

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
SAN LORENZO 22/27 KF FEE 1H
EDDY

075-0091

STATE OF NEW MEXICO
DEVIATION REPORT

30 015 40750

440	0.50
842	1.06
1,160	1.01
1,573	0.77
1,923	1.21
2,273	1.50
2,498	3.21
3,101	1.80
3,421	0.68
3,676	0.85
4,121	1.44
4,566	0.61
5,011	1.22
5,456	0.43
5,902	0.56
6,348	1.48
6,794	4.34
6,953	5.00
7,143	3.62
7,270	2.55



Received

STATE OF TEXAS

JAN 10 2013

BY:

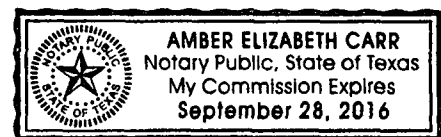
Steve Moore

COUNTY OF MIDLAND Mewbourne Oil Company
Hobbs

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

1/7/13, by

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





Company: Mewbourne Oil Company
Lease/Well: San Lorenzo 22 27 KF Fee/No 001H



Rig Name: Patterson 75
State/County: New Mexico /Eddy
Latitude: 32.11, Longitude: -104.08
GRID North is 0.14 Degrees East of True North
VS-Azi: 0.00 Degrees

Depth Reference : RKB=22 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...27 kf fec #1h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 1/2/2013 / 09:20

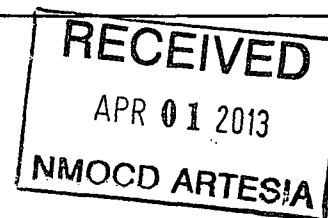
Vaughn Energy Services

Midland, Texas

432-563-5444

Surveyor: Logan Henry

San Lorenzo 22 27 KF Fee No 001H / API 30-015-40750



Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.28	285.46	100.00	0.07	-0.24	0.07	0.25	285.46	0.28
200.00	0.22	317.60	200.00	0.27	-0.61	0.27	0.67	294.38	0.15
300.00	0.56	328.05	300.00	0.83	-1.00	0.83	1.30	309.93	0.35
400.00	0.90	338.50	399.99	1.98	-1.54	1.98	2.51	322.08	0.36
500.00	0.93	336.12	499.98	3.45	-2.16	3.45	4.07	327.98	0.05
600.00	0.95	333.73	599.96	4.94	-2.85	4.94	5.70	329.96	0.05
700.00	1.03	337.69	699.95	6.51	-3.56	6.51	7.42	331.31	0.10
800.00	1.10	341.66	799.93	8.25	-4.20	8.25	9.26	333.00	0.11
900.00	1.09	332.81	899.91	10.01	-4.94	10.01	11.17	333.73	0.17
1000.00	1.09	323.97	999.89	11.63	-5.94	11.63	13.06	332.96	0.17
1100.00	0.95	311.17	1099.88	12.94	-7.12	12.94	14.77	331.19	0.26
1200.00	0.82	298.38	1199.87	13.83	-8.37	13.83	16.16	328.81	0.24
1300.00	0.87	298.08	1299.86	14.52	-9.66	14.52	17.44	326.36	0.05
1400.00	0.92	297.78	1399.84	15.25	-11.04	15.25	18.82	324.11	0.05
1500.00	0.89	299.26	1499.83	16.00	-12.42	16.00	20.26	322.18	0.03
1600.00	0.87	300.75	1599.82	16.77	-13.75	16.77	21.69	320.65	0.03
1700.00	0.56	238.84	1699.81	16.91	-14.82	16.91	22.48	318.75	0.78
1800.00	0.25	176.94	1799.81	16.43	-15.23	16.43	22.41	317.17	0.50
1900.00	1.31	136.01	1899.80	15.39	-14.42	15.39	21.09	316.85	1.13
2000.00	2.37	95.08	1999.75	14.38	-11.56	14.38	18.45	321.19	1.63

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
2100.00	3.19	101.52	2099.63	13.64	-6.78	13.64	15.23	333.58	0.87
2200.00	4.00	107.95	2199.43	12.01	-0.73	12.01	12.03	356.51	0.91
2300.00	4.18	109.51	2299.18	9.72	6.03	9.72	11.43	31.80	0.21
2400.00	4.37	111.07	2398.90	7.13	13.01	7.13	14.84	61.29	0.22
2500.00	3.39	103.57	2498.67	5.07	19.44	5.07	20.09	75.39	1.10
2600.00	2.41	96.07	2598.54	4.15	24.40	4.15	24.75	80.34	1.05
2700.00	2.26	98.31	2698.46	3.64	28.44	3.64	28.67	82.70	0.17
2800.00	2.12	100.55	2798.39	3.02	32.21	3.02	32.36	84.64	0.17
2900.00	1.96	100.36	2898.32	2.37	35.71	2.37	35.79	86.20	0.16
3000.00	1.80	100.17	2998.27	1.79	38.94	1.79	38.98	87.37	0.16
3100.00	1.63	103.23	3098.23	1.19	41.87	1.19	41.89	88.38	0.19
3200.00	1.47	106.29	3198.19	0.50	44.49	0.50	44.49	89.36	0.19
3300.00	1.30	108.03	3298.16	-0.21	46.80	-0.21	46.80	90.26	0.17
3400.00	1.14	109.77	3398.14	-0.90	48.82	-0.90	48.83	91.05	0.17
3500.00	0.98	118.35	3498.12	-1.64	50.51	-1.64	50.53	91.86	0.22
3600.00	0.82	126.94	3598.11	-2.48	51.84	-2.48	51.89	92.74	0.21
3700.00	0.73	127.69	3698.10	-3.30	52.91	-3.30	53.02	93.57	0.10
3800.00	0.63	128.44	3798.09	-4.04	53.85	-4.04	54.00	94.29	0.10
3900.00	0.56	142.59	3898.09	-4.77	54.58	-4.77	54.79	94.99	0.16
4000.00	0.49	156.74	3998.08	-5.55	55.05	-5.55	55.33	95.75	0.15
4100.00	0.48	153.27	4098.08	-6.31	55.40	-6.31	55.76	96.50	0.03
4200.00	0.46	149.81	4198.07	-7.03	55.79	-7.03	56.23	97.18	0.03
4300.00	0.54	164.34	4298.07	-7.83	56.12	-7.83	56.67	97.94	0.15
4400.00	0.61	178.88	4398.07	-8.81	56.26	-8.81	56.95	98.90	0.16
4500.00	0.64	186.88	4498.06	-9.90	56.20	-9.90	57.07	99.99	0.09
4600.00	0.67	194.88	4598.05	-11.02	55.99	-11.02	57.06	101.13	0.10
4700.00	0.69	196.03	4698.05	-12.17	55.67	-12.17	56.98	102.33	0.03
4800.00	0.72	197.19	4798.04	-13.35	55.32	-13.35	56.90	103.57	0.03
4900.00	0.81	196.85	4898.03	-14.62	54.93	-14.62	56.84	104.91	0.09
5000.00	0.90	196.52	4998.02	-16.05	54.50	-16.05	56.81	106.41	0.09
5100.00	0.84	209.66	5098.01	-17.44	53.91	-17.44	56.66	107.92	0.21
5200.00	0.78	222.81	5198.00	-18.58	53.08	-18.58	56.24	109.29	0.19
5300.00	0.69	210.91	5297.99	-19.59	52.31	-19.59	55.86	110.54	0.18
5400.00	0.60	199.01	5397.98	-20.61	51.83	-20.61	55.78	111.68	0.16
5500.00	0.60	196.08	5497.98	-21.61	51.52	-21.61	55.86	112.75	0.03
5600.00	0.60	193.16	5597.97	-22.62	51.25	-22.62	56.02	113.82	0.03
5700.00	0.59	193.16	5697.97	-23.64	51.01	-23.64	56.22	114.86	0.01
5800.00	0.58	193.16	5797.96	-24.63	50.78	-24.63	56.44	115.88	0.01
5900.00	0.66	193.88	5897.95	-25.68	50.53	-25.68	56.68	116.94	0.08
6000.00	0.74	194.60	5997.95	-26.86	50.23	-26.86	56.96	118.14	0.08
6100.00	0.72	208.52	6097.94	-28.04	49.76	-28.04	57.12	119.40	0.18
6200.00	0.71	222.44	6197.93	-29.05	49.04	-29.05	57.00	120.64	0.17

