

30-025-42597



COMPANY: Mewbourne Oil Company
 WELL: Cabra Nino 11 B3NC State Corn 1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson Patterson 231

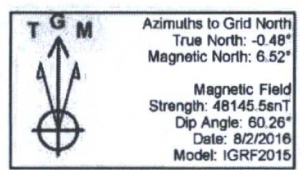


GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.52°

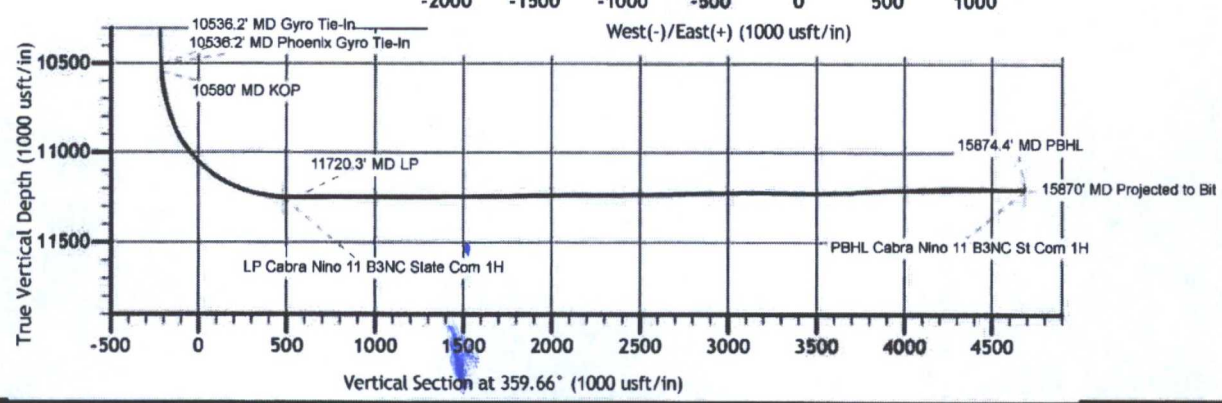
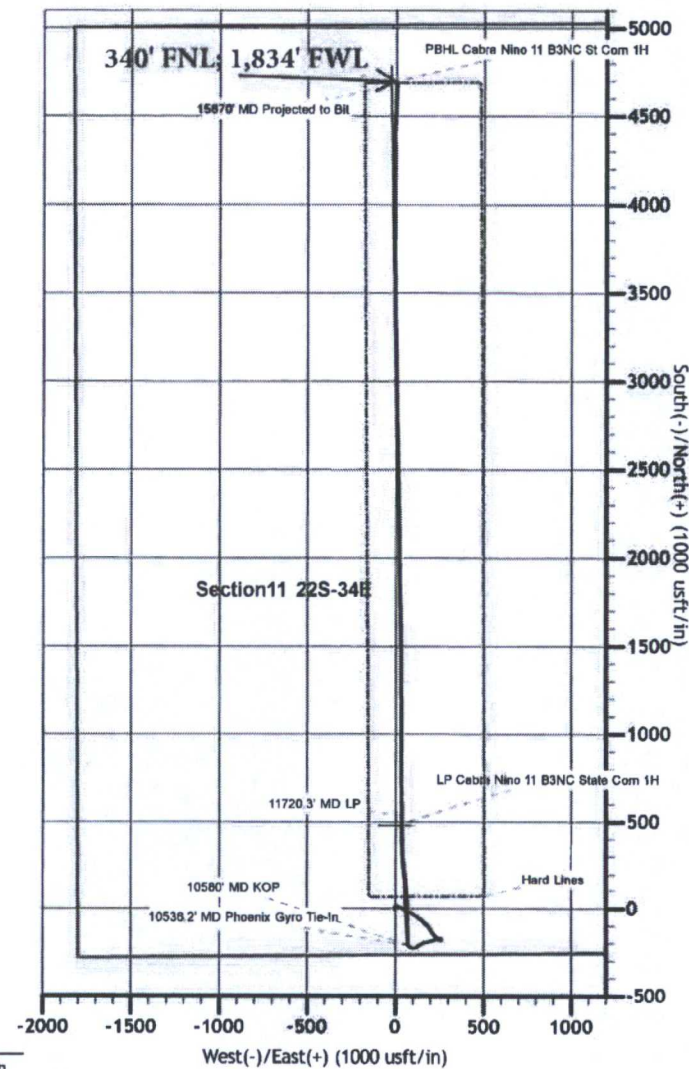
OFFICE: 936.582.7296

