

30-015-41153

Mewbourne Oil Co

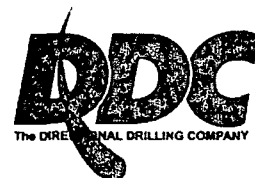
Eddy County, New Mexico
Sec 22, T25S, R28E
San Lorenzo 22/27 LE #2H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

22 July, 2013



DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well San Lorenzo 22/27 LE #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson)
Site:	Sec 22, T25S, R28E	MD Reference:	WELL @ 3005.0usft (Patterson)
Well:	San Lorenzo 22/27 LE #2H	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 22, T25S, R28E			
Site Position:		Northing:	405,407.81 usft	Latitude:	32° 6' 51.599 N
From:	Map	Easting:	577,806.04 usft	Longitude:	104° 4' 55.307 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well:	San Lorenzo/22/27/LE #2H					
Well Position	+N-S	0.0 usft	Northing:	405,406.30 usft	Latitude:	32° 6' 51.575 N
	+E-W	0.0 usft	Easting:	578,186.20 usft	Longitude:	104° 4' 50.887 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,985.0 usft	

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/5/2013	7.57	59.95	48,300

Design:	Wellbore #1
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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	179.58

Survey Program		Date: 7/22/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	9,790.0	VES Gyro Survey (Wellbore #1)	Good_gyro	Good Gyro
9,837.0	14,760.0	MWD Surveys (Wellbore #1)	MWD default	MWD - Standard

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	0.29	193.24	100.0	-0.2	-0.1	0.2	0.29	0.29	0.00
	200.0	0.18	183.98	200.0	-0.6	-0.1	0.6	0.12	-0.11	-9.26
	300.0	0.31	215.95	300.0	-1.0	-0.3	1.0	0.18	0.13	31.97
	400.0	0.32	212.71	400.0	-1.5	-0.6	1.5	0.02	0.01	-3.24
	500.0	0.28	275.04	500.0	-1.7	-1.0	1.7	0.31	-0.04	62.33
	600.0	0.21	19.29	600.0	-1.5	-1.2	1.5	0.39	-0.07	104.25
	700.0	0.38	88.22	700.0	-1.3	-0.8	1.3	0.36	0.17	68.93
	800.0	0.49	102.41	800.0	-1.4	0.0	1.4	0.15	0.11	14.19
	900.0	0.71	142.79	900.0	-2.0	0.7	2.0	0.46	0.22	40.38

