

30-015-41304

Mewbourne Oil Co

Eddy County, New Mexico

Sec 9-25S-28E

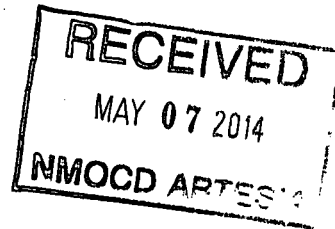
San Lorenzo 9 OB Fee #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

28 March, 2014



DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 9 OB Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2991.0usft (Patterson)
Site:	Sec 9-25S-28E	MD Reference:	WELL @ 2991.0usft (Patterson)
Well:	San Lorenzo 9 OB Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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	Sec 9-25S-28E		
Site Position:		Northing:	413,906.40 usft
From:	Map	Easting:	576,749.14 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 15.729 N
		Longitude:	104° 5' 7.369 W
		Grid Convergence:	0.13 °

Well	San Lorenzo 9 OB Fee #1H		
Well Position	+N/-S	0.0 usft	Northing: 413,934.90 usft
	+E/-W	0.0 usft	Easting: 574,959.50 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 8' 16.051 N
		Longitude:	104° 5' 28.183 W
		Ground Level:	2,971.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	2/13/2014	7.49
			Dip Angle
			(°)
			59.95
			Field Strength
			(nT)
			48,244

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			5.36

Survey Program	Date	3/28/2014		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	9,716.0	MS Gyro Survey (Wellbore #1)	Good_gyro	Good Gyro
9,765.0	14,850.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.44	60.89	100.0	0.2	0.3	0.2	0.44	0.44	0.00	
200.0	0.79	10.37	200.0	1.1	0.8	1.1	0.61	0.35	-50.52	
300.0	1.59	356.95	300.0	3.1	0.8	3.2	0.84	0.80	-13.42	
400.0	2.19	344.26	399.9	6.3	0.3	6.3	0.73	0.60	-12.69	
500.0	2.19	345.20	499.8	10.0	-0.8	9.9	0.04	0.00	0.94	
600.0	2.52	348.04	599.8	14.0	-1.7	13.8	0.35	0.33	2.84	
700.0	2.48	347.37	699.7	18.3	-2.6	18.0	0.05	-0.04	-0.67	
800.0	2.45	337.63	799.6	22.4	-3.9	21.9	0.42	-0.03	-9.74	
900.0	1.96	336.47	899.5	25.9	-5.4	25.3	0.49	-0.49	-1.16	

DDC
Survey Report



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Site:	Sec 9-25S-28E	MD Reference:	WELL @ 2991.0usft (Patterson)
Well:	San Lorenzo 9 OB Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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	2.00	342.80	999.4	29.2	-6.6	28.4	0.22	0.04	6.33
1,100.0	1.61	340.49	1,099.4	32.1	-7.6	31.3	0.40	-0.39	-2.31
1,200.0	1.48	344.73	1,199.4	34.7	-8.4	33.8	0.17	-0.13	4.24
1,300.0	1.58	329.97	1,299.3	37.2	-9.4	36.1	0.41	0.10	-14.76
1,400.0	1.95	313.70	1,399.3	39.5	-11.4	38.3	0.62	0.37	-16.27
1,500.0	1.83	318.73	1,499.2	41.9	-13.6	40.4	0.20	-0.12	5.03
1,600.0	1.61	313.47	1,599.2	44.1	-15.7	42.4	0.27	-0.22	-5.26
1,700.0	1.39	317.12	1,699.1	45.9	-17.6	44.1	0.24	-0.22	3.65
1,800.0	0.93	31.22	1,799.1	47.5	-18.0	45.6	1.45	-0.46	74.10
1,900.0	2.13	61.23	1,899.1	49.1	-15.9	47.4	1.40	1.20	30.01
2,000.0	1.88	36.16	1,999.0	51.3	-13.3	49.8	0.90	-0.25	-25.07
2,100.0	1.97	21.95	2,099.0	54.2	-11.7	52.9	0.48	0.09	-14.21
2,200.0	2.03	40.57	2,198.9	57.2	-9.9	56.0	0.65	0.06	18.62
2,300.0	2.22	65.76	2,298.8	59.3	-7.0	58.4	0.94	0.19	25.19
2,400.0	1.45	72.30	2,398.8	60.5	-4.0	59.8	0.80	-0.77	6.54
2,500.0	1.15	78.62	2,498.8	61.1	-1.8	60.6	0.33	-0.30	6.32
2,600.0	0.92	80.53	2,598.7	61.4	-0.1	61.1	0.23	-0.23	1.91
2,700.0	0.64	62.51	2,698.7	61.8	1.2	61.6	0.37	-0.28	-18.02
2,800.0	0.38	64.71	2,798.7	62.2	2.0	62.1	0.26	-0.26	2.20
2,900.0	0.35	111.98	2,898.7	62.2	2.6	62.2	0.29	-0.03	47.27
3,000.0	0.33	141.18	2,998.7	61.9	3.1	61.9	0.17	-0.02	29.20
3,100.0	0.40	123.86	3,098.7	61.5	3.5	61.5	0.13	0.07	-17.32
3,200.0	0.35	124.95	3,198.7	61.1	4.1	61.2	0.05	-0.05	1.09
3,300.0	0.07	88.19	3,298.7	60.9	4.4	61.1	0.30	-0.28	-36.76
3,400.0	0.36	284.46	3,398.7	61.0	4.2	61.1	0.43	0.29	-163.73
3,500.0	0.45	250.27	3,498.7	60.9	3.5	61.0	0.25	0.09	-34.19
3,600.0	0.36	241.76	3,598.7	60.7	2.8	60.7	0.11	-0.09	-8.51
3,700.0	0.34	247.30	3,698.7	60.4	2.3	60.3	0.04	-0.02	5.54
3,800.0	0.14	246.88	3,798.7	60.2	1.9	60.2	0.20	-0.20	-0.42
3,900.0	0.38	263.33	3,898.7	60.2	1.5	60.0	0.25	0.24	16.45
4,000.0	0.23	261.42	3,998.7	60.1	0.9	59.9	0.15	-0.15	-1.91
4,100.0	0.17	299.13	4,098.7	60.1	0.6	59.9	0.14	-0.06	37.71
4,200.0	0.25	305.40	4,198.7	60.3	0.3	60.1	0.08	0.08	6.27
4,300.0	0.45	295.36	4,298.7	60.6	-0.2	60.3	0.21	0.20	-10.04
4,400.0	0.46	263.07	4,398.7	60.7	-1.0	60.4	0.25	0.01	-32.29
4,500.0	0.56	237.21	4,498.7	60.4	-1.8	60.0	0.25	0.10	-25.86
4,600.0	0.78	222.39	4,598.7	59.7	-2.7	59.1	0.28	0.22	-14.82
4,700.0	0.96	220.77	4,698.7	58.5	-3.7	57.9	0.18	0.18	-1.62
4,800.0	1.13	215.73	4,798.7	57.1	-4.8	56.4	0.19	0.17	-5.04
4,900.0	0.80	240.08	4,898.7	55.9	-6.0	55.1	0.52	-0.33	24.35
5,000.0	1.10	247.35	4,998.6	55.2	-7.5	54.3	0.32	0.30	7.27
5,100.0	1.32	242.19	5,098.6	54.3	-9.4	53.2	0.25	0.22	-5.16
5,200.0	1.39	231.41	5,198.6	53.0	-11.3	51.7	0.26	0.07	-10.78