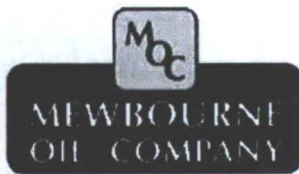
GEODETIC ZONE: New Mexico East 3001 3523 + 27 @ 3550.0usft (Patterson 231) GROUND ELEVATION: 3523.0							
+N/-S 0.0	+E/-W 0.0	Northing 510215.40	Easting 774816.40	Latitude 32° 23' 58.384 N	Longitude 103° 26' 34.607 W	Slot	

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	10536.2	2.91	322.21	10504.4	-211.4	76.2	0.00	0.00	-211.8	
2	10580.0	2.91	322.21	10548.1	-209.6	74.8	0.00	0.00	-210.1	
3	11720.3	90.70	359.05	11257.0	537.7	40.6	7.75	36.88	537.4	
4	15874.4	90.70	359.05	11206.0	4890.9	-28.1	0.00	0.00	4691.0	PBHL Cabra Nino 11 B3NC St Corn 1H



SHL 260' FSL; 1800' FWL
 Section 11-22S-34E
 PBHL 330' FNL; 1800' FWL
 Section 11-22S-34E





Mewbourne Oil Company .

Lea County N.M.

Section 11 22S-34E Cabra Nino 11 B3NC State Com 1H

Cabra Nino 11 B3NC State Com 1H

Original Hole

Design: Original Hole

Standard Survey Report

06 September, 2016





Stryker Directional Survey Report



Company: Mewbourne Oil Company .
Project: Lea County N.M.
Site: Section11 22S-34E Cabra Nino 11 B3NC State
Com 1H
Well: Cabre Nino 11 B3NC State Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Cabre Nino 11 B3NC State Com 1H
TVD Reference: 3523 + 27 @ 3550.0usft (Patterson 231)
MD Reference: 3523 + 27 @ 3550.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	Section11 22S-34E Cabra Nino 11 B3NC State Com 1H			
Site Position:		Northing:	510,215.40 usft	Latitude: 32° 23' 58.384 N
From: Map		Easting:	774,816.40 usft	Longitude: 103° 26' 34.607 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.48 °

Well	Cabre Nino 11 B3NC State Com 1H			
Well Position	+N/-S	0.0 usft	Northing:	510,215.40 usft
	+E/-W	0.0 usft	Easting:	774,816.40 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	27.0 usft
			Ground Level:	3,523.0 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/2/2016	7.00	60.26	48,146

Design	Original Hole			
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	132.44

Survey Program	Date 9/6/2016			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	10,536.2	Phoenix Gyro Survey (Original Hole)	GyroFlex	
10,536.2	15,870.0	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	0.14	358.15	100.0	0.1	0.0	-0.1	0.14	0.14	0.00
200.0	0.37	59.55	200.0	0.4	0.3	-0.1	0.33	0.23	61.40
300.0	0.47	40.28	300.0	0.9	0.8	0.0	0.17	0.10	-19.27
400.0	0.41	35.59	400.0	1.5	1.3	-0.1	0.07	-0.06	-4.69
500.0	0.38	11.23	500.0	2.1	1.6	-0.3	0.17	-0.03	-24.36
600.0	0.54	33.79	600.0	2.8	1.9	-0.5	0.24	0.16	22.56
700.0	0.42	325.09	700.0	3.5	1.9	-0.9	0.55	-0.12	-68.70
800.0	0.32	329.51	800.0	4.1	1.6	-1.6	0.10	-0.10	4.42



