N	103° 34' 59.776 W
4,100.0	1.69	108.89	4,099.3	6.5	-32.0	377,487.55	732,431.50	32° 2' 8.193 N	103° 34' 59.739 W
4,200.0	1.00	171.83	4,199.3	5.1	-30.5	377,486.21	732,433.02	32° 2' 8.180 N	103° 34' 59.722 W
4,300.0	1.00	182.84	4,299.3	3.4	-30.4	377,484.47	732,433.10	32° 2' 8.163 N	103° 34' 59.721 W
4,400.0	1.39	170.05	4,399.2	1.3	-30.2	377,482.41	732,433.26	32° 2' 8.142 N	103° 34' 59.719 W
4,500.0	1.59	167.52	4,499.2	-1.2	-29.7	377,479.86	732,433.77	32° 2' 8.117 N	103° 34' 59.713 W
4,600.0	2.06	166.76	4,599.2	-4.3	-29.0	377,476.75	732,434.48	32° 2' 8.086 N	103° 34' 59.705 W
4,700.0	3.24	169.57	4,699.0	-8.9	-28.1	377,472.22	732,435.41	32° 2' 8.041 N	103° 34' 59.695 W
4,800.0	3.75	147.49	4,798.9	-14.4	-25.8	377,466.69	732,437.68	32° 2' 7.986 N	103° 34' 59.669 W
4,900.0	2.95	173.54	4,898.7	-19.7	-23.8	377,461.37	732,439.72	32° 2' 7.934 N	103° 34' 59.646 W
5,000.0	1.72	183.96	4,998.6	-23.8	-23.6	377,457.32	732,439.91	32° 2' 7.894 N	103° 34' 59.644 W
5,100.0	1.63	161.18	5,098.6	-26.6	-23.2	377,454.47	732,440.27	32° 2' 7.865 N	103° 34' 59.640 W
5,200.0	1.17	156.94	5,198.5	-28.9	-22.4	377,452.19	732,441.12	32° 2' 7.843 N	103° 34' 59.630 W
5,300.0	0.94	164.77	5,298.5	-30.6	-21.8	377,450.46	732,441.74	32° 2' 7.826 N	103° 34' 59.623 W
5,400.0	0.78	169.22	5,398.5	-32.1	-21.4	377,449.00	732,442.08	32° 2' 7.811 N	103° 34' 59.619 W
5,500.0	0.69	165.36	5,498.5	-33.4	-21.1	377,447.75	732,442.36	32° 2' 7.799 N	103° 34' 59.616 W
5,600.0	0.81	160.18	5,598.5	-34.6	-20.7	377,446.50	732,442.75	32° 2' 7.786 N	103° 34' 59.612 W
5,700.0	0.61	179.12	5,698.5	-35.8	-20.5	377,445.30	732,443.00	32° 2' 7.774 N	103° 34' 59.609 W
5,800.0	0.41	187.62	5,798.5	-36.7	-20.5	377,444.42	732,442.96	32° 2' 7.766 N	103° 34' 59.609 W
5,900.0	0.58	157.77	5,898.5	-37.5	-20.4	377,443.59	732,443.11	32° 2' 7.758 N	103° 34' 59.608 W
6,000.0	0.42	178.38	5,998.5	-38.3	-20.2	377,442.76	732,443.31	32° 2' 7.749 N	103° 34' 59.605 W
6,100.0	0.33	185.92	6,098.5	-39.0	-20.2	377,442.10	732,443.29	32° 2' 7.743 N	103° 34' 59.606 W
6,200.0	0.32	168.77	6,198.5	-39.6	-20.2	377,441.54	732,443.31	32° 2' 7.737 N	103° 34' 59.605 W
6,300.0	0.11	97.58	6,298.5	-39.8	-20.0	377,441.26	732,443.46	32° 2' 7.734 N	103° 34' 59.604 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,400.0	0.11	99.92	6,398.5	-39.9	-19.8	377,441.23	732,443.65	32° 2' 7.734 N	103° 34' 59.602 W
6,500.0	0.21	117.50	6,498.5	-40.0	-19.6	377,441.13	732,443.91	32° 2' 7.733 N	103° 34' 59.599 W