DDC Survey Report



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Well:	San Lorenzo 9 OB Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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	1.24	226.56	5,298.6	51.5	-13.1	50.1	0.19	-0.15	-4.85	
5,400.0	0.97	228.78	5,398.5	50.2	-14.5	48.6	0.27	-0.27	2.22	
5,500.0	0.90	238.34	5,498.5	49.2	-15.8	47.6	0.17	-0.07	9.56	
5,600.0	1.36	244.17	5,598.5	48.3	-17.5	46.5	0.47	0.46	5.83	
5,700.0	1.29	221.20	5,698.5	47.0	-19.3	44.9	0.53	-0.07	-22.97	
5,800.0	1.12	220.41	5,798.5	45.4	-20.7	43.2	0.17	-0.17	-0.79	
5,900.0	1.19	228.92	5,898.4	43.9	-22.1	41.7	0.19	0.07	8.51	
6,000.0	1.47	232.73	5,998.4	42.5	-23.9	40.1	0.29	0.28	3.81	
6,100.0	1.75	225.64	6,098.4	40.6	-26.1	38.0	0.34	0.28	-7.09	
6,200.0	1.22	254.85	6,198.3	39.3	-28.2	36.5	0.91	-0.53	29.21	
6,300.0	0.77	130.19	6,298.3	38.6	-28.7	35.7	1.77	-0.45	-124.66	
6,400.0	0.97	94.42	6,398.3	38.1	-27.3	35.4	0.57	0.20	-35.77	
6,500.0	0.50	123.58	6,498.3	37.8	-26.1	35.2	0.59	-0.47	29.16	
6,600.0	0.17	252.96	6,598.3	37.5	-25.9	34.9	0.62	-0.33	129.38	
6,700.0	0.94	254.29	6,698.3	37.2	-26.8	34.5	0.77	0.77	1.33	
6,800.0	2.94	137.57	6,798.3	35.1	-25.9	32.5	3.47	2.00	-116.72	
6,900.0	2.61	132.13	6,898.2	31.7	-22.5	29.4	0.42	-0.33	-5.44	
7,000.0	1.37	160.56	6,998.1	29.0	-20.4	27.0	1.55	-1.24	28.43	
7,100.0	0.06	272.93	7,098.1	27.9	-20.0	25.9	1.39	-1.31	112.37	
7,200.0	0.57	321.91	7,198.1	28.3	-20.4	26.3	0.53	0.51	48.98	
7,300.0	0.53	276.62	7,298.1	28.7	-21.2	26.6	0.43	-0.04	-45.29	
7,400.0	1.48	222.12	7,398.1	27.8	-22.5	25.6	1.25	0.95	-54.50	
7,500.0	2.24	209.38	7,498.0	25.2	-24.3	22.8	0.86	0.76	-12.74	
7,600.0	3.17	203.29	7,597.9	20.9	-26.4	18.4	0.97	0.93	-6.09	
7,700.0	2.81	194.82	7,697.8	16.0	-28.1	13.3	0.57	-0.36	-8.47	
7,800.0	2.90	178.45	7,797.6	11.1	-28.7	8.4	0.82	0.09	-16.37	
7,900.0	2.58	189.88	7,897.5	6.4	-29.0	3.6	0.63	-0.32	11.43	
8,000.0	2.04	197.47	7,997.4	2.5	-29.9	-0.3	0.62	-0.54	7.59	
8,100.0	1.53	203.24	8,097.4	-0.5	-30.9	-3.3	0.54	-0.51	5.77	
8,200.0	1.16	211.54	8,197.4	-2.5	-32.0	-5.5	0.42	-0.37	8.30	
8,300.0	0.88	226.20	8,297.4	-3.9	-33.1	-7.0	0.38	-0.28	14.66	
8,400.0	1.66	249.69	8,397.3	-5.0	-35.0	-8.2	0.92	0.78	23.49	
8,500.0	2.49	263.75	8,497.3	-5.7	-38.5	-9.3	0.97	0.83	14.06	
8,600.0	2.51	257.35	8,597.2	-6.4	-42.8	-10.4	0.28	0.02	-6.40	
8,700.0	2.93	254.24	8,697.1	-7.6	-47.4	-12.0	0.45	0.42	-3.11	
8,800.0	1.95	240.50	8,797.0	-9.1	-51.4	-13.9	1.13	-0.98	-13.74	
8,900.0	2.23	221.96	8,896.9	-11.4	-54.1	-16.4	0.73	0.28	-18.54	
9,000.0	1.91	209.87	8,996.8	-14.3	-56.3	-19.5	0.54	-0.32	-12.09	
9,100.0	1.09	198.15	9,096.8	-16.7	-57.4	-22.0	0.87	-0.82	-11.72	
9,200.0	1.54	191.27	9,196.8	-18.9	-58.0	-24.2	0.48	0.45	-6.88	
9,300.0	0.89	171.07	9,296.7	-21.0	-58.1	-26.3	0.77	-0.65	-20.20	
9,400.0	1.70	187.34	9,396.7	-23.2	-58.2	-28.5	0.88	0.81	16.27	
9,500.0	1.15	175.56	9,496.7	-25.7	-58.3	-31.0	0.62	-0.55	-11.78	