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
6300.00	1.73	244.15	6297.91	-30.17	47.27	-30.17	56.07	122.55	1.10
6400.00	2.75	265.86	6397.83	-31.00	43.51	-31.00	53.43	125.47	1.31
6500.00	3.03	269.50	6497.70	-31.20	38.48	-31.20	49.54	129.03	0.33
6600.00	3.31	273.14	6597.55	-31.06	32.96	-31.06	45.29	133.30	0.34
6700.00	3.44	282.18	6697.38	-30.27	27.15	-30.27	40.66	138.12	0.55
6800.00	3.57	291.22	6797.19	-28.51	21.31	-28.51	35.59	143.23	0.57
6900.00	4.25	289.47	6896.96	-26.15	14.91	-26.15	30.10	150.30	0.68
7000.00	4.92	287.71	6996.64	-23.61	7.34	-23.61	24.73	162.73	0.69
7100.00	3.89	279.89	7096.34	-21.73	-0.08	-21.73	21.73	180.21	1.19
7200.00	2.86	272.07	7196.17	-21.05	-5.92	-21.05	21.87	195.70	1.12
7300.00	2.45	272.87	7296.06	-20.86	-10.54	-20.86	23.37	206.82	0.41
7400.00	2.04	273.68	7395.99	-20.63	-14.45	-20.63	25.19	215.01	0.41
7500.00	1.79	269.43	7495.93	-20.54	-17.78	-20.54	27.17	220.89	0.29
7562.00	1.65	287.45	7557.90	-20.28	-19.60	-20.28	28.20	224.03	0.89

Mewbourne Oil Co

Eddy County, New Mexico (Nad 83)

Sec 22,T25S,R28E

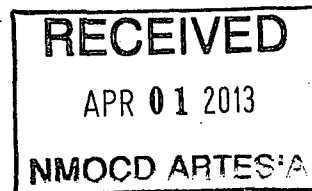
San Lorenzo 22/27 KF Fee #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

06 March, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 22/27 KF Fee #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Site:	Sec 22,T25S,R28E	MD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Well:	San Lorenzo 22/27 KF 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 (Nad 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Sec 22,T25S,R28E		
Site Position:		Northing:	405,636.30 usft
From:	Map	Easting:	620,591.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 53.693 N
		Longitude:	104° 4' 38.442 W
		Grid Convergence:	0.14 °

Well	San Lorenzo 22/27 KF Fee #1H		
Well Position	+N/-S	0.0 usft	Northing: 405,636.30 usft
	+E/-W	0.0 usft	Easting: 620,591.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 53.693 N
		Longitude:	104° 4' 38.442 W
		Ground Level:	2,970.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/4/2012	7.63	59.96	48,351

Design	Wellbore #1			
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	179.65

Survey Program	Date 3/6/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,562.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,726.0	12,735.0	MWD (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	0.28	285.46	100.0	0.1	-0.2	-0.1	0.28	0.28	0.00	
200.0	0.22	317.60	200.0	0.3	-0.6	-0.3	0.15	-0.06	32.14	
300.0	0.56	328.05	300.0	0.8	-1.0	-0.8	0.35	0.34	10.45	
400.0	0.90	338.50	400.0	2.0	-1.5	-2.0	0.36	0.34	10.45	
500.0	0.93	336.12	500.0	3.4	-2.2	-3.5	0.05	0.03	-2.38	
600.0	0.95	333.73	600.0	4.9	-2.8	-4.9	0.04	0.02	-2.39	
700.0	1.03	337.69	699.9	6.5	-3.6	-6.5	0.11	0.08	3.96	
800.0	1.10	341.66	799.9	8.2	-4.2	-8.3	0.10	0.07	3.97	
900.0	1.09	332.81	899.9	10.0	-4.9	-10.0	0.17	-0.01	-8.85	

