

Results of Directional Survey

API number:	30-025-40836		
OGRID:		Operator:	MEWBOURNE OIL CO
		Property:	MERIT 32 DM STATE COM # 1H

surface	ULSTR:	D	32	T 18S	R 35E
				245 FNL	330 FWL

BH Loc	ULSTR:	M	32	T 18S	R 35E
14946	MD	9491.1	TVD	339 FSL	375 FWL
				4941 FNL	

Top Perf/OH	ULSTR:	D	32	T 18S	R 35E
10863	MD	10436.9	TVD	862 FNL	338 FWL

Bot Perf/OH	ULSTR:	M	32	T 18S	R 35E
14920	MD	9490.7	TVD	365 FSL	377 FWL
				4915 FNL	

	MD	N/S	E/W	VD
	10816	-570.30	4.90	10435.6
TOP PERFS/OH	10863	-617.15	8.18	10436.87
	10879	-633.10	9.30	10437.30
	14896	-4646.40	47.70	9490.42
BOT PERFS/OH	14920	-4670.35	46.57	9490.73
	14945	-4695.30	45.40	9491.06

NEXT TO LAST	14896	-4646.40	47.70	9490.42
LAST READING	14945	-4695.30	45.40	9491.06
TD	14946	-4696.30	45.35	9491.07

Surface Location	245	FN	330	FW
Projected BHL	4941	FN	375	FW
Location of				
Top Perfs/OH	862	FN	338	FW
Bottom Perfs/OH	4915	FN	377	FW

SUMMARY of Subsurface Locations

Surface Location	D-32-18S-35E	245	FN	330	FW	Vert. Depth
Top Perfs/OH	D-32-18S-35E	862	FN	338	FW	10436.87
Bottom Perfs/OH	M-32-18S-35E	4915	FN	377	FW	9490.73
Projected TD	M-32-18S-35E	4941	FN	375	FW	9491.07

MAR 07 2013

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
MERIT 32 DM STATE COM 1H
LEA

HOBBS OCD

047-0099

JAN 25 2013

STATE OF NEW MEXICO
DEVIATION REPORT

RECEIVED

263	0.27
611	0.16
1,000	0.49
1,267	0.75
1,457	0.56
1,838	0.79
1,918	1.36
2,172	1.57
2,617	1.53
3,031	2.47
3,158	2.77
3,514	2.56
3,673	2.47
3,831	1.81
4,085	1.64
4,526	1.49
4,939	1.21
5,351	1.06
5,764	0.32
6,146	0.14
6,558	0.43
6,971	0.39
7,269	0.46
7,702	1.31
7,924	0.13
8,363	1.00
8,648	0.40
9,123	1.20
9,479	0.66

SUR: D-32-18s-35e, 245/N & 330/W
BHL: M-32-18s-35e, 4941/N & 375/W
API # 30-025-40836

Received

DEC 10 2012

Mewbourne Oil Company
Hobbs

BY:

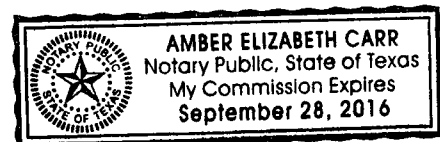
STATE OF TEXAS

COUNTY OF MIDLAND

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

12/5/12, by

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





Company: Mewbourne Oil Company
Lease/Well: Merit 32 DM State Com/No 001

Rig Name: Patterson 47
State/County: New Mexico/Lea
Latitude: 32.71, Longitude: -103.49
GRID North is 0.46 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 19ft

DRILLOG HS GYRO SURVEY CALCULATIONS

Filename: final survey.ut
Minimum Curvature Method
Report Date/Time: 12/13/2012 / 08:10

Vaughn Energy Services
Fort Worth, Texas
817-741-3610

Surveyor: Jay Carroll
Merit 32 DM State Com No 001 / API 30-025-40836

SUR: D-32-18s-35e, 245/N & 330/W
BHL: M-32-18s-35e, 4941/N & 375/W
API # 30-025-40836

HOBBS OCD
JAN 25 2013
RECEIVED

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	0.15	215.31	100.00	-0.11	-0.08	-0.11	0.13	215.31	0.15
200.00	0.30	190.62	200.00	-0.47	-0.20	-0.47	0.51	202.96	0.18
300.00	0.33	178.15	300.00	-1.02	-0.24	-1.02	1.05	193.15	0.08
400.00	0.37	145.67	400.00	-1.58	-0.05	-1.58	1.58	181.73	0.20
500.00	0.25	171.22	499.99	-2.06	0.17	-2.06	2.07	175.36	0.18
600.00	0.13	196.76	599.99	-2.39	0.17	-2.39	2.39	175.98	0.14
700.00	0.30	172.23	699.99	-2.75	0.17	-2.75	2.76	176.47	0.19
800.00	0.47	147.69	799.99	-3.35	0.42	-3.35	3.38	172.82	0.23
900.00	0.42	128.29	899.99	-3.93	0.93	-3.93	4.04	166.68	0.16
1000.00	0.38	108.89	999.99	-4.26	1.53	-4.26	4.53	160.22	0.14
1100.00	0.61	119.80	1099.98	-4.63	2.31	-4.63	5.18	153.52	0.25
1200.00	0.84	130.71	1199.97	-5.37	3.32	-5.37	6.32	148.28	0.27
1300.00	1.01	124.28	1299.96	-6.35	4.60	-6.35	7.84	144.05	0.20
1400.00	1.18	117.85	1399.94	-7.32	6.24	-7.32	9.62	139.57	0.21
1500.00	1.21	118.46	1499.92	-8.31	8.08	-8.31	11.58	135.80	0.04
1600.00	1.25	119.07	1599.90	-9.34	9.96	-9.34	13.65	133.16	0.04
1700.00	1.34	132.18	1699.87	-10.65	11.78	-10.65	15.88	132.13	0.31
1800.00	1.42	145.28	1799.84	-12.46	13.35	-12.46	18.26	133.02	0.33

