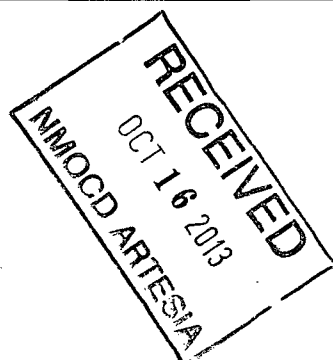


Company: Mewbourne Oil Company
Lease/Well: Bradley 36 PM State Com/No. 001H



Rig Name: Patterson 80
State/County: New Mexico/Eddy
Latitude: 32.70, Longitude: -104.02
GRID North is 0.17 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 21 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...ley 36 pm state com #1h_01.ut

Minimum Curvature Method

Report Date/Time: 8/26/2013 / 11:24

Vaughn Energy Services

Ft.Worth, TX

817-741-3610

Surveyor: Kenny Gabel

Bradley 36 PM State Com No. 001H / API 30-015-40069

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	0.71	265.59	100.00	-0.05	-0.62	-0.05	0.62	265.59	0.71
200.00	0.67	285.17	199.99	0.06	-1.79	0.06	1.79	271.84	0.24
300.00	1.24	293.98	299.98	0.65	-3.34	0.65	3.41	280.99	0.59
400.00	1.21	293.11	399.95	1.50	-5.31	1.50	5.51	285.83	0.03
500.00	1.23	322.23	499.93	2.77	-6.94	2.77	7.47	291.77	0.62
600.00	1.32	345.44	599.91	4.74	-7.89	4.74	9.20	300.98	0.52
700.00	1.19	356.82	699.88	6.89	-8.23	6.89	10.74	309.92	0.28
800.00	1.24	350.02	799.86	9.00	-8.48	9.00	12.37	316.70	0.15
900.00	1.24	13.74	899.84	11.12	-8.41	11.12	13.95	322.91	0.51
1000.00	1.63	42.28	999.81	13.23	-7.20	13.23	15.06	331.46	0.80
1100.00	2.34	57.76	1099.75	15.37	-4.51	15.37	16.02	343.66	0.89
1200.00	2.65	60.54	1199.65	17.60	-0.76	17.60	17.62	357.51	0.33
1300.00	1.93	57.72	1299.57	19.64	2.67	19.64	19.82	7.74	0.74
1400.00	1.74	53.35	1399.52	21.44	5.31	21.44	22.09	13.90	0.24
1500.00	1.52	52.38	1499.48	23.15	7.57	23.15	24.36	18.11	0.21
1600.00	1.73	42.27	1599.44	25.08	9.64	25.08	26.87	21.02	0.35
1700.00	1.90	47.87	1699.39	27.31	11.88	27.31	29.78	23.52	0.25
1800.00	1.76	42.67	1799.34	29.55	14.15	29.55	32.76	25.59	0.22

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
1900.00	1.79	45.04	1899.29	31.78	16.30	31.78	35.72	27.15	0.08
2000.00	1.18	52.46	1999.26	33.51	18.22	33.51	38.15	28.53	0.64
2100.00	1.23	47.70	2099.24	34.86	19.83	34.86	40.10	29.63	0.11
2200.00	1.19	59.27	2199.21	36.11	21.51	36.11	42.03	30.78	0.25
2300.00	0.75	51.83	2299.20	37.04	22.91	37.04	43.55	31.74	0.46
2400.00	1.13	54.83	2399.19	38.01	24.23	38.01	45.07	32.51	0.38
2500.00	0.88	31.36	2499.17	39.23	25.43	39.23	46.75	32.95	0.48
2600.00	0.72	59.59	2599.16	40.20	26.37	40.20	48.08	33.26	0.42
2700.00	0.61	65.01	2699.15	40.74	27.39	40.74	49.09	33.91	0.13
2800.00	0.65	28.27	2799.15	41.47	28.14	41.47	50.12	34.16	0.40
2900.00	0.66	23.25	2899.14	42.50	28.64	42.50	51.25	33.98	0.06
3000.00	0.39	70.08	2999.14	43.14	29.18	43.14	52.08	34.08	0.48
3100.00	0.48	24.80	3099.14	43.64	29.68	43.64	52.77	34.22	0.34
3200.00	0.22	32.22	3199.13	44.18	29.96	44.18	53.37	34.14	0.27
3300.00	0.61	33.67	3299.13	44.78	30.35	44.78	54.09	34.13	0.39
3400.00	0.37	1.05	3399.13	45.54	30.65	45.54	54.89	33.94	0.36
3500.00	0.46	47.62	3499.13	46.13	30.95	46.13	55.55	33.86	0.34
3600.00	0.59	338.91	3599.12	46.88	31.06	46.88	56.24	33.53	0.60
3700.00	0.65	329.15	3699.12	47.84	30.59	47.84	56.78	32.59	0.12
3800.00	0.65	321.63	3799.11	48.77	29.95	48.77	57.23	31.55	0.08
3900.00	0.59	315.93	3899.10	49.58	29.24	49.58	57.56	30.53	0.08
4000.00	0.73	295.51	3999.10	50.23	28.31	50.23	57.65	29.40	0.27
4100.00	3.04	284.46	4099.04	51.16	25.16	51.16	57.02	26.19	2.33
4200.00	4.03	284.55	4198.85	52.71	19.20	52.71	56.10	20.01	0.98
4300.00	4.46	296.05	4298.57	55.30	12.31	55.30	56.65	12.55	0.95
4400.00	3.83	296.24	4398.31	58.48	5.82	58.48	58.77	5.68	0.62
4500.00	3.35	292.60	4498.11	61.08	0.12	61.08	61.08	0.12	0.53
4600.00	3.33	294.32	4597.94	63.40	-5.22	63.40	63.62	355.29	0.10
4700.00	3.18	311.37	4697.79	66.43	-9.95	66.43	67.17	351.48	0.98
4800.00	3.05	306.29	4797.64	69.84	-14.17	69.84	71.26	348.53	0.30
4900.00	2.42	313.91	4897.52	72.87	-17.84	72.87	75.02	346.25	0.72
5000.00	3.05	324.30	4997.41	76.50	-20.91	76.50	79.31	344.71	0.80
5100.00	2.55	320.59	5097.29	80.38	-23.88	80.38	83.85	343.46	0.53
5200.00	2.04	325.89	5197.21	83.57	-26.29	83.57	87.61	342.54	0.55
5300.00	2.47	335.46	5297.13	87.00	-28.18	87.00	91.45	342.05	0.57
5400.00	2.39	329.37	5397.04	90.75	-30.14	90.75	95.63	341.63	0.27
5500.00	2.11	325.70	5496.97	94.07	-32.24	94.07	99.44	341.08	0.31
5600.00	2.19	310.34	5596.90	96.82	-34.73	96.82	102.86	340.27	0.58
5700.00	2.54	304.23	5696.81	99.30	-38.01	99.30	106.33	339.05	0.43

