

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
SAN LORENZO 15 PA STATE COM 1H
EDDY

075-0095

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-40864

355	0.79
833	0.56
1,213	0.85
1,658	0.89
2,103	2.64
2,262	3.64
2,635	2.80
2,985	2.00
3,351	1.10
3,702	0.50
4,210	0.60
4,656	0.90
5,132	1.10
5,578	1.17
5,957	0.72
6,403	1.10
6,784	1.03
7,196	1.71



STATE OF TEXAS

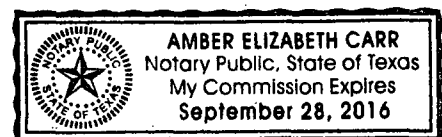
COUNTY OF MIDLAND

BY:

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

4/16/13, by

Notary Public for Midland County, Texas
My Commission Expires:





Company: Mewbourne Oil Company
Lease/Well: San Lorenzo 15 PA State Com / No. 001H

Rig Name: Patterson 75
State/County: New Mexico / Eddy
Latitude: 32.14, Longitude: -104.07
GRID North is 0.14 Degrees East of True North
VS-Azi: 0.00 Degrees

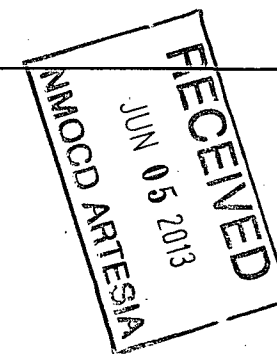


Depth Reference : RKB = 22'

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: gyrosanlorenzo15pastatecom#1h.ut
Minimum Curvature Method
Report Date/Time: 4/10/2013 / 14:59

Vaughn Energy Services
Conway, Arkansas
501-730-0602

Survey Engineer: Michael Komarek
San Lorenzo 15 PA State Com No. 001H / API 30-015-40864



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	0.11	129.47	100.00	-0.06	0.07	-0.06	0.10	129.47	0.11
200.00	0.23	133.97	200.00	-0.26	0.29	-0.26	0.39	131.76	0.12
300.00	0.49	132.27	300.00	-0.68	0.75	-0.68	1.01	132.41	0.27
400.00	0.78	122.21	399.99	-1.34	1.65	-1.34	2.12	129.10	0.31
500.00	0.83	121.38	499.98	-2.08	2.84	-2.08	3.52	126.19	0.04
600.00	0.80	121.93	599.97	-2.82	4.05	-2.82	4.94	124.88	0.03
700.00	0.60	124.52	699.96	-3.49	5.08	-3.49	6.16	124.52	0.20
800.00	0.40	122.24	799.96	-3.97	5.80	-3.97	7.03	124.40	0.20
900.00	0.25	111.84	899.96	-4.24	6.31	-4.24	7.60	123.94	0.16
1000.00	0.14	59.51	999.96	-4.26	6.61	-4.26	7.87	122.81	0.20
1100.00	0.67	324.24	1099.96	-3.73	6.38	-3.73	7.39	120.32	0.69
1200.00	0.58	290.49	1199.95	-3.08	5.56	-3.08	6.36	118.98	0.37
1300.00	0.51	274.46	1299.95	-2.87	4.64	-2.87	5.45	121.72	0.17
1400.00	0.47	257.42	1399.94	-2.92	3.79	-2.92	4.79	127.63	0.15
1500.00	0.18	274.78	1499.94	-3.00	3.23	-3.00	4.41	132.89	0.31
1600.00	0.23	41.64	1599.94	-2.84	3.21	-2.84	4.28	131.47	0.37
1700.00	0.47	39.23	1699.94	-2.37	3.60	-2.37	4.31	123.30	0.24
1800.00	0.57	43.34	1799.93	-1.69	4.20	-1.69	4.53	111.89	0.11
1900.00	1.28	75.14	1899.92	-1.04	5.62	-1.04	5.72	100.49	0.85