DDC
Survey Report



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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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)
9,600.0	1.13	211.41	9,596.7	-27.5	-58.7	-32.9	0.70	-0.02	35.85
9,700.0	0.47	160.16	9,696.7	-28.8	-59.1	-34.1	0.91	-0.66	-51.25
TIE IN @ 9716' MD / 9713' TVD									
9,716.0	0.33	193.02	9,712.7	-28.9	-59.1	-34.2	1.64	-0.88	205.38
9,765.0	0.70	240.80	9,761.7	-29.1	-59.4	-34.6	1.10	0.76	97.51
9,797.0	1.10	37.20	9,793.7	-29.0	-59.4	-34.4	5.51	1.25	488.75
9,829.0	4.80	50.40	9,825.6	-27.9	-58.1	-33.2	11.68	11.56	41.25
9,860.0	7.70	48.80	9,856.4	-25.7	-55.6	-30.8	9.37	9.35	-5.16
9,892.0	9.50	41.30	9,888.1	-22.3	-52.2	-27.1	6.62	5.63	-23.44
9,923.0	11.90	36.40	9,918.5	-17.8	-48.6	-22.3	8.27	7.74	-15.81
9,955.0	15.20	36.20	9,949.6	-11.8	-44.2	-15.8	10.31	10.31	-0.63
9,987.0	17.90	35.30	9,980.3	-4.4	-38.9	-8.0	8.48	8.44	-2.81
10,018.0	20.80	35.50	10,009.5	4.0	-32.9	0.9	9.36	9.35	0.65
10,050.0	23.90	35.80	10,039.1	13.9	-25.8	11.4	9.69	9.69	0.94
10,082.0	27.00	35.80	10,068.0	25.0	-17.8	23.3	9.69	9.69	0.00
10,114.0	29.20	33.00	10,096.3	37.5	-9.3	36.5	8.01	6.88	-8.75
10,145.0	31.70	31.80	10,123.0	50.8	-0.9	50.4	8.30	8.06	-3.87
10,177.0	35.10	35.00	10,149.7	65.4	8.8	66.0	11.96	10.63	10.00
10,209.0	36.10	36.40	10,175.7	80.6	19.7	82.1	4.03	3.13	4.38
10,241.0	38.10	35.70	10,201.2	96.2	31.1	98.7	6.39	6.25	-2.19
10,272.0	40.70	37.20	10,225.2	112.0	42.8	115.5	8.93	8.39	4.84
10,304.0	44.70	35.70	10,248.7	129.4	55.6	134.1	12.90	12.50	-4.69
10,335.0	47.40	35.30	10,270.2	147.6	68.6	153.4	8.76	8.71	-1.29
10,367.0	49.80	36.40	10,291.4	167.1	82.7	174.1	7.93	7.50	3.44
10,398.0	51.70	36.00	10,311.0	186.4	96.8	194.7	6.21	6.13	-1.29
CROSSED HARD LINE @ 10415' MD / 10322' TVD									
10,415.3	52.94	36.66	10,321.6	197.5	104.9	206.4	7.78	7.18	3.80
10,430.0	54.00	37.20	10,330.3	206.9	112.0	216.5	7.78	7.20	3.69
10,461.0	57.20	37.80	10,347.8	227.2	127.6	238.1	10.45	10.32	1.94
10,493.0	60.80	38.00	10,364.3	248.8	144.5	261.2	11.26	11.25	0.63
10,525.0	62.10	37.10	10,379.6	271.1	161.6	285.0	4.75	4.06	-2.81
10,560.0	65.40	37.10	10,395.1	296.2	180.5	311.7	9.43	9.43	0.00
10,615.0	69.30	36.90	10,416.3	336.7	211.1	354.9	7.10	7.09	-0.36
10,646.0	68.90	36.00	10,427.3	360.0	228.3	379.7	3.00	-1.29	-2.90
10,678.0	68.60	35.80	10,438.9	384.1	245.8	405.4	1.10	-0.94	-0.63
10,709.0	68.20	36.00	10,450.3	407.5	262.7	430.2	1.42	-1.29	0.65
10,741.0	66.90	35.70	10,462.5	431.5	280.0	455.7	4.15	-4.06	-0.94
10,773.0	66.80	35.50	10,475.1	455.4	297.1	481.1	0.65	-0.31	-0.63
10,804.0	66.40	34.10	10,487.4	478.7	313.3	505.9	4.34	-1.29	-4.52
10,836.0	66.60	34.80	10,500.2	502.9	329.9	531.6	2.10	0.63	2.19
10,868.0	69.90	34.80	10,512.0	527.3	346.9	557.4	10.31	10.31	0.00
10,900.0	74.90	34.60	10,521.7	552.4	364.3	584.0	15.64	15.63	-0.63
10,931.0	79.00	35.50	10,528.7	577.1	381.6	610.3	13.52	13.23	2.90
10,946.0	81.80	33.90	10,531.2	589.3	390.0	623.1	21.43	18.67	-10.67