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
5800.00	2.15	304.72	5796.73	101.62	-41.39	101.62	109.72	337.84	0.39
5900.00	2.82	287.98	5896.63	103.45	-45.27	103.45	112.92	336.36	0.98
6000.00	3.57	282.58	5996.48	104.89	-50.66	104.89	116.48	334.22	0.81
6100.00	3.56	283.65	6096.28	106.30	-56.72	106.30	120.48	331.92	0.07
6200.00	3.63	295.60	6196.09	108.40	-62.59	108.40	125.17	330.00	0.75
6300.00	4.03	282.29	6295.87	110.52	-68.88	110.52	130.23	328.07	0.97
6400.00	4.14	272.47	6395.61	111.42	-75.91	111.42	134.83	325.73	0.71
6500.00	4.50	271.82	6495.33	111.70	-83.44	111.70	139.43	323.24	0.37
6600.00	4.40	284.25	6595.03	112.77	-91.08	112.77	144.96	321.07	0.97
6700.00	4.16	288.05	6694.75	114.84	-98.25	114.84	151.13	319.45	0.37
6800.00	3.62	275.74	6794.52	116.28	-104.85	116.28	156.57	317.96	0.99
6900.00	2.66	271.76	6894.37	116.67	-110.31	116.67	160.56	316.61	0.99
7000.00	2.81	257.59	6994.26	116.21	-115.02	116.21	163.51	315.30	0.69
7100.00	2.56	262.24	7094.15	115.39	-119.63	115.39	166.21	313.97	0.33
7200.00	2.46	242.11	7194.05	114.08	-123.74	114.08	168.30	312.67	0.88
7300.00	2.62	261.54	7293.96	112.74	-127.89	112.74	170.49	311.40	0.87
7400.00	1.63	259.29	7393.89	112.14	-131.55	112.14	172.86	310.45	0.99
7486.00	2.03	256.75	7479.84	111.56	-134.23	111.56	174.54	309.73	0.47

Mewbourne Oil Company .

Eddy County, New Mexico

Bradley 36 PM State Com #1H Section 36

Bradley 36 State Com #1H

OH

Design: OH

Standard Survey Report

28 August, 2013

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Site:	Bradley 36 PM State Com #1H Section 36	MD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Well:	Bradley 36 State Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	Bradley 36 PM State Com #1H Section 36		
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Site Position:		Northing:	617,669.95 usft	Latitude:	32° 41' 51.656 N
From:	Map	Easting:	596,319.79 usft	Longitude:	104° 1' 12.812 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.17 °

Well	Bradley 36 State Com #1H				
Well Position	+N/-S	0.0 usft	Northing:	617,669.95 usft	Latitude: 32° 41' 51.656 N
	+E/-W	0.0 usft	Easting:	596,319.79 usft	Longitude: 104° 1' 12.812 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level: 3,431.0 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/30/2013	7.57	60.50	48,639

Design	OH				
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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	270.35

Survey Program		Date	8/28/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	7,486.0	Gyro #1 (OH)	GyroFlex		
7,535.0	12,435.0	Survey #2 (OH)	MWD	MWD - Standard	

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	0.71	265.59	100.0	0.0	-0.6	0.6	0.71	0.71	0.00
200.0	0.67	285.17	200.0	0.1	-1.8	1.8	0.24	-0.04	19.58
300.0	1.24	293.98	300.0	0.7	-3.4	3.4	0.59	0.57	8.81
400.0	1.21	293.11	400.0	1.5	-5.3	5.3	0.04	-0.03	-0.87
500.0	1.23	322.23	499.9	2.8	-6.9	7.0	0.61	0.02	29.12
600.0	1.32	345.44	599.9	4.7	-7.9	7.9	0.52	0.09	23.21
700.0	1.19	356.82	699.9	6.9	-8.2	8.3	0.28	-0.13	11.38
800.0	1.24	350.02	799.9	9.0	-8.5	8.5	0.15	0.05	-6.80
900.0	1.24	13.74	899.8	11.1	-8.4	8.5	0.51	0.00	23.72