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Cabre Nino 11 B3NC State Com 1H
Project:	Lea County N.M.	TVD Reference:	3523 + 27 @ 3550.0usft (Patterson 231)
Site:	Section11 22S-34E Cabra Nino 11 B3NC State Com 1H	MD Reference:	3523 + 27 @ 3550.0usft (Patterson 231)
Well:	Cabre Nino 11 B3NC State Com 1H	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	0.26	346.81	900.0	4.5	1.4	-2.0	0.11	-0.06	17.30
1,000.0	0.34	273.63	1,000.0	4.8	1.0	-2.4	0.36	0.08	-73.18
1,100.0	0.46	308.38	1,100.0	5.0	0.4	-3.1	0.26	0.12	34.75
1,200.0	0.47	301.54	1,200.0	5.5	-0.2	-3.9	0.06	0.01	-6.84
1,300.0	0.25	202.61	1,300.0	5.5	-0.7	-4.2	0.57	-0.22	-98.93
1,400.0	0.25	13.04	1,400.0	5.5	-0.7	-4.2	0.50	0.00	170.43
1,500.0	0.29	248.37	1,500.0	5.6	-0.9	-4.5	0.48	0.04	-124.67
1,600.0	0.33	222.10	1,600.0	5.3	-1.3	-4.6	0.15	0.04	-26.27
1,700.0	0.60	197.37	1,700.0	4.6	-1.7	-4.3	0.33	0.27	-24.73
1,800.0	0.25	176.10	1,800.0	3.9	-1.8	-4.0	0.38	-0.35	-21.27
1,900.0	0.47	292.01	1,900.0	3.8	-2.2	-4.2	0.62	0.22	115.91
2,000.0	0.39	3.02	2,000.0	4.3	-2.5	-4.8	0.50	-0.08	71.01
2,100.0	0.68	9.86	2,100.0	5.2	-2.4	-5.3	0.30	0.29	6.84
2,200.0	0.71	1.12	2,200.0	6.5	-2.3	-6.0	0.11	0.03	-8.74
2,300.0	0.45	343.81	2,299.9	7.4	-2.4	-6.8	0.31	-0.26	-17.31
2,400.0	0.24	279.96	2,399.9	7.9	-2.7	-7.3	0.41	-0.21	-63.85
2,500.0	0.67	358.17	2,499.9	8.5	-2.9	-7.9	0.66	0.43	78.21
2,600.0	0.36	35.05	2,599.9	9.3	-2.8	-8.3	0.44	-0.31	36.88
2,700.0	0.47	56.06	2,699.9	9.8	-2.3	-8.3	0.19	0.11	21.01
2,800.0	0.70	13.90	2,799.9	10.6	-1.8	-8.5	0.47	0.23	-42.16
2,900.0	0.73	51.59	2,899.9	11.6	-1.1	-8.7	0.46	0.03	37.69
3,000.0	0.83	46.39	2,999.9	12.5	-0.1	-8.5	0.12	0.10	-5.20
3,100.0	1.33	56.91	3,099.9	13.6	1.4	-8.2	0.54	0.50	10.52
3,200.0	0.94	64.14	3,199.9	14.6	3.1	-7.6	0.41	-0.39	7.23
3,300.0	0.81	81.85	3,299.9	15.1	4.5	-6.8	0.30	-0.13	17.71
3,400.0	1.01	92.64	3,399.9	15.2	6.1	-5.7	0.26	0.20	10.79
3,500.0	1.52	93.52	3,499.8	15.0	8.3	-4.0	0.51	0.51	0.88
3,600.0	1.57	81.06	3,599.8	15.2	11.0	-2.1	0.34	0.05	-12.46
3,700.0	1.92	87.07	3,699.7	15.5	14.0	-0.1	0.39	0.35	6.01
3,800.0	1.80	108.78	3,799.7	15.0	17.2	2.5	0.71	-0.12	21.71
3,900.0	2.11	104.45	3,899.6	14.1	20.5	5.6	0.34	0.31	-4.33
4,000.0	1.69	118.19	3,999.6	12.9	23.5	8.7	0.62	-0.42	13.74
4,100.0	1.60	121.94	4,099.5	11.5	26.0	11.5	0.14	-0.09	3.75
4,200.0	1.85	120.43	4,199.5	9.9	28.6	14.4	0.25	0.25	-1.51
4,300.0	2.57	119.84	4,299.4	8.0	31.9	18.2	0.72	0.72	-0.59
4,400.0	3.86	121.94	4,399.3	5.1	36.7	23.7	1.30	1.29	2.10
4,500.0	5.98	117.60	4,498.9	0.9	44.2	32.0	2.15	2.12	-4.34
4,600.0	6.72	116.40	4,598.3	-4.1	54.1	42.7	0.75	0.74	-1.20
4,700.0	7.43	116.80	4,697.5	-9.6	65.1	54.5	0.71	0.71	0.40
4,800.0	7.77	118.21	4,796.6	-15.7	76.8	67.3	0.39	0.34	1.41
4,900.0	8.36	121.30	4,895.6	-22.7	89.0	81.0	0.73	0.59	3.09
5,000.0	8.50	122.58	4,994.6	-30.5	101.4	95.4	0.23	0.14	1.28