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 9 OB Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2991.0usft (Patterson)
Site:	Sec 9-25S-28E	MD Reference:	WELL @ 2991.0usft (Patterson)
Well:	San Lorenzo 9 OB Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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)
10,994.0	86.80	28.80	10,536.0	630.1	414.9	666.1	14.84	10.42	-10.63
11,026.0	86.70	27.00	10,537.8	658.3	429.8	695.6	5.62	-0.31	-5.63
11,058.0	89.50	27.80	10,538.9	686.7	444.5	725.2	9.10	8.75	2.50
11,073.0	91.40	28.50	10,538.7	699.9	451.6	739.0	13.50	12.67	4.67
11,089.0	93.70	28.80	10,538.0	713.9	459.3	753.7	14.50	14.38	1.88
11,121.0	95.80	28.10	10,535.4	742.0	474.4	783.0	6.92	6.56	-2.19
11,153.0	95.50	25.80	10,532.2	770.4	488.9	812.7	7.21	-0.94	-7.19
11,184.0	95.30	25.30	10,529.3	798.2	502.2	841.6	1.73	-0.65	-1.61
11,216.0	94.70	24.40	10,526.5	827.1	515.6	871.7	3.37	-1.88	-2.81
11,247.0	92.30	23.00	10,524.6	855.5	528.0	901.0	8.96	-7.74	-4.52
11,262.0	90.60	21.10	10,524.3	869.4	533.6	915.4	16.99	-11.33	-12.67
11,279.0	88.60	22.10	10,524.4	885.2	539.9	931.7	13.15	-11.76	5.88
11,311.0	87.40	19.70	10,525.5	915.0	551.3	962.5	8.38	-3.75	-7.50
11,342.0	88.20	19.30	10,526.7	944.2	561.7	992.6	2.88	2.58	-1.29
11,374.0	89.20	19.00	10,527.4	974.5	572.1	1,023.6	3.26	3.13	-0.94
11,405.0	89.30	17.70	10,527.8	1,003.9	581.9	1,053.8	4.21	0.32	-4.19
11,437.0	88.00	12.80	10,528.6	1,034.7	590.3	1,085.3	15.84	-4.06	-15.31
11,468.0	87.60	11.20	10,529.8	1,065.0	596.8	1,116.1	5.32	-1.29	-5.16
11,500.0	88.60	11.80	10,530.8	1,096.4	603.1	1,147.9	3.64	3.13	1.88
11,532.0	89.70	10.70	10,531.3	1,127.7	609.4	1,179.7	4.86	3.44	-3.44
11,563.0	90.50	6.30	10,531.2	1,158.4	614.0	1,210.7	14.43	2.58	-14.19
11,595.0	88.20	5.10	10,531.6	1,190.2	617.1	1,242.7	8.11	-7.19	-3.75
11,626.0	89.30	4.70	10,532.3	1,221.1	619.8	1,273.7	3.78	3.55	-1.29
11,658.0	89.40	4.40	10,532.6	1,253.0	622.3	1,305.7	0.99	0.31	-0.94
11,690.0	89.20	3.30	10,533.0	1,284.9	624.5	1,337.7	3.49	-0.63	-3.44
11,721.0	89.80	5.10	10,533.3	1,315.9	626.7	1,368.6	6.12	1.94	5.81
11,753.0	90.00	4.20	10,533.4	1,347.7	629.3	1,400.6	2.88	0.63	-2.81
11,784.0	90.00	3.30	10,533.4	1,378.7	631.4	1,431.6	2.90	0.00	-2.90
11,816.0	90.00	2.10	10,533.4	1,410.6	632.9	1,463.6	3.75	0.00	-3.75
11,848.0	89.60	1.20	10,533.5	1,442.6	633.8	1,495.5	3.08	-1.25	-2.81
11,879.0	89.70	1.20	10,533.7	1,473.6	634.4	1,526.4	0.32	0.32	0.00
11,911.0	90.00	1.00	10,533.7	1,505.6	635.1	1,558.4	1.13	0.94	-0.63
11,943.0	90.00	0.70	10,533.7	1,537.6	635.5	1,590.3	0.94	0.00	-0.94
11,974.0	88.70	359.10	10,534.1	1,568.6	635.5	1,621.1	6.65	-4.19	-5.16
12,006.0	89.40	358.20	10,534.6	1,600.6	634.7	1,652.9	3.56	2.19	-2.81
12,038.0	91.60	357.00	10,534.3	1,632.6	633.4	1,684.6	7.83	6.88	-3.75
12,069.0	91.60	356.30	10,533.5	1,663.5	631.6	1,715.2	2.26	0.00	-2.26
12,101.0	91.80	356.60	10,532.5	1,695.4	629.6	1,746.8	1.13	0.63	0.94
12,133.0	91.60	357.20	10,531.6	1,727.4	627.9	1,778.5	1.98	-0.63	1.88
12,165.0	90.80	356.50	10,530.9	1,759.3	626.1	1,810.1	3.32	-2.50	-2.19
12,196.0	89.90	355.60	10,530.7	1,790.2	624.0	1,840.7	4.11	-2.90	-2.90
12,228.0	89.60	355.20	10,530.9	1,822.1	621.4	1,872.2	1.56	-0.94	-1.25
12,260.0	89.50	355.20	10,531.1	1,854.0	618.7	1,903.7	0.31	-0.31	0.00