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	1.52	141.99	1899.81	-14.52	14.87	-14.52	20.79	134.32	0.13
2000.00	1.61	138.71	1999.77	-16.62	16.62	-16.62	23.50	135.01	0.13
2100.00	1.70	138.12	2099.73	-18.78	18.53	-18.78	26.39	135.38	0.09
2200.00	1.79	137.54	2199.69	-21.04	20.58	-21.04	29.43	135.63	0.09
2300.00	1.84	135.44	2299.64	-23.33	22.76	-23.33	32.59	135.72	0.08
2400.00	1.89	133.34	2399.58	-25.61	25.08	-25.61	35.84	135.59	0.08
2500.00	1.91	136.10	2499.53	-27.94	27.44	-27.94	39.16	135.52	0.09
2600.00	1.93	138.87	2599.47	-30.41	29.70	-30.41	42.51	135.68	0.10
2700.00	2.04	125.56	2699.41	-32.72	32.26	-32.72	45.94	135.40	0.47
2800.00	2.14	112.24	2799.35	-34.46	35.43	-34.46	49.42	134.20	0.49
2900.00	2.40	104.56	2899.27	-35.69	39.18	-35.69	53.00	132.33	0.40
3000.00	2.66	96.87	2999.17	-36.49	43.51	-36.49	56.79	129.98	0.43
3100.00	2.87	88.78	3099.05	-36.72	48.32	-36.72	60.69	127.23	0.45
3200.00	2.99	86.93	3198.92	-36.52	53.44	-36.52	64.73	124.35	0.15
3300.00	3.19	89.41	3298.78	-36.35	58.83	-36.35	69.15	121.71	0.24
3400.00	2.93	87.94	3398.63	-36.23	64.17	-36.23	73.69	119.45	0.27
3500.00	2.63	86.37	3498.52	-36.00	69.02	-36.00	77.84	117.54	0.31
3600.00	2.40	90.33	3598.42	-35.86	73.40	-35.86	81.70	116.04	0.29
3700.00	2.19	90.94	3698.34	-35.91	77.41	-35.91	85.33	114.88	0.21
3800.00	1.93	92.33	3798.28	-36.00	81.00	-36.00	88.64	113.96	0.27
3900.00	1.82	93.35	3898.22	-36.17	84.27	-36.17	91.70	113.23	0.11
4000.00	1.86	95.27	3998.17	-36.41	87.47	-36.41	94.75	112.60	0.07
4100.00	1.34	91.21	4098.13	-36.58	90.26	-36.58	97.39	112.06	0.53
4200.00	1.63	80.71	4198.10	-36.38	92.83	-36.38	99.70	111.40	0.40
4300.00	1.67	80.09	4298.06	-35.90	95.67	-35.90	102.18	110.57	0.05
4400.00	1.74	84.07	4398.01	-35.49	98.61	-35.49	104.81	109.79	0.14
4500.00	1.69	87.02	4497.97	-35.25	101.60	-35.25	107.54	109.14	0.10
4600.00	1.57	87.99	4597.93	-35.13	104.43	-35.13	110.18	108.59	0.13
4700.00	1.59	91.32	4697.89	-35.11	107.19	-35.11	112.79	108.14	0.10
4800.00	1.56	89.54	4797.85	-35.14	109.94	-35.14	115.42	107.72	0.06
4900.00	1.41	91.49	4897.82	-35.16	112.53	-35.16	117.89	107.35	0.15
5000.00	1.28	91.38	4997.79	-35.22	114.88	-35.22	120.15	107.04	0.13
5100.00	1.29	107.85	5097.76	-35.59	117.07	-35.59	122.36	106.91	0.37
5200.00	1.11	109.11	5197.74	-36.25	119.06	-36.25	124.46	106.93	0.18
5300.00	1.09	112.60	5297.72	-36.94	120.85	-36.94	126.37	106.99	0.07
5400.00	1.22	110.20	5397.70	-37.67	122.73	-37.67	128.38	107.06	0.14
5500.00	1.02	111.71	5497.68	-38.37	124.56	-38.37	130.33	107.12	0.21
5600.00	1.02	111.60	5597.67	-39.02	126.21	-39.02	132.10	107.18	0.01
5700.00	0.85	114.49	5697.66	-39.66	127.71	-39.66	133.73	107.25	0.18

