

OPERATOR
WELL/LEASE
COUNTY

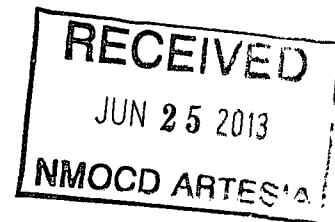
MEWBORNE OIL COMPANY
DELAWARE RANCH 14 CN FEE COM 1H
EDDY

075-0089

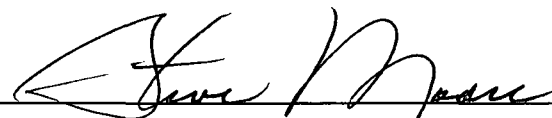
STATE OF NEW MEXICO
DEVIATION REPORT

30-015-40438

535	1.58
867	1.21
1,132	1.25
1,418	2.00
1,672	1.33
1,926	4.58
2,182	4.04
2,313	4.31
2,627	3.31
2,787	2.87
3,074	1.96
3,552	1.23
4,029	1.35
4,444	1.50
4,883	1.00
5,358	1.12
5,250	0.69
5,805	0.91
6,250	0.69
6,505	0.22
6,893	0.48
7,396	0.56
7,875	0.53
8,258	1.42
8,706	1.20
9,148	1.24
9,592	1.20



STATE OF TEXAS

BY: 

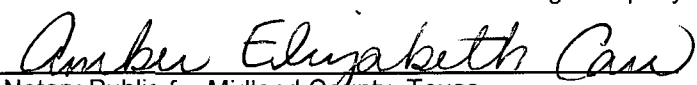
Received

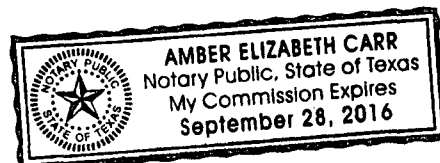
COUNTY OF MIDLAND

NOV 01 2012

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

10/29/12, by


Notary Public for Midland County, Texas
My Commission Expires:





Company: Mewbourne Oil Company
Lease/Well: Delaware Ranch 14 CN Fee Com/No. 001H
Location: S14 T26s R28e
Rig Name: Patterson 75
State/County: New Mexico/Eddy
Latitude: 32.05, Longitude: -104.06
GRID North is 0.14 Degrees East of True North
VS-Azi: 0.00 Degrees



RKB : 21.5 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...cn fee com #1h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 10/15/2012 / 14:48

Vaughn Energy Services

Gardendale, TX

(432) 563-5444

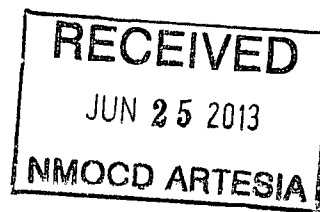
Surveyor: Dustin Wedel

Delaware Ranch 14 CN Fee Com No. 001H / API 30-015-40438

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	0.12	22.04	100.00	0.10	0.04	0.10	0.11	22.04	0.12
200.00	0.24	44.09	200.00	0.35	0.23	0.35	0.42	33.06	0.14
300.00	0.55	357.31	300.00	0.98	0.35	0.98	1.04	19.82	0.42
400.00	0.85	310.54	399.99	1.94	-0.23	1.94	1.96	353.12	0.62
500.00	1.02	309.63	499.98	3.00	-1.49	3.00	3.35	333.59	0.17
600.00	1.20	304.73	599.96	4.16	-3.03	4.16	5.15	323.91	0.20
700.00	1.03	307.35	699.94	5.30	-4.61	5.30	7.03	319.01	0.17
800.00	0.87	303.98	799.93	6.27	-5.95	6.27	8.65	316.50	0.17
900.00	0.50	240.32	899.92	6.48	-6.96	6.48	9.51	312.96	0.79
1000.00	0.13	176.67	999.92	6.16	-7.33	6.16	9.57	310.01	0.46
1100.00	0.25	192.55	1099.92	5.83	-7.37	5.83	9.40	308.32	0.14
1200.00	0.38	188.42	1199.92	5.28	-7.47	5.28	9.15	305.27	0.13
1300.00	0.57	175.96	1299.91	4.46	-7.48	4.46	8.71	300.80	0.21
1400.00	0.75	163.49	1399.91	3.34	-7.26	3.34	7.99	294.68	0.23
1500.00	1.00	140.76	1499.89	2.03	-6.52	2.03	6.83	287.28	0.42
1600.00	1.25	118.02	1599.88	0.84	-5.01	0.84	5.08	279.53	0.51
1700.00	1.82	100.29	1699.84	0.05	-2.49	0.05	2.49	271.05	0.74
1800.00	2.39	82.56	1799.77	0.03	1.14	0.03	1.14	88.41	0.86
1900.00	3.63	85.80	1899.63	0.53	6.36	0.53	6.39	85.21	1.25
2000.00	4.87	89.05	1999.36	0.83	13.76	0.83	13.78	86.53	1.26