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo, 22/27 KF Fee #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 2990.0usft (Patterson-UT1)
Site:	Sec 22, T25S, R28E	MD Reference:	WELL @ 2990.0usft (Patterson-UT1)
Well:	San Lorenzo 22/27 KF 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	1.09	323.97	999.9	11.6	-5.9	-11.7	0.17	0.00	-8.84
1,100.0	0.95	311.17	1,099.9	12.9	-7.1	-13.0	0.27	-0.14	-12.80
1,200.0	0.82	298.38	1,199.9	13.8	-8.4	-13.9	0.24	-0.13	-12.79
1,300.0	0.87	298.08	1,299.9	14.5	-9.7	-14.6	0.05	0.05	-0.30
1,400.0	0.92	297.78	1,399.8	15.3	-11.0	-15.3	0.05	0.05	-0.30
1,500.0	0.89	299.26	1,499.8	16.0	-12.4	-16.1	0.04	-0.03	1.48
1,600.0	0.87	300.75	1,599.8	16.8	-13.8	-16.9	0.03	-0.02	1.49
1,700.0	0.56	238.84	1,699.8	16.9	-14.8	-17.0	0.78	-0.31	-61.91
1,800.0	0.25	176.94	1,799.8	16.4	-15.2	-16.5	0.49	-0.31	-61.90
1,900.0	1.31	136.01	1,899.8	15.4	-14.4	-15.5	1.13	1.06	-40.93
2,000.0	2.37	95.08	1,999.8	14.4	-11.6	-14.5	1.63	1.06	-40.93
2,100.0	3.19	101.52	2,099.6	13.7	-6.8	-13.7	0.88	0.82	6.44
2,200.0	4.00	107.95	2,199.4	12.0	-0.8	-12.0	0.90	0.81	6.43
2,300.0	4.18	109.51	2,299.2	9.7	6.0	-9.7	0.21	0.18	1.56
2,400.0	4.37	111.07	2,398.9	7.1	13.0	-7.1	0.22	0.19	1.56
2,500.0	3.39	103.57	2,498.7	5.1	19.4	-5.0	1.10	-0.98	-7.50
2,600.0	2.41	96.07	2,598.5	4.2	24.4	-4.0	1.05	-0.98	-7.50
2,700.0	2.26	98.31	2,698.5	3.7	28.4	-3.5	0.18	-0.15	2.24
2,800.0	2.12	100.55	2,798.4	3.0	32.2	-2.8	0.16	-0.14	2.24
2,900.0	1.96	100.36	2,898.3	2.4	35.7	-2.2	0.16	-0.16	-0.19
3,000.0	1.80	100.17	2,998.3	1.8	38.9	-1.6	0.16	-0.16	-0.19
3,100.0	1.63	103.23	3,098.2	1.2	41.9	-0.9	0.19	-0.17	3.06
3,200.0	1.47	106.29	3,198.2	0.5	44.5	-0.2	0.18	-0.16	3.06
3,300.0	1.30	108.03	3,298.2	-0.2	46.8	0.5	0.18	-0.17	1.74
3,400.0	1.14	109.77	3,398.1	-0.9	48.8	1.2	0.16	-0.16	1.74
3,500.0	0.98	118.35	3,498.1	-1.6	50.5	1.9	0.22	-0.16	8.58
3,600.0	0.82	126.94	3,598.1	-2.5	51.8	2.8	0.21	-0.16	8.59
3,700.0	0.73	127.69	3,698.1	-3.3	52.9	3.6	0.09	-0.09	0.75
3,800.0	0.63	128.44	3,798.1	-4.0	53.8	4.3	0.10	-0.10	0.75
3,900.0	0.56	142.59	3,898.1	-4.7	54.5	5.1	0.16	-0.07	14.15
4,000.0	0.49	156.74	3,998.1	-5.5	55.0	5.9	0.15	-0.07	14.15
4,100.0	0.48	153.27	4,098.1	-6.3	55.4	6.6	0.03	-0.01	-3.47
4,200.0	0.46	149.81	4,198.1	-7.0	55.8	7.4	0.03	-0.02	-3.46
4,300.0	0.54	164.34	4,298.1	-7.8	56.1	8.2	0.15	0.08	14.53
4,400.0	0.61	178.88	4,398.1	-8.8	56.2	9.1	0.16	0.07	14.54
4,500.0	0.64	186.88	4,498.1	-9.9	56.2	10.2	0.09	0.03	8.00
4,600.0	0.67	194.88	4,598.1	-11.0	56.0	11.3	0.10	0.03	8.00
4,700.0	0.69	196.03	4,698.0	-12.1	55.6	12.5	0.02	0.02	1.15
4,800.0	0.72	197.19	4,798.0	-13.3	55.3	13.7	0.03	0.03	1.16
4,900.0	0.81	196.85	4,898.0	-14.6	54.9	14.9	0.09	0.09	-0.34
5,000.0	0.90	196.52	4,998.0	-16.0	54.5	16.4	0.09	0.09	-0.33
5,100.0	0.84	209.66	5,098.0	-17.4	53.9	17.8	0.21	-0.06	13.14
5,200.0	0.78	222.81	5,198.0	-18.6	53.1	18.9	0.19	-0.06	13.15