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	0.82	94.08	5797.64	-40.01	129.10	-40.01	135.16	107.22	0.30
5900.00	0.41	61.82	5897.64	-39.89	130.13	-39.89	136.11	107.04	0.52
6000.00	0.23	39.58	5997.64	-39.57	130.58	-39.57	136.44	106.86	0.22
6100.00	0.11	65.69	6097.64	-39.37	130.79	-39.37	136.59	106.75	0.14
6200.00	0.34	27.94	6197.64	-39.07	131.02	-39.07	136.72	106.61	0.26
6300.00	0.15	309.29	6297.64	-38.73	131.06	-38.73	136.66	106.46	0.34
6400.00	0.42	331.50	6397.63	-38.32	130.78	-38.32	136.28	106.33	0.29
6500.00	0.64	310.76	6497.63	-37.64	130.19	-37.64	135.52	106.13	0.29
6600.00	0.36	309.82	6597.63	-37.08	129.53	-37.08	134.73	105.97	0.28
6700.00	0.60	292.24	6697.62	-36.68	128.80	-36.68	133.92	105.90	0.29
6800.00	0.46	302.09	6797.62	-36.27	127.97	-36.27	133.01	105.82	0.17
6900.00	0.51	293.61	6897.61	-35.87	127.22	-35.87	132.18	105.75	0.09
7000.00	0.53	304.13	6997.61	-35.43	126.43	-35.43	131.30	105.66	0.10
7100.00	1.11	316.07	7097.60	-34.48	125.37	-34.48	130.03	105.38	0.61
7200.00	0.88	307.55	7197.58	-33.31	124.09	-33.31	128.48	105.03	0.27
7300.00	1.01	302.00	7297.57	-32.38	122.74	-32.38	126.93	104.78	0.16
7400.00	1.39	302.48	7397.55	-31.25	120.96	-31.25	124.93	104.49	0.38
7500.00	1.47	298.55	7497.52	-29.99	118.81	-29.99	122.54	104.17	0.12
7600.00	1.40	303.46	7597.49	-28.71	116.67	-28.71	120.15	103.82	0.14
7700.00	0.50	314.70	7697.47	-27.73	115.35	-27.73	118.63	103.52	0.91
7800.00	0.50	330.65	7797.47	-27.04	114.82	-27.04	117.97	103.25	0.14
7900.00	0.73	7.55	7897.46	-26.03	114.69	-26.03	117.61	102.79	0.45
8000.00	0.74	32.80	7997.46	-24.85	115.12	-24.85	117.78	102.18	0.32
8100.00	1.26	23.99	8097.44	-23.31	115.92	-23.31	118.24	101.37	0.54
8200.00	1.23	36.27	8197.42	-21.44	117.00	-21.44	118.95	100.38	0.27
8300.00	0.80	62.12	8297.40	-20.25	118.25	-20.25	119.97	99.72	0.62
8400.00	0.79	40.62	8397.39	-19.40	119.31	-19.40	120.88	99.24	0.30
8500.00	0.78	12.79	8497.38	-18.22	119.91	-18.22	121.29	98.64	0.38
8600.00	1.19	321.39	8597.37	-16.74	119.42	-16.74	120.59	97.98	0.93
8700.00	1.70	324.62	8697.34	-14.73	117.91	-14.73	118.83	97.12	0.52
8800.00	1.69	315.82	8797.29	-12.46	116.03	-12.46	116.70	96.13	0.26
8900.00	1.78	320.91	8897.25	-10.20	114.02	-10.20	114.48	95.11	0.18
9000.00	1.78	325.63	8997.20	-7.71	112.17	-7.71	112.43	93.93	0.15
9100.00	1.18	345.50	9097.17	-5.43	111.03	-5.43	111.16	92.80	0.78
9200.00	1.22	356.74	9197.14	-3.37	110.71	-3.37	110.76	91.74	0.24
9300.00	1.07	338.54	9297.13	-1.44	110.31	-1.44	110.32	90.75	0.39
9400.00	0.79	318.01	9397.11	-0.06	109.51	-0.06	109.51	90.03	0.43
9500.00	0.37	294.63	9497.11	0.58	108.76	0.58	108.76	89.69	0.47
9600.00	0.38	291.44	9597.10	0.84	108.16	0.84	108.16	89.56	0.02

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
9700.00	0.28	247.00	9697.10	0.86	107.63	0.86	107.63	89.54	0.26
9800.00	0.14	334.12	9797.10	0.88	107.35	0.88	107.36	89.53	0.30
9858.00	0.08	169.62	9855.10	0.90	107.33	0.90	107.33	89.52	0.37



SUR: D-32-18s-35e, 245/N & 330/W
BHL: M-32-18s-35e, 4941/N & 375/W
API # 30-025-40836

Mewbourne Oil Company

LEA COUNTY, NM

SECTION 32

MERIT 32 DM STATE COM #1H

Wellbore #1

Survey: As-Drilled

Standard Survey Report

17 December, 2012





Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well MERIT 32 DM STATE COM #1H
Project:	LEA COUNTY, NM	TVD Reference:	WELL @ 3952.0usft (Original Well Elev)
Site:	SECTION 32	MD Reference:	WELL @ 3952.0usft (Original Well Elev)
Well:	MERIT 32 DM STATE COM #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	GYRO SURVEY & As-Drilled	Database:	EDM 5000.1 Single User Db

Project	LEA COUNTY, NM, NM-EAST		
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	SECTION 32		
Site Position:	Map	Northing:	623,286.77 usft
From:		Easting:	760,431.34 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 42' 38.354 N
		Longitude:	103° 29' 11.887 W
		Grid Convergence:	0.46 °

Well	MERIT 32 DM STATE COM #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 42' 38.354 N
		Longitude:	103° 29' 11.887 W
		Ground Level:	3,932.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	11/2/2012	7.41
			Dip Angle
			(°)
			60.62
			Field Strength
			(nT)
			48,776

Design	GYRO SURVEY & As-Drilled		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			89.51

Survey Program	Date 12/17/2012		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
100.0	9,858.0	GYRO SURVEY (Wellbore #1)	
9,968.0	14,945.0	As-Drilled (Wellbore #1)	