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Site:	Bradley 36 PM State Com #1H Section 36	MD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Well:	Bradley 36 State Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	1.63	42.28	999.8	13.2	-7.2	7.3	0.80	0.39	28.54
1,100.0	2.34	57.76	1,099.7	15.3	-4.5	4.6	0.88	0.71	15.48
1,200.0	2.65	60.54	1,199.7	17.6	-0.8	0.9	0.33	0.31	2.78
1,300.0	1.93	57.72	1,299.6	19.6	2.7	-2.5	0.73	-0.72	-2.82
1,400.0	1.74	53.35	1,399.5	21.4	5.3	-5.2	0.24	-0.19	-4.37
1,500.0	1.52	52.38	1,499.5	23.1	7.6	-7.4	0.22	-0.22	-0.97
1,600.0	1.73	42.27	1,599.4	25.1	9.6	-9.5	0.35	0.21	-10.11
1,700.0	1.90	47.87	1,699.4	27.3	11.9	-11.7	0.25	0.17	5.60
1,800.0	1.76	42.67	1,799.3	29.5	14.2	-14.0	0.22	-0.14	-5.20
1,900.0	1.79	45.04	1,899.3	31.8	16.3	-16.1	0.08	0.03	2.37
2,000.0	1.18	52.46	1,999.3	33.5	18.2	-18.0	0.64	-0.61	7.42
2,100.0	1.23	47.70	2,099.2	34.8	19.8	-19.6	0.11	0.05	-4.76
2,200.0	1.19	59.27	2,199.2	36.1	21.5	-21.3	0.25	-0.04	11.57
2,300.0	0.75	51.83	2,299.2	37.0	22.9	-22.7	0.46	-0.44	-7.44
2,400.0	1.13	54.83	2,399.2	38.0	24.2	-24.0	0.38	0.38	3.00
2,500.0	0.88	31.36	2,499.2	39.2	25.5	-25.2	0.48	-0.25	-23.47
2,600.0	0.72	59.59	2,599.2	40.2	26.4	-26.1	0.42	-0.16	28.23
2,700.0	0.61	65.01	2,699.2	40.7	27.4	-27.2	0.13	-0.11	5.42
2,800.0	0.65	28.27	2,799.1	41.5	28.2	-27.9	0.40	0.04	-36.74
2,900.0	0.66	23.25	2,899.1	42.5	28.7	-28.4	0.06	0.01	-5.02
3,000.0	0.39	70.08	2,999.1	43.1	29.2	-28.9	0.49	-0.27	46.83
3,100.0	0.48	24.80	3,099.1	43.6	29.7	-29.4	0.35	0.09	-45.28
3,200.0	0.22	32.22	3,199.1	44.2	30.0	-29.7	0.26	-0.26	7.42
3,300.0	0.61	33.67	3,299.1	44.8	30.4	-30.1	0.39	0.39	1.45
3,400.0	0.37	1.05	3,399.1	45.5	30.7	-30.4	0.36	-0.24	-32.62
3,500.0	0.46	47.62	3,499.1	46.1	31.0	-30.7	0.34	0.09	46.57
3,600.0	0.59	338.91	3,599.1	46.9	31.1	-30.8	0.60	0.13	-68.71
3,700.0	0.65	329.15	3,699.1	47.9	30.6	-30.3	0.12	0.06	-9.76
3,800.0	0.65	321.63	3,799.1	48.8	30.0	-29.7	0.09	0.00	-7.52
3,900.0	0.59	315.93	3,899.1	49.6	29.3	-29.0	0.09	-0.06	-5.70
4,000.0	0.73	295.51	3,999.1	50.3	28.3	-28.0	0.27	0.14	-20.42
4,100.0	3.04	284.46	4,099.0	51.2	25.2	-24.9	2.33	2.31	-11.05
4,200.0	4.03	284.55	4,198.8	52.7	19.2	-18.9	0.99	0.99	0.09
4,300.0	4.46	296.05	4,298.6	55.3	12.3	-12.0	0.95	0.43	11.50
4,400.0	3.83	296.24	4,398.3	58.5	5.8	-5.5	0.63	-0.63	0.19
4,500.0	3.35	292.60	4,498.1	61.1	0.1	0.2	0.53	-0.48	-3.64
4,600.0	3.33	294.32	4,597.9	63.4	-5.2	5.6	0.10	-0.02	1.72
4,700.0	3.18	311.37	4,697.8	66.5	-9.9	10.3	0.98	-0.15	17.05
4,800.0	3.05	306.29	4,797.6	69.9	-14.2	14.6	0.30	-0.13	-5.08
4,900.0	2.42	313.91	4,897.5	72.9	-17.8	18.3	0.73	-0.63	7.62
5,000.0	3.05	324.30	4,997.4	76.5	-20.9	21.4	0.80	0.63	10.39
5,100.0	2.55	320.59	5,097.3	80.4	-23.9	24.3	0.53	-0.50	-3.71
5,200.0	2.04	325.89	5,197.2	83.6	-26.3	26.8	0.55	-0.51	5.30