6,600.0	0.42	71.20	6,598.5	-39.9	-19.1	377,441.16	732,444.42	32° 2' 7.733 N	103° 34' 59.593 W
6,700.0	0.23	54.99	6,698.5	-39.7	-18.6	377,441.39	732,444.93	32° 2' 7.736 N	103° 34' 59.587 W
6,800.0	0.28	59.82	6,798.5	-39.5	-18.2	377,441.63	732,445.31	32° 2' 7.738 N	103° 34' 59.582 W
6,900.0	0.28	58.55	6,898.5	-39.2	-17.8	377,441.88	732,445.73	32° 2' 7.740 N	103° 34' 59.577 W
7,000.0	0.22	57.92	6,998.5	-39.0	-17.4	377,442.11	732,446.10	32° 2' 7.743 N	103° 34' 59.573 W
7,100.0	0.19	113.08	7,098.5	-38.9	-17.1	377,442.15	732,446.41	32° 2' 7.743 N	103° 34' 59.569 W
7,200.0	0.28	92.69	7,198.5	-39.0	-16.7	377,442.07	732,446.81	32° 2' 7.742 N	103° 34' 59.565 W
7,300.0	0.23	53.61	7,298.5	-38.9	-16.3	377,442.18	732,447.21	32° 2' 7.743 N	103° 34' 59.560 W
7,400.0	0.22	58.53	7,398.5	-38.7	-16.0	377,442.40	732,447.54	32° 2' 7.745 N	103° 34' 59.556 W
7,500.0	0.24	88.79	7,498.5	-38.6	-15.6	377,442.50	732,447.91	32° 2' 7.746 N	103° 34' 59.552 W
7,600.0	0.52	148.73	7,598.5	-39.0	-15.1	377,442.12	732,448.36	32° 2' 7.743 N	103° 34' 59.547 W
7,700.0	0.72	164.33	7,698.5	-40.0	-14.7	377,441.13	732,448.76	32° 2' 7.733 N	103° 34' 59.542 W
7,800.0	0.52	156.64	7,798.5	-41.0	-14.4	377,440.11	732,449.11	32° 2' 7.723 N	103° 34' 59.538 W
7,900.0	0.48	119.00	7,898.4	-41.6	-13.8	377,439.49	732,449.66	32° 2' 7.716 N	103° 34' 59.532 W
8,000.0	0.68	118.57	7,998.4	-42.1	-12.9	377,439.00	732,450.55	32° 2' 7.712 N	103° 34' 59.522 W
8,100.0	0.75	99.61	8,098.4	-42.5	-11.8	377,438.61	732,451.71	32° 2' 7.708 N	103° 34' 59.508 W
8,200.0	0.79	105.72	8,198.4	-42.8	-10.5	377,438.31	732,453.02	32° 2' 7.705 N	103° 34' 59.493 W
8,300.0	0.90	104.20	8,298.4	-43.2	-9.0	377,437.93	732,454.45	32° 2' 7.701 N	103° 34' 59.476 W
8,400.0	0.78	102.89	8,398.4	-43.5	-7.6	377,437.59	732,455.87	32° 2' 7.697 N	103° 34' 59.460 W
8,500.0	0.70	105.62	8,498.4	-43.8	-6.4	377,437.27	732,457.12	32° 2' 7.694 N	103° 34' 59.445 W
8,600.0	0.83	104.43	8,598.4	-44.2	-5.1	377,436.93	732,458.41	32° 2' 7.690 N	103° 34' 59.430 W
8,700.0	0.46	134.24	8,698.4	-44.6	-4.1	377,436.46	732,459.40	32° 2' 7.686 N	103° 34' 59.419 W
8,800.0	0.13	158.12	8,798.4	-45.0	-3.8	377,436.08	732,459.73	32° 2' 7.682 N	103° 34' 59.415 W
8,900.0	0.44	220.45	8,898.4	-45.4	-4.0	377,435.68	732,459.53	32° 2' 7.678 N	103° 34' 59.418 W
9,000.0	0.24	342.43	8,998.4	-45.5	-4.3	377,435.59	732,459.21	32° 2' 7.677 N	103° 34' 59.421 W
9,100.0	0.66	5.63	9,098.4	-44.7	-4.3	377,436.36	732,459.21	32° 2' 7.685 N	103° 34' 59.421 W