Survey	Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
	Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
	(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	9,858.0	0.08	169.62	9,855.1	0.9	107.3	107.3	0.00	0.00	0.00
	9,968.0	0.40	182.60	9,965.1	0.5	107.3	107.3	0.29	0.29	11.80
	10,000.0	4.20	198.20	9,997.1	-0.8	106.9	106.9	11.93	11.88	48.75
	10,032.0	9.20	207.20	10,028.8	-4.2	105.4	105.3	15.92	15.63	28.13
	10,064.0	13.90	209.60	10,060.2	-9.8	102.3	102.2	14.76	14.69	7.50
	10,095.0	17.90	210.70	10,090.0	-17.1	98.0	97.9	12.94	12.90	3.55
	10,127.0	21.60	209.30	10,120.1	-26.5	92.6	92.4	11.66	11.56	-4.38
	10,159.0	25.70	206.30	10,149.4	-37.8	86.7	86.4	13.35	12.81	-9.38
	10,190.0	29.10	203.80	10,176.9	-50.8	80.7	80.2	11.58	10.97	-8.06
	10,222.0	31.90	201.40	10,204.5	-65.8	74.4	73.9	9.54	8.75	-7.50



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well MERIT 32 DM STATE COM #1H
Project:	LEA COUNTY, NM	TVD Reference:	WELL @ 3952.0usft (Original Well Elev)
Site:	SECTION 32	MD Reference:	WELL @ 3952.0usft (Original Well Elev)
Well:	MERIT 32 DM STATE COM #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	GYRO SURVEY & As-Drilled	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)
10,254.0	36.00	200.50	10,231.0	-82.5	68.1	67.4	12.91	12.81	-2.81
10,285.0	39.70	199.80	10,255.5	-100.3	61.5	60.7	12.02	11.94	-2.26
10,317.0	44.00	196.60	10,279.4	-120.6	54.9	53.8	15.00	13.44	-10.00
10,349.0	48.00	195.60	10,301.6	-142.7	48.5	47.3	12.70	12.50	-3.13
10,381.0	50.50	193.30	10,322.5	-166.2	42.5	41.0	9.52	7.81	-7.19
10,413.0	53.80	192.90	10,342.1	-190.8	36.7	35.1	10.36	10.31	-1.25
10,444.0	56.00	192.80	10,359.9	-215.5	31.1	29.2	7.10	7.10	-0.32
10,476.0	59.80	191.70	10,376.9	-242.0	25.3	23.3	12.23	11.88	-3.44
10,508.0	64.10	191.00	10,392.0	-269.7	19.8	17.5	13.58	13.44	-2.19
10,540.0	69.00	189.90	10,404.7	-298.5	14.5	11.9	15.63	15.31	-3.44
10,571.0	74.10	189.10	10,414.5	-327.5	9.6	6.8	16.63	16.45	-2.58
10,602.0	79.80	188.20	10,421.5	-357.4	5.1	2.0	18.60	18.39	-2.90
10,634.0	84.20	185.50	10,426.0	-388.8	1.3	-2.0	16.09	13.75	-8.44
10,642.0	84.90	184.50	10,426.7	-396.8	0.6	-2.8	15.21	8.75	-12.50
10,690.0	88.58	180.50	10,429.4	-444.6	-1.5	-5.3	11.31	7.67	-8.33
10,721.0	87.50	177.30	10,430.5	-475.6	-0.9	-4.9	10.89	-3.48	-10.32
10,753.0	86.40	176.60	10,432.2	-507.5	0.8	-3.5	4.07	-3.44	-2.19
10,816.0	87.50	175.90	10,435.6	-570.3	4.9	0.1	2.07	1.75	-1.11
10,879.0	89.30	176.10	10,437.3	-633.1	9.3	3.9	2.87	2.86	0.32
10,918.0	87.50	175.70	10,438.4	-672.0	12.1	6.4	4.73	-4.62	-1.03
10,981.0	88.40	176.20	10,440.7	-734.8	16.6	10.3	1.63	1.43	0.79
11,044.0	88.00	176.60	10,442.6	-797.6	20.5	13.7	0.90	-0.63	0.63
11,107.0	89.40	175.90	10,444.1	-860.5	24.6	17.3	2.48	2.22	-1.11
11,171.0	91.10	174.60	10,443.8	-924.2	29.9	22.0	3.34	2.66	-2.03
11,234.0	90.70	176.40	10,442.8	-987.0	34.9	26.4	2.93	-0.63	2.86
11,297.0	90.40	177.50	10,442.2	-1,050.0	38.2	29.3	1.81	-0.48	1.75
11,360.0	89.20	179.00	10,442.4	-1,112.9	40.2	30.6	3.05	-1.90	2.38
11,423.0	86.70	179.00	10,444.7	-1,175.9	41.3	31.2	3.97	-3.97	0.00
11,472.0	88.00	179.80	10,446.9	-1,224.8	41.8	31.3	3.11	2.65	1.63
11,486.0	87.90	178.70	10,447.4	-1,238.8	42.0	31.4	7.88	-0.71	-7.86
11,549.0	89.00	179.70	10,449.1	-1,301.8	42.8	31.7	2.36	1.75	1.59
11,613.0	88.50	179.40	10,450.5	-1,365.7	43.3	31.7	0.91	-0.78	-0.47
11,676.0	88.30	179.70	10,452.3	-1,428.7	43.8	31.6	0.57	-0.32	0.48
11,739.0	88.60	179.70	10,454.0	-1,491.7	44.2	31.4	0.48	0.48	0.00
11,802.0	88.00	180.30	10,455.9	-1,554.7	44.2	30.9	1.35	-0.95	0.95
11,866.0	89.50	180.40	10,457.3	-1,618.7	43.8	29.9	2.35	2.34	0.16
11,929.0	90.30	180.60	10,457.4	-1,681.6	43.2	28.8	1.31	1.27	0.32
11,992.0	89.90	179.90	10,457.3	-1,744.6	42.9	28.0	1.28	-0.63	-1.11
12,055.0	90.00	179.90	10,457.3	-1,807.6	43.1	27.6	0.16	0.16	0.00
12,118.0	89.50	181.30	10,457.6	-1,870.6	42.4	26.4	2.36	-0.79	2.22
12,182.0	86.50	181.70	10,459.8	-1,934.6	40.7	24.2	4.73	-4.69	0.63
12,245.0	87.50	181.30	10,463.1	-1,997.5	39.1	22.0	1.71	1.59	-0.63
12,308.0	89.10	180.80	10,465.0	-2,060.4	37.9	20.3	2.66	2.54	-0.79