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 9 OB Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2991.0usft (Patterson)
Site:	Sec 9-25S-28E	MD Reference:	WELL @ 2991.0usft (Patterson)
Well:	San Lorenzo 9 OB Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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)	
12,291.0	88.80	354.50	10,531.6	1,884.9	615.9	1,934.2	3.19	-2.26	-2.26	
12,323.0	89.60	353.80	10,532.0	1,916.7	612.7	1,965.6	3.32	2.50	-2.19	
12,354.0	89.80	353.10	10,532.2	1,947.5	609.1	1,995.9	2.35	0.65	-2.26	
12,386.0	93.20	355.40	10,531.3	1,979.3	605.9	2,027.3	12.83	10.63	7.19	
12,418.0	93.90	355.40	10,529.4	2,011.2	603.4	2,058.7	2.19	2.19	0.00	
12,450.0	93.30	355.60	10,527.4	2,043.0	600.9	2,090.2	1.98	-1.88	0.63	
12,481.0	92.50	355.60	10,525.8	2,073.9	598.5	2,120.7	2.58	-2.58	0.00	
12,513.0	91.20	355.80	10,524.8	2,105.8	596.1	2,152.2	4.11	-4.06	0.63	
12,545.0	90.80	355.60	10,524.2	2,137.7	593.7	2,183.8	1.40	-1.25	-0.63	
12,576.0	91.10	356.50	10,523.7	2,168.6	591.6	2,214.4	3.06	0.97	2.90	
12,608.0	89.30	356.10	10,523.6	2,200.5	589.5	2,246.0	5.76	-5.63	-1.25	
12,639.0	88.70	356.60	10,524.1	2,231.5	587.5	2,276.6	2.52	-1.94	1.61	
12,671.0	88.20	357.30	10,525.0	2,263.4	585.8	2,308.2	2.69	-1.56	2.19	
12,703.0	87.60	357.30	10,526.1	2,295.3	584.3	2,339.9	1.88	-1.88	0.00	
12,734.0	87.60	357.90	10,527.4	2,326.3	583.0	2,370.6	1.93	0.00	1.94	
12,766.0	87.30	357.70	10,528.9	2,358.2	581.8	2,402.3	1.13	-0.94	-0.63	
12,797.0	87.20	357.90	10,530.4	2,389.2	580.6	2,433.0	0.72	-0.32	0.65	
12,829.0	87.50	357.00	10,531.8	2,421.1	579.2	2,464.6	2.96	0.94	-2.81	
12,861.0	87.60	357.20	10,533.2	2,453.0	577.6	2,496.3	0.70	0.31	0.63	
12,892.0	90.00	358.60	10,533.9	2,484.0	576.4	2,527.0	8.96	7.74	4.52	
12,924.0	91.90	358.80	10,533.3	2,516.0	575.7	2,558.8	5.97	5.94	0.63	
12,956.0	91.50	358.00	10,532.4	2,548.0	574.8	2,590.5	2.79	-1.25	-2.50	
12,987.0	91.50	358.00	10,531.6	2,578.9	573.7	2,621.3	0.00	0.00	0.00	
13,019.0	91.20	357.20	10,530.8	2,610.9	572.4	2,653.0	2.67	-0.94	-2.50	
13,050.0	90.90	357.00	10,530.2	2,641.9	570.8	2,683.6	1.16	-0.97	-0.65	
13,082.0	89.50	356.50	10,530.1	2,673.8	569.0	2,715.3	4.65	-4.38	-1.56	
13,114.0	89.80	357.00	10,530.3	2,705.8	567.2	2,746.9	1.82	0.94	1.56	
13,146.0	89.20	357.00	10,530.6	2,737.7	565.5	2,778.6	1.88	-1.88	0.00	
13,177.0	90.00	357.30	10,530.8	2,768.7	564.0	2,809.2	2.76	2.58	0.97	
13,209.0	89.10	357.20	10,531.1	2,800.6	562.4	2,840.9	2.83	-2.81	-0.31	
13,240.0	88.80	357.30	10,531.6	2,831.6	561.0	2,871.6	1.02	-0.97	0.32	
13,272.0	89.70	357.70	10,532.1	2,863.6	559.6	2,903.3	3.08	2.81	1.25	
13,303.0	89.60	356.50	10,532.2	2,894.5	558.0	2,934.0	3.88	-0.32	-3.87	
13,335.0	89.30	356.10	10,532.6	2,926.4	555.9	2,965.6	1.56	-0.94	-1.25	
13,367.0	88.60	355.90	10,533.1	2,958.4	553.7	2,997.1	2.28	-2.19	-0.63	
13,398.0	89.30	356.60	10,533.7	2,989.3	551.7	3,027.8	3.19	2.26	2.26	
13,430.0	90.80	357.90	10,533.7	3,021.3	550.1	3,059.4	6.20	4.69	4.06	
13,461.0	90.80	357.50	10,533.2	3,052.2	548.9	3,090.2	1.29	0.00	-1.29	
13,493.0	90.50	357.20	10,532.9	3,084.2	547.4	3,121.8	1.33	-0.94	-0.94	
13,525.0	89.80	356.10	10,532.8	3,116.1	545.5	3,153.5	4.07	-2.19	-3.44	
13,556.0	89.70	355.80	10,532.9	3,147.1	543.4	3,184.0	1.02	-0.32	-0.97	
13,588.0	89.50	355.60	10,533.2	3,179.0	541.0	3,215.6	0.88	-0.63	-0.63	
13,620.0	89.40	355.40	10,533.5	3,210.9	538.4	3,247.1	0.70	-0.31	-0.63	
13,651.0	89.30	356.80	10,533.8	3,241.8	536.3	3,277.7	4.53	-0.32	4.52	