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well: San Lorenzo 22/27 LE #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson)
Site:	Sec 22 T25S R28E	MD Reference:	WELL @ 3005.0usft (Patterson)
Well:	San Lorenzo 22/27 LE #2H	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	0.67	168.00	1,000.0	-3.0	1.2	3.1	0.30	-0.04	25.21	
1,100.0	0.72	160.28	1,100.0	-4.2	1.6	4.2	0.11	0.05	-7.72	
1,200.0	0.54	170.10	1,200.0	-5.3	1.9	5.3	0.21	-0.18	9.82	
1,300.0	0.31	191.01	1,300.0	-6.0	1.9	6.0	0.27	-0.23	20.91	
1,400.0	0.30	248.34	1,400.0	-6.4	1.6	6.4	0.29	-0.01	57.33	
1,500.0	0.48	290.09	1,500.0	-6.3	1.0	6.3	0.32	0.18	41.75	
1,600.0	0.49	306.68	1,600.0	-5.9	0.2	5.9	0.14	0.01	16.59	
1,700.0	0.74	277.23	1,699.9	-5.6	-0.7	5.6	0.40	0.25	-29.45	
1,800.0	0.33	7.08	1,799.9	-5.2	-1.4	5.2	0.81	-0.41	89.85	
1,900.0	2.94	90.32	1,899.9	-4.9	1.2	4.9	2.92	2.61	83.24	
2,000.0	3.69	92.66	1,999.7	-5.1	7.0	5.2	0.76	0.75	2.34	
2,100.0	3.85	95.76	2,099.5	-5.6	13.6	5.7	0.26	0.16	3.10	
2,200.0	4.08	96.77	2,199.3	-6.3	20.5	6.5	0.24	0.23	1.01	
2,300.0	3.96	95.21	2,299.0	-7.1	27.4	7.3	0.16	-0.12	-1.56	
2,400.0	3.49	98.18	2,398.8	-7.8	33.9	8.1	0.51	-0.47	2.97	
2,500.0	2.70	101.34	2,498.7	-8.7	39.2	9.0	0.81	-0.79	3.16	
2,600.0	1.99	102.33	2,598.6	-9.6	43.2	9.9	0.71	-0.71	0.99	
2,700.0	1.66	100.67	2,698.5	-10.2	46.3	10.5	0.33	-0.33	-1.66	
2,800.0	1.13	92.95	2,798.5	-10.5	48.7	10.9	0.56	-0.53	-7.72	
2,900.0	1.12	93.28	2,898.5	-10.6	50.7	11.0	0.01	-0.01	0.33	
3,000.0	1.18	90.21	2,998.5	-10.7	52.7	11.1	0.09	0.06	-3.07	
3,100.0	1.26	89.26	3,098.4	-10.7	54.8	11.1	0.08	0.08	-0.95	
3,200.0	1.29	92.54	3,198.4	-10.7	57.0	11.1	0.08	0.03	3.28	
3,300.0	1.07	85.49	3,298.4	-10.7	59.1	11.1	0.26	-0.22	-7.05	
3,400.0	0.83	84.28	3,398.4	-10.5	60.8	11.0	0.24	-0.24	-1.21	
3,500.0	0.74	75.61	3,498.4	-10.3	62.1	10.8	0.15	-0.09	-8.67	
3,600.0	0.48	54.36	3,598.4	-9.9	63.1	10.4	0.34	-0.26	-21.25	
3,700.0	0.31	54.16	3,698.4	-9.5	63.6	10.0	0.17	-0.17	-0.20	
3,800.0	0.26	82.65	3,798.4	-9.3	64.1	9.8	0.15	-0.05	28.49	
3,900.0	0.44	88.96	3,898.4	-9.3	64.7	9.7	0.18	0.18	6.31	
4,000.0	0.34	62.00	3,998.4	-9.1	65.3	9.6	0.21	-0.10	-26.96	
4,100.0	0.08	34.93	4,098.4	-8.9	65.6	9.4	0.27	-0.26	-27.07	
4,200.0	0.25	306.86	4,198.4	-8.7	65.5	9.2	0.26	0.17	-88.07	
4,300.0	0.33	308.72	4,298.4	-8.4	65.1	8.9	0.08	0.08	1.86	
4,400.0	0.08	1.38	4,398.4	-8.2	64.9	8.7	0.29	-0.25	52.66	
4,500.0	0.12	16.24	4,498.4	-8.0	64.9	8.5	0.05	0.04	14.86	
4,600.0	0.14	289.05	4,598.4	-7.9	64.8	8.3	0.18	0.02	-87.19	
4,700.0	0.25	283.52	4,698.4	-7.8	64.5	8.2	0.11	0.11	-5.53	
4,800.0	0.61	235.34	4,798.4	-8.0	63.8	8.5	0.48	0.36	-48.18	
4,900.0	0.60	231.38	4,898.4	-8.7	63.0	9.1	0.04	-0.01	-3.96	
5,000.0	0.89	244.37	4,998.3	-9.3	61.9	9.8	0.33	0.29	12.99	
5,100.0	1.01	238.73	5,098.3	-10.1	60.4	10.6	0.15	0.12	-5.64	
5,200.0	0.90	239.33	5,198.3	-11.0	59.0	11.4	0.11	-0.11	0.60	