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well MERIT 32 DM STATE COM #1H
Project:	LEA COUNTY, NM	TVD Reference:	WELL @ 3952.0usft (Original Well Elev)
Site:	SECTION 32	MD Reference:	WELL @ 3952.0usft (Original Well Elev)
Well:	MERIT 32 DM STATE COM #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	GYRO SURVEY & As-Drilled	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,371.0	88.50	180.60	10,466.3	-2,123.4	37.2	19.0	1.00	-0.95	-0.32
12,420.0	88.00	180.60	10,467.8	-2,172.4	36.6	18.1	1.02	-1.02	0.00
12,434.0	87.50	180.10	10,468.4	-2,186.4	36.6	17.9	5.05	-3.57	-3.57
12,497.0	88.70	180.30	10,470.4	-2,249.3	36.3	17.1	1.93	1.90	0.32
12,560.0	90.50	180.40	10,470.9	-2,312.3	35.9	16.2	2.86	2.86	0.16
12,623.0	90.80	180.40	10,470.2	-2,375.3	35.5	15.2	0.48	0.48	0.00
12,686.0	89.50	180.80	10,470.0	-2,438.3	34.8	14.0	2.16	-2.06	0.63
12,749.0	87.90	181.00	10,471.4	-2,501.3	33.9	12.5	2.56	-2.54	0.32
12,813.0	86.90	180.80	10,474.3	-2,565.2	32.9	10.9	1.59	-1.56	-0.31
12,876.0	86.80	180.40	10,477.8	-2,628.1	32.2	9.7	0.65	-0.16	-0.63
12,939.0	87.00	180.30	10,481.2	-2,691.0	31.8	8.8	0.35	0.32	-0.16
13,002.0	87.00	180.10	10,484.5	-2,753.9	31.6	8.0	0.32	0.00	-0.32
13,065.0	88.00	179.40	10,487.3	-2,816.9	31.9	7.8	1.94	1.59	-1.11
13,128.0	88.90	178.30	10,489.0	-2,879.8	33.1	8.5	2.26	1.43	-1.75
13,191.0	89.10	178.20	10,490.1	-2,942.8	35.1	9.9	0.35	0.32	-0.16
13,254.0	89.20	178.20	10,491.0	-3,005.8	37.0	11.3	0.16	0.16	0.00
13,318.0	89.30	178.00	10,491.8	-3,069.7	39.2	12.9	0.35	0.16	-0.31
13,381.0	89.30	177.60	10,492.6	-3,132.7	41.6	14.8	0.63	0.00	-0.63
13,444.0	89.40	177.50	10,493.3	-3,195.6	44.3	16.9	0.22	0.16	-0.16
13,507.0	88.60	178.00	10,494.4	-3,258.5	46.7	18.9	1.50	-1.27	0.79
13,570.0	89.00	178.20	10,495.7	-3,321.5	48.8	20.4	0.71	0.63	0.32
13,634.0	88.50	178.30	10,497.1	-3,385.5	50.8	21.8	0.80	-0.78	0.16
13,697.0	88.50	178.00	10,498.8	-3,448.4	52.8	23.3	0.48	0.00	-0.48
13,760.0	89.00	177.60	10,500.2	-3,511.3	55.2	25.2	1.02	0.79	-0.63
13,823.0	89.50	178.00	10,501.0	-3,574.3	57.7	27.1	1.02	0.79	0.63
13,886.0	88.40	178.30	10,502.1	-3,637.2	59.7	28.6	1.81	-1.75	0.48
13,949.0	88.00	178.70	10,504.1	-3,700.2	61.3	29.7	0.90	-0.63	0.63
14,012.0	88.00	178.50	10,506.3	-3,763.1	62.9	30.7	0.32	0.00	-0.32
14,076.0	89.10	178.70	10,507.9	-3,827.1	64.4	31.7	1.75	1.72	0.31
14,139.0	89.30	179.60	10,508.8	-3,890.1	65.4	32.1	1.46	0.32	1.43
14,202.0	89.00	180.30	10,509.7	-3,953.1	65.4	31.6	1.21	-0.48	1.11
14,265.0	90.00	180.40	10,510.3	-4,016.1	65.0	30.7	1.60	1.59	0.16
14,328.0	88.30	181.50	10,511.2	-4,079.0	64.0	29.1	3.21	-2.70	1.75
14,391.0	87.40	181.30	10,513.6	-4,142.0	62.5	27.0	1.46	-1.43	-0.32
14,454.0	89.40	181.50	10,515.4	-4,204.9	60.9	25.0	3.19	3.17	0.32
14,517.0	90.20	181.10	10,515.6	-4,267.9	59.5	23.0	1.42	1.27	-0.63
14,580.0	90.40	181.00	10,515.2	-4,330.9	58.3	21.3	0.35	0.32	-0.16
14,643.0	89.20	181.30	10,515.5	-4,393.9	57.1	19.5	1.96	-1.90	0.48
14,706.0	87.80	181.30	10,517.1	-4,456.9	55.6	17.5	2.22	-2.22	0.00
14,770.0	86.70	183.10	10,520.2	-4,520.7	53.2	14.5	3.29	-1.72	2.81
14,833.0	86.80	182.10	10,523.8	-4,583.6	50.3	11.1	1.59	0.16	-1.59
14,896.0	86.70	182.70	10,527.3	-4,646.4	47.7	8.0	0.96	-0.16	0.95
14,945.0	86.70	182.70	10,530.1	-4,695.3	45.4	5.2	0.00	0.00	0.00