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 22/27 KF Fee #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Site:	Sec 22,T25S,R28E	MD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Well:	San Lorenzo 22/27 KF 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	0.69	210.91	5,298.0	-19.6	52.3	19.9	0.18	-0.09	-11.90	
5,400.0	0.60	199.01	5,398.0	-20.6	51.8	20.9	0.16	-0.09	-11.90	
5,500.0	0.60	196.08	5,498.0	-21.6	51.5	21.9	0.03	0.00	-2.93	
5,600.0	0.60	193.16	5,598.0	-22.6	51.2	22.9	0.03	0.00	-2.92	
5,700.0	0.59	193.16	5,698.0	-23.6	51.0	23.9	0.01	-0.01	0.00	
5,800.0	0.58	193.16	5,798.0	-24.6	50.8	24.9	0.01	-0.01	0.00	
5,900.0	0.66	193.88	5,898.0	-25.7	50.5	26.0	0.08	0.08	0.72	
6,000.0	0.74	194.60	5,997.9	-26.8	50.2	27.1	0.08	0.08	0.72	
6,100.0	0.72	208.52	6,097.9	-28.0	49.7	28.3	0.18	-0.02	13.92	
6,200.0	0.71	222.44	6,197.9	-29.0	49.0	29.3	0.17	-0.01	13.92	
6,300.0	1.73	244.15	6,297.9	-30.1	47.2	30.4	1.10	1.02	21.71	
6,400.0	2.75	265.86	6,397.8	-31.0	43.5	31.2	1.31	1.02	21.71	
6,500.0	3.03	269.50	6,497.7	-31.2	38.5	31.4	0.33	0.28	3.64	
6,600.0	3.31	273.14	6,597.6	-31.0	32.9	31.2	0.34	0.28	3.64	
6,700.0	3.44	282.18	6,697.4	-30.2	27.1	30.4	0.55	0.13	9.04	
6,800.0	3.57	291.22	6,797.2	-28.5	21.3	28.6	0.57	0.13	9.04	
6,900.0	4.25	289.47	6,897.0	-26.1	14.9	26.2	0.69	0.68	-1.75	
7,000.0	4.92	287.71	6,996.6	-23.6	7.3	23.6	0.68	0.67	-1.76	
7,100.0	3.89	279.89	7,096.3	-21.7	-0.1	21.7	1.19	-1.03	-7.82	
7,200.0	2.86	272.07	7,196.2	-21.0	-6.0	21.0	1.13	-1.03	-7.82	
7,300.0	2.45	272.87	7,296.1	-20.8	-10.6	20.8	0.41	-0.41	0.80	
7,400.0	2.04	273.68	7,396.0	-20.6	-14.5	20.5	0.41	-0.41	0.81	
7,500.0	1.79	269.43	7,495.9	-20.5	-17.8	20.4	0.29	-0.25	-4.25	
TIE IN @ 7562' MD / 7558' TVD										
7,562.0	1.65	287.45	7,557.9	-20.2	-19.7	20.1	0.90	-0.23	29.06	
7,726.0	4.00	168.70	7,721.8	-25.2	-20.8	25.0	3.05	1.43	-72.41	
7,757.0	8.50	165.20	7,752.6	-28.4	-20.0	28.3	14.56	14.52	-11.29	
7,789.0	10.90	184.00	7,784.1	-33.7	-19.6	33.6	12.33	7.50	58.75	
7,821.0	11.60	177.80	7,815.5	-40.0	-19.7	39.8	4.36	2.19	-19.38	
7,853.0	14.20	168.70	7,846.7	-47.0	-18.8	46.9	10.29	8.13	-28.44	
7,885.0	17.90	165.30	7,877.5	-55.6	-16.8	55.5	11.93	11.56	-10.63	
7,917.0	22.70	164.80	7,907.5	-66.4	-13.9	66.3	15.01	15.00	-1.56	
7,949.0	27.60	163.60	7,936.4	-79.4	-10.2	79.4	15.39	15.31	-3.75	
7,981.0	32.30	164.10	7,964.1	-94.8	-5.7	94.7	14.71	14.69	1.56	
8,013.0	35.70	169.00	7,990.7	-112.2	-1.6	112.2	13.64	10.63	15.31	
8,045.0	40.20	171.50	8,015.9	-131.6	1.7	131.6	14.86	14.06	7.81	
CROSSED HARD LINE @ 8063' MD / 8030' TVD										
8,063.1	42.51	172.73	8,029.5	-143.4	3.3	143.4	13.55	12.79	6.79	
8,077.0	44.30	173.60	8,039.6	-152.9	4.5	152.9	13.55	12.85	6.27	
8,108.0	48.50	174.30	8,061.0	-175.2	6.8	175.3	13.65	13.55	2.26	
8,140.0	51.80	178.70	8,081.5	-199.7	8.3	199.8	14.75	10.31	13.75	
8,172.0	55.40	182.70	8,100.5	-225.5	8.0	225.5	15.09	11.25	12.50	
8,204.0	59.20	183.60	8,117.7	-252.4	6.5	252.4	12.11	11.88	2.81	
8,236.0	61.70	183.60	8,133.5	-280.1	4.7	280.2	7.81	7.81	0.00	