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
2000.00	1.89	87.84	1999.88	-0.69	8.35	-0.69	8.38	94.74	0.70
2100.00	2.43	86.60	2099.81	-0.50	12.11	-0.50	12.12	92.39	0.54
2200.00	3.34	90.00	2199.68	-0.38	17.14	-0.38	17.14	91.27	0.93
2300.00	4.05	92.13	2299.47	-0.51	23.59	-0.51	23.59	91.24	0.72
2400.00	4.39	92.94	2399.20	-0.84	30.94	-0.84	30.95	91.55	0.34
2500.00	3.35	91.93	2498.97	-1.13	37.68	-1.13	37.70	91.72	1.04
2600.00	2.84	81.89	2598.83	-0.88	43.06	-0.88	43.07	91.17	0.74
2700.00	2.50	75.13	2698.72	0.03	47.63	0.03	47.63	89.97	0.47
2800.00	2.33	73.45	2798.63	1.17	51.68	1.17	51.69	88.71	0.19
2900.00	2.15	73.65	2898.55	2.27	55.43	2.27	55.48	87.65	0.17
3000.00	1.98	68.73	2998.49	3.43	58.84	3.43	58.94	86.66	0.25
3100.00	1.55	65.63	3098.44	4.61	61.68	4.61	61.86	85.72	0.43
3200.00	1.38	66.96	3198.41	5.65	64.03	5.65	64.28	84.96	0.17
3300.00	1.22	63.53	3298.38	6.59	66.09	6.59	66.42	84.30	0.18
3400.00	0.92	68.10	3398.37	7.36	67.78	7.36	68.18	83.80	0.31
3500.00	0.52	77.03	3498.36	7.76	68.97	7.76	69.40	83.58	0.41
3600.00	0.50	82.27	3598.35	7.92	69.84	7.92	70.29	83.53	0.05
3700.00	0.42	82.85	3698.35	8.03	70.64	8.03	71.09	83.52	0.08
3800.00	0.45	83.58	3798.35	8.12	71.39	8.12	71.85	83.51	0.03
3900.00	0.33	87.21	3898.34	8.17	72.06	8.17	72.53	83.53	0.12
4000.00	0.31	96.19	3998.34	8.16	72.61	8.16	73.07	83.59	0.05
4100.00	0.31	103.76	4098.34	8.07	73.14	8.07	73.58	83.71	0.04
4200.00	0.38	144.12	4198.34	7.73	73.60	7.73	74.00	84.00	0.25
4300.00	0.54	176.51	4298.34	7.00	73.82	7.00	74.15	84.59	0.30
4400.00	0.49	181.44	4398.33	6.10	73.84	6.10	74.09	85.27	0.07
4500.00	0.43	182.93	4498.33	5.31	73.81	5.31	74.00	85.89	0.06
4600.00	0.40	196.40	4598.33	4.61	73.69	4.61	73.84	86.42	0.10
4700.00	0.53	198.83	4698.32	3.84	73.45	3.84	73.55	87.01	0.13
4800.00	0.73	189.14	4798.32	2.77	73.20	2.77	73.25	87.83	0.23
4900.00	0.93	188.23	4898.31	1.34	72.98	1.34	72.99	88.95	0.19
5000.00	1.01	199.51	4998.29	-0.28	72.57	-0.28	72.57	90.22	0.21
5100.00	1.08	206.50	5098.28	-1.95	71.86	-1.95	71.88	91.56	0.15
5200.00	1.20	217.21	5198.26	-3.63	70.81	-3.63	70.90	92.93	0.24
5300.00	1.15	214.55	5298.24	-5.28	69.61	-5.28	69.81	94.34	0.07
5400.00	1.12	217.85	5398.22	-6.88	68.44	-6.88	68.78	95.74	0.07
5500.00	1.10	224.43	5498.20	-8.34	67.17	-8.34	67.68	97.08	0.13
5600.00	1.06	224.13	5598.18	-9.69	65.85	-9.69	66.56	98.37	0.04
5700.00	1.17	225.67	5698.16	-11.06	64.48	-11.06	65.42	99.74	0.12
5800.00	1.13	218.07	5798.14	-12.56	63.14	-12.56	64.37	101.25	0.16
5900.00	1.07	211.55	5898.12	-14.13	62.04	-14.13	63.63	102.83	0.14

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
6000.00	1.15	196.38	5998.10	-15.90	61.26	-15.90	63.29	104.55	0.30
6100.00	1.13	191.89	6098.08	-17.83	60.77	-17.83	63.34	106.35	0.09
6200.00	1.38	195.20	6198.06	-19.95	60.26	-19.95	63.47	108.32	0.26
6300.00	0.94	205.56	6298.04	-21.85	59.59	-21.85	63.47	110.14	0.48
6400.00	0.51	224.43	6398.03	-22.92	58.92	-22.92	63.22	111.25	0.49
6500.00	1.38	247.55	6498.02	-23.70	57.49	-23.70	62.18	112.40	0.93
6600.00	1.33	258.44	6597.99	-24.39	55.24	-24.39	60.38	113.82	0.26
6700.00	0.78	242.24	6697.97	-24.94	53.50	-24.94	59.03	114.99	0.63
6800.00	0.95	240.51	6797.96	-25.66	52.18	-25.66	58.15	116.19	0.18
6900.00	1.27	248.01	6897.94	-26.49	50.42	-26.49	56.96	117.71	0.35
7000.00	1.77	256.68	6997.91	-27.26	47.89	-27.26	55.11	119.65	0.54
7100.00	1.48	264.62	7097.87	-27.73	45.11	-27.73	52.95	121.58	0.37
7150.00	0.14	21.78	7147.86	-27.74	44.49	-27.74	52.43	121.94	3.09
7175.00	0.96	81.65	7172.86	-27.68	44.71	-27.68	52.58	121.76	3.58
7200.00	1.36	91.99	7197.85	-27.66	45.21	-27.66	53.00	121.46	1.79
7300.00	1.61	102.18	7297.82	-28.00	47.77	-28.00	55.37	120.38	0.37
7400.00	1.39	106.00	7397.79	-28.63	50.31	-28.63	57.88	119.64	0.24
7500.00	1.52	122.37	7497.75	-29.68	52.60	-29.68	60.39	119.43	0.43
7600.00	1.51	141.64	7597.72	-31.42	54.54	-31.42	62.94	119.95	0.51
7620.00	1.64	161.36	7617.71	-31.90	54.80	-31.90	63.40	120.20	2.77

Mewbourne Oil Co

**Eddy County, New Mexico
Sec 10, T25S, R28E
San Lorenzo 15 PA State Com #1H**

Wellbore #1

Design: Wellbore #1

DDC Survey Report

23 April, 2013



ADC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 15 PA State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3003.0usft (Patterson #75)
Site:	Sec 10, T25S, R28E	MD Reference:	WELL @ 3003.0usft (Patterson #75)
Well:	San Lorenzo 15 PA State Com #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 10, T25S, R28E		
Site Position:		Northing:	408,578.86 usft
From:	Map	Easting:	582,262.72 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 22.875 N
		Longitude:	104° 4' 3.397 W
		Grid Convergence:	0.14 °

Well	San Lorenzo 15 PA State Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 408,578.86 usft
	+E/-W	0.0 usft	Easting: 582,262.72 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 7' 22.875 N
		Longitude:	104° 4' 3.397 W
		Ground Level:	2,983.0 usft

Wellbore	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/31/2013	7.61	59.97	48,341

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	359.80

Survey Program	Date	4/23/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,620.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,781.0	12,970.0	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	0.11	129.47	100.0	-0.1	0.1	-0.1	0.11	0.11	0.00
	200.0	0.23	133.97	200.0	-0.3	0.3	-0.3	0.12	0.12	4.50
	300.0	0.49	132.27	300.0	-0.7	0.8	-0.7	0.26	0.26	-1.70
	400.0	0.78	122.21	400.0	-1.3	1.6	-1.3	0.31	0.29	-10.06
	500.0	0.83	121.38	500.0	-2.1	2.8	-2.1	0.05	0.05	-0.83
	600.0	0.80	121.93	600.0	-2.8	4.1	-2.8	0.03	-0.03	0.55
	700.0	0.60	124.52	700.0	-3.5	5.1	-3.5	0.20	-0.20	2.59
	800.0	0.40	122.24	800.0	-4.0	5.8	-4.0	0.20	-0.20	-2.28
	900.0	0.25	111.84	900.0	-4.2	6.3	-4.3	0.16	-0.15	-10.40