9,200.0	0.98	21.68	9,198.4	-43.4	-3.9	377,437.73	732,459.58	32° 2' 7.698 N	103° 34' 59.417 W
9,300.0	1.11	30.26	9,298.3	-41.7	-3.1	377,439.36	732,460.38	32° 2' 7.714 N	103° 34' 59.407 W
9,400.0	1.15	35.54	9,398.3	-40.1	-2.0	377,441.01	732,461.45	32° 2' 7.731 N	103° 34' 59.395 W
9,500.0	2.00	61.12	9,498.3	-38.4	0.1	377,442.67	732,463.57	32° 2' 7.747 N	103° 34' 59.370 W
9,600.0	2.40	69.30	9,598.2	-36.8	3.6	377,444.26	732,467.05	32° 2' 7.762 N	103° 34' 59.330 W
9,700.0	3.27	68.02	9,698.1	-35.0	8.2	377,446.06	732,471.66	32° 2' 7.780 N	103° 34' 59.276 W
9,800.0	3.75	38.92	9,797.9	-31.4	12.9	377,449.68	732,476.35	32° 2' 7.815 N	103° 34' 59.221 W
9,900.0	3.24	42.07	9,897.7	-26.8	16.8	377,454.32	732,480.30	32° 2' 7.861 N	103° 34' 59.175 W
10,000.0	2.83	32.84	9,997.6	-22.6	20.0	377,458.49	732,483.54	32° 2' 7.902 N	103° 34' 59.137 W
10,100.0	2.09	21.46	10,097.5	-18.8	22.0	377,462.26	732,485.54	32° 2' 7.939 N	103° 34' 59.113 W
10,200.0	1.39	19.33	10,197.4	-16.0	23.1	377,465.10	732,486.61	32° 2' 7.967 N	103° 34' 59.101 W
10,300.0	1.51	19.30	10,297.4	-13.6	24.0	377,467.49	732,487.45	32° 2' 7.991 N	103° 34' 59.091 W
10,400.0	2.04	26.66	10,397.4	-10.8	25.2	377,470.33	732,488.68	32° 2' 8.019 N	103° 34' 59.076 W
10,500.0	2.80	33.57	10,497.3	-7.1	27.3	377,473.95	732,490.83	32° 2' 8.055 N	103° 34' 59.051 W
10,600.0	3.86	44.19	10,597.1	-2.7	31.0	377,478.40	732,494.53	32° 2' 8.098 N	103° 34' 59.008 W
10,700.0	3.44	46.26	10,696.9	1.8	35.5	377,482.89	732,499.04	32° 2' 8.143 N	103° 34' 58.955 W
10,800.0	2.68	48.61	10,796.8	5.4	39.5	377,486.51	732,502.96	32° 2' 8.178 N	103° 34' 58.909 W
10,900.0	2.90	56.30	10,896.6	8.4	43.3	377,489.46	732,506.82	32° 2' 8.207 N	103° 34' 58.864 W
11,000.0	3.01	50.08	10,996.5	11.4	47.4	377,492.55	732,510.94	32° 2' 8.237 N	103° 34' 58.816 W
11,100.0	2.19	40.73	11,096.4	14.6	50.7	377,495.68	732,514.20	32° 2' 8.268 N	103° 34' 58.778 W
11,200.0	2.42	42.74	11,196.3	17.6	53.4	377,498.68	732,516.88	32° 2' 8.298 N	103° 34' 58.746 W
11,300.0	2.34	24.46	11,296.2	21.0	55.7	377,502.09	732,519.16	32° 2' 8.331 N	103° 34' 58.720 W
11,400.0	1.87	22.51	11,396.2	24.4	57.1	377,505.45	732,520.63	32° 2' 8.364 N	103° 34' 58.702 W
11,500.0	1.05	22.18	11,496.1	26.7	58.1	377,507.81	732,521.60	32° 2' 8.388 N	103° 34' 58.691 W
11,600.0	0.25	316.04	11,596.1	27.7	58.3	377,508.81	732,521.79	32° 2' 8.398 N	103° 34' 58.688 W



Stryker Directional Survey Report - Geographic