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Site:	Bradley 36 PM State Com #1H Section 36	MD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Well:	Bradley 36 State Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	2.47	335.46	5,297.1	87.0	-28.2	28.7	0.57	0.43	9.57	
5,400.0	2.39	329.37	5,397.0	90.8	-30.1	30.7	0.27	-0.08	-6.09	
5,500.0	2.11	325.70	5,497.0	94.1	-32.2	32.8	0.31	-0.28	-3.67	
5,600.0	2.19	310.34	5,596.9	96.9	-34.7	35.3	0.58	0.08	-15.36	
5,700.0	2.54	304.23	5,696.8	99.3	-38.0	38.6	0.43	0.35	-6.11	
5,800.0	2.15	304.72	5,796.7	101.7	-41.4	42.0	0.39	-0.39	0.49	
5,900.0	2.82	287.98	5,896.6	103.5	-45.3	45.9	0.98	0.67	-16.74	
6,000.0	3.57	282.58	5,996.5	104.9	-50.6	51.3	0.81	0.75	-5.40	
6,100.0	3.56	283.65	6,096.3	106.3	-56.7	57.3	0.07	-0.01	1.07	
6,200.0	3.63	295.60	6,196.1	108.4	-62.6	63.2	0.75	0.07	11.95	
6,300.0	4.03	282.29	6,295.9	110.5	-68.8	69.5	0.97	0.40	-13.31	
6,400.0	4.14	272.47	6,395.6	111.5	-75.9	76.6	0.71	0.11	-9.82	
6,500.0	4.50	271.82	6,495.3	111.7	-83.4	84.1	0.36	0.36	-0.65	
6,600.0	4.40	284.25	6,595.0	112.8	-91.1	91.7	0.97	-0.10	12.43	
6,700.0	4.16	288.05	6,694.8	114.9	-98.2	98.9	0.37	-0.24	3.80	
6,800.0	3.62	275.74	6,794.5	116.3	-104.8	105.5	0.99	-0.54	-12.31	
6,900.0	2.66	271.76	6,894.4	116.7	-110.3	111.0	0.98	-0.96	-3.98	
7,000.0	2.81	257.59	6,994.3	116.2	-115.0	115.7	0.69	0.15	-14.17	
7,100.0	2.56	262.24	7,094.1	115.4	-119.6	120.3	0.33	-0.25	4.65	
7,200.0	2.46	242.11	7,194.1	114.1	-123.7	124.4	0.88	-0.10	-20.13	
7,300.0	2.62	261.54	7,294.0	112.8	-127.9	128.5	0.87	0.16	19.43	
7,400.0	1.63	259.29	7,393.9	112.2	-131.5	132.2	0.99	-0.99	-2.25	
7,486.0	2.03	256.75	7,479.8	111.6	-134.2	134.9	0.47	0.47	-2.95	
7,535.0	2.50	244.50	7,528.8	110.9	-136.0	136.7	1.37	0.96	-25.00	
7,630.0	3.70	246.10	7,623.7	108.8	-140.7	141.3	1.27	1.26	1.68	
7,662.0	9.30	247.00	7,655.4	107.4	-144.0	144.7	17.50	17.50	2.81	
7,694.0	15.40	248.20	7,686.7	104.8	-150.3	151.0	19.08	19.06	3.75	
7,726.0	18.70	250.00	7,717.3	101.4	-159.1	159.7	10.44	10.31	5.63	
7,757.0	20.90	251.00	7,746.4	97.9	-169.0	169.6	7.18	7.10	3.23	
7,789.0	21.70	245.80	7,776.3	93.7	-179.8	180.4	6.41	2.50	-16.25	
7,821.0	23.10	244.70	7,805.8	88.6	-190.9	191.4	4.57	4.38	-3.44	
7,853.0	24.50	249.50	7,835.1	83.5	-202.8	203.3	7.47	4.38	15.00	
7,884.0	27.50	257.70	7,863.0	79.8	-215.8	216.3	15.08	9.68	26.45	
7,916.0	28.90	262.80	7,891.2	77.2	-230.7	231.1	8.71	4.38	15.94	
7,948.0	28.80	264.70	7,919.2	75.5	-246.0	246.5	2.88	-0.31	5.94	
7,979.0	29.70	264.40	7,946.3	74.1	-261.1	261.6	2.94	2.90	-0.97	
8,011.0	29.50	265.80	7,974.1	72.8	-276.9	277.3	2.25	-0.63	4.38	
8,043.0	33.20	267.00	8,001.4	71.7	-293.5	293.9	11.73	11.56	3.75	
8,075.0	38.10	268.10	8,027.4	70.9	-312.1	312.5	15.44	15.31	3.44	
8,107.0	42.80	270.40	8,051.8	70.7	-332.8	333.3	15.41	14.69	7.19	
8,138.0	48.50	273.00	8,073.4	71.4	-355.0	355.4	19.34	18.39	8.39	
8,170.0	53.20	274.20	8,093.6	72.9	-379.7	380.2	14.97	14.69	3.75	
8,202.0	56.50	273.90	8,112.0	74.8	-405.8	406.3	10.34	10.31	-0.94	