Stryker Directional Survey Report



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Project:	Lea County N.M.	TVD Reference:	3523 + 27 @ 3550.0usft (Patterson 231)
Site:	Section11 22S-34E Cabra Nino 11 B3NC State Com 1H	MD Reference:	3523 + 27 @ 3550.0usft (Patterson 231)
Well:	Cabre Nino 11 B3NC State Com 1H	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	8.63	123.31	5,093.4	-38.6	113.9	110.1	0.17	0.13	0.73
5,200.0	8.81	124.21	5,192.3	-47.0	126.5	125.1	0.23	0.18	0.90
5,300.0	8.48	126.32	5,291.2	-55.7	138.8	140.0	0.46	-0.33	2.11
5,400.0	8.33	130.25	5,390.1	-64.7	150.3	154.6	0.59	-0.15	3.93
5,500.0	8.65	131.39	5,489.0	-74.4	161.4	169.3	0.36	0.32	1.14
5,600.0	8.78	133.85	5,587.8	-84.6	172.6	184.5	0.39	0.13	2.46
5,700.0	8.92	136.78	5,686.6	-95.6	183.4	199.8	0.47	0.14	2.93
5,800.0	10.27	144.00	5,785.2	-108.4	193.9	216.3	1.81	1.35	7.22
5,900.0	10.38	144.69	5,883.6	-123.0	204.4	233.8	0.17	0.11	0.69
6,000.0	10.00	146.74	5,982.0	-137.6	214.4	251.1	0.53	-0.38	2.05
6,100.0	7.57	140.96	6,080.9	-150.0	223.3	266.0	2.58	-2.43	-5.78
6,200.0	6.16	133.10	6,180.1	-158.8	231.3	277.9	1.69	-1.41	-7.86
6,300.0	2.44	123.91	6,279.9	-163.6	237.0	285.3	3.77	-3.72	-9.19
6,400.0	1.10	116.50	6,379.8	-165.2	239.7	288.4	1.36	-1.34	-7.41
6,500.0	0.98	116.75	6,479.8	-166.0	241.3	290.1	0.12	-0.12	0.25
6,600.0	1.30	101.40	6,579.8	-166.6	243.2	291.9	0.44	0.32	-15.35
6,700.0	1.27	114.14	6,679.7	-167.3	245.3	293.9	0.29	-0.03	12.74
6,800.0	0.89	103.92	6,779.7	-168.0	247.0	295.7	0.42	-0.38	-10.22
6,900.0	0.96	71.07	6,879.7	-167.9	248.6	296.7	0.53	0.07	-32.85
7,000.0	0.83	100.49	6,979.7	-167.7	250.1	297.8	0.47	-0.13	29.42
7,100.0	1.03	92.73	7,079.7	-167.9	251.7	299.1	0.24	0.20	-7.76
7,200.0	0.76	108.81	7,179.7	-168.2	253.2	300.4	0.37	-0.27	16.08
7,300.0	0.94	95.15	7,279.7	-168.5	254.7	301.6	0.27	0.18	-13.66
7,400.0	0.92	106.74	7,379.6	-168.8	256.3	303.0	0.19	-0.02	11.59
7,500.0	1.85	122.79	7,479.6	-169.9	258.4	305.3	1.00	0.93	16.05
7,600.0	1.60	141.90	7,579.6	-171.8	260.6	308.3	0.62	-0.25	19.11
7,700.0	1.71	149.20	7,679.5	-174.2	262.2	311.1	0.24	0.11	7.30
7,800.0	1.45	191.52	7,779.5	-176.7	262.7	313.2	1.17	-0.26	42.32
7,900.0	0.87	226.11	7,879.5	-178.5	261.9	313.8	0.88	-0.58	34.59
8,000.0	1.02	265.41	7,979.5	-179.1	260.5	313.1	0.65	0.15	39.30
8,100.0	1.42	276.53	8,079.4	-179.0	258.4	311.5	0.46	0.40	11.12
8,200.0	1.34	295.83	8,179.4	-178.4	256.1	309.4	0.47	-0.08	19.30
8,300.0	1.59	297.49	8,279.4	-177.2	253.8	306.9	0.25	0.25	1.66
8,400.0	1.48	300.86	8,379.3	-175.9	251.5	304.3	0.14	-0.11	3.37
8,500.0	1.41	300.58	8,479.3	-174.6	249.3	301.8	0.07	-0.07	-0.28
8,600.0	2.52	288.54	8,579.3	-173.3	246.2	298.6	1.18	1.11	-12.04
8,700.0	3.04	280.64	8,679.1	-172.1	241.5	294.4	0.64	0.52	-7.90
8,800.0	3.31	269.18	8,779.0	-171.7	236.0	290.0	0.69	0.27	-11.46
8,900.0	4.58	246.39	8,878.8	-173.3	229.4	286.3	1.99	1.27	-22.79
9,000.0	5.58	248.23	8,978.4	-176.7	221.3	282.6	1.01	1.00	1.84
9,100.0	6.28	251.31	9,077.8	-180.3	211.6	277.8	0.77	0.70	3.08
9,200.0	7.66	256.71	9,177.1	-183.6	199.9	271.4	1.53	1.38	5.40
9,300.0	10.01	257.00	9,275.9	-187.1	184.9	262.7	2.35	2.35	0.29