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 22/27 KF Fee #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Site:	Sec 22,T25S,R28E	MD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Well:	San Lorenzo 22/27 KF 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)
8,268.0	65.10	182.70	8,147.8	-308.7	3.2	308.7	10.92	10.63	-2.81
8,300.0	69.60	181.00	8,160.2	-338.2	2.2	338.2	14.89	14.06	-5.31
8,332.0	73.80	180.50	8,170.2	-368.6	1.8	368.6	13.21	13.13	-1.56
8,363.0	76.40	180.80	8,178.2	-398.5	1.5	398.5	8.44	8.39	0.97
8,396.0	80.10	180.80	8,184.9	-430.8	1.0	430.8	11.21	11.21	0.00
8,420.0	84.00	179.40	8,188.2	-454.6	1.0	454.6	17.25	16.25	-5.83
8,480.0	88.30	175.40	8,192.2	-514.4	3.7	514.4	9.78	7.17	-6.67
8,512.0	89.20	177.50	8,192.9	-546.3	5.7	546.3	7.14	2.81	6.56
8,543.0	89.50	177.10	8,193.3	-577.3	7.1	577.3	1.61	0.97	-1.29
8,575.0	89.80	176.90	8,193.5	-609.2	8.8	609.3	1.13	0.94	-0.63
8,616.0	90.00	176.90	8,193.6	-650.2	11.0	650.2	0.49	0.49	0.00
8,638.0	90.00	178.40	8,193.6	-672.1	11.9	672.2	6.82	0.00	6.82
8,702.0	89.10	179.20	8,194.1	-736.1	13.3	736.2	1.88	-1.41	1.25
8,764.0	89.10	179.10	8,195.0	-798.1	14.2	798.2	0.16	0.00	-0.16
8,827.0	89.50	178.70	8,195.8	-861.1	15.4	861.2	0.90	0.63	-0.63
8,891.0	90.00	177.60	8,196.1	-925.1	17.5	925.1	1.89	0.78	-1.72
8,953.0	89.30	177.80	8,196.5	-987.0	20.0	987.1	1.17	-1.13	0.32
9,016.0	89.00	178.50	8,197.4	-1,050.0	22.0	1,050.1	1.21	-0.48	1.11
9,080.0	89.30	178.40	8,198.4	-1,113.9	23.7	1,114.1	0.49	0.47	-0.16
9,144.0	89.60	178.70	8,199.0	-1,177.9	25.4	1,178.0	0.66	0.47	0.47
9,208.0	89.60	179.90	8,199.4	-1,241.9	26.1	1,242.0	1.87	0.00	1.88
9,271.0	90.60	178.90	8,199.3	-1,304.9	26.8	1,305.0	2.24	1.59	-1.59
9,335.0	89.60	179.90	8,199.2	-1,368.9	27.5	1,369.0	2.21	-1.56	1.56
9,398.0	90.10	179.40	8,199.4	-1,431.9	27.8	1,432.0	1.12	0.79	-0.79
9,462.0	90.60	180.10	8,199.0	-1,495.9	28.1	1,496.0	1.34	0.78	1.09
9,525.0	91.10	180.50	8,198.0	-1,558.9	27.8	1,559.0	1.02	0.79	0.63
9,589.0	88.40	182.00	8,198.3	-1,622.9	26.4	1,623.0	4.83	-4.22	2.34
9,652.0	90.10	181.70	8,199.1	-1,685.8	24.4	1,685.9	2.74	2.70	-0.48
9,716.0	88.40	182.70	8,200.0	-1,749.8	21.9	1,749.9	3.08	-2.66	1.56
9,779.0	87.80	183.10	8,202.1	-1,812.6	18.7	1,812.7	1.14	-0.95	0.63
9,843.0	88.20	183.40	8,204.3	-1,876.5	15.1	1,876.6	0.78	0.63	0.47
9,905.0	88.10	183.40	8,206.3	-1,938.4	11.4	1,938.4	0.16	-0.16	0.00
9,969.0	89.50	183.10	8,207.6	-2,002.2	7.8	2,002.3	2.24	2.19	-0.47
10,032.0	90.10	182.60	8,207.9	-2,065.2	4.7	2,065.2	1.24	0.95	-0.79
10,096.0	90.70	182.40	8,207.4	-2,129.1	1.9	2,129.1	0.99	0.94	-0.31
10,160.0	90.60	182.70	8,206.7	-2,193.0	-1.0	2,193.0	0.49	-0.16	0.47
10,222.0	90.70	182.40	8,206.0	-2,255.0	-3.7	2,254.9	0.51	0.16	-0.48
10,286.0	91.40	181.70	8,204.8	-2,318.9	-6.0	2,318.8	1.55	1.09	-1.09
10,349.0	90.80	182.90	8,203.6	-2,381.9	-8.6	2,381.8	2.13	-0.95	1.90
10,413.0	89.50	182.60	8,203.4	-2,445.8	-11.6	2,445.7	2.08	-2.03	-0.47
10,476.0	88.90	180.60	8,204.3	-2,508.7	-13.4	2,508.6	3.31	-0.95	-3.17
10,540.0	88.70	180.50	8,205.6	-2,572.7	-14.0	2,572.6	0.35	-0.31	-0.16
10,603.0	89.90	179.80	8,206.4	-2,635.7	-14.2	2,635.6	2.21	1.90	-1.11

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 22/27 KF Fee #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Site:	Sec 22,T25S,R28E	MD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Well:	San Lorenzo 22/27 KF 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)
10,667.0	90.00	179.60	8,206.5	-2,699.7	-13.8	2,699.6	0.35	0.16	-0.31
10,731.0	90.80	179.60	8,206.0	-2,763.7	-13.4	2,763.6	1.25	1.25	0.00
10,795.0	89.60	179.60	8,205.8	-2,827.7	-12.9	2,827.6	1.88	-1.88	0.00
10,857.0	89.20	180.50	8,206.5	-2,889.7	-13.0	2,889.6	1.59	-0.65	1.45
10,920.0	89.30	179.80	8,207.3	-2,952.7	-13.1	2,952.6	1.12	0.16	-1.11
10,984.0	89.70	179.60	8,207.8	-3,016.7	-12.8	3,016.6	0.70	0.63	-0.31
11,047.0	89.70	180.10	8,208.2	-3,079.7	-12.6	3,079.6	0.79	0.00	0.79
11,110.0	90.00	180.10	8,208.3	-3,142.7	-12.8	3,142.6	0.48	0.48	0.00
11,173.0	90.50	179.80	8,208.1	-3,205.7	-12.7	3,205.6	0.93	0.79	-0.48
11,237.0	90.70	180.10	8,207.4	-3,269.7	-12.6	3,269.6	0.56	0.31	0.47
11,300.0	90.00	179.40	8,207.0	-3,332.7	-12.4	3,332.5	1.57	-1.11	-1.11
11,364.0	89.60	179.20	8,207.2	-3,396.7	-11.6	3,396.5	0.70	-0.63	-0.31
11,427.0	89.60	179.40	8,207.7	-3,459.7	-10.8	3,459.5	0.32	0.00	0.32
11,491.0	90.50	179.10	8,207.6	-3,523.7	-10.0	3,523.5	1.48	1.41	-0.47
11,555.0	90.30	178.90	8,207.2	-3,587.7	-8.9	3,587.5	0.44	-0.31	-0.31
11,618.0	90.50	180.30	8,206.7	-3,650.7	-8.4	3,650.5	2.24	0.32	2.22
11,682.0	90.30	180.60	8,206.3	-3,714.7	-8.9	3,714.5	0.56	-0.31	0.47
11,745.0	90.00	181.20	8,206.1	-3,777.6	-9.9	3,777.5	1.06	-0.48	0.95
11,809.0	88.80	180.50	8,206.8	-3,841.6	-10.9	3,841.5	2.17	-1.88	-1.09
11,873.0	89.20	179.80	8,207.9	-3,905.6	-11.0	3,905.5	1.26	0.63	-1.09
11,936.0	89.80	178.50	8,208.4	-3,968.6	-10.1	3,968.5	2.27	0.95	-2.06
12,000.0	89.30	178.20	8,209.0	-4,032.6	-8.3	4,032.5	0.91	-0.78	-0.47
12,063.0	89.10	177.30	8,209.8	-4,095.5	-5.8	4,095.4	1.46	-0.32	-1.43
12,127.0	89.30	177.60	8,210.7	-4,159.5	-2.9	4,159.4	0.56	0.31	0.47
12,190.0	90.30	177.30	8,210.9	-4,222.4	-0.1	4,222.3	1.66	1.59	-0.48
12,254.0	90.60	178.50	8,210.4	-4,286.3	2.2	4,286.3	1.93	0.47	1.88
12,317.0	90.40	178.70	8,209.9	-4,349.3	3.7	4,349.3	0.45	-0.32	0.32
12,381.0	90.00	179.40	8,209.7	-4,413.3	4.8	4,413.3	1.26	-0.63	1.09
12,445.0	89.10	179.20	8,210.2	-4,477.3	5.6	4,477.3	1.44	-1.41	-0.31
12,509.0	88.60	178.90	8,211.5	-4,541.3	6.7	4,541.2	0.91	-0.78	-0.47
12,572.0	88.80	178.50	8,212.9	-4,604.3	8.1	4,604.2	0.71	0.32	-0.63
12,632.0	89.10	178.00	8,214.0	-4,664.2	9.9	4,664.2	0.97	0.50	-0.83
12,685.0	89.30	177.50	8,214.7	-4,717.2	12.0	4,717.2	1.02	0.38	-0.94
TD @ 12735' MD / 8215' TVD									
12,735.0	89.30	177.50	8,215.3	-4,767.1	14.2	4,767.1	0.00	0.00	0.00