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,618.0	0.18	350.02	11,614.1	27.8	58.3	377,508.87	732,521.76	32° 2' 8.398 N	103° 34' 58.689 W
11618' MD Stryker Gyro Survey									
11,726.0	2.60	306.20	11,722.1	29.4	56.3	377,510.48	732,519.75	32° 2' 8.414 N	103° 34' 58.712 W
11,757.0	6.80	293.90	11,753.0	30.5	54.0	377,511.64	732,517.51	32° 2' 8.426 N	103° 34' 58.738 W
11,789.0	10.00	281.40	11,784.6	31.9	49.6	377,512.96	732,513.05	32° 2' 8.439 N	103° 34' 58.790 W
11,821.0	12.00	276.20	11,816.1	32.8	43.5	377,513.87	732,507.02	32° 2' 8.449 N	103° 34' 58.860 W
11,852.0	15.30	266.30	11,846.2	32.9	36.2	377,513.95	732,499.73	32° 2' 8.450 N	103° 34' 58.944 W
11,884.0	18.30	255.60	11,876.8	31.3	27.2	377,512.43	732,490.65	32° 2' 8.435 N	103° 34' 59.050 W
11,916.0	19.60	247.90	11,907.1	28.1	17.3	377,509.16	732,480.81	32° 2' 8.404 N	103° 34' 59.165 W
11,947.0	20.40	236.20	11,936.2	23.1	8.0	377,504.20	732,471.49	32° 2' 8.355 N	103° 34' 59.273 W
11,979.0	20.80	226.90	11,966.2	16.1	-0.8	377,497.21	732,462.71	32° 2' 8.287 N	103° 34' 59.376 W
12,011.0	21.40	217.90	11,996.1	7.6	-8.5	377,488.72	732,454.97	32° 2' 8.203 N	103° 34' 59.466 W
12,042.0	22.40	205.20	12,024.8	-2.2	-14.5	377,478.91	732,448.98	32° 2' 8.107 N	103° 34' 59.537 W
12,074.0	25.60	197.60	12,054.1	-14.3	-19.2	377,466.79	732,444.29	32° 2' 7.987 N	103° 34' 59.592 W
12,106.0	29.40	191.90	12,082.4	-28.6	-22.9	377,452.51	732,440.58	32° 2' 7.846 N	103° 34' 59.636 W
12,137.0	32.40	185.00	12,109.1	-44.3	-25.2	377,436.78	732,438.28	32° 2' 7.690 N	103° 34' 59.664 W
12,169.0	33.90	182.30	12,135.8	-61.8	-26.3	377,419.32	732,437.18	32° 2' 7.518 N	103° 34' 59.679 W
12,201.0	36.30	182.60	12,162.0	-80.2	-27.1	377,400.94	732,436.39	32° 2' 7.336 N	103° 34' 59.689 W
12,232.0	40.60	182.30	12,186.3	-99.4	-27.9	377,381.69	732,435.57	32° 2' 7.145 N	103° 34' 59.700 W
12,264.0	45.00	181.40	12,209.8	-121.1	-28.6	377,359.96	732,434.88	32° 2' 6.930 N	103° 34' 59.710 W
12,296.0	50.10	181.70	12,231.4	-144.7	-29.3	377,336.37	732,434.23	32° 2' 6.697 N	103° 34' 59.719 W
12,327.0	54.70	180.30	12,250.3	-169.3	-29.7	377,311.82	732,433.82	32° 2' 6.454 N	103° 34' 59.726 W
12,359.0	57.10	180.60	12,268.2	-195.8	-29.9	377,285.32	732,433.61	32° 2' 6.192 N	103° 34' 59.731 W
12,390.0	59.70	181.20	12,284.5	-222.2	-30.3	377,258.92	732,433.19	32° 2' 5.931 N	103° 34' 59.738 W
12,430.0	61.90	183.30	12,304.0	-257.1	-31.7	377,224.04	732,431.81	32° 2' 5.586 N	103° 34' 59.757 W
12,506.0	68.00	185.20	12,336.1	-325.7	-36.8	377,155.41	732,426.68	32° 2' 4.907 N	103° 34' 59.822 W