Stryker Directional Survey Report



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Site: Section11 22S-34E Cabra Nino 11 B3NC State
Com 1H
Well: Cabre Nino 11 B3NC State Com 1H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Cabre Nino 11 B3NC State Com 1H
TVD Reference: 3523 + 27 @ 3550.0usft (Patterson 231)
MD Reference: 3523 + 27 @ 3550.0usft (Patterson 231)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	11.30	252.89	9,374.2	-191.9	167.1	252.8	1.50	1.29	-4.11
9,500.0	10.34	240.64	9,472.4	-199.2	149.9	245.0	2.49	-0.96	-12.25
9,600.0	9.13	232.23	9,571.0	-208.4	135.8	240.9	1.86	-1.21	-8.41
9,700.0	7.44	237.43	9,669.9	-216.8	124.1	237.9	1.85	-1.69	5.20
9,800.0	5.18	259.00	9,769.3	-221.1	114.2	233.5	3.24	-2.26	21.57
9,900.0	3.00	261.66	9,869.1	-222.4	107.2	229.2	2.19	-2.18	2.66
10,000.0	2.98	279.86	9,968.9	-222.3	102.0	225.3	0.95	-0.02	18.20
10,100.0	3.50	276.05	10,068.8	-221.5	96.4	220.7	0.56	0.52	-3.81
10,200.0	3.33	286.23	10,168.6	-220.4	90.6	215.6	0.63	-0.17	10.18
10,300.0	3.18	299.45	10,268.4	-218.2	85.4	210.3	0.76	-0.15	13.22
10,400.0	2.63	300.46	10,368.3	-215.7	81.0	205.3	0.55	-0.55	1.01
10,500.0	2.80	316.75	10,468.2	-212.8	77.4	200.7	0.79	0.17	16.29
10,536.2	2.91	322.20	10,504.3	-211.4	76.2	198.9	0.81	0.30	15.06
10536.2' MD Phoenix Gyro Tie-In									
10,610.0	5.10	337.30	10,578.0	-206.9	73.8	194.1	3.27	2.97	20.46
10,642.0	8.40	342.40	10,609.7	-203.3	72.5	190.7	10.47	10.31	15.94
10,673.0	10.80	355.40	10,640.3	-198.3	71.6	186.7	10.39	7.74	41.94
10,705.0	13.10	349.00	10,671.6	-191.7	70.7	181.5	8.28	7.19	-20.00
10,737.0	15.20	350.40	10,702.6	-184.0	69.3	175.3	6.65	6.56	4.38
10,768.0	16.40	357.20	10,732.5	-175.7	68.4	169.0	7.11	3.87	21.94
10,800.0	17.50	3.90	10,763.1	-166.4	68.5	162.8	7.00	3.44	20.94
10,832.0	20.10	0.80	10,793.4	-156.1	68.9	156.2	8.70	8.13	-9.69
10,863.0	20.50	359.60	10,822.4	-145.3	68.9	148.9	1.86	1.29	-3.87
10,895.0	20.80	359.00	10,852.4	-134.0	68.8	141.2	1.15	0.94	-1.88
10,927.0	24.70	357.40	10,881.9	-121.6	68.4	132.6	12.34	12.19	-5.00
10,958.0	29.50	357.20	10,909.5	-107.5	67.7	122.6	15.49	15.48	-0.65
10,990.0	34.00	358.20	10,936.7	-90.7	67.1	110.7	14.16	14.06	3.13
11,022.0	37.50	359.10	10,962.6	-72.0	66.6	97.8	11.06	10.94	2.81
11,085.0	41.50	1.20	11,011.3	-32.0	66.8	70.9	6.69	6.35	3.33
11,116.0	44.10	1.20	11,034.0	-10.9	67.2	57.0	8.39	8.39	0.00
11,148.0	46.50	359.90	11,056.5	11.8	67.4	41.8	8.04	7.50	-4.06
11,180.0	48.60	358.20	11,078.1	35.4	67.0	25.6	7.64	6.56	-5.31
11,212.0	49.50	356.00	11,099.1	59.6	65.8	8.4	5.91	2.81	-6.88
11,244.0	52.60	354.60	11,119.2	84.4	63.8	-9.9	10.27	9.69	-4.38
11,276.0	57.20	353.40	11,137.6	110.4	61.0	-29.5	14.70	14.38	-3.75
11,307.0	60.90	353.50	11,153.5	136.8	58.0	-49.5	11.94	11.94	0.32
11,339.0	64.00	353.90	11,168.3	165.0	54.9	-70.8	9.75	9.69	1.25
11,371.0	66.10	353.70	11,181.8	193.8	51.7	-92.6	6.59	6.56	-0.63
11,402.0	67.90	353.50	11,193.9	222.2	48.6	-114.1	5.84	5.81	-0.65
11,434.0	70.30	354.00	11,205.4	251.9	45.3	-136.5	7.64	7.50	1.56
11,465.0	73.30	355.00	11,215.0	281.2	42.5	-158.4	10.15	9.68	3.23
11,497.0	75.80	355.80	11,223.6	312.0	40.0	-181.0	8.18	7.81	2.50