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Site:	Bradley 36 PM State Com #1H Section 36	MD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Well:	Bradley 36 State Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
8,233.0	60.60	272.70	8,128.2	76.3	-432.2	432.7	13.63	13.23	-3.87
8,265.0	65.70	270.40	8,142.7	77.0	-460.8	461.2	17.18	15.94	-7.19
8,297.0	70.30	268.60	8,154.7	76.8	-490.4	490.9	15.29	14.38	-5.63
8,328.0	73.50	267.40	8,164.3	75.8	-519.9	520.3	10.96	10.32	-3.87
8,360.0	76.70	266.00	8,172.5	74.0	-550.7	551.2	10.86	10.00	-4.38
8,392.0	80.60	266.30	8,178.8	71.9	-582.0	582.5	12.22	12.19	0.94
8,424.0	84.20	267.00	8,183.0	70.0	-613.7	614.1	11.46	11.25	2.19
8,456.0	87.10	267.70	8,185.5	68.5	-645.6	646.0	9.32	9.06	2.19
8,466.0	87.80	268.00	8,185.9	68.2	-655.5	656.0	7.61	7.00	3.00
8,540.0	92.50	268.10	8,185.7	65.6	-729.5	729.9	6.35	6.35	0.14
8,603.0	91.70	270.90	8,183.4	65.1	-792.4	792.8	4.62	-1.27	4.44
8,698.0	90.70	270.50	8,181.4	66.3	-887.4	887.8	1.13	-1.05	-0.42
8,793.0	90.80	270.00	8,180.2	66.7	-982.4	982.8	0.54	0.11	-0.53
8,887.0	91.00	268.80	8,178.7	65.7	-1,076.4	1,076.8	1.29	0.21	-1.28
8,983.0	91.60	267.70	8,176.5	62.8	-1,172.3	1,172.7	1.30	0.63	-1.15
9,077.0	92.00	269.00	8,173.6	60.0	-1,266.2	1,266.6	1.45	0.43	1.38
9,172.0	92.20	267.90	8,170.1	57.5	-1,361.1	1,361.4	1.18	0.21	-1.16
9,266.0	90.80	269.50	8,167.6	55.3	-1,455.1	1,455.4	2.26	-1.49	1.70
9,361.0	90.80	268.40	8,166.3	53.6	-1,550.0	1,550.3	1.16	0.00	-1.16
9,456.0	90.80	269.80	8,165.0	52.1	-1,645.0	1,645.3	1.47	0.00	1.47
9,551.0	92.60	270.90	8,162.2	52.7	-1,740.0	1,740.2	2.22	1.89	1.16
9,646.0	92.50	270.40	8,157.9	53.8	-1,834.9	1,835.1	0.54	-0.11	-0.53
9,741.0	92.40	270.20	8,153.9	54.3	-1,929.8	1,930.1	0.24	-0.11	-0.21
9,836.0	90.80	272.30	8,151.2	56.3	-2,024.7	2,025.0	2.78	-1.68	2.21
9,930.0	90.70	270.90	8,150.0	59.0	-2,118.7	2,119.0	1.49	-0.11	-1.49
10,025.0	90.60	270.00	8,148.9	59.7	-2,213.6	2,214.0	0.95	-0.11	-0.95
10,120.0	91.40	268.60	8,147.3	58.6	-2,308.6	2,308.9	1.70	0.84	-1.47
10,215.0	91.80	267.40	8,144.6	55.2	-2,403.5	2,403.8	1.33	0.42	-1.26
10,310.0	91.50	266.00	8,141.9	49.8	-2,498.3	2,498.6	1.51	-0.32	-1.47
10,405.0	92.30	267.70	8,138.7	44.6	-2,593.1	2,593.3	1.98	0.84	1.79
10,499.0	94.30	269.70	8,133.3	42.4	-2,686.9	2,687.1	3.01	2.13	2.13
10,594.0	94.00	269.30	8,126.4	41.6	-2,781.7	2,781.9	0.53	-0.32	-0.42
10,688.0	93.30	269.70	8,120.4	40.8	-2,875.5	2,875.7	0.86	-0.74	0.43
10,783.0	88.30	271.20	8,119.1	41.5	-2,970.4	2,970.6	5.49	-5.26	1.58
10,878.0	89.50	269.80	8,120.9	42.4	-3,065.4	3,065.6	1.94	1.26	-1.47
10,941.0	90.60	269.50	8,120.9	42.0	-3,128.4	3,128.6	1.81	1.75	-0.48
11,004.0	90.90	268.80	8,120.1	41.0	-3,191.4	3,191.6	1.21	0.48	-1.11
11,068.0	91.00	268.60	8,119.0	39.6	-3,255.4	3,255.6	0.35	0.16	-0.31
11,162.0	92.70	266.90	8,116.0	35.9	-3,349.2	3,349.4	2.56	1.81	-1.81
11,257.0	92.20	268.40	8,111.9	32.0	-3,444.1	3,444.2	1.66	-0.53	1.58
11,353.0	90.20	269.50	8,109.9	30.2	-3,540.0	3,540.1	2.38	-2.08	1.15
11,447.0	90.60	267.60	8,109.2	27.9	-3,634.0	3,634.1	2.07	0.43	-2.02
11,542.0	93.70	266.50	8,105.7	23.0	-3,728.8	3,728.9	3.46	3.26	-1.16
11,637.0	93.60	268.40	8,099.6	18.8	-3,823.5	3,823.5	2.00	-0.11	2.00

Stryker Directional Survey Report

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Bradley 36 State Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Site:	Bradley 36 PM State Com #1H Section 36	MD Reference:	GL 3431 +20 @ 3451.0usft (Patterson #80)
Well:	Bradley 36 State Com #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
11,732.0	91.00	268.40	8,095.8	16.1	-3,918.4	3,918.4	2.74	-2.74	0.00
11,827.0	91.80	267.90	8,093.5	13.0	-4,013.3	4,013.3	0.99	0.84	-0.53
11,921.0	92.70	267.90	8,089.8	9.6	-4,107.2	4,107.1	0.96	0.96	0.00
12,017.0	92.80	270.90	8,085.2	8.6	-4,203.0	4,203.0	3.12	0.10	3.13
12,080.0	93.60	271.20	8,081.7	9.8	-4,265.9	4,265.9	1.36	1.27	0.48
12,111.0	91.00	271.10	8,080.4	10.4	-4,296.9	4,296.9	8.39	-8.39	-0.32
12,143.0	91.60	271.40	8,079.7	11.1	-4,328.9	4,328.9	2.10	1.88	0.94
12,207.0	93.30	272.10	8,077.0	13.0	-4,392.8	4,392.8	2.87	2.66	1.09
12,238.0	89.30	272.80	8,076.3	14.4	-4,423.7	4,423.7	13.10	-12.90	2.26
12,302.0	88.90	274.10	8,077.3	18.2	-4,487.6	4,487.6	2.12	-0.63	2.03
12,374.0	91.00	274.60	8,077.3	23.7	-4,559.4	4,559.5	3.00	2.92	0.69
12,435.0	89.00	274.60	8,077.3	28.6	-4,620.2	4,620.3	3.28	-3.28	0.00