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 9 OB Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2991.0usft (Patterson)
Site:	Sec 9-25S-28E	MD Reference:	WELL @ 2991.0usft (Patterson)
Well:	San Lorenzo 9 OB Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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)
13,683.0	89.40	356.60	10,534.2	3,273.7	534.5	3,309.3	0.70	0.31	-0.63
13,715.0	90.30	356.10	10,534.3	3,305.7	532.5	3,341.0	3.22	2.81	-1.56
13,746.0	90.40	355.80	10,534.1	3,336.6	530.3	3,371.5	1.02	0.32	-0.97
13,778.0	90.40	355.80	10,533.9	3,368.5	527.9	3,403.1	0.00	0.00	0.00
13,809.0	90.10	356.10	10,533.7	3,399.4	525.7	3,433.7	1.37	-0.97	0.97
13,841.0	90.80	356.50	10,533.5	3,431.4	523.7	3,465.3	2.52	2.19	1.25
13,872.0	91.10	356.50	10,533.0	3,462.3	521.8	3,495.9	0.97	0.97	0.00
13,904.0	90.80	356.30	10,532.4	3,494.2	519.8	3,527.5	1.13	-0.94	-0.63
13,935.0	90.80	356.50	10,532.0	3,525.2	517.8	3,558.1	0.65	0.00	0.65
13,967.0	89.50	356.30	10,531.9	3,557.1	515.8	3,589.7	4.11	-4.06	-0.63
13,999.0	88.90	356.80	10,532.4	3,589.0	513.9	3,621.3	2.44	-1.88	1.56
14,030.0	90.10	354.70	10,532.6	3,619.9	511.6	3,651.9	7.80	3.87	-6.77
14,062.0	90.30	354.50	10,532.5	3,651.8	508.6	3,683.3	0.88	0.63	-0.63
14,094.0	90.80	354.40	10,532.2	3,683.7	505.5	3,714.8	1.59	1.56	-0.31
14,125.0	90.50	354.40	10,531.9	3,714.5	502.5	3,745.2	0.97	-0.97	0.00
14,157.0	90.50	354.40	10,531.6	3,746.4	499.3	3,776.6	0.00	0.00	0.00
14,189.0	90.40	354.20	10,531.3	3,778.2	496.2	3,808.0	0.70	-0.31	-0.63
14,220.0	89.90	354.00	10,531.2	3,809.0	493.0	3,838.4	1.74	-1.61	-0.65
14,252.0	89.80	354.00	10,531.3	3,840.9	489.6	3,869.8	0.31	-0.31	0.00
14,284.0	89.30	354.00	10,531.6	3,872.7	486.3	3,901.2	1.56	-1.56	0.00
14,315.0	88.40	353.80	10,532.2	3,903.5	483.0	3,931.5	2.97	-2.90	-0.65
14,347.0	88.30	353.80	10,533.1	3,935.3	479.5	3,962.9	0.31	-0.31	0.00
14,378.0	87.90	354.00	10,534.1	3,966.1	476.2	3,993.2	1.44	-1.29	0.65
14,410.0	87.90	353.30	10,535.3	3,997.9	472.7	4,024.6	2.19	0.00	-2.19
14,442.0	87.70	353.30	10,536.5	4,029.6	469.0	4,055.8	0.63	-0.63	0.00
14,473.0	87.70	353.00	10,537.8	4,060.4	465.3	4,086.1	0.97	0.00	-0.97
14,505.0	87.20	352.80	10,539.2	4,092.1	461.3	4,117.3	1.68	-1.56	-0.63
14,536.0	87.40	352.60	10,540.7	4,122.8	457.4	4,147.5	0.91	0.65	-0.65
14,568.0	87.20	352.60	10,542.2	4,154.5	453.3	4,178.7	0.63	-0.63	0.00
14,600.0	86.70	352.60	10,543.9	4,186.2	449.2	4,209.9	1.56	-1.56	0.00
14,631.0	89.70	352.40	10,544.9	4,216.9	445.1	4,240.1	9.70	9.68	-0.65
14,663.0	90.00	351.50	10,544.9	4,248.6	440.6	4,271.2	2.96	0.94	-2.81
14,694.0	89.20	351.50	10,545.2	4,279.3	436.1	4,301.3	2.58	-2.58	0.00
14,726.0	88.00	352.20	10,545.9	4,310.9	431.5	4,332.4	4.34	-3.75	2.19
14,758.0	87.70	352.20	10,547.1	4,342.6	427.2	4,363.5	0.94	-0.94	0.00
14,789.0	87.50	352.20	10,548.4	4,373.3	423.0	4,393.7	0.65	-0.65	0.00
14,795.0	87.30	352.10	10,548.7	4,379.3	422.2	4,399.5	3.73	-3.33	-1.67
TD @ 14850' MD / 10551' TVD									
14,850.0	87.30	352.10	10,551.3	4,433.7	414.6	4,453.0	0.00	0.00	0.00

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 9 OB Fee #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 2991.0usft (Patterson)
Site:	Sec 9-25S-28E	MD Reference:	WELL @ 2991.0usft (Patterson)
Well:	San Lorenzo 9 OB Fee #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,716.0	9,712.7	-28.9	-59.1	TIE IN @ 9716' MD / 9713' TVD
10,415.3	10,321.6	197.5	104.9	CROSSED HARD LINE @ 10415' MD / 10322' TVD
14,850.0	10,551.3	4,433.7	414.6	TD @ 14850' MD / 10551' TVD