Stryker Directional Survey Report



Company:	Mewbourne Oil Company .	Local Co-ordinate Reference:	Well Cabre Nino 11 B3NC State Com 1H
Project:	Lea County N.M.	TVD Reference:	3523 + 27 @ 3550.0usft (Patterson 231)
Site:	Section11 22S-34E Cabra Nino 11 B3NC State Com 1H	MD Reference:	3523 + 27 @ 3550.0usft (Patterson 231)
Well:	Cabre Nino 11 B3NC State Com 1H	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)
11,529.0	78.50	356.10	11,230.7	343.1	37.8	-203.6	8.49	8.44	0.94
11,561.0	81.00	357.20	11,236.4	374.5	36.0	-226.2	8.51	7.81	3.44
11,593.0	82.90	359.00	11,240.8	406.2	34.9	-248.3	8.14	5.94	5.63
11,607.0	83.50	359.50	11,242.5	420.1	34.7	-257.8	5.56	4.29	3.57
11,686.0	88.60	0.10	11,247.9	498.9	34.5	-311.2	6.50	6.46	0.76
11,750.0	91.20	359.70	11,248.1	562.9	34.4	-354.4	4.11	4.06	-0.63
11,845.0	91.30	359.80	11,246.0	657.8	33.9	-418.8	0.15	0.11	0.11
11,941.0	89.20	0.00	11,245.6	753.8	33.8	-483.7	2.20	-2.19	0.21
12,036.0	90.10	359.60	11,246.1	848.8	33.4	-548.1	1.04	0.95	-0.42
12,132.0	89.90	359.70	11,246.1	944.8	32.9	-613.3	0.23	-0.21	0.10
12,227.0	90.50	359.50	11,245.8	1,039.8	32.2	-677.9	0.67	0.63	-0.21
12,323.0	89.50	0.00	11,245.8	1,135.8	31.8	-743.0	1.16	-1.04	0.52
12,418.0	90.50	359.30	11,245.8	1,230.8	31.2	-807.5	1.28	1.05	-0.74
12,513.0	90.20	0.40	11,245.2	1,325.8	30.9	-871.8	1.20	-0.32	1.16
12,608.0	91.30	359.60	11,244.0	1,420.8	30.9	-935.9	1.43	1.16	-0.84
12,703.0	89.50	359.70	11,243.3	1,515.8	30.4	-1,000.4	1.90	-1.89	0.11
12,799.0	90.10	359.03	11,243.7	1,611.8	29.3	-1,066.0	0.94	0.63	-0.70
12,894.0	90.60	358.20	11,243.1	1,706.7	27.0	-1,131.7	1.02	0.53	-0.87
12,989.0	91.40	358.30	11,241.4	1,801.7	24.1	-1,197.9	0.85	0.84	0.11