ADC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 15 PA State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3003.0usft (Patterson #75)
Site:	Sec 10, T25S, R28E	MD Reference:	WELL @ 3003.0usft (Patterson #75)
Well:	San Lorenzo 15 PA State Com #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	0.14	59.51	1,000.0	-4.3	6.6	-4.3	0.20	-0.11	-52.33
1,100.0	0.67	324.24	1,100.0	-3.7	6.4	-3.7	0.70	0.53	-95.27
1,200.0	0.58	290.49	1,199.9	-3.1	5.6	-3.1	0.37	-0.09	-33.75
1,300.0	0.51	274.46	1,299.9	-2.9	4.6	-2.9	0.17	-0.07	-16.03
1,400.0	0.47	257.42	1,399.9	-2.9	3.8	-2.9	0.15	-0.04	-17.04
1,500.0	0.18	274.78	1,499.9	-3.0	3.2	-3.0	0.30	-0.29	17.36
1,600.0	0.23	41.64	1,599.9	-2.8	3.2	-2.8	0.37	0.05	126.86
1,700.0	0.47	39.23	1,699.9	-2.4	3.6	-2.4	0.24	0.24	-2.41
1,800.0	0.57	43.34	1,799.9	-1.7	4.2	-1.7	0.11	0.10	4.11
1,900.0	1.28	75.14	1,899.9	-1.0	5.6	-1.1	0.85	0.71	31.80
2,000.0	1.89	87.84	1,999.9	-0.7	8.4	-0.7	0.70	0.61	12.70
2,100.0	2.43	86.60	2,099.8	-0.5	12.1	-0.5	0.54	0.54	-1.24
2,200.0	3.34	90.00	2,199.7	-0.4	17.1	-0.4	0.93	0.91	3.40
2,300.0	4.05	92.13	2,299.5	-0.5	23.6	-0.6	0.72	0.71	2.13
2,400.0	4.39	92.94	2,399.2	-0.8	30.9	-0.9	0.35	0.34	0.81
2,500.0	3.35	91.93	2,499.0	-1.1	37.7	-1.3	1.04	-1.04	-1.01
2,600.0	2.84	81.89	2,598.8	-0.9	43.1	-1.0	0.74	-0.51	-10.04
2,700.0	2.50	75.13	2,698.7	0.0	47.6	-0.1	0.46	-0.34	-6.76
2,800.0	2.33	73.45	2,798.6	1.2	51.7	1.0	0.18	-0.17	-1.68
2,900.0	2.15	73.65	2,898.6	2.3	55.4	2.1	0.18	-0.18	0.20
3,000.0	1.98	68.73	2,998.5	3.4	58.8	3.2	0.25	-0.17	-4.92
3,100.0	1.55	65.63	3,098.4	4.6	61.7	4.4	0.44	-0.43	-3.10
3,200.0	1.38	66.96	3,198.4	5.7	64.0	5.4	0.17	-0.17	1.33
3,300.0	1.22	63.53	3,298.4	6.6	66.1	6.4	0.18	-0.16	-3.43
3,400.0	0.92	68.10	3,398.4	7.4	67.8	7.1	0.31	-0.30	4.57
3,500.0	0.52	77.03	3,498.4	7.8	69.0	7.5	0.41	-0.40	8.93
3,600.0	0.50	82.27	3,598.4	7.9	69.8	7.7	0.05	-0.02	5.24
3,700.0	0.42	82.85	3,698.4	8.0	70.6	7.8	0.08	-0.08	0.58
3,800.0	0.45	83.58	3,798.3	8.1	71.4	7.9	0.03	0.03	0.73
3,900.0	0.33	87.21	3,898.3	8.2	72.1	7.9	0.12	-0.12	3.63
4,000.0	0.31	96.19	3,998.3	8.2	72.6	7.9	0.05	-0.02	8.98
4,100.0	0.31	103.76	4,098.3	8.1	73.2	7.8	0.04	0.00	7.57
4,200.0	0.38	144.12	4,198.3	7.7	73.6	7.5	0.25	0.07	40.36
4,300.0	0.54	176.51	4,298.3	7.0	73.8	6.7	0.30	0.16	32.39
4,400.0	0.49	181.44	4,398.3	6.1	73.8	5.8	0.07	-0.05	4.93
4,500.0	0.43	182.93	4,498.3	5.3	73.8	5.0	0.06	-0.06	1.49
4,600.0	0.40	196.40	4,598.3	4.6	73.7	4.3	0.10	-0.03	13.47
4,700.0	0.53	198.83	4,698.3	3.8	73.5	3.6	0.13	0.13	2.43
4,800.0	0.73	189.14	4,798.3	2.8	73.2	2.5	0.23	0.20	-9.69
4,900.0	0.93	188.23	4,898.3	1.3	73.0	1.1	0.20	0.20	-0.91
5,000.0	1.01	199.51	4,998.3	-0.3	72.6	-0.6	0.21	0.08	11.28
5,100.0	1.08	206.50	5,098.3	-2.0	71.9	-2.2	0.15	0.07	6.99
5,200.0	1.20	217.21	5,198.3	-3.7	70.8	-3.9	0.24	0.12	10.71