12,538.0	70.40	185.00	12,347.5	-355.5	-39.5	377,125.62	732,424.03	32° 2' 4.612 N	103° 34' 59.855 W
12,570.0	72.00	184.50	12,357.8	-385.7	-42.0	377,095.43	732,421.52	32° 2' 4.314 N	103° 34' 59.887 W
12,601.0	75.10	183.70	12,366.6	-415.3	-44.1	377,065.78	732,419.39	32° 2' 4.020 N	103° 34' 59.914 W
12,633.0	77.80	183.40	12,374.1	-446.4	-46.0	377,034.74	732,417.47	32° 2' 3.713 N	103° 34' 59.939 W
12,665.0	81.00	183.00	12,380.0	-477.8	-47.8	377,003.33	732,415.71	32° 2' 3.403 N	103° 34' 59.961 W
12,696.0	85.40	183.00	12,383.6	-508.5	-49.4	376,972.60	732,414.10	32° 2' 3.099 N	103° 34' 59.983 W
12,728.0	90.20	183.70	12,384.9	-540.4	-51.3	376,940.69	732,412.23	32° 2' 2.783 N	103° 35' 0.007 W
12,750.7	90.98	184.13	12,384.6	-563.0	-52.8	376,918.05	732,410.69	32° 2' 2.559 N	103° 35' 0.027 W
LP El Mar 21 W1DM Fed #3H									
12,760.0	91.30	184.30	12,384.4	-572.3	-53.5	376,908.77	732,410.00	32° 2' 2.467 N	103° 35' 0.035 W
12,854.0	87.10	180.60	12,385.8	-666.2	-57.5	376,814.90	732,405.98	32° 2' 1.539 N	103° 35' 0.090 W
12,949.0	86.70	180.30	12,390.9	-761.1	-58.3	376,720.05	732,405.24	32° 2' 0.600 N	103° 35' 0.106 W
13,044.0	88.50	181.60	12,394.9	-855.9	-59.8	376,625.15	732,403.66	32° 1' 59.661 N	103° 35' 0.132 W
13,139.0	88.00	181.60	12,397.8	-950.9	-62.5	376,530.23	732,401.01	32° 1' 58.722 N	103° 35' 0.170 W
13,234.0	89.60	179.80	12,399.8	-1,045.8	-63.6	376,435.27	732,399.85	32° 1' 57.782 N	103° 35' 0.192 W
13,329.0	89.50	181.50	12,400.5	-1,140.8	-64.7	376,340.28	732,398.78	32° 1' 56.842 N	103° 35' 0.212 W
13,423.0	86.90	179.30	12,403.5	-1,234.8	-65.4	376,246.34	732,398.12	32° 1' 55.913 N	103° 35' 0.227 W
13,518.0	88.70	181.40	12,407.1	-1,329.7	-66.0	376,151.42	732,397.54	32° 1' 54.974 N	103° 35' 0.241 W
13,613.0	89.00	180.40	12,409.0	-1,424.6	-67.5	376,056.45	732,396.05	32° 1' 54.034 N	103° 35' 0.266 W
13,708.0	89.60	184.90	12,410.2	-1,519.5	-71.8	375,961.59	732,391.66	32° 1' 53.095 N	103° 35' 0.325 W
13,803.0	90.10	185.80	12,410.4	-1,614.1	-80.7	375,867.00	732,382.80	32° 1' 52.160 N	103° 35' 0.435 W
13,898.0	88.30	185.60	12,411.8	-1,708.6	-90.1	375,772.49	732,373.36	32° 1' 51.225 N	103° 35' 0.553 W
13,993.0	89.20	182.80	12,413.8	-1,803.3	-97.1	375,677.77	732,366.41	32° 1' 50.289 N	103° 35' 0.641 W
14,088.0	88.40	182.20	12,415.8	-1,898.2	-101.2	375,582.89	732,362.27	32° 1' 49.350 N	103° 35' 0.697 W
14,182.0	90.50	184.30	12,416.7	-1,992.0	-106.6	375,489.05	732,356.94	32° 1' 48.422 N	103° 35' 0.766 W