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well San Lorenzo 22/27 LE #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson)
Site:	Sec 22 T25S R28E	MD Reference:	WELL @ 3005.0usft (Patterson)
Well:	San Lorenzo 22/27 LE #2H	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	0.61	237.71	5,298.3	-11.7	57.9	12.1	0.29	-0.29	-1.62	
5,400.0	0.76	234.78	5,398.3	-12.3	56.9	12.7	0.15	0.15	-2.93	
5,500.0	0.94	224.59	5,498.3	-13.3	55.8	13.7	0.23	0.18	-10.19	
5,600.0	1.07	237.73	5,598.3	-14.4	54.4	14.8	0.26	0.13	13.14	
5,700.0	1.00	221.96	5,698.3	-15.5	53.0	15.9	0.29	-0.07	-15.77	
5,800.0	1.31	220.67	5,798.2	-17.0	51.7	17.4	0.31	0.31	-1.29	
5,900.0	1.19	216.85	5,898.2	-18.7	50.3	19.1	0.15	-0.12	-3.82	
6,000.0	1.29	218.56	5,998.2	-20.4	49.0	20.8	0.11	0.10	1.71	
6,100.0	1.53	212.00	6,098.2	-22.5	47.6	22.8	0.29	0.24	-6.56	
6,200.0	1.61	220.32	6,198.1	-24.7	46.0	25.0	0.24	0.08	8.32	
6,300.0	2.92	221.55	6,298.0	-27.6	43.4	28.0	1.31	1.31	1.23	
6,400.0	1.37	190.51	6,398.0	-30.7	41.5	31.0	1.88	-1.55	-31.04	
6,500.0	2.40	140.98	6,497.9	-33.5	42.6	33.8	1.84	1.03	-49.53	
6,600.0	3.87	116.78	6,597.8	-36.7	46.9	37.0	1.95	1.47	-24.20	
6,700.0	4.06	119.69	6,697.5	-39.9	53.0	40.3	0.28	0.19	2.91	
6,800.0	3.43	118.38	6,797.3	-43.1	58.7	43.5	0.64	-0.63	-1.31	
6,900.0	0.96	118.68	6,897.2	-44.9	62.1	45.4	2.47	-2.47	0.30	
7,000.0	0.43	143.17	6,997.2	-45.6	63.0	46.1	0.60	-0.53	24.49	
7,100.0	0.54	169.65	7,097.2	-46.4	63.3	46.9	0.25	0.11	26.48	
7,200.0	0.48	150.54	7,197.2	-47.2	63.6	47.7	0.18	-0.06	-19.11	
7,300.0	0.70	155.27	7,297.2	-48.2	64.1	48.6	0.23	0.22	4.73	
7,400.0	1.10	188.80	7,397.2	-49.7	64.2	50.1	0.65	0.40	33.53	
7,500.0	1.64	215.06	7,497.2	-51.8	63.2	52.2	0.81	0.54	26.26	
7,600.0	2.58	221.22	7,597.1	-54.6	60.9	55.1	0.97	0.94	6.16	
7,700.0	3.19	234.97	7,697.0	-57.9	57.2	58.4	0.92	0.61	13.75	
7,800.0	3.59	237.11	7,796.8	-61.2	52.3	61.6	0.42	0.40	2.14	
7,900.0	3.71	244.47	7,896.6	-64.3	46.7	64.7	0.48	0.12	7.36	
8,000.0	2.88	248.77	7,996.4	-66.6	41.4	66.9	0.87	-0.83	4.30	
8,100.0	2.25	251.05	8,096.3	-68.2	37.2	68.4	0.64	-0.63	2.28	
8,200.0	1.62	242.62	8,196.3	-69.5	34.1	69.7	0.69	-0.63	-8.43	
8,300.0	1.25	223.87	8,296.3	-70.9	32.1	71.1	0.59	-0.37	-18.75	
8,400.0	0.63	226.01	8,396.2	-72.1	31.0	72.3	0.62	-0.62	2.14	
8,500.0	1.24	260.93	8,496.2	-72.6	29.5	72.8	0.81	0.61	34.92	
8,600.0	1.26	254.30	8,596.2	-73.1	27.4	73.3	0.15	0.02	-6.63	
8,700.0	1.15	237.31	8,696.2	-73.9	25.5	74.1	0.37	-0.11	-16.99	
8,800.0	1.47	242.27	8,796.2	-75.1	23.5	75.2	0.34	0.32	4.96	
8,900.0	1.58	231.79	8,896.1	-76.5	21.3	76.7	0.30	0.11	-10.48	
9,000.0	1.44	238.22	8,996.1	-78.0	19.1	78.2	0.22	-0.14	6.43	
9,100.0	1.48	233.44	9,096.1	-79.5	17.0	79.6	0.13	0.04	-4.78	
9,200.0	1.42	216.74	9,196.0	-81.2	15.2	81.3	0.43	-0.06	-16.70	
9,300.0	1.50	202.20	9,296.0	-83.4	14.0	83.5	0.38	0.08	-14.54	
9,400.0	1.79	192.38	9,395.9	-86.2	13.2	86.3	0.40	0.29	-9.82	
9,500.0	2.08	193.97	9,495.9	-89.5	12.4	89.5	0.29	0.29	1.59	