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
2100.00	4.55	90.76	2099.02	0.85	21.96	0.85	21.98	87.78	0.35
2200.00	4.23	91.87	2198.73	0.68	29.61	0.68	29.62	88.68	0.33
2300.00	4.27	92.40	2298.45	0.40	37.02	0.40	37.02	89.37	0.06
2400.00	4.32	94.93	2398.17	-0.07	44.49	-0.07	44.49	90.10	0.20
2500.00	3.54	97.13	2497.93	-0.78	51.31	-0.78	51.32	90.87	0.80
2600.00	2.76	99.34	2597.78	-1.56	56.75	-1.56	56.77	91.57	0.79
2700.00	2.41	100.13	2697.68	-2.32	61.20	-2.32	61.24	92.17	0.35
2800.00	2.07	100.91	2797.60	-3.03	65.04	-3.03	65.11	92.67	0.35
2900.00	1.82	103.03	2897.55	-3.73	68.36	-3.73	68.46	93.12	0.26
3000.00	1.58	105.14	2997.50	-4.44	71.23	-4.44	71.37	93.57	0.25
3100.00	1.34	108.21	3097.47	-5.17	73.67	-5.17	73.85	94.01	0.25
3200.00	1.11	111.27	3197.45	-5.89	75.68	-5.89	75.91	94.45	0.24
3300.00	0.84	116.07	3297.43	-6.56	77.24	-6.56	77.52	94.85	0.28
3400.00	0.58	120.88	3397.42	-7.14	78.34	-7.14	78.67	95.21	0.27
3500.00	0.45	127.28	3497.42	-7.64	79.09	-7.64	79.46	95.52	0.14
3600.00	0.33	133.69	3597.42	-8.08	79.61	-8.08	80.02	95.80	0.13
3700.00	0.31	155.52	3697.42	-8.53	79.93	-8.53	80.39	96.09	0.12
3800.00	0.30	165.36	3797.42	-9.03	80.11	-9.03	80.62	96.43	0.05
3900.00	0.29	172.91	3897.41	-9.54	80.21	-9.54	80.78	96.78	0.04
4000.00	0.27	174.45	3997.41	-10.02	80.27	-10.02	80.89	97.12	0.02
4100.00	0.29	193.05	4097.41	-10.51	80.23	-10.51	80.92	97.46	0.09
4200.00	0.30	211.65	4197.41	-10.97	80.04	-10.97	80.79	97.81	0.10
4300.00	0.36	213.47	4297.41	-11.46	79.72	-11.46	80.54	98.18	0.06
4400.00	0.42	209.30	4397.41	-12.05	79.37	-12.05	80.28	98.63	0.07
4500.00	0.37	200.60	4497.40	-12.67	79.08	-12.67	80.08	99.10	0.08
4600.00	0.31	201.89	4597.40	-13.22	78.86	-13.22	79.96	99.52	0.06
4700.00	0.41	200.49	4697.40	-13.81	78.63	-13.81	79.84	99.96	0.09
4800.00	0.50	203.10	4797.40	-14.54	78.34	-14.54	79.68	100.52	0.10
4900.00	0.59	208.61	4897.39	-15.39	77.91	-15.39	79.42	101.17	0.11
5000.00	0.67	208.12	4997.39	-16.35	77.39	-16.35	79.09	101.93	0.09
5100.00	0.67	204.14	5097.38	-17.41	76.87	-17.41	78.82	102.76	0.05
5200.00	0.68	196.16	5197.37	-18.51	76.46	-18.51	78.67	103.61	0.09
5300.00	0.83	195.35	5297.36	-19.77	76.11	-19.77	78.64	104.56	0.15
5400.00	0.98	198.54	5397.35	-21.28	75.64	-21.28	78.58	105.71	0.16
5500.00	0.96	195.44	5497.34	-22.90	75.15	-22.90	78.56	106.95	0.06
5600.00	0.94	194.34	5597.32	-24.51	74.72	-24.51	78.64	108.16	0.03
5700.00	0.98	195.00	5697.31	-26.14	74.30	-26.14	78.76	109.38	0.04
5800.00	1.02	191.67	5797.29	-27.84	73.89	-27.84	78.96	110.65	0.07
5900.00	0.97	197.61	5897.28	-29.52	73.46	-29.52	79.17	111.90	0.12
6000.00	0.92	191.55	5997.27	-31.11	73.04	-31.11	79.39	113.07	0.11
6100.00	0.85	196.53	6097.25	-32.61	72.67	-32.61	79.65	114.17	0.10
6200.00	0.79	201.51	6197.24	-33.97	72.20	-33.97	79.79	115.19	0.09