Design Annotations:				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
7,486.0	7,479.8	111.6	-134.2	7486' Gyro Survey
12,435.0	8,077.3	28.6	-4,620.2	12435' MD Projected to Bit



COMPANY: Mewbourne Oil Company
 WELL: Bradley 36 State Com #1H
 COUNTY: Eddy County, New Mexico
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson #80

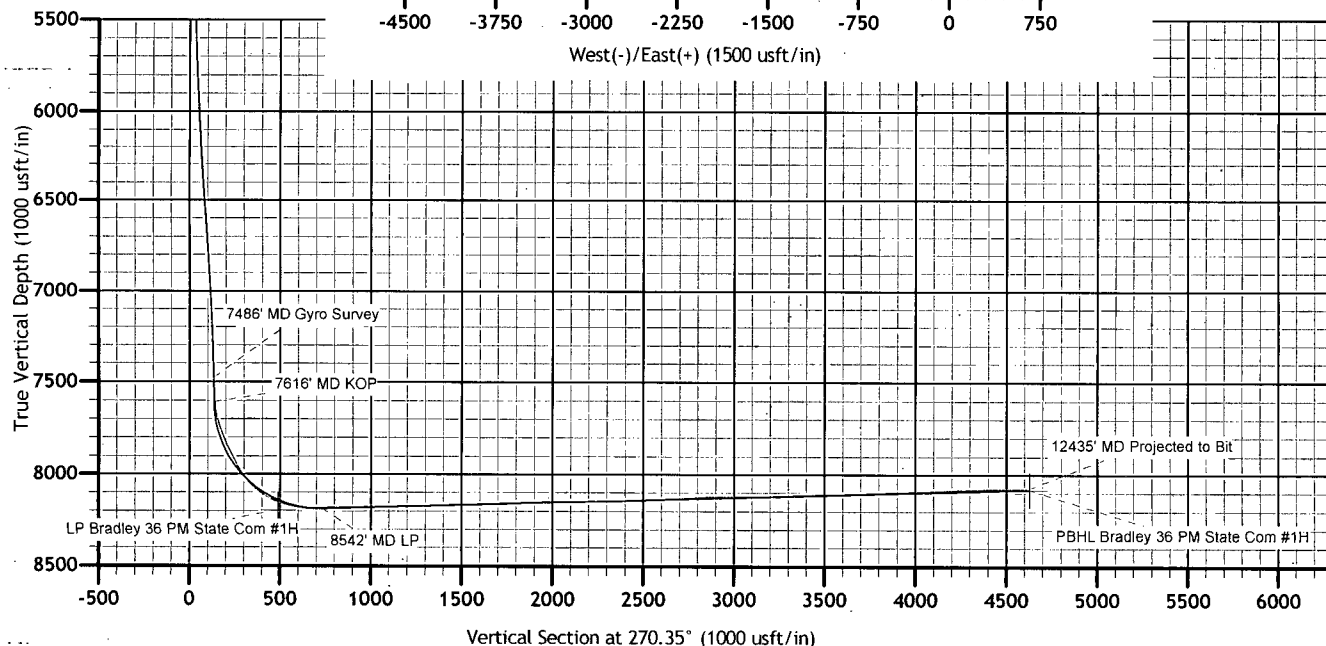
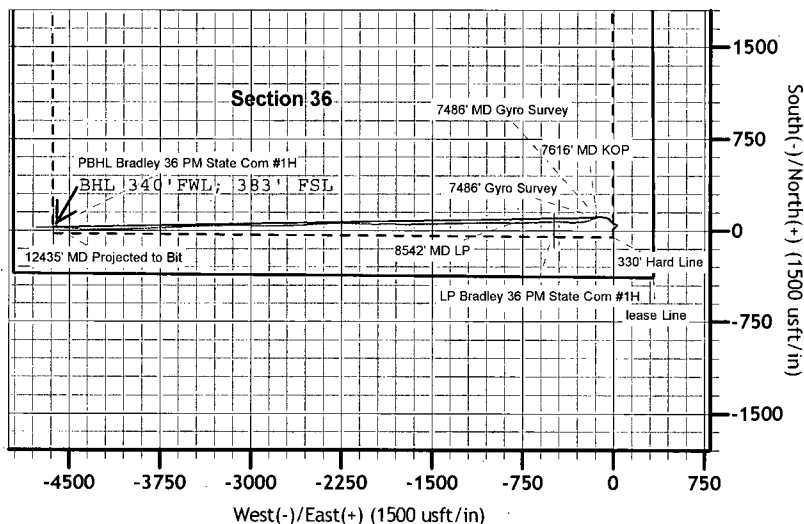
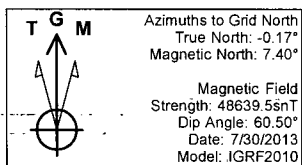


OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.40°

GEODETTIC ZONE: New Mexico East 3001					
GL 3431 +20 @ 3451.0usft (Patterson #80)					
GROUND ELEVATION: 3431.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	617669.94	596319.79	32° 41' 51.656 N	104° 1' 12.812 W
					Slot

PLAN SECTIONS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	7486.0	2.03	256.75	7479.8	111.6	-134.2	0.00	0.00	134.9	
2	7587.5	0.00	256.75	7581.3	111.2	-136.0	2.00	180.00	136.6	
3	7616.0	0.00	256.75	7609.8	111.2	-136.0	0.00	256.75	136.6	
4	8542.0	91.59	268.94	8188.9	100.2	-731.2	9.89	268.94	731.8	
5	12441.2	91.59	268.94	8081.0	28.0	-4628.2	0.00	0.00	4628.3	PBHL Bradley 36 PM State Com #1H



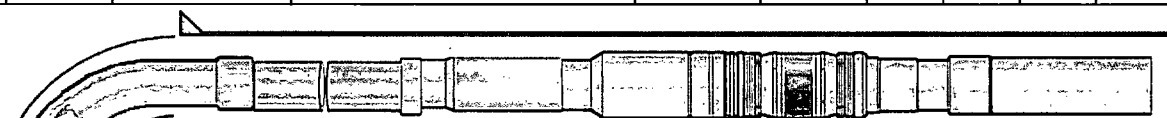
Operating Company Mewbourne
 Well Name & Number Bradley 36 PM State Com #1H
 Sales Ticket Number 5125201
 Date 8/28/2013

Company Rep Butch Ray
 Field
 BOT Service Rep Colby Henderson
 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	LT&C	0.03826	8,530.00	9,960	6,230	
Top Liner	4.500	13.50	P-110	3.920	3.795	LT&C	0.01492	4,138.17	12,410	10,680	
Bott Liner											
TVD		8,077.00		KOP		7,516.00		Open Hole	6.125	Casing Vol. (bbl)	316.6

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.
Liner Top	1	JR Setting Sleeve_RH Profile	8273.83	4.00	5.750	4.000		



	S3 Hyd Set Packer	8277.83	5.50	5.938	3.875		
	4-1/2-13.5 LTC Nipple	8283.33	6.60	5.000	3.920		
	8 Joints of 4-1/2-13.5 LTC Casing	8289.93	302.31	5.000	3.920		
20	3.625 EX Frac Sleeve	8592.24	2.40	5.750		3.525	2286
	3 Joint of 4-1/2-13.5 LTC Casing	8594.64	110.71	5.000	3.920		
	Baker Open Hole Packer	8705.35	3.89	5.820	3.875		2154
	2 Joints of 4-1/2-13.5 LTC Casing	8709.24	75.14	5.000	3.920		
19	3.500 EX Frac Sleeve	8784.38	2.40	5.750		3.400	2286
	3 Joint of 4-1/2-13.5 LTC Casing	8786.78	113.35	5.000	3.920		
	Baker Open Hole Packer	8900.13	3.89	5.820	3.875		2154
	3 Joints of 4-1/2-13.5 LTC Casing	8904.02	114.35	5.000	3.920		
18	3.375 EX Frac Sleeve	9018.37	2.40	5.750		3.275	2286
	3 Joint of 4-1/2-13.5 LTC Casing	9020.77	113.97	5.000	3.920		
	Baker Open Hole Packer	9134.74	3.89	5.820	3.875		2154
	2 Joints of 4-1/2-13.5 LTC Casing	9138.63	74.33	5.000	3.920		
17	3.250 EX Frac Sleeve	9212.96	2.40	5.750		3.150	2286
	3 Joint of 4-1/2-13.5 LTC Casing	9215.36	113.63	5.000	3.920		
	Baker Open Hole Packer	9328.99	3.89	5.820	3.875		2154
	2 Joints of 4-1/2-13.5 LTC Casing	9332.88	75.05	5.000	3.920		
16	3.125 EX Frac Sleeve	9407.93	2.40	5.750		3.025	2286
	3 Joints of 4-1/2-13.5 LTC Casing	9410.33	113.38	5.000	3.920		
	Baker Open Hole Packer	9523.71	3.89	5.820	3.875		2154

Operating Company Mewbourne
 Well Name & Number Bradley 36 PM State Com #1H
 Sales Ticket Number 5125201
 Date 8/28/2013

Company Rep Butch Ray
 Field
 BOT Service Rep Colby Henderson
 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	LT&C	0.03826	8,530.00	9,960	6,230
Top Liner	4.500	13.50	P-110	3.920	3.795	LT&C	0.01492	4,138.17	12,410	10,680
Bott Liner										
TVD	8,077.00		KOP		7,516.00		Open Hole	6.125	Casing Vol. (bbl)	316.6