14,277.0	89.50	189.70	12,416.7	-2,086.3	-118.1	375,394.80	732,345.36	32° 1' 47.490 N	103° 35' 0.908 W
14,372.0	90.10	197.20	12,417.1	-2,178.6	-140.2	375,302.47	732,323.28	32° 1' 46.578 N	103° 35' 1.172 W
14,467.0	90.10	199.40	12,416.9	-2,268.8	-170.0	375,212.28	732,293.46	32° 1' 45.687 N	103° 35' 1.526 W

Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well El Mar 21 W1DM Fed Com #3H
Project:	Lea County N.M.	TVD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Site:	Section21-26S-33E El Mar 21 W1DM Fed Com #3H	MD Reference:	3275 + 27 @ 3302.0usft (Patterson # 243)
Well:	El Mar 21 W1DM Fed Com #3H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,499.0	90.20	198.60	12,416.8	-2,299.1	-180.5	375,182.02	732,283.04	32° 1' 45.388 N	103° 35' 1.649 W
14,531.0	90.70	197.90	12,416.6	-2,329.5	-190.5	375,151.63	732,273.02	32° 1' 45.088 N	103° 35' 1.768 W
14,562.0	90.20	195.30	12,416.3	-2,359.2	-199.3	375,121.93	732,264.16	32° 1' 44.795 N	103° 35' 1.874 W
14,594.0	91.40	192.50	12,415.9	-2,390.2	-207.0	375,090.87	732,256.48	32° 1' 44.488 N	103° 35' 1.965 W
14,626.0	89.30	186.90	12,415.7	-2,421.8	-212.4	375,059.35	732,251.09	32° 1' 44.177 N	103° 35' 2.031 W
14,657.0	90.10	187.20	12,415.8	-2,452.5	-216.2	375,028.58	732,247.28	32° 1' 43.872 N	103° 35' 2.077 W
14,689.0	89.50	188.10	12,415.9	-2,484.2	-220.5	374,996.87	732,243.02	32° 1' 43.559 N	103° 35' 2.129 W
14,721.0	88.30	186.80	12,416.6	-2,516.0	-224.6	374,965.14	732,238.87	32° 1' 43.245 N	103° 35' 2.180 W
14,752.0	89.40	186.00	12,417.2	-2,546.8	-228.1	374,934.34	732,235.42	32° 1' 42.941 N	103° 35' 2.223 W
14,784.0	89.90	183.40	12,417.4	-2,578.6	-230.7	374,902.45	732,232.80	32° 1' 42.625 N	103° 35' 2.256 W
14,816.0	88.50	180.80	12,417.8	-2,610.6	-231.9	374,870.48	732,231.63	32° 1' 42.309 N	103° 35' 2.272 W
14,847.0	88.00	178.90	12,418.8	-2,641.6	-231.8	374,839.50	732,231.71	32° 1' 42.002 N	103° 35' 2.273 W
14,879.0	86.80	177.40	12,420.2	-2,673.5	-230.8	374,807.55	732,232.74	32° 1' 41.686 N	103° 35' 2.264 W
14,942.0	86.70	177.60	12,423.8	-2,736.4	-228.0	374,744.71	732,235.48	32° 1' 41.064 N	103° 35' 2.237 W
15,037.0	86.20	176.20	12,429.7	-2,831.1	-222.9	374,650.03	732,240.61	32° 1' 40.127 N	103° 35' 2.185 W
15,132.0	90.10	176.40	12,432.7	-2,925.8	-216.8	374,555.30	732,246.73	32° 1' 39.189 N	103° 35' 2.122 W
15,227.0	90.30	178.10	12,432.4	-3,020.7	-212.2	374,460.41	732,251.29	32° 1' 38.250 N	103° 35' 2.076 W