ADC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 15 PA State Com #1H
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Site:	Sec 10, T25S, R28E	MD Reference:	WELL @ 3003.0usft (Patterson #75)
Well:	San Lorenzo 15 PA State Com #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	1.15	214.55	5,298.2	-5.3	69.6	-5.6	0.07	-0.05	-2.66
5,400.0	1.12	217.85	5,398.2	-6.9	68.4	-7.2	0.07	-0.03	3.30
5,500.0	1.10	224.43	5,498.2	-8.4	67.2	-8.6	0.13	-0.02	6.58
5,600.0	1.06	224.13	5,598.2	-9.7	65.8	-10.0	0.04	-0.04	-0.30
5,700.0	1.17	225.67	5,698.2	-11.1	64.5	-11.3	0.11	0.11	1.54
5,800.0	1.13	218.07	5,798.1	-12.6	63.1	-12.8	0.16	-0.04	-7.60
5,900.0	1.07	211.55	5,898.1	-14.2	62.0	-14.4	0.14	-0.06	-6.52
6,000.0	1.15	196.38	5,998.1	-15.9	61.3	-16.1	0.30	0.08	-15.17
6,100.0	1.13	191.89	6,098.1	-17.9	60.8	-18.1	0.09	-0.02	-4.49
6,200.0	1.38	195.20	6,198.1	-20.0	60.3	-20.2	0.26	0.25	3.31
6,300.0	0.94	205.56	6,298.0	-21.9	59.6	-22.1	0.49	-0.44	10.36
6,400.0	0.51	224.43	6,398.0	-22.9	58.9	-23.1	0.49	-0.43	18.87
6,500.0	1.38	247.55	6,498.0	-23.7	57.5	-23.9	0.93	0.87	23.12
6,600.0	1.33	258.44	6,598.0	-24.4	55.3	-24.6	0.26	-0.05	10.89
6,700.0	0.78	242.24	6,698.0	-25.0	53.5	-25.1	0.62	-0.55	-16.20
6,800.0	0.95	240.51	6,798.0	-25.7	52.2	-25.9	0.17	0.17	-1.73
6,900.0	1.27	248.01	6,897.9	-26.5	50.4	-26.7	0.35	0.32	7.50
7,000.0	1.77	256.68	6,997.9	-27.3	47.9	-27.4	0.55	0.50	8.67
7,100.0	1.48	264.62	7,097.9	-27.8	45.1	-27.9	0.37	-0.29	7.94
7,150.0	0.14	21.78	7,147.9	-27.8	44.5	-27.9	3.10	-2.68	234.32
7,175.0	0.96	81.65	7,172.9	-27.7	44.7	-27.9	3.59	3.28	239.48
7,200.0	1.36	91.99	7,197.9	-27.7	45.2	-27.8	1.80	1.60	41.36
7,300.0	1.61	102.18	7,297.8	-28.0	47.8	-28.2	0.36	0.25	10.19
7,400.0	1.39	106.00	7,397.8	-28.6	50.3	-28.8	0.24	-0.22	3.82
7,500.0	1.52	122.37	7,497.8	-29.7	52.6	-29.9	0.43	0.13	16.37
7,600.0	1.51	141.64	7,597.7	-31.4	54.5	-31.6	0.51	-0.01	19.27
TIE ON @ 7620' MD / 7617' TVD									
7,620.0	1.64	161.36	7,617.7	-31.9	54.8	-32.1	2.77	0.65	98.60
7,781.0	2.50	206.80	7,778.6	-37.2	54.0	-37.4	1.11	0.53	28.22
7,813.0	2.60	302.40	7,810.6	-37.5	53.0	-37.7	11.81	0.31	298.75
7,845.0	5.80	329.10	7,842.5	-35.7	51.6	-35.9	11.46	10.00	83.44
7,876.0	9.40	338.40	7,873.2	-32.0	49.8	-32.2	12.23	11.61	30.00
7,908.0	13.20	342.30	7,904.6	-26.1	47.8	-26.2	12.11	11.88	12.19
7,940.0	17.10	345.60	7,935.5	-18.0	45.5	-18.2	12.48	12.19	10.31
7,972.0	20.80	349.00	7,965.8	-7.9	43.2	-8.0	12.06	11.56	10.63
8,004.0	24.40	351.80	7,995.3	4.2	41.2	4.1	11.74	11.25	8.75
8,036.0	28.20	353.70	8,024.0	18.3	39.4	18.1	12.16	11.88	5.94
8,067.0	30.60	353.20	8,051.0	33.4	37.7	33.3	7.78	7.74	-1.61
8,099.0	34.60	352.70	8,077.9	50.5	35.6	50.4	12.53	12.50	-1.56
8,131.0	38.40	354.30	8,103.7	69.4	33.4	69.3	12.24	11.88	5.00
8,163.0	41.30	356.90	8,128.2	89.9	31.9	89.7	10.45	9.06	8.13
8,195.0	43.90	358.60	8,151.8	111.5	31.0	111.4	8.88	8.13	5.31
8,227.0	47.20	359.90	8,174.2	134.3	30.7	134.2	10.71	10.31	4.06