13,084.0	90.70	359.40	11,239.7	1,896.7	22.2	-1,263.4	1.37	-0.74	1.16
13,180.0	91.10	359.40	11,238.2	1,992.6	21.2	-1,328.9	0.42	0.42	0.00
13,275.0	90.50	359.50	11,236.9	2,087.6	20.3	-1,393.7	0.64	-0.63	0.11
13,369.0	89.90	359.10	11,236.5	2,181.6	19.1	-1,458.0	0.77	-0.64	-0.43
13,465.0	90.10	358.80	11,236.5	2,277.6	17.4	-1,524.0	0.38	0.21	-0.31
13,560.0	90.90	358.60	11,235.7	2,372.6	15.2	-1,589.7	0.87	0.84	-0.21
13,654.0	90.50	359.00	11,234.5	2,466.5	13.2	-1,654.6	0.60	-0.43	0.43
13,750.0	90.50	358.60	11,233.7	2,562.5	11.2	-1,720.8	0.42	0.00	-0.42
13,845.0	90.90	358.30	11,232.5	2,657.5	8.7	-1,786.8	0.53	0.42	-0.32
13,940.0	91.30	359.00	11,230.7	2,752.4	6.4	-1,852.5	0.85	0.42	0.74
14,035.0	92.20	359.10	11,227.8	2,847.4	4.9	-1,917.7	0.95	0.95	0.11
14,130.0	91.20	359.60	11,225.0	2,942.3	3.8	-1,982.6	1.18	-1.05	0.53
14,224.0	91.00	359.20	11,223.2	3,036.3	2.8	-2,046.7	0.48	-0.21	-0.43
14,319.0	90.50	358.80	11,222.0	3,131.3	1.1	-2,112.1	0.67	-0.53	-0.42
14,415.0	89.70	358.90	11,221.8	3,227.3	-0.8	-2,178.2	0.84	-0.83	0.10
14,510.0	88.30	359.10	11,223.4	3,322.2	-2.4	-2,243.6	1.49	-1.47	0.21
14,605.0	88.40	358.60	11,226.2	3,417.2	-4.4	-2,309.0	0.54	0.11	-0.53
14,699.0	92.40	0.30	11,225.5	3,511.1	-5.3	-2,373.1	4.62	4.26	1.81
14,794.0	90.70	359.00	11,223.0	3,606.1	-5.8	-2,437.6	2.25	-1.79	-1.37
14,889.0	91.50	359.10	11,221.1	3,701.1	-7.4	-2,502.8	0.85	0.84	0.11
14,984.0	94.80	359.10	11,215.9	3,795.9	-8.9	-2,567.9	3.47	3.47	0.00
15,079.0	91.90	359.00	11,210.4	3,890.7	-10.5	-2,633.1	3.05	-3.05	-0.11
15,173.0	91.90	359.00	11,207.2	3,984.6	-12.1	-2,697.7	0.00	0.00	0.00
15,268.0	92.00	359.40	11,204.0	4,079.6	-13.4	-2,762.7	0.43	0.11	0.42