Checked By: _____	Approved By: _____	Date: _____
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Operating Company Mewbourne Oil Co.
 Well Name & Number San Lorenzo 9 OB Fee #1H
 Sales Ticket Number 6264214
 Date 3/28/2014

Company Rep Travis Mann
 Field San Lorenzo
 BOT Service Rep Zach Blenkinsopp
 District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	110000	6.276	6.151	LTC / 8RD	0.03826	10,610.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01493	4,430.85	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	10551.00	KOP	9793.00	Open Hole	6.125	Casing Vol. (bbl)	398.7
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Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat	Shear Press.	Max. Rate	Displ. (BBL)
Liner Ten 10	10292414	JR SLV W/ 4.750" ALT SEAL BORE ID	10356.15	4.00	5.750	3.913				

Zone Length	H409400010	S3 CASING HANGING PACKER	10360.15	4.61	5.875	3.875		1670		
	H299900281	4.5 VAMTOP x 4.5 LT&C XO	10364.76	0.91	5.000	4.000				
	H299900281	4.5 LT&C x 4.5 LT&C CLR	10365.67	0.59	5.000	4.500				
	H299760014	4.5 LT&C 13.5# NIPPLE	10366.26	7.46	4.500	4.000				
		(7) 4.5 LT&C 13.5# P110 CSG/JNTS	10373.72	295.25	4.500	3.920				
	H810090200	3.500 EXPress Sleeve (Zone 30)	10668.97	2.40	5.630		3.447	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	10671.37	127.21	4.500	3.920				
	H810090199	3.438 EXPress Sleeve (Zone 29)	10798.58	2.40	5.630		3.385	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	10800.98	127.25	4.500	3.920				
	H810090198	3.375 EXPress Sleeve (Zone 28)	10928.23	2.40	5.630		3.322	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	10930.63	212.49	4.500	3.920				
	H810090197	3.313 EXPress Sleeve (Zone 27)	11143.12	2.40	5.820		3.260	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	11145.52	126.57	4.500	3.920				
	H810090196	3.250 EXPress Sleeve (Zone 26)	11272.09	2.40	5.750		3.197	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	11274.49	126.58	4.500	3.920				
	H810090195	3.188 EXPress Sleeve (Zone 25)	11401.07	2.40	5.820		3.135	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	11403.47	126.74	4.500	3.920				
	H810090194	3.125 EXPress Sleeve (Zone 24)	11530.21	2.40	5.750		3.072	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	11532.61	127.52	4.500	3.920				
	H810090193	3.063 EXPress Sleeve (Zone 23)	11660.13	2.40	5.820		3.010	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	11662.53	168.93	4.500	3.920				
	H810090192	3.000 EXPress Sleeve (Zone 22)	11831.46	2.40	5.750		2.947	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	11833.86	169.20	4.500	3.920				
	H810090191	2.938 EXPress Sleeve (Zone 21)	12003.06	2.40	5.820		2.885	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	12005.46	126.75	4.500	3.920				
	H810090190	2.875 EXPress Sleeve (Zone 20)	12132.21	2.40	5.750		2.822	2286		
		(2) 4.5 LT&C 13.5# P110 JNTS/CSG	12134.61	84.43	4.500	3.920				
	H810090189	2.813 EXPress Sleeve (Zone 19)	12219.04	2.40	5.820		2.760	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	12221.44	169.79	4.500	3.920				
	H810090188	2.750 EXPress Sleeve (Zone 18)	12391.23	2.40	5.750		2.697	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	12393.63	127.27	4.500	3.920				
	H810090187	2.688 EXPress Sleeve (Zone 17)	12520.90	2.40	5.820		2.635	2286		

Operating Company Mewbourne Oil Co.
Well Name & Number San Lorenzo 9 OB Fee #1H
Sales Ticket Number 6264214
Date 3/28/2014