ADC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 15 PA State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3003.0usft (Patterson #75)
Site:	Sec 10, T25S, R28E	MD Reference:	WELL @ 3003.0usft (Patterson #75)
Well:	San Lorenzo 15 PA State Com #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)
8,258.0	51.00	359.00	8,194.5	157.8	30.5	157.7	12.45	12.26	-2.90
CROSSED HARD LINE @ 8286' MD / 8212' TVD									
8,286.1	53.90	359.62	8,211.6	180.0	30.2	179.9	10.46	10.31	2.20
8,290.0	54.30	359.70	8,213.9	183.2	30.2	183.1	10.46	10.32	2.11
8,322.0	58.00	359.90	8,231.7	209.8	30.1	209.7	11.57	11.56	0.63
8,353.0	60.80	356.40	8,247.5	236.4	29.3	236.3	13.27	9.03	-11.29
8,426.0	68.20	357.10	8,278.9	302.2	25.5	302.1	10.17	10.14	0.96
8,457.0	71.80	356.00	8,289.5	331.2	23.8	331.2	12.08	11.61	-3.55
8,489.0	75.70	356.50	8,298.4	361.9	21.8	361.8	12.28	12.19	1.56
8,521.0	80.30	357.60	8,305.1	393.1	20.2	393.1	14.76	14.38	3.44
8,553.0	85.10	358.80	8,309.2	424.9	19.2	424.8	15.45	15.00	3.75
8,584.0	90.70	359.90	8,310.3	455.8	18.8	455.7	18.41	18.06	3.55
8,616.0	92.80	0.80	8,309.3	487.8	19.0	487.7	7.14	6.56	2.81
8,648.0	93.00	0.60	8,307.7	519.8	19.4	519.7	0.88	0.63	-0.63
8,680.0	93.20	0.60	8,306.0	551.7	19.7	551.6	0.63	0.63	0.00
8,743.0	93.70	0.20	8,302.2	614.6	20.2	614.5	1.02	0.79	-0.63
8,807.0	93.90	0.10	8,297.9	678.4	20.4	678.4	0.35	0.31	-0.16
8,870.0	94.40	0.10	8,293.4	741.3	20.5	741.2	0.79	0.79	0.00
8,934.0	92.10	359.20	8,289.8	805.2	20.1	805.1	3.86	-3.59	-1.41
8,998.0	92.00	358.60	8,287.5	869.1	18.8	869.0	0.95	-0.16	-0.94
9,061.0	90.00	359.00	8,286.4	932.1	17.5	932.0	3.24	-3.17	0.63
9,124.0	90.20	359.40	8,286.3	995.1	16.6	995.0	0.71	0.32	0.63
9,188.0	90.00	359.00	8,286.1	1,059.1	15.7	1,059.0	0.70	-0.31	-0.63
9,252.0	89.60	358.50	8,286.4	1,123.1	14.4	1,123.0	1.00	-0.63	-0.78
9,315.0	91.80	358.30	8,285.6	1,186.0	12.6	1,186.0	3.51	3.49	-0.32
9,379.0	92.70	358.10	8,283.1	1,250.0	10.6	1,249.9	1.44	1.41	-0.31
9,443.0	90.70	357.60	8,281.2	1,313.9	8.2	1,313.8	3.22	-3.13	-0.78
9,506.0	91.10	358.80	8,280.2	1,376.8	6.2	1,376.8	2.01	0.63	1.90
9,569.0	89.30	357.40	8,280.0	1,439.8	4.1	1,439.8	3.62	-2.86	-2.22
9,633.0	87.50	356.20	8,281.8	1,503.7	0.5	1,503.7	3.38	-2.81	-1.88
9,697.0	90.20	355.30	8,283.0	1,567.5	-4.2	1,567.5	4.45	4.22	-1.41
9,760.0	90.70	355.50	8,282.6	1,630.3	-9.2	1,630.3	0.85	0.79	0.32
9,823.0	91.50	356.00	8,281.3	1,693.1	-13.9	1,693.1	1.50	1.27	0.79
9,886.0	89.30	354.10	8,280.9	1,755.8	-19.3	1,755.9	4.61	-3.49	-3.02
9,950.0	89.20	353.50	8,281.7	1,819.5	-26.3	1,819.5	0.95	-0.16	-0.94
10,014.0	90.90	355.30	8,281.7	1,883.1	-32.5	1,883.2	3.87	2.66	2.81
10,078.0	90.70	355.30	8,280.8	1,946.9	-37.7	1,947.0	0.31	-0.31	0.00
10,141.0	88.80	353.90	8,281.1	2,009.6	-43.7	2,009.8	3.75	-3.02	-2.22
10,204.0	90.80	355.80	8,281.3	2,072.4	-49.3	2,072.5	4.38	3.17	3.02
10,267.0	89.80	355.80	8,281.0	2,135.2	-53.9	2,135.4	1.59	-1.59	0.00
10,331.0	90.00	355.70	8,281.1	2,199.0	-58.7	2,199.2	0.35	0.31	-0.16
10,394.0	92.00	358.10	8,280.0	2,261.9	-62.1	2,262.1	4.96	3.17	3.81
10,458.0	91.40	357.40	8,278.1	2,325.8	-64.6	2,326.1	1.44	-0.94	-1.09
10,521.0	89.50	358.30	8,277.6	2,388.8	-67.0	2,389.0	3.34	-3.02	1.43