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well San Lorenzo 22/27 LE #2H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson)
Site:	Sec 22, T25S, R28E	MD Reference:	WELL @ 3005.0usft (Patterson)
Well:	San Lorenzo 22/27 LE #2H	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)	
9,600.0	1.88	212.42	9,595.8	-92.6	11.1	92.7	0.66	-0.20	18.45	
9,700.0	1.51	235.35	9,695.8	-94.7	9.1	94.8	0.77	-0.37	22.93	
TIE IN @ 9790 MD / 9785.8 TVD										
9,790.0	1.36	240.35	9,785.8	-95.9	7.2	96.0	0.22	-0.17	5.56	
9,837.0	1.10	256.30	9,832.7	-96.3	6.3	96.4	0.91	-0.55	33.94	
9,869.0	2.60	197.60	9,864.7	-97.1	5.8	97.1	6.99	4.69	-183.44	
9,901.0	5.50	185.20	9,896.6	-99.3	5.4	99.3	9.41	9.06	-38.75	
9,932.0	8.70	182.30	9,927.4	-103.1	5.2	103.2	10.38	10.32	-9.35	
9,964.0	10.90	183.30	9,958.9	-108.6	4.9	108.6	6.90	6.88	3.13	
9,996.0	13.10	181.70	9,990.2	-115.2	4.6	115.2	6.95	6.88	-5.00	
10,028.0	15.20	181.90	10,021.3	-123.0	4.4	123.1	6.56	6.56	0.63	
10,060.0	17.40	179.70	10,052.0	-132.0	4.3	132.0	7.14	6.88	-6.88	
10,092.0	19.60	177.50	10,082.3	-142.2	4.5	142.2	7.21	6.88	-6.88	
10,123.0	22.30	177.20	10,111.3	-153.2	5.1	153.3	8.72	8.71	-0.97	
10,155.0	25.50	180.30	10,140.5	-166.2	5.3	166.2	10.74	10.00	9.69	
10,187.0	28.60	180.70	10,169.0	-180.7	5.2	180.8	9.70	9.69	1.25	
10,219.0	30.90	180.00	10,196.8	-196.6	5.1	196.6	7.27	7.19	-2.19	
10,251.0	33.50	178.00	10,223.9	-213.7	5.4	213.7	8.78	8.13	-6.25	
10,283.0	36.30	176.60	10,250.1	-231.9	6.3	232.0	9.10	8.75	-4.38	
10,314.0	39.30	176.20	10,274.6	-250.9	7.5	251.0	9.71	9.68	-1.29	
10,346.0	41.90	176.30	10,298.9	-271.7	8.8	271.7	8.13	8.13	0.31	
10,378.0	44.90	176.50	10,322.2	-293.6	10.2	293.7	9.38	9.38	0.63	
10,408.0	47.50	177.00	10,342.9	-315.2	11.4	315.3	8.75	8.67	1.67	
10,440.0	50.50	177.50	10,363.9	-339.4	12.6	339.4	9.45	9.38	1.56	
10,472.0	53.80	178.00	10,383.5	-364.6	13.6	364.7	10.39	10.31	1.56	
10,511.0	58.30	178.40	10,405.3	-396.9	14.6	397.0	11.57	11.54	1.03	
10,580.0	63.20	179.50	10,439.0	-457.1	15.7	457.2	7.24	7.10	1.59	
10,612.0	66.40	179.80	10,452.6	-486.1	15.9	486.2	10.04	10.00	0.94	
10,642.0	69.40	179.50	10,463.9	-513.8	16.0	513.9	10.04	10.00	-1.00	
10,675.0	73.40	179.40	10,474.5	-545.1	16.3	545.2	12.12	12.12	-0.30	
10,707.0	75.30	179.80	10,483.1	-575.9	16.5	576.0	6.06	5.94	1.25	
10,739.0	76.00	179.40	10,491.0	-606.9	16.8	607.0	2.50	2.19	-1.25	
10,771.0	77.90	179.30	10,498.2	-638.1	17.1	638.2	5.95	5.94	-0.31	
10,802.0	80.70	178.90	10,504.0	-668.6	17.6	668.7	9.12	9.03	-1.29	
10,834.0	85.10	178.70	10,508.0	-700.3	18.3	700.4	13.76	13.75	-0.63	
10,865.0	86.60	178.60	10,510.2	-731.2	19.0	731.3	4.85	4.84	-0.32	
10,897.0	88.10	178.20	10,511.7	-763.2	19.9	763.3	4.85	4.69	-1.25	
10,928.0	87.80	178.10	10,512.8	-794.1	20.9	794.2	1.02	-0.97	-0.32	
10,960.0	88.50	178.20	10,513.8	-826.1	21.9	826.2	2.21	2.19	0.31	
10,992.0	88.90	178.60	10,514.5	-858.1	22.8	858.2	1.77	1.25	1.25	
11,023.0	90.40	178.40	10,514.7	-889.0	23.6	889.2	4.88	4.84	-0.65	
11,055.0	90.20	177.80	10,514.6	-921.0	24.7	921.2	1.98	-0.63	-1.88	
11,087.0	90.10	177.80	10,514.5	-953.0	25.9	953.2	0.31	-0.31	0.00	
11,118.0	89.80	177.60	10,514.5	-984.0	27.1	984.2	1.16	-0.97	-0.65	