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
6300.00	0.69	212.89	6297.23	-35.11	71.62	-35.11	79.77	116.12	0.18
6400.00	0.59	224.27	6397.23	-35.99	70.94	-35.99	79.54	116.90	0.16
6500.00	0.91	249.20	6497.22	-36.63	69.84	-36.63	78.86	117.68	0.45
6600.00	1.23	274.14	6597.20	-36.84	68.02	-36.84	77.36	118.44	0.56
6700.00	1.47	266.16	6697.18	-36.85	65.67	-36.85	75.30	119.30	0.30
6800.00	1.70	258.19	6797.14	-37.24	62.95	-37.24	73.13	120.61	0.32
6900.00	1.52	256.65	6897.10	-37.84	60.21	-37.84	71.12	122.15	0.19
7000.00	1.34	255.11	6997.07	-38.45	57.80	-38.45	69.42	123.63	0.18
7100.00	1.47	241.11	7097.04	-39.37	55.55	-39.37	68.08	125.33	0.37
7200.00	1.61	227.10	7197.00	-40.94	53.40	-40.94	67.29	127.48	0.40
7300.00	1.44	232.48	7296.97	-42.66	51.37	-42.66	66.78	129.71	0.22
7400.00	1.27	237.86	7396.94	-44.02	49.43	-44.02	66.19	131.68	0.21
7500.00	1.39	256.61	7496.91	-44.89	47.31	-44.89	65.22	133.50	0.45
7600.00	1.51	275.35	7596.88	-45.05	44.82	-45.05	63.55	135.15	0.49
7700.00	1.39	271.90	7696.85	-44.89	42.30	-44.89	61.67	136.70	0.15
7800.00	1.27	266.44	7796.82	-44.92	39.97	-44.92	60.13	138.33	0.17
7900.00	1.22	247.84	7896.80	-45.39	37.88	-45.39	59.12	140.15	0.41
8000.00	1.17	229.25	7996.78	-46.46	36.12	-46.46	58.84	142.14	0.39
8100.00	1.10	231.82	8096.76	-47.71	34.59	-47.71	58.93	144.06	0.09
8200.00	1.02	232.38	8196.74	-48.85	33.13	-48.85	59.03	145.85	0.07
8300.00	1.24	244.00	8296.72	-49.87	31.45	-49.87	58.96	147.76	0.31
8400.00	1.46	255.61	8396.69	-50.66	29.25	-50.66	58.50	150.00	0.35
8500.00	1.41	243.90	8496.66	-51.51	26.92	-51.51	58.12	152.41	0.30
8600.00	1.36	232.18	8596.63	-52.78	24.88	-52.78	58.35	154.76	0.29
8700.00	1.10	237.98	8696.61	-54.02	23.13	-54.02	58.76	156.82	0.28
8800.00	0.85	245.78	8796.60	-54.83	21.64	-54.83	58.94	158.46	0.29
8900.00	0.90	248.98	8896.58	-55.41	20.24	-55.41	58.99	159.94	0.08
9000.00	0.96	250.17	8996.57	-55.98	18.71	-55.98	59.02	161.52	0.06
9100.00	0.92	242.47	9096.56	-56.63	17.21	-56.63	59.19	163.09	0.13
9200.00	0.87	238.76	9196.54	-57.40	15.85	-57.40	59.55	164.56	0.07
9300.00	0.83	228.35	9296.53	-58.28	14.66	-58.28	60.09	165.88	0.16
9400.00	0.79	217.94	9396.52	-59.30	13.69	-59.30	60.86	167.00	0.15
9500.00	0.82	220.25	9496.51	-60.40	12.80	-60.40	61.74	168.03	0.04
9600.00	0.85	222.56	9596.50	-61.49	11.84	-61.49	62.62	169.10	0.05
9700.00	0.92	244.70	9696.49	-62.38	10.61	-62.38	63.28	170.35	0.35
9800.00	0.98	266.84	9796.48	-62.77	9.03	-62.77	63.42	171.81	0.37
9852.00	1.28	251.24	9848.47	-62.98	8.03	-62.98	63.49	172.73	0.81