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.
		2 Joints of 4-1/2-13.5 LTC Casing	9527.60	75.95	5.000	3.920		
	15	3.000 EX Frac sleeve	9603.55	2.40	5.750		2.900	2286
		3 Joint of 4-1/2-13.5 LTC Casing	9605.95	113.99	5.000	3.920		
		Baker Open Hole Packer	9719.94	3.89	5.820	3.875		2154
		2 Joints of 4-1/2-13.5 LTC Casing	9723.83	75.68	5.000	3.920		
	14	2.875 EX Frac Sleeve	9799.51	2.40	5.750		2.775	2286
		3 Joints of 4-1/2-13.5 LTC Casing	9801.91	110.43	5.000	3.920		
		Baker Open Hole Packer	9912.34	3.89	5.820	3.875		2154
		2 Joints of 4-1/2-13.5 LTC Casing	9916.23	74.55	5.000	3.920		
	13	2.750 EX Frac Sleeve	9990.78	2.40	5.750		2.650	2286
		3 Joint of 4-1/2-13.5 LTC Casing	9993.18	111.69	5.000	3.920		
		Baker Open Hole Packer	10104.87	3.89	5.820	3.875		2154
		2 Joints of 4-1/2-13.5 LTC Casing	10108.76	75.50	5.000	3.920		
	12	2.625 EX Frac Sleeve	10184.26	2.40	5.750		2.525	2286
		3 Joints of 4-1/2-13.5 LTC Casing	10186.66	110.48	5.000	3.920		
		Baker Open Hole Packer	10297.14	3.89	5.820	3.875		2154
		3 Joints of 4-1/2-13.5 LTC Casing	10301.03	110.26	5.000	3.920		
	11	2.500 EX Frac Sleeve	10411.29	2.40	5.750		2.400	2286
		3 Joint of 4-1/2-13.5 LTC Casing	10413.69	111.74	5.000	3.920		
		Baker Open Hole Packer	10525.43	3.89	5.820	3.875		2154
		2 Joints of 4-1/2-13.5 LTC Casing	10529.32	73.90	5.000	3.920		
	10	2.375 EX Frac Sleeve	10603.22	2.40	5.750		2.275	2286
		3 Joints of 4-1/2-13.5 LTC Casing	10605.62	113.82	5.000	3.920		
		Baker Open Hole Packer	10719.44	3.89	5.820	3.875		2154
		2 Joint of 4-1/2-13.5 LTC Casing	10723.33	74.33	5.000	3.920		
	9	2.250 EX Frac Sleeve	10797.66	2.40	5.750		2.150	2286
		3 Joints of 4-1/2-13.5 LTC Casing	10800.06	113.25	5.000	3.920		

Operating Company Mewbourne
 Well Name & Number Bradley 36 PM State Com #1H
 Sales Ticket Number 5125201
 Date 8/28/2013

Company Rep Butch Ray
 Field
 BOT Service Rep Colby Henderson
 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	LT&C	0.03826	8,530.00	9,960	6,230	
Top Liner	4.500	13.50	P-110	3.920	3.795	LT&C	0.01492	4,138.17	12,410	10,680	
Bott Liner											
TVD		8,077.00		KOP		7,516.00		Open Hole	6.125	Casing Vol. (bbl)	316.6

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press.
		Baker Open Hole Packer	10913.31	3.89	5.820	3.875		2154
		2 Joint of 4-1/2-13.5 LTC Casing	10917.20	75.35	5.000	3.920		
	8	2.125 EX Frac Sleeve	10992.55	2.40	5.750		2.025	2286
		3 Joints of 4-1/2-13.5 LTC Casing	10994.95	114.01	5.000	3.920		
		Baker Open Hole Packer	11108.96	3.89	5.820	3.875		2154
		2 Joint of 4-1/2-13.5 LTC Casing	11112.85	76.07	5.000	3.920		
	7	2.000 EX Frac Sleeve	11188.92	2.40	5.750		1.900	2286
		3 Joints of 4-1/2-13.5 LTC Casing	11191.32	113.25	5.000	3.920		
		Baker Open Hole Packer	11304.57	3.89	5.820	3.875		2154
		2 Joint of 4-1/2-13.5 LTC Casing	11308.46	75.96	5.000	3.920		
	6	1.875 EX Frac Sleeve	11384.42	2.40	5.750		1.775	2286
		3 Joints of 4-1/2-13.5 LTC Casing	11386.82	114.61	5.000	3.920		
		Baker Open Hole Packer	11501.43	3.89	5.820	3.875		2154
		3 Joints of 4-1/2-13.5 LTC Casing	11505.32	110.57	5.000	3.920		
	5	1.750 EX Frac Sleeve	11615.89	2.40	5.750		1.650	2286
		3 Joint of 4-1/2-13.5 LTC Casing	11618.29	115.62	5.000	3.920		
		Baker Open Hole Packer	11733.91	3.89	5.820	3.875		2154
		2 Joints of 4-1/2-13.5 LTC Casing	11737.80	76.39	5.000	3.920		
	4	1.625 EX Frac Sleeve	11814.19	2.40	5.750		1.525	2286
		3 Joints of 4-1/2-13.5 LTC Casing	11816.59	113.40	5.000	3.920		
		Baker Open Hole Packer	11929.99	3.89	5.820	3.875		2154
		2 Joints of 4-1/2-13.5 LTC Casing	11933.88	74.26	5.000	3.920		
	3	1.500 DB EX Frac Sleeve	12008.14	2.40	5.750		1.400	2286
		3 Joint of 4-1/2-13.5 LTC Casing	12010.54	114.94	5.000	3.920		
		Baker Open Hole Packer	12125.48	3.89	5.820	3.875		2154
		2 Joints of 4-1/2-13.5 LTC Casing	12129.37	74.98	5.000	3.920		
	2	1.375 DB EX Frac Sleeve	12204.35	2.40	5.750		1.275	2286

Company Rep	Butch Ray
Field	
BOT Service Rep	Colby Henderson
District Location	Odessa, Texas, USA



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Top Liner	4.500	13.50	P-110	3.920	3.795	LT&C	0.01492	4,138.17	12,410	10,680
Bott Liner										
TVD	8,077.00		KOP		7,516.00	Open Hole	6.125	Casing Vol. (bbl)	316.6	

[illegible]