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well: San Lorenzo 22/27 LE #2H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson)
Site:	Sec 22 T25S R28E	MD Reference:	WELL @ 3005.0usft (Patterson)
Well:	San Lorenzo 22/27 LE #2H	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)
11,150.0	89.80	177.20	10,514.6	-1,015.9	28.6	1,016.1	1.25	0.00	-1.25
11,213.0	90.20	177.10	10,514.6	-1,078.9	31.7	1,079.1	0.65	0.63	-0.16
11,276.0	89.80	177.00	10,514.6	-1,141.8	35.0	1,142.0	0.65	-0.63	-0.16
11,339.0	89.50	176.50	10,515.0	-1,204.7	38.5	1,204.9	0.93	-0.48	-0.79
11,402.0	89.10	177.90	10,515.8	-1,267.6	41.6	1,267.9	2.31	-0.63	2.22
11,466.0	90.60	180.20	10,515.9	-1,331.6	42.7	1,331.9	4.29	2.34	3.59
11,528.0	89.00	178.90	10,516.2	-1,393.6	43.2	1,393.9	3.33	-2.58	-2.10
11,592.0	89.50	180.60	10,517.0	-1,457.6	43.5	1,457.9	2.77	0.78	2.66
11,655.0	88.90	179.60	10,517.9	-1,520.6	43.3	1,520.8	1.85	-0.95	-1.59
11,718.0	89.50	181.60	10,518.8	-1,583.6	42.7	1,583.8	3.31	0.95	3.17
11,782.0	91.20	182.20	10,518.4	-1,647.5	40.6	1,647.8	2.82	2.66	0.94
11,845.0	91.30	182.00	10,517.0	-1,710.5	38.3	1,710.7	0.35	0.16	-0.32
11,908.0	91.70	182.50	10,515.3	-1,773.4	35.8	1,773.6	1.02	0.63	0.79
11,971.0	91.60	182.40	10,513.5	-1,836.3	33.1	1,836.5	0.22	-0.16	-0.16
12,035.0	89.60	182.10	10,512.9	-1,900.2	30.6	1,900.4	3.16	-3.13	-0.47
12,098.0	89.70	182.30	10,513.2	-1,963.2	28.2	1,963.4	0.35	0.16	0.32
12,161.0	87.80	181.20	10,514.6	-2,026.2	26.2	2,026.3	3.48	-3.02	-1.75
12,224.0	89.10	180.60	10,516.3	-2,089.1	25.2	2,089.2	2.27	2.06	-0.95
12,288.0	91.30	181.20	10,516.1	-2,153.1	24.2	2,153.2	3.56	3.44	0.94
12,351.0	91.60	180.70	10,514.5	-2,216.1	23.2	2,216.2	0.93	0.48	-0.79
12,415.0	91.30	180.10	10,512.9	-2,280.1	22.7	2,280.2	1.05	-0.47	-0.94