ADC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 15 PA State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3003.0usft (Patterson #75)
Site:	Sec 10, T25S, R28E	MD Reference:	WELL @ 3003.0usft (Patterson #75)
Well:	San Lorenzo 15 PA State Com #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)
10,585.0	90.30	359.20	8,277.7	2,452.8	-68.4	2,453.0	1.88	1.25	1.41
10,649.0	90.00	359.00	8,277.5	2,516.8	-69.4	2,517.0	0.56	-0.47	-0.31
10,712.0	88.80	358.50	8,278.2	2,579.8	-70.7	2,580.0	2.06	-1.90	-0.79
10,776.0	89.60	358.80	8,279.1	2,643.7	-72.3	2,644.0	1.33	1.25	0.47
10,840.0	89.50	359.40	8,279.6	2,707.7	-73.3	2,708.0	0.95	-0.16	0.94
10,904.0	89.40	359.50	8,280.2	2,771.7	-73.9	2,772.0	0.22	-0.16	0.16
10,968.0	89.40	359.40	8,280.9	2,835.7	-74.5	2,835.9	0.16	0.00	-0.16
11,031.0	90.10	0.20	8,281.1	2,898.7	-74.7	2,898.9	1.69	1.11	1.27
11,095.0	90.40	1.10	8,280.9	2,962.7	-74.0	2,962.9	1.48	0.47	1.41
11,159.0	90.80	1.60	8,280.2	3,026.7	-72.5	3,026.9	1.00	0.63	0.78
11,222.0	90.80	1.10	8,279.3	3,089.7	-71.0	3,089.9	0.79	0.00	-0.79
11,286.0	91.60	1.30	8,278.0	3,153.6	-69.6	3,153.8	1.29	1.25	0.31
11,349.0	90.40	1.80	8,276.9	3,216.6	-67.9	3,216.8	2.06	-1.90	0.79
11,413.0	90.10	1.50	8,276.6	3,280.6	-66.1	3,280.8	0.66	-0.47	-0.47
11,476.0	90.00	0.80	8,276.5	3,343.5	-64.8	3,343.8	1.12	-0.16	-1.11
11,540.0	90.00	0.60	8,276.5	3,407.5	-64.1	3,407.7	0.31	0.00	-0.31
11,604.0	88.80	1.80	8,277.2	3,471.5	-62.7	3,471.7	2.65	-1.88	1.88
11,667.0	88.00	1.30	8,279.0	3,534.5	-61.0	3,534.7	1.50	-1.27	-0.79
11,731.0	87.80	0.40	8,281.3	3,598.4	-60.1	3,598.6	1.44	-0.31	-1.41
11,795.0	89.00	1.60	8,283.1	3,662.4	-58.9	3,662.6	2.65	1.88	1.88
11,858.0	89.50	1.30	8,283.9	3,725.4	-57.4	3,725.5	0.93	0.79	-0.48
11,922.0	90.00	1.50	8,284.2	3,789.3	-55.8	3,789.5	0.84	0.78	0.31
11,986.0	90.20	1.80	8,284.1	3,853.3	-53.9	3,853.5	0.56	0.31	0.47
12,049.0	89.80	0.90	8,284.1	3,916.3	-52.5	3,916.5	1.56	-0.63	-1.43
12,112.0	90.90	0.80	8,283.7	3,979.3	-51.5	3,979.4	1.75	1.75	-0.16
12,176.0	91.20	0.40	8,282.5	4,043.3	-50.9	4,043.4	0.78	0.47	-0.63
12,239.0	91.90	0.80	8,280.8	4,106.2	-50.2	4,106.4	1.28	1.11	0.63
12,303.0	91.70	0.60	8,278.8	4,170.2	-49.4	4,170.4	0.44	-0.31	-0.31
12,366.0	92.40	1.10	8,276.6	4,233.2	-48.5	4,233.3	1.37	1.11	0.79
12,429.0	89.40	1.50	8,275.6	4,296.1	-47.1	4,296.3	4.80	-4.76	0.63
12,493.0	88.70	1.30	8,276.6	4,360.1	-45.5	4,360.2	1.14	-1.09	-0.31
12,557.0	89.70	1.80	8,277.5	4,424.1	-43.8	4,424.2	1.75	1.56	0.78
12,621.0	90.30	2.20	8,277.5	4,488.0	-41.5	4,488.1	1.13	0.94	0.63
12,684.0	90.80	1.60	8,276.9	4,551.0	-39.4	4,551.1	1.24	0.79	-0.95
12,748.0	88.40	0.90	8,277.4	4,615.0	-38.0	4,615.1	3.91	-3.75	-1.09
12,812.0	86.30	0.40	8,280.3	4,678.9	-37.3	4,679.0	3.37	-3.28	-0.78
12,875.0	88.30	1.10	8,283.3	4,741.8	-36.5	4,741.9	3.36	3.17	1.11
12,920.0	89.10	0.80	8,284.3	4,786.8	-35.7	4,786.9	1.90	1.78	-0.67
TD @ 12970' MD / 8285' TVD									
12,970.0	89.10	0.80	8,285.1	4,836.8	-35.0	4,836.9	0.00	0.00	0.00

ADC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well San Lorenzo 15 PA State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3003.0usft (Patterson #75)
Site:	Sec 10, T25S, R28E	MD Reference:	WELL @ 3003.0usft (Patterson #75)
Well:	San Lorenzo 15 PA State Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

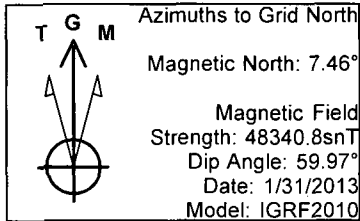
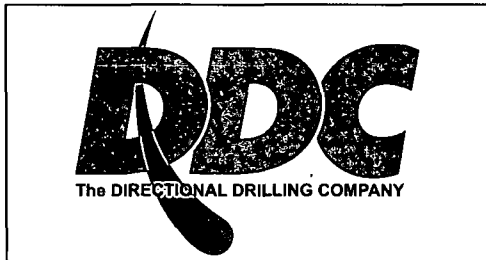
Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,620.0	7,617.7	-31.9	54.8	TIE ON @ 7620' MD / 7617' TVD
8,286.1	8,211.6	180.0	30.2	CROSSED HARD LINE @ 8286' MD / 8212' TVD
12,970.0	8,285.1	4,836.8	-35.0	TD @ 12970' MD / 8285' TVD

Checked By: _____	Approved By: _____	Date: _____
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Company Name: Mewbourne Oil Co
San Lorenzo 15 PA State Com #1H
Eddy County, New Mexico
Rig: Paterson #75
Created By: Dina Chance
Date: 4/23/2013

San Lorenzo 15 PA State Com #1H
Eddy County, New Mexico
Q130110 & WT-13265
Design #2