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 22/27 KF Fee #1H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Site:	Sec 22,T25S,R28E	MD Reference:	WELL @ 2990.0usft (Patterson-UTI)
Well:	San Lorenzo 22/27 KF 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)	
7,562.0	7,557.9	-20.2	-19.7	TIE IN @ 7562' MD / 7558' TVD
8,063.1	8,029.5	-143.4	3.3	CROSSED HARD LINE @ 8063' MD / 8030' TVD
12,735.0	8,215.3	-4,767.1	14.2	TD @ 12735' MD / 8215' TVD

Checked By: _____	Approved By: _____	Date: _____
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Company Name: Mewbourne Oil Co
 San Lorenzo 22/27 KF Fee #1H
 Eddy County, New Mexico (Nad 83)
 Rig: Patterson-UT1
 Created By: Tiffani Mizell
 Date: 3/06/2013

San Lorenzo 22/27 KF Fee #1H
 Eddy County, New Mexico (Nad 83)
Q120736 & WT-12921
 Design #2

Mewbourne Oil Company

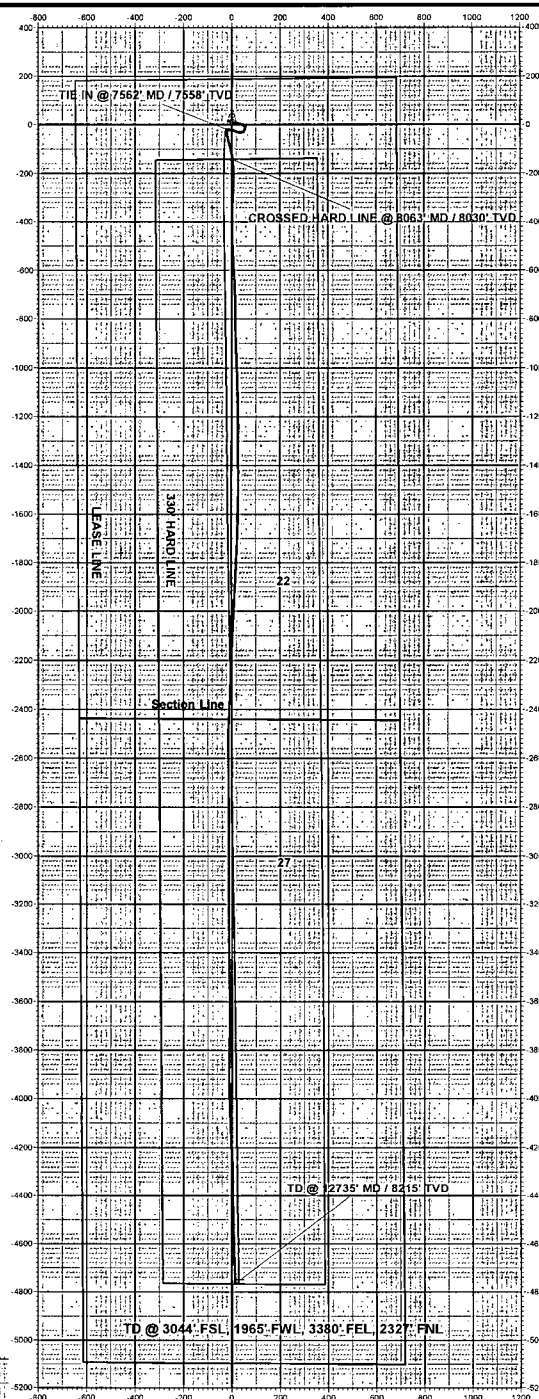
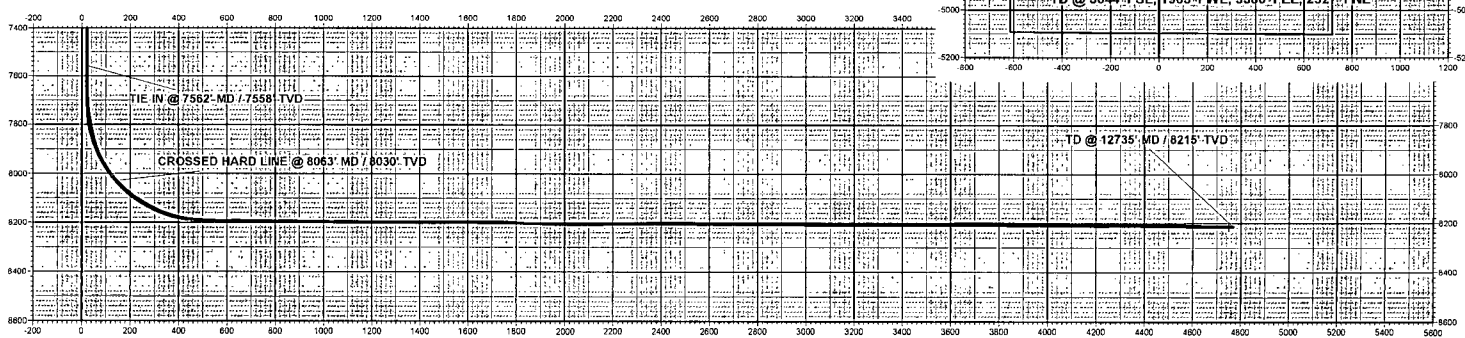
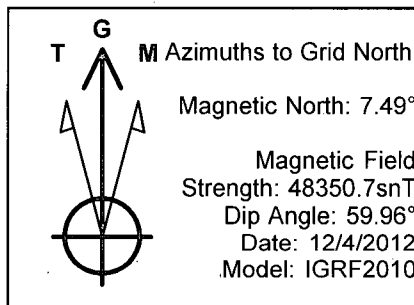
PROJECT DETAILS: Eddy County, New Mexico (Nad 83)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