CROSSED SECTION LINE @ 12450.2 MD / 10511.7 TVD

12,450.2	92.42	180.44	10,511.7	-2,315.2	22.6	2,315.3	3.31	3.17	0.95
12,478.0	93.30	180.70	10,510.4	-2,343.0	22.3	2,343.1	3.31	3.17	0.95
12,541.0	90.70	181.00	10,508.2	-2,405.9	21.4	2,406.0	4.15	-4.13	0.48
12,573.0	89.90	181.50	10,508.0	-2,437.9	20.7	2,438.0	2.95	-2.50	1.56
12,604.0	88.90	180.80	10,508.3	-2,468.9	20.1	2,469.0	3.94	-3.23	-2.26
12,636.0	88.70	180.60	10,509.0	-2,500.9	19.7	2,501.0	0.88	-0.63	-0.63
12,668.0	88.60	180.30	10,509.7	-2,532.9	19.4	2,533.0	0.99	-0.31	-0.94
12,699.0	88.00	180.50	10,510.7	-2,563.9	19.2	2,564.0	2.04	-1.94	0.65
12,731.0	88.30	180.40	10,511.7	-2,595.9	18.9	2,595.9	0.99	0.94	-0.31
12,794.0	88.50	180.20	10,513.4	-2,658.9	18.6	2,658.9	0.45	0.32	-0.32
12,857.0	87.40	180.10	10,515.7	-2,721.8	18.4	2,721.9	1.75	-1.75	-0.16
12,920.0	90.40	178.90	10,516.9	-2,784.8	19.0	2,784.9	5.13	4.76	-1.90
12,984.0	90.60	179.00	10,516.4	-2,848.8	20.2	2,848.8	0.35	0.31	0.16
13,046.0	90.00	178.80	10,516.0	-2,910.8	21.4	2,910.8	1.02	-0.97	-0.32
13,110.0	89.80	178.80	10,516.1	-2,974.8	22.7	2,974.8	0.31	-0.31	0.00
13,173.0	89.80	177.80	10,516.4	-3,037.7	24.6	3,037.8	1.59	0.00	-1.59
13,236.0	89.80	177.10	10,516.6	-3,100.7	27.4	3,100.8	1.11	0.00	-1.11
13,299.0	91.30	177.80	10,516.0	-3,163.6	30.2	3,163.7	2.63	2.38	1.11
13,362.0	92.60	178.70	10,513.8	-3,226.5	32.1	3,226.7	2.51	2.06	1.43
13,425.0	90.80	180.30	10,512.0	-3,289.5	32.6	3,289.6	3.82	-2.86	2.54
13,489.0	88.10	181.40	10,512.6	-3,353.5	31.7	3,353.6	4.56	-4.22	1.72

DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well San Lorenzo 22/27 LE #2H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3005.0usft (Patterson)
Site:	Sec 22 T25S R28E	MD Reference:	WELL @ 3005.0usft (Patterson)
Well:	San Lorenzo 22/27 LE #2H	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)
13,552.0	87.90	181.10	10,514.8	-3,416.4	30.3	3,416.5	0.57	-0.32	-0.48
13,616.0	90.60	182.00	10,515.6	-3,480.4	28.6	3,480.5	4.45	4.22	1.41
13,679.0	89.90	180.90	10,515.3	-3,543.4	27.0	3,543.5	2.07	-1.11	-1.75
13,743.0	89.40	180.60	10,515.7	-3,607.4	26.2	3,607.4	0.91	-0.78	-0.47
13,806.0	88.50	180.00	10,516.9	-3,670.3	25.8	3,670.4	1.72	-1.43	-0.95
13,869.0	88.10	179.50	10,518.8	-3,733.3	26.1	3,733.4	1.02	-0.63	-0.79
13,933.0	89.20	179.90	10,520.3	-3,797.3	26.4	3,797.4	1.83	1.72	0.63
13,996.0	89.00	179.70	10,521.2	-3,860.3	26.7	3,860.4	0.45	-0.32	-0.32
14,059.0	91.10	179.70	10,521.2	-3,923.3	27.0	3,923.4	3.33	3.33	0.00
14,122.0	91.00	179.60	10,520.0	-3,986.3	27.4	3,986.4	0.22	-0.16	-0.16
14,186.0	91.10	179.10	10,518.9	-4,050.3	28.1	4,050.4	0.80	0.16	-0.78
14,249.0	91.60	179.10	10,517.4	-4,113.2	29.1	4,113.3	0.79	0.79	0.00
14,313.0	91.80	178.90	10,515.5	-4,177.2	30.2	4,177.3	0.44	0.31	-0.31
14,376.0	92.30	178.70	10,513.2	-4,240.1	31.5	4,240.3	0.85	0.79	-0.32
14,439.0	89.00	177.90	10,512.5	-4,303.1	33.4	4,303.2	5.39	-5.24	-1.27
14,502.0	89.00	177.70	10,513.6	-4,366.0	35.8	4,366.2	0.32	0.00	-0.32
14,566.0	89.10	178.00	10,514.7	-4,430.0	38.2	4,430.1	0.49	0.16	0.47
14,629.0	90.00	179.00	10,515.2	-4,493.0	39.9	4,493.1	2.14	1.43	1.59
14,712.0	89.70	178.00	10,515.4	-4,575.9	42.0	4,576.1	1.26	-0.36	-1.20
TD @ 14760' MD / 10515.6' TVD									
14,760.0	89.70	178.00	10,515.6	-4,623.9	43.7	4,624.1	0.00	0.00	0.00

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,790.0	9,785.8	-95.9	7.2	TIE IN @ 9790' MD / 9785.8' TVD
12,450.2	10,511.7	-2,315.2	22.6	CROSSED SECTION LINE @ 12450.2' MD / 10511.7' TVD
14,760.0	10,515.6	-4,623.9	43.7	TD @ 14760' MD / 10515.6' TVD

Checked By: _____ Approved By: _____ Date: _____