Mewbourne Oil Company



PROJECT DETAILS: Eddy County, New Mexico

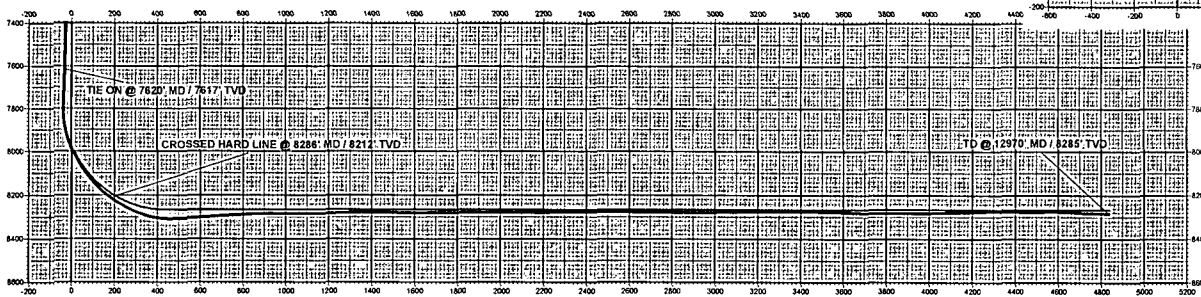
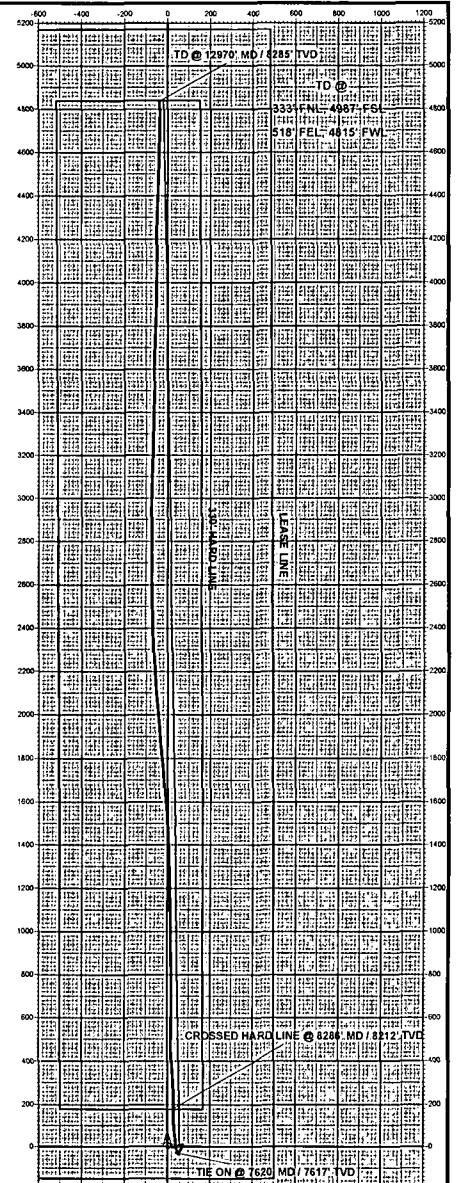
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: San Lorenzo 15 PA State Com #1H

Ground Level:	2983.0
+N/-S	+E/-W
North	East
408578.85	68252.72
32° 7' 22.876 N	104° 4' 3.397 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	North	East	Latitude
PBHL San Lorenzo 15 PA State Com #1H Design #1 - plan hits target center	8268.0	4839.8	-17.0	413418.70	582245.71	32° 8' 10.773 N
						104° 4' 3.458 W

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
7620.0	1.54	161.36	7617.7	-31.9	54.8	-32.1	147.8	TIE ON @ 7620' MD / 7617' TVD	
8266.1	53.90	359.82	8211.6	180.0	50.2	179.9	375.2	CROSSED HARD LINE @ 8266' MD / 8212' TVD	
12970.0	89.10	0.00	8285.1	4836.8	-35.0	4856.9	6035.8	TD @ 12970' MD / 8285' TVD	



Vertical Section at 359.80° (200 usf/in)

Operating Company Mewbourne
 Well Name & Number an Lorenzo 15PA ST Comm 1
 Sales Ticket Number 5453725
 Date 4/22/2013

Company Rep George Berryman
 Field Hector R Magallanes
 BOT Service Rep Hector R Magallanes
 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	8,458.00	9,960	6,230				
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,466.22	12,410	10,680				
Bott Liner														
TVD		8,284.00		KOP		7,690.00		Open Hole	6.125	Casing Vol. (bbl)	313.7			
Carry Fluid Weight (ppg)			8.7		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	10292414		JR Setting Sleeve_RH Profile			8199.43							

Zone Length												
		JR Sleeve_S3 Hyd Set Packer	8199.43	8.65	5.813	3.875						
		4-1/2-13.5 LTC Nipple	8208.08	5.09	5.000	4.000						
		6 Joints of 4-1/2-13.5 LTC Casing	8213.17	229.33	5.000	3.920						
		3.625 EX Frac Sleeve	8442.50	2.36	5.750		3.525	2286				317
		3 Joint of 4-1/2-13.5 LTC Casing	8444.86	115.58	5.000	4.000						
		Baker Open Hole Packer	8560.44	3.89	5.820	3.875		2154				
		3 Joints of 4-1/2-13.5 LTC Casing	8564.33	114.79	5.000	4.000						
		3.500 EX Frac Sleeve	8679.12	2.36	5.750		3.400	2286				321
		3 Joint of 4-1/2-13.5 LTC Casing	8681.48	114.82	5.000	4.000						
		Baker Open Hole Packer	8796.30	3.89	5.820	3.875		2154				
		3 Joints of 4-1/2-13.5 LTC Casing	8800.19	111.98	5.000	4.000						
		3.375 EX Frac Sleeve	8912.17	2.36	5.750		3.275	2286				324
		3 Joint of 4-1/2-13.5 LTC Casing	8914.53	114.80	5.000	4.000						
		Baker Open Hole Packer	9029.33	3.89	5.820	3.875		2154				
		3 Joints of 4-1/2-13.5 LTC Casing	9033.22	113.01	5.000	4.000						
		3.250 EX Frac Sleeve	9146.23	2.36	5.750		3.150	2286				328
		3 Joint of 4-1/2-13.5 LTC Casing	9148.59	115.09	5.000	4.000						
		Baker Open Hole Packer	9263.68	3.89	5.820	3.875		2154				
		3 Joints of 4-1/2-13.5 LTC Casing	9267.57	115.13	5.000	4.000						
		3.125 EX Frac Sleeve	9382.70	2.36	5.750		3.025	2286				331
		3 Joints of 4-1/2-13.5 LTC Casing	9385.06	115.13	5.000	4.000						
		Baker Open Hole Packer	9500.19	3.89	5.820	3.875		2154				
		3 Joints of 4-1/2-13.5 LTC Casing	9504.08	112.61	5.000	4.000						
		3.000 EX Frac sleeve	9616.69	2.36	5.750		2.900	2286				335
		3 Joint of 4-1/2-13.5 LTC Casing	9619.05	115.17	5.000	4.000						
		Baker Open Hole Packer	9734.22	3.89	5.820	3.875		2154				
		3 Joints of 4-1/2-13.5 LTC Casing	9738.11	114.04	5.000	4.000						
		2.875 EX Frac Sleeve	9852.15	2.36	5.750		2.775	2286				338
		3 Joints of 4-1/2-13.5 LTC Casing	9854.51	113.02	5.000	4.000						
		Baker Open Hole Packer	9967.53	3.89	5.820	3.875		2154				
		3 Joints of 4-1/2-13.5 LTC Casing	9971.42	113.33	5.000	4.000						
		2.750 EX Frac Sleeve	10084.75	2.36	5.750		2.650	2286				342
		3 Joint of 4-1/2-13.5 LTC Casing	10087.11	114.10	5.000	4.000						
		Baker Open Hole Packer	10201.21	3.89	5.820	3.875		2154				
		3 Joints of 4-1/2-13.5 LTC Casing	10205.10	112.94	5.000	4.000						