Stryker Directional Survey Report



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Site:	Section11 22S-34E Cabra Nino 11 B3NC State Com 1H	MD Reference:	3523 + 27 @ 3550.0usft (Patterson 231)
Well:	Cabre Nino 11 B3NC State Com 1H	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)
15,363.0	91.20	0.40	11,201.4	4,174.5	-13.6	-2,826.9	1.35	-0.84	1.05
15,457.0	89.50	1.10	11,200.8	4,268.5	-12.4	-2,889.4	1.96	-1.81	0.74
15,552.0	90.40	2.60	11,200.9	4,363.5	-9.3	-2,951.2	1.84	0.95	1.58
15,647.0	89.00	2.30	11,201.4	4,458.4	-5.2	-3,012.3	1.51	-1.47	-0.32
15,742.0	89.00	2.30	11,203.0	4,553.3	-1.4	-3,073.5	0.00	0.00	0.00
15,820.0	91.00	2.40	11,203.0	4,631.2	1.8	-3,123.7	2.57	2.56	0.13
15,870.0	91.00	2.40	11,202.2	4,681.2	3.9	-3,155.9	0.00	0.00	0.00

15870' MD Projected to Bit

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,536.2	10,504.3	-211.4	76.2	10536.2' MD Phoenix Gyro Tie-In
15,870.0	11,202.2	4,681.2	3.9	15870' MD Projected to Bit



October 11, 2016

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Jackie Lathan

Re: Mewbourne Oil Company
Cabra Nino 11 B3NC State Com #001H
Ojo Chiso; Bone Spring
Lea County, New Mexico
API# 30-025-42597

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
David Calabrese	Original Hole	10,610ft. to 15,820ft.	08-26-16 to 09-03-16	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Todd Estes

Enclosures

CC:

Mewbourne Oil Company
Attn: Frosty Lathan
P.O. Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
P.O. Box 5720
Hobbs, NM 88241

NMEMaNRD\Mewbourne Oil Company\Cabra Nino 11 B3NC State Com #1HM161059

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936) 588-4163



October 11, 2016

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of August 26, 2016, through September 03, 2016 conduct or supervise the taking of a SEDS Original Hole MWD Survey from a depth of 10,610 feet to a depth of 15,820 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Cabra Nino 11 B3NC State Com #001H well, API # 30-025-42597 in Lea County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

**STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
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