Stryker Directional Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well MERIT 32 DM STATE COM #1H
Project:	LEA COUNTY, NM	TVD Reference:	WELL @ 3952.0usft (Original Well Elev)
Site:	SECTION 32	MD Reference:	WELL @ 3952.0usft (Original Well Elev)
Well:	MERIT 32 DM STATE COM #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	GYRO SURVEY & As-Drilled	Database:	EDM 5000.1 Single User Db

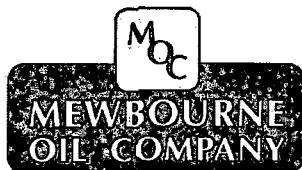
Survey

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)
EOS @ 14945 MD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,945.0	10,530.1	-4,695.3	45.4	EOS @ 14945 MD

Checked By: _____ Approved By: _____ Date: _____



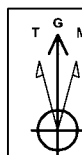
Mewbourne Oil Company

MERIT 32 DM STATE COM #1H

County: LEA COUNTY, NM
 Formation: THIRD BS SAND
 Datum: NAD 1927 (NADCON CONUS)
 Zone: New Mexico East 3001
 DATE: 8:37, December 17 2012
 System Datum: Mean Sea Level
 GRID CORRECTION: 6.95° E

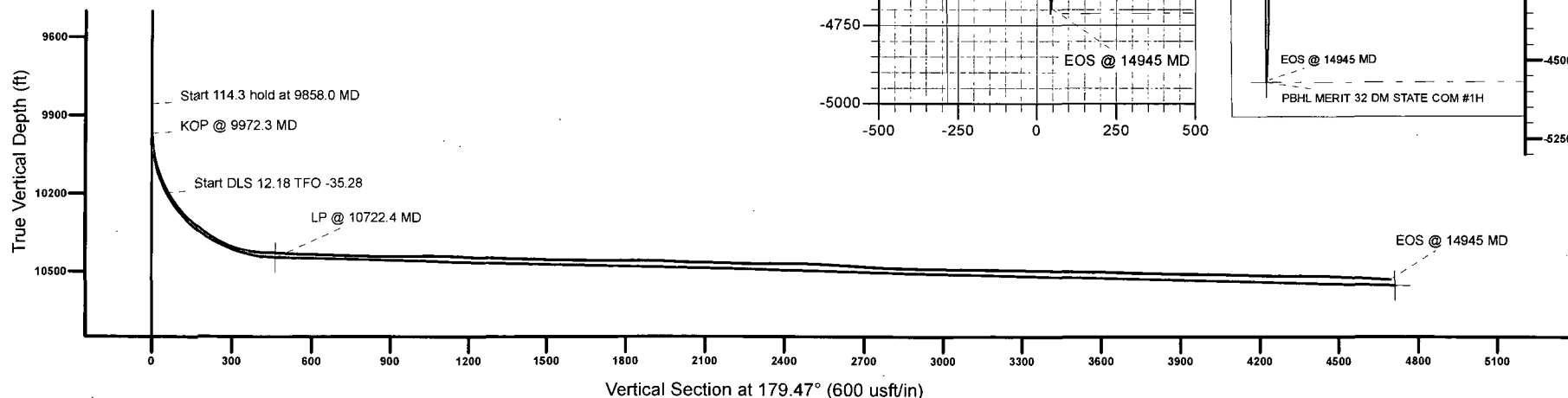
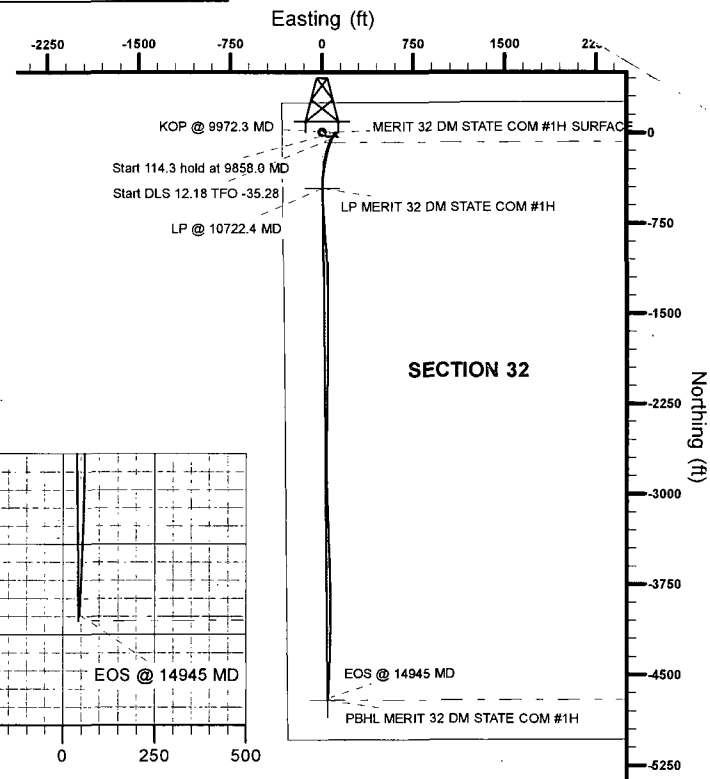
SUR: D-32-18s-35e, 245/N & 330/W
 BHL: M-32-18s-35e, 4941/N & 375/W
 API # 30-025-40836