Company Rep Travis Mann
Field San Lorenzo
BOT Service Rep Zach Blenkinsopp
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	110000	6.276	6.151	LTC / 8RD	0.03826	10,610.00	9,960	6,230
Top Liner	4.500	13.50	110000	3.920	3.795	LTC / 8RD	0.01493	4,430.85	12,410	10,690
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	10551.00	KOP	9793.00	Open Hole	6.125	Casing Vol. (bbl)	398.7
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Carry Fluid Weight (ppg)	8.4	Propan Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat	Shear Press.	Max Rate	Displ. (BBL)
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	12523.30	127.61	4.500	3.920				
	H810090186	2.625 EXPress Sleeve (Zone 16)	12650.91	2.40	5.750		2.572	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	12653.31	211.95	4.500	3.920				
	H810090185	2.563 EXPress Sleeve (Zone 15)	12865.26	2.40	5.820		2.510	2286		
		(2) 4.5 LT&C 13.5# P110 JNTS/CSG	12867.66	85.29	4.500	3.920				
	H810090184	2.500 EXPress Sleeve (Zone 14)	12952.95	2.40	5.750		2.447	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	12955.35	127.57	4.500	3.920				
	H810090183	2.438 EXPress Sleeve (Zone 13)	13082.92	2.40	5.820		2.385	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	13085.32	127.62	4.500	3.920				
	H810090182	2.375 EXPress Sleeve (Zone 12)	13212.94	2.40	5.750		2.322	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	13215.34	127.26	4.500	3.920				
	H810090181	2.313 EXPress Sleeve (Zone 11)	13342.60	2.40	5.820		2.260	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	13345.00	127.44	4.500	3.920				
	H810090180	2.250 EXPress Sleeve (Zone 10)	13472.44	2.40	5.750		2.197	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	13474.84	127.27	4.500	3.920				
	H810090179	2.188 EXPress Sleeve (Zone 9)	13602.11	2.40	5.820		2.135	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	13604.51	170.03	4.500	3.920				
	H810090178	2.125 EXPress Sleeve (Zone 8)	13774.54	2.40	5.750		2.072	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	13776.94	166.23	4.500	3.920				
	H810090177	2.063 EXPress Sleeve (Zone 7)	13943.17	2.40	5.820		2.010	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	13945.57	127.01	4.500	3.920				
	H810090176	2.000 EXPress Sleeve (Zone 6)	14072.58	2.40	5.750		1.947	2286		
		(2) 4.5 LT&C 13.5# P110 JNTS/CSG	14074.98	84.78	4.500	3.920				
	H810090175	1.938 EXPress Sleeve (Zone 5)	14159.76	2.40	5.820		1.885	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	14162.16	127.59	4.500	3.920				
	H810090174	1.875 EXPress Sleeve (Zone 4)	14289.75	2.40	5.750		1.822	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	14292.15	167.89	4.500	3.920				
	H810090173	1.813 EXPress Sleeve (Zone 3)	14460.04	2.40	5.820		1.760	2286		
		(4) 4.5 LT&C 13.5# P110 JNTS/CSG	14462.44	169.88	4.500	3.920				
	H810090172	1.75 EXPress Sleeve (Zone 2)	14632.32	2.40	5.750		1.697	2286		
		(3) 4.5 LT&C 13.5# P110 JNTS/CSG	14634.72	127.20	4.500	3.920				
	H299900281	4-1/2" LT&C COLLAR	14761.92	0.59	5.000	4.500				
	H299710014	4-1/2" 13.5# LT&C SPACER NIPPLE	14762.51	7.51	4.500	4.000				
	H810070028	ALPHA SLEEVE LTC (Zone 1)	14770.02	3.75	5.750	3.063		6881		
	H809890007	WIV TOOL	14773.77	2.87	5.000	3.875				
	H299900281	4-1/2" LT&C COLLAR	14776.64	0.59	5.000	4.500				
	H299710014	4-1/2" 13.5# LT&C SPACER NIPPLE	14777.23	7.50	4.500	4.000				

Company Rep	Travis Mann
Field	San Lorenzo
BOT Service Rep	Zach Blenkinsopp
District Location	Odessa, TX



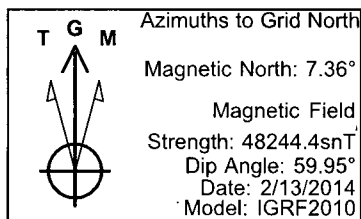
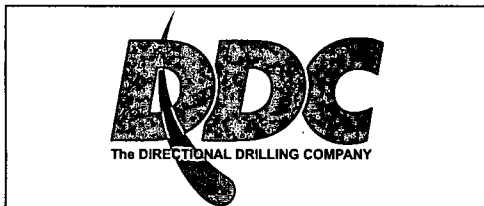
Carry Fluid Weight (ppg)	8.4	Propan Content (ppa)		Max Drill Out Size	0
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[illegible]

Company Name: Mewbourne Oil Co
San Lorenzo 9 OB Fee #1H
Eddy County, New Mexico
Rig: Patterson #187
Created By: James Dawson
Date: 3/28/2014

San Lorenzo 9 OB Fee #1H
Eddy County, New Mexico
Q130363 & WT-140137
Design #4

Mewbourne Oil Company



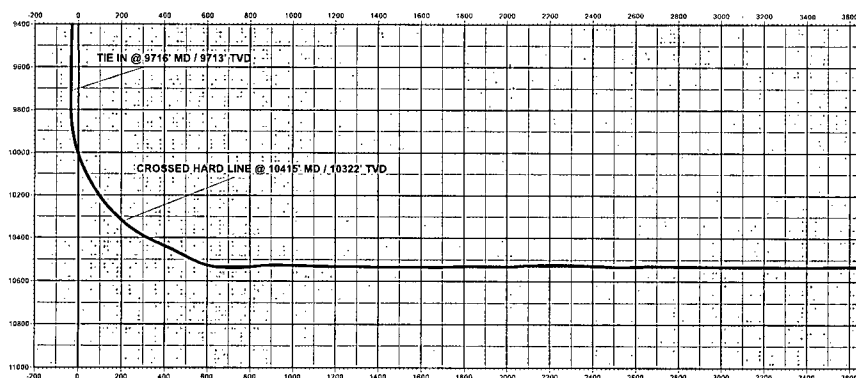
PROJECT DETAILS: Eddy County, New Mexico

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: San Lorenzo 9 OB Fee #1H					
+N/-S	+E/-W	Northings	Eastings	Latitude	Longitude
0.0	0.0	413934.90	574959.50	32° 8' 16.051 N	104° 5' 28.193 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northings	Eastings
PBHL San Lorenzo 9 OB Fee #1H D83	10450.0	4716.2	442.6	418651.08	575402.09
- plan misses target center by 39.0uoft at 15121.7uoft MD (10530.0 TVD, 4716.2 N, 442.6 E)					
PBHL San Lorenzo 9 OB Fee #1H D84	10530.0	4716.2	442.6	418651.08	575402.09
- plan hits target center					

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsact	Departure	Annotation	
9716.0	0.33	193.02	9712.7	-28.9	-59.1	-34.2	221.3	TIE IN @ 9716' MD / 9713' TVD	
10415.3	52.94	36.66	10321.6	197.5	194.9	256.4	502.9	CROSSED HARD LINE @ 10415' MD / 10322' TVD	
14850.0	87.30	352.19	10351.3	4433.7	414.8	4453.0	4889.4	TD @ 14850' MD / 10551' TVD	



Vertical Section at 5.36° (200 uoft/in)