Operating Company Mewbourne
 Well Name & Number an Lorenzo 15PA ST Comm 1
 Sales Ticket Number 5453725
 Date 4/22/2013

Company Rep George Berryman
 Field
 BOT Service Rep Hector R Magallanes
 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	8,458.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,466.22	12,410	10,680
Bott Liner										

TVD	8,284.00	KOP	7,690.00	Open Hole	6.125	Casing Vol. (bbl)	313.7
Carry Fluid Weight (ppg)	8.7	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)
	2.625 EX Frac Sleeve	10318.04	2.36	5.750		2.525	2286		345
	3 Joints of 4-1/2-13.5 LTC Casing	10320.40	113.15	5.000	4.000				
	Baker Open Hole Packer	10433.55	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing	10437.44	115.15	5.000	4.000				
	2.500 EX Frac Sleeve	10552.59	2.36	5.750		2.400	2286		349
	3 Joint of 4-1/2-13.5 LTC Casing	10554.95	114.91	5.000	4.000				
	Baker Open Hole Packer	10669.86	3.89	5.820	3.875		2154		
	3 Joints of 4-1/2-13.5 LTC Casing	10673.75	113.38	5.000	4.000				
	2.375 EX Frac Sleeve	10787.13	2.36	5.750		2.275	2286		352
	3 Joints of 4-1/2-13.5 LTC Casing	10789.49	114.17	5.000	4.000				
	Baker Open Hole Packer	10903.66	3.89	5.820	3.875		2154		
	3 Joint of 4-1/2-13.5 LTC Casing	10907.55	114.76	5.000	4.000				
	2.250 EX Frac Sleeve	11022.31	2.36	5.750		2.150	2286		356
	3 Joints of 4-1/2-13.5 LTC Casing	11024.67	114.88	5.000	4.000				
	Baker Open Hole Packer	11139.55	3.89	5.820	3.875		2154		
	3 Joint of 4-1/2-13.5 LTC Casing	11143.44	114.89	5.000	4.000				
	2.125 EX Frac Sleeve	11258.33	2.36	5.750		2.025	2286		359
	3 Joints of 4-1/2-13.5 LTC Casing	11260.69	114.41	5.000	4.000				
	Baker Open Hole Packer	11375.10	3.89	5.820	3.875		2154		
	3 Joint of 4-1/2-13.5 LTC Casing	11378.99	115.24	5.000	4.000				
	2.000 EX Frac Sleeve	11494.23	2.36	5.750		1.900	2286		363
	3 Joints of 4-1/2-13.5 LTC Casing	11496.59	115.16	5.000	4.000				
	Baker Open Hole Packer	11611.75	3.89	5.820	3.875		2154		
	3 Joint of 4-1/2-13.5 LTC Casing	11615.64	114.74	5.000	4.000				
	1.875 EX Frac Sleeve	11730.38	2.36	5.750		1.775	2286		366
	3 Joints of 4-1/2-13.5 LTC Casing	11732.74	113.89	5.000	4.000				
	Baker Open Hole Packer	11846.63	3.89	5.820	3.875		2154		
	3 Joints of 4-1/2-13.5 LTC Casing	11850.52	114.89	5.000	4.000				
	1.750 EX Frac Sleeve	11965.41	2.36	5.750		1.650	2286		370
	3 Joint of 4-1/2-13.5 LTC Casing	11967.77	114.38	5.000	4.000				
	Baker Open Hole Packer	12082.15	3.89	5.820	3.875		2154		
	2 Joints of 4-1/2-13.5 LTC Casing	12086.04	113.38	5.000	4.000				
	1.625 EX Frac Sleeve	12199.42	2.36	5.750		1.525	2286		373
	3 Joints of 4-1/2-13.5 LTC Casing	12201.78	114.32	5.000	4.000				
	Baker Open Hole Packer	12316.10	3.89	5.820	3.875		2154		
	3 Joints of 4-1/2-13.5 LTC Casing	12319.99	113.26	5.000	4.000				
	1.50 DB EX Frac Sleeve	12433.25	2.36	5.750		1.400	2286		377
	3 Joints of 4-1/2-13.5 LTC Casing	12435.61	113.01	5.000	4.000				
	Baker Open Hole Packer	12548.62	3.89	5.820			2154		
	3 Joints of 4-1/2-13.5 LTC Casing	12552.51	114.92	5.000	4.000				

Operating Company	Mewbourne
Well Name & Number	an Lorenzo 15PA ST Comm 1
Sales Ticket Number	5453725

Company Rep	George Berryman
Field	
BOT Service Rep	Hector R Magallanes
District Location	Odessa, Texas, USA

[illegible]

TVD	8,284.00	KOP	7,690.00	Open Hole	6.125	Casing Vol. (bbl)	313.7
Carry Fluid Weight (ppg)	8.7	Propan Content (ppa)				Max Drill Out Size	0

[illegible]