15,322.0	89.70	178.00	12,432.4	-3,115.6	-209.0	374,365.47	732,254.53	32° 1' 37.310 N	103° 35' 2.046 W
15,417.0	89.20	179.00	12,433.3	-3,210.6	-206.5	374,270.51	732,257.01	32° 1' 36.370 N	103° 35' 2.025 W
15,512.0	91.70	182.90	12,432.6	-3,305.5	-208.1	374,175.55	732,255.44	32° 1' 35.430 N	103° 35' 2.051 W
15,575.0	89.80	181.20	12,431.7	-3,368.5	-210.3	374,112.60	732,253.18	32° 1' 34.808 N	103° 35' 2.082 W
15,607.0	89.60	177.80	12,431.9	-3,400.5	-210.0	374,080.61	732,253.46	32° 1' 34.491 N	103° 35' 2.082 W
15,701.0	89.10	175.90	12,433.0	-3,494.3	-204.9	373,986.76	732,258.63	32° 1' 33.562 N	103° 35' 2.029 W
15,796.0	89.30	178.40	12,434.3	-3,589.2	-200.1	373,891.89	732,263.35	32° 1' 32.623 N	103° 35' 1.982 W
15,892.0	86.40	179.00	12,437.9	-3,685.1	-198.0	373,796.00	732,265.53	32° 1' 31.674 N	103° 35' 1.965 W
15,987.0	86.50	179.20	12,443.8	-3,779.9	-196.5	373,701.19	732,267.02	32° 1' 30.735 N	103° 35' 1.955 W
16,082.0	90.20	179.10	12,446.5	-3,874.8	-195.1	373,606.26	732,268.43	32° 1' 29.796 N	103° 35' 1.946 W
16,177.0	89.00	179.30	12,447.2	-3,969.8	-193.7	373,511.27	732,269.75	32° 1' 28.856 N	103° 35' 1.938 W
16,272.0	89.40	180.00	12,448.5	-4,064.8	-193.2	373,416.28	732,270.33	32° 1' 27.916 N	103° 35' 1.939 W
16,366.0	88.80	180.10	12,450.0	-4,158.8	-193.2	373,322.29	732,270.25	32° 1' 26.986 N	103° 35' 1.948 W
16,461.0	90.00	184.20	12,451.0	-4,253.7	-196.8	373,227.39	732,266.69	32° 1' 26.047 N	103° 35' 1.997 W
16,556.0	89.80	181.50	12,451.2	-4,348.6	-201.5	373,132.51	732,261.96	32° 1' 25.108 N	103° 35' 2.059 W
16,651.0	89.60	180.90	12,451.7	-4,443.6	-203.5	373,037.54	732,259.97	32° 1' 24.168 N	103° 35' 2.090 W
16,746.0	89.40	179.80	12,452.5	-4,538.6	-204.1	372,942.54	732,259.39	32° 1' 23.228 N	103° 35' 2.105 W
16,841.0	89.70	179.90	12,453.2	-4,633.6	-203.9	372,847.55	732,259.64	32° 1' 22.288 N	103° 35' 2.109 W
16,904.0	90.60	179.40	12,453.1	-4,696.5	-203.5	372,784.55	732,260.03	32° 1' 21.665 N	103° 35' 2.110 W
16,914.0	90.80	180.10	12,452.9	-4,706.5	-203.4	372,774.55	732,260.07	32° 1' 21.566 N	103° 35' 2.110 W
16,957.8	90.80	180.10	12,452.3	-4,750.3	-203.5	372,730.76	732,259.99	32° 1' 21.133 N	103° 35' 2.115 W
PBHL El Mar W1DM Fed #3H									
16,960.0	90.80	180.10	12,452.3	-4,752.5	-203.5	372,728.56	732,259.99	32° 1' 21.111 N	103° 35' 2.115 W
16960' MD Projected to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
11,618.0	11,614.1	27.8	58.3	11618' MD Stryker Gyro Survey
16,960.0	12,452.3	-4,752.5	-203.5	16960' MD Projected to Bit