WELL NAME: MERIT 32 DM STATE COM #1H					
	0.46° West	GROUND ELEVATION: 3932.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	623286.76	760431.34	32° 42' 38.354 N	103° 29' 11.887 W
No formation data is available					



Azimuths to Grid North
 True North: -0.46°
 Magnetic North: 6.95°
 Magnetic Field
 Strength: 48776.3snT
 Dip Angle: 60.62°
 Date: 11/2/2012
 Model: IGRF2010

CRITICAL POINTS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
10530.1	14945.0	86.70	182.70	-4695.3	45.4	5.2	4715.5	EOS @ 14945 MD	



Operating Company Mewbourne
 Well Name & Number Merit 32 DM State Com 1H
 Sales Ticket Number _____
 Date 12/14/2012

Company Rep Brint Hlavaty
 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	8,089.00	KOP	7,687.00	Open Hole	6.125	Casing Vol. (bbl)	400.5
Carry Fluid Weight (ppg)	8.7	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)
Liner Top 1	10292414	JR Setting Sleeve_RH Profile	10466.78							

	H40900008	JR Sleeve_S3 Hyd Set Packer	10466.78	8.61	5.813	3.875				
	H299710014	4-1/2-13.5 LTC Nipple	10475.39	8.08	4.500	3.920				
		10 Joints of 4-1/2-13.5 LTC Casing	10483.47	379.95	4.500	3.920				
30	H809870074	3.625 EX Frac Sleeve	10863.42	3.90	5.750		3.525	2286	305	406
437.3		1 Joint of 4-1/2-13.5 LTC Casing	10867.32	36.86	4.500	3.920				
	H409360008	Baker Open Hole Packer	10904.18	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10908.07	76.78	4.500	3.920				
29	H809490001	3.500 EX-C Frac Sleeve	10984.85	3.53	5.750		3.448	2375	297	408
124.8		1 Joint of 4-1/2-13.5 LTC Casing	10988.38	36.74	4.500	3.920				
	H409360008	Baker Open Hole Packer	11025.12	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11029.01	77.25	4.500	3.920				
28	H809490002	3.438 EX-C Frac Sleeve	11106.26	3.53	5.750		3.385	2375	286	410
163.8		2 Joint of 4-1/2-13.5 LTC Casing	11109.79	75.20	4.500	3.920				
	H409360008	Baker Open Hole Packer	11184.99	3.89	5.820	3.875		2154		
		1 Joints of 4-1/2-13.5 LTC Casing	11188.88	38.60	4.500	3.920				
27	H809490003	3.375 EX_C Frac Sleeve	11227.48	3.53	5.750		3.323	2375	276	412
126.6		2 Joint of 4-1/2-13.5 LTC Casing	11231.01	76.72	4.500	3.920				
	H409360008	Baker Open Hole Packer	11307.73	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11311.62	76.27	4.500	3.920				
26	H809490004	3.313 EX-C Frac Sleeve	11387.89	3.53	5.750		3.260	2375	266	414
126.2		1 Joints of 4-1/2-13.5 LTC Casing	11391.42	38.66	4.500	3.920				
	H409360008	Baker Open Hole Packer	11430.08	3.89	5.820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number Merit 32 DM State Com 1H
 Sales Ticket Number _____
 Date 12/14/2012

Company Rep Brint Hlavaty
 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		8,089.00	KOP		7,687.00	Open Hole		6.125	Casing Vol. (bbl)	400.5
Carry Fluid Weight (ppg)		8.7	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)
25 125.3		2 Joints of 4-1/2-13.5 LTC Casing	11433.97	75.27	4.500	3.920				
	H809490005	3.250 EX-C Frac Sleeve	11509.24	3.53	5.750		3.198	2375	256	416
		1 Joint of 4-1/2-13.5 LTC Casing	11512.77	38.69	4.500	3.920				
24 126.5	H409360008	Baker Open Hole Packer	11551.46	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11555.35	76.75	4.500	3.920				
	H809490006	3.188 EX-C Frac Sleeve	11632.10	3.53	5.750		3.135	2375	246	418
23 164.2		1 Joints of 4-1/2-13.5 LTC Casing	11635.63	38.39	4.500	3.920				
	H409360008	Baker Open Hole Packer	11674.02	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11677.91	76.96	4.500	3.920				
22 164.8	H809490007	3.125 EX-C Frac Sleeve	11754.87	3.53	5.750		3.073	2375	236	420
		2 Joint of 4-1/2-13.5 LTC Casing	11758.40	75.89	4.500	3.920				
	H409360008	Baker Open Hole Packer	11834.29	3.89	5.820	3.875		2154		
21 126.4		2 Joints of 4-1/2-13.5 LTC Casing	11838.18	76.48	4.500	3.920				
	H809490008	3.063 EX-C Frac Sleeve	11914.66	3.53	5.750		3.010	2375	226	422
		2 Joints of 4-1/2-13.5 LTC Casing	11918.19	77.00	4.500	3.920				
20 161.5	H409360008	Baker Open Hole Packer	11995.19	3.89	5.820	3.875		2154		
		1 Joints of 4-1/2-13.5 LTC Casing	11999.08	38.40	4.500	3.920				
	H809490009	3.000 EX-C Frac sleeve	12037.48	3.53	5.750		2.948	2375	217	424
19		2 Joint of 4-1/2-13.5 LTC Casing	12041.01	76.64	4.500	3.920				
	H409360008	Baker Open Hole Packer	12117.65	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12121.54	75.60	4.500	3.920				
	H809490010	2.938 EX-C Frac Sleeve	12197.14	3.53	5.750		2.885	2375	208	426
		2 Joints of 4-1/2-13.5 LTC Casing	12200.67	74.62	4.500	3.920				
		Baker Open Hole Packer	12275.29	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	12279.18	75.03	4.500	3.920				
	H809490011	2.875 EX-C Frac Sleeve	12354.21	3.53	5.750		2.823	2375	199	429