WELL DETAILS: San Lorenzo 22/27 KF Fee #1H					
		Ground Level:	2970.0		
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	405636.30	620591.80	32° 6' 53.693 N	104° 4' 38.442 W

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL San Lorenzo 22/27 KF Fee #1H - plan hits target center	8215.0	-4750.3	28.7	400886.02	620620.49	32° 6' 6.682 N	104° 4' 38.240 W

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
7562.0	1.65	287.45	7567.9	-20.2	-19.7	20.1	195.8	TIE IN @ 7562' MD / 7558' TVD	
8063.1	42.51	172.73	8029.5	-143.4	3.3	143.4	325.3	CROSSED HARD LINE @ 8063' MD / 8030' TVD	
12735.0	89.30	177.50	8215.3	-4767.1	14.2	4767.1	4951.1	TD @ 12735' MD / 8215' TVD	



RECEIVED

APR 01 2013

Operating Company Mewbourne
Well Name & Number San Lorenzo 22-27 K F #1
Sales Ticket Number 4707060

Company Rep 0
Field Santo Nino
BOT Service Rep Joe Sartain

NMOCD ART 22-27
BAKER HUGHES

Date 12/28/2012

District Location Odessa, Texas, USA

	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,420.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,485.83	12,410	10,680	
Bott Liner											
TVD		8,214.00		76.17		7,748.00		Open Hole	6.125	Casing Vol. (bbl)	314.7
Carry Fluid Weight (ppg)			8.34		Propant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
Liner Top	1	JR Setting Sleeve_RH Profile	8226.17							

Zone Length										
30 129	JR Sleeve_S3 Hyd Set Packer	8226.17	8.65	5.813	3.875					
	4-1/2-13.5 LTC Nipple	8234.82	8.10	5.000	3.920					
29 125.9	7 Joints of 4-1/2-13.5 LTC Casing	8242.92	301.06	5.000	3.920					
	3.625 EX Frac Sleeve	8543.98	3.90	5.750		3.525	2375	317	315	
28 126.1	1 Joint of 4-1/2-13.5 LTC Casing	8547.88	42.75	5.000	3.920					
	Baker Open Hole Packer	8590.63	3.89	5.820	3.875		2154			
27 126.2	2 Joints of 4-1/2-13.5 LTC Casing	8594.52	84.62	5.000	3.920					
	3.500 EX-C Frac Sleeve	8679.14	3.90	5.750		3.448	2375	304	315	
26 161.2	1 Joint of 4-1/2-13.5 LTC Casing	8683.04	43.13	5.000	3.920					
	Baker Open Hole Packer	8726.17	3.89	5.820	3.875		2154			
	2 Joints of 4-1/2-13.5 LTC Casing	8730.06	87.03	5.000	3.920					
	3.438 EX-C Frac Sleeve	8817.09	3.90	5.750		3.385	2375	293	315	
	1 Joint of 4-1/2-13.5 LTC Casing	8820.99	43.10	5.000	3.920					
	Baker Open Hole Packer	8864.09	3.89	5.820	3.875		2154			
	2 Joints of 4-1/2-13.5 LTC Casing	8867.98	86.76	5.000	3.920					
	3.375 EX_C Frac Sleeve	8954.74	3.90	5.750		3.323	2375	282	315	
	2 Joint of 4-1/2-13.5 LTC Casing	8958.64	82.42	5.000	3.920					
	Baker Open Hole Packer	9041.06	3.89	5.820	3.875		2154			
	2 Joints of 4-1/2-13.5 LTC Casing	9044.95	83.98	5.000	3.920					
	3.313 EX-C Frac Sleeve	9128.93	3.90	5.750		3.260	2375	271	315	
	1 Joints of 4-1/2-13.5 LTC Casing	9132.83	39.54	5.000	3.920					
	Baker Open Hole Packer	9172.37	3.89	5.820	3.875		2154			

Operating Company Mewbourne
 Well Name & Number San Lorenzo 22-27 No. 1H
 Sales Ticket Number 4707060
 Date 12/28/2012

Company Rep 0
 Field Santo Nino
 BOT Service Rep Joe Sartain
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,420.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,485.83	12,410	10,680
Bott Liner										

TVD	8,214.00	76.17	7,748.00	Open Hole	6.125	Casing Vol. (bbl)	314.7
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Carry Fluid Weight (ppg)	8.34	Propan Content (ppa)		Max Drill Out Size	0
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	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
25		2 Joints of 4-1/2-13.5 LTC Casing	9176.26	82.52	5.000	3.920				
125.7		3.250 EX-C Frac Sleeve	9258.78	3.90	5.750		3.198	2375	261	315
		1 Joint of 4-1/2-13.5 LTC Casing	9262.68	41.85	5.000	3.920				
		Baker Open Hole Packer	9304.53	3.89	5.820	3.875		2154		
24		2 Joints of 4-1/2-13.5 LTC Casing	9308.42	83.60	5.000	3.920				
164.1		3.188 EX-C Frac Sleeve	9392.02	3.90	5.750		3.135	2375	251	315
		1 Joints of 4-1/2-13.5 LTC Casing	9395.92	42.85	5.000	3.920				
		Baker Open Hole Packer	9438.77	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9442.66	80.65	5.000	3.920				
23		3.125 EX-C Frac Sleeve	9523.31	3.90	5.750		3.073	2375	241	315
126.1		2 Joint of 4-1/2-13.5 LTC Casing	9527.21	81.79	5.000	3.920				
		Baker Open Hole Packer	9609.00	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9612.89	85.05	5.000	3.920				
22		3.063 EX-C Frac Sleeve	9697.94	3.90	5.750		3.010	2375	231	315
164.6		1 Joints of 4-1/2-13.5 LTC Casing	9701.84	41.13	5.000	3.920				
		Baker Open Hole Packer	9742.97	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9746.86	87.42	5.000	3.920				
21		3.000 EX-C Frac sleeve	9834.28	3.90	5.750		2.948	2375	222	315
125.9		1 Joint of 4-1/2-13.5 LTC Casing	9838.18	40.10	5.000	3.920				
		Baker Open Hole Packer	9878.28	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9882.17	83.67	5.000	3.920				
20		2.938 EX-C Frac Sleeve	9965.84	3.90	5.750		2.885	2375	212	315
164.5		1 Joints of 4-1/2-13.5 LTC Casing	9969.74	43.51	5.000	3.920				
		Baker Open Hole Packer	10013.25	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	10017.14	86.64	5.000	3.920				
19		2.875 EX-C Frac Sleeve	10103.78	3.90	5.750		2.823	2375	203	315

Operating Company Mewbourne
 Well Name & Number San Lorenzo 22-27 No. 1H
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 Field Santo Nino
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	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,420.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,485.83	12,410	10,680	
Bott Liner											
TVD		8,214.00		76.17		7,748.00		Open Hole	6.125	Casing Vol. (bbl)	314.7
Carry Fluid Weight (ppg)			8.34		Propant Content (ppa)				Max Drill Out Size		0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ. (BBL)
125.9		1 Joints of 4-1/2-13.5 LTC Casing	10107.68	43.56	5.000	3.920				
		Baker Open Hole Packer	10151.24	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	10155.13	85.55	5.000	3.920				
18		2.813 EX_C Frac Sleeve	10240.68	3.90	5.750		2.760	2375	194	315
126		1 Joints of 4-1/2-13.5 LTC Casing	10244.58	43.12	5.000	3.920				
		Baker Open Hole Packer	10287.70	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	10291.59	85.36	5.000	3.920				
17		2.750 EX_C Frac Sleeve	10376.95	3.90	5.750		2.698	2375	186	315
126.8		1 Joints of 4-1/2-13.5 LTC Casing	10380.85	41.74	5.000	3.920				
		Baker Open Hole Packer	10422.59	3.89	5.820	3.875		2154		
		1 Joint of 4-1/2-13.5 LTC Casing	10426.48	86.96	5.000	3.920				
16		2.688 EX_C Frac Sleeve	10513.44	3.90	5.750		2.635	2375	177	315
126.6		2 Joints of 4-1/2-13.5 LTC Casing	10517.34	85.99	5.000	3.920				
		Baker Open Hole Packer	10603.33	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10607.22	84.15	5.000	3.920				
15		2.625 EX_C Frac Sleeve	10691.37	3.90	5.750		2.573	2375	169	315
125.2		1 Joint of 4-1/2-13.5 LTC Casing	10695.27	43.24	5.000	3.920				
		Baker Open Hole Packer	10738.51	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10742.40	82.85	5.000	3.920				
14		2.563 EX_C Frac Sleeve	10825.25	3.90	5.750		2.510	2375	161	315
163.7		1 Joints of 4-1/2-13.5 LTC Casing	10829.15	42.98	5.000	3.920				
		Baker Open Hole Packer	10872.13	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10876.02	81.37	5.000	3.920				
13		2.500 EX_C Frac Sleeve	10957.39	3.90	5.750		2.448	2375	153	315
124.9		1 Joint of 4-1/2-13.5 LTC Casing	10961.29	41.86	5.000	3.920				
		Baker Open Hole Packer	11003.15	3.89	5.820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number San Lorenzo 22-27 No. 1H
 Sales Ticket Number 4707060
 Date 12/28/2012

Company Rep 0
 Field Santo Nino
 BOT Service Rep Joe Sartain
 District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,420.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,485.83	12,410	10,680
Bott Liner										
TVD	8,214.00			76.17	7,748.00	Open Hole	6.125	Casing Vol. (bbl)	314.7	
Carry Fluid Weight (ppg)	8.34		Propan Content (ppa)					Max Drill Out Size	0	

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.	Max Rate (BPM)	Displ (BBL)
12 164.1		2 Joints of 4-1/2-13.5 LTC Casing	11007.04	84.61	5.000	3.920				
		2.438 EX_C Frac Sleeve	11091.65	3.90	5.750		2.386	2375	145	315
		1 Joints of 4-1/2-13.5 LTC Casing	11095.55	43.05	5.000	3.920				
11 125.7		Baker Open Hole Packer	11138.60	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11142.49	84.01	5.000	3.920				
		2.375 EX_C Frac Sleeve	11226.50	3.90	5.750		2.323	2375	138	315
10 164.7		1 Joint of 4-1/2-13.5 LTC Casing	11230.40	41.89	5.000	3.920				
		Baker Open Hole Packer	11272.29	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11276.18	86.93	5.000	3.920				
9 126.4		2.313 EX_C Frac Sleeve	11363.11	3.90	5.750		2.261	2375	131	315
		1 Joints of 4-1/2-13.5 LTC Casing	11367.01	43.31	5.000	3.920				
		Baker Open Hole Packer	11410.32	3.89	5.820	3.875		2154		
8 126.6		2 Joints of 4-1/2-13.5 LTC Casing	11414.21	87.08	5.000	3.920				
		2.250 EX Frac Sleeve	11501.29	3.90	5.750		2.150	2286	116	315
		1 Joint of 4-1/2-13.5 LTC Casing	11505.19	86.40	5.000	3.920				
7 164		Baker Open Hole Packer	11591.59	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11595.48	86.93	5.000	3.920				
		2.125 EX Frac Sleeve	11682.41	3.90	5.750		2.025	2286	103	315
6		1 Joint of 4-1/2-13.5 LTC Casing	11686.31	43.50	5.000	3.920				
		Baker Open Hole Packer	11729.81	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11733.70	86.36	5.000	3.920				
		2.000 EX Frac Sleeve	11820.06	3.90	5.750		1.900	2286	90	315
		1 Joints of 4-1/2-13.5 LTC Casing	11823.96	43.35	5.000	3.920				
		Baker Open Hole Packer	11867.31	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11871.20	86.87	5.000	3.920				
		1.875 EX Frac Sleeve	11958.07	3.90	5.750		1.775	2286	79	315

Company Rep	0
Field	Santo Nino
BOT Service Rep	Joe Sartain
District Location	Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	6.151		0.03826	8,420.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,485.83	12,410	10,680	
Bott Liner											
TVD		8,214.00		76.17		7,748.00		Open Hole	6.125	Casing Vol. (bbl)	314.7
Carry Fluid Weight (ppg)			8.34		Propant Content (ppa)				Max Drill Out Size		0

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