Operating Company Mewbourne
 Well Name & Number Merit 32 DM State Com 1H
 Sales Ticket Number _____
 Date 12/14/2012

Company Rep Brint Hlavaty
 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	8,089.00	KOP	7,687.00	Open Hole	6.125	Casing Vol. (bbl)	400.5
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Carry Fluid Weight (ppg)	8.7	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)
161.6		2 Joints of 4-1/2-13.5 LTC Casing	12357.74	75.24	4.500	3.920				
	H409360008	Baker Open Hole Packer	12432.98	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	12436.87	75.19	4.500	3.920				
18	H809490012	2.813 EX_C Frac Sleeve	12512.06	3.53	5.750		2.760	2375	190	431
161.6		2 Joints of 4-1/2-13.5 LTC Casing	12515.59	75.12	4.500	3.920				
	H409360008	Baker Open Hole Packer	12590.71	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	12594.60	77.16	4.500	3.920				
17	H809490013	2.750 EX_C Frac Sleeve	12671.76	3.53	5.750		2.698	2375	182	433
127		1 Joints of 4-1/2-13.5 LTC Casing	12675.29	38.57	4.500	3.920				
	H409360008	Baker Open Hole Packer	12713.86	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	12717.75	74.75	4.500	3.920				
16	H809490014	2.688 EX_C Frac Sleeve	12792.50	3.53	5.750		2.635	2375	174	435
161		2 Joints of 4-1/2-13.5 LTC Casing	12796.03	74.96	4.500	3.920				
	H409360008	Baker Open Hole Packer	12870.99	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12874.88	75.62	4.500	3.920				
15	H809490015	2.625 EX_C Frac Sleeve	12950.50	3.53	5.750		2.573	2375	165	438
163.69		2 Joint of 4-1/2-13.5 LTC Casing	12954.03	76.76	4.500	3.920				
	H409360008	Baker Open Hole Packer	13030.79	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	13034.68	76.06	4.500	3.920				
14	H809490016	2.563 EX_C Frac Sleeve	13110.74	3.53	5.750		2.510	2375	157	440
163.27		2 Joints of 4-1/2-13.5 LTC Casing	13114.27	75.90	4.500	3.920				
	H409360008	Baker Open Hole Packer	13190.17	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	13194.06	74.27	4.500	3.920				
13	H809490017	2.500 EX_C Frac Sleeve	13268.33	3.53	5.750		2.448	2375	150	442
122.44		1 Joint of 4-1/2-13.5 LTC Casing	13271.86	36.86	4.500	3.920				
	H409360008	Baker Open Hole Packer	13308.72	3.89	5.820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number Merit 32 DM State Com 1H
 Sales Ticket Number _____
 Date 12/14/2012

Company Rep Brint Hlavaty
 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		8,089.00		KOP		7,687.00		Open Hole	6.125	Casing Vol. (bbl)	400.5
Carry Fluid Weight (ppg)			8.7		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)
12 165.00		2 Joints of 4-1/2-13.5 LTC Casing	13312.61	77.07	4.500	3.920				
	H809490018	2.438 EX_C Frac Sleeve	13389.68	3.53	5.750		2.386	2375	142	444
		2 Joints of 4-1/2-13.5 LTC Casing	13393.21	76.62	4.500	3.920				
11 124.71	H409360008	Baker Open Hole Packer	13469.83	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	13473.72	75.44	4.500	3.920				
	H809490019	2.375 EX_C Frac Sleeve	13549.16	3.53	5.750		2.323	2375		446
10 164.6		1 Joint of 4-1/2-13.5 LTC Casing	13552.69	37.96	4.500	3.920				
	H409360008	Baker Open Hole Packer	13590.65	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	13594.54	76.68	4.500	3.920				
9 127.1	H809490020	2.313 EX_C Frac Sleeve	13671.22	3.53	5.750		2.261	2375		448
		2 Joints of 4-1/2-13.5 LTC Casing	13674.75	76.61	4.500	3.920				
	H409360008	Baker Open Hole Packer	13751.36	3.89	5.820	3.875		2154		
8 163.1		2 Joints of 4-1/2-13.5 LTC Casing	13755.25	77.04	4.500	3.920				
	H809870047	2.250 EX Frac Sleeve	13832.29	3.90	5.750		2.150	2286		451
		1 Joint of 4-1/2-13.5 LTC Casing	13836.19	38.35	4.500	3.920				
7 125.9	H409360008	Baker Open Hole Packer	13874.54	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	13878.43	76.64	4.500	3.920				
	H809870042	2.125 EX Frac Sleeve	13955.07	3.90	5.750		2.025	2286		453
6		2 Joint of 4-1/2-13.5 LTC Casing	13958.97	74.76	4.500	3.920				
	H409360008	Baker Open Hole Packer	14033.73	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	14037.62	75.82	4.500	3.920				
	H809870088	2.000 EX Frac Sleeve	14113.44	3.90	5.750		1.900	2286		455
		1 Joints of 4-1/2-13.5 LTC Casing	14117.34	38.42	4.500	3.920				
	H409360008	Baker Open Hole Packer	14155.76	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	14159.65	74.87	4.500	3.920				
	H809870087	1.875 EX Frac Sleeve	14234.52	3.90	5.750		1.775	2286		457

Company Rep	Brint Hlavaty
Field	
BOT Service Rep	Hector R Magallanes
District Location	Odessa, Texas, USA

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