Mewbourne Oil Co

Eddy County, New Mexico

Sec 14 26S - 28E

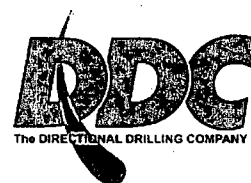
Delaware Ranch 14 CN Fed Com #1H

Wellbore #1

Survey: MWD

DDC Survey Report

31 October, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Delaware Ranch 14 CN Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Site:	Sec 14 26S - 28E	MD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Well:	Delaware Ranch 14 CN Fed 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 14 26S - 28E		
Site Position:		Northing:	381,602.42 usft
From:	Map	Easting:	584,443.90 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 55.849 N
		Longitude:	104° 3' 38.826 W
		Grid Convergence:	0.14 °

Well	Delaware Ranch 14 CN Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 381,602.42 usft
	+E/-W	0.0 usft	Easting: 584,443.90 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 2' 55.849 N
		Longitude:	104° 3' 38.826 W
		Ground Level:	2,976.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	3/5/2012	7.71
			Dip Angle (°) 59.92
			Field Strength (nT) 48,387

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°) 180.52

Survey Program	Date 10/31/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	9,852.0	Gyro (Wellbore #1)	Good_gyro
9,953.0	14,922.0	MWD (Wellbore #1)	MWD default
			Description
			Good Gyro
			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)	
TIE IN @ 9852' MD / 9849' TVD										
9,852.0	1.28	251.24	9,848.5	-63.0	8.0	62.9	0.00	0.00	0.00	
9,953.0	1.70	224.40	9,949.4	-64.4	5.9	64.3	0.80	0.42	-26.57	
9,985.0	5.50	204.60	9,981.4	-66.1	5.0	66.1	12.32	11.88	-61.88	
10,017.0	9.70	201.60	10,013.1	-70.0	3.3	70.0	13.18	13.13	-9.38	
10,049.0	13.90	204.70	10,044.4	-76.0	0.7	76.0	13.27	13.13	9.69	
10,080.0	17.90	206.50	10,074.2	-83.7	-3.0	83.7	13.00	12.90	5.81	
10,112.0	19.90	206.70	10,104.5	-92.9	-7.6	93.0	6.25	6.25	0.63	
10,144.0	22.80	204.20	10,134.3	-103.5	-12.6	103.6	9.50	9.06	-7.81	
10,176.0	23.00	204.00	10,163.8	-114.8	-17.7	115.0	0.67	0.63	-0.63	

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Delaware Ranch 14 CN Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Site:	Sec 14 26S - 28E	MD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Well:	Delaware Ranch 14 CN Fed 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)
10,207.0	24.80	200.20	10,192.1	-126.5	-22.4	126.7	7.64	5.81	-12.26
10,239.0	27.50	194.20	10,220.8	-139.9	-26.5	140.2	11.80	8.44	-18.75
10,271.0	31.00	192.10	10,248.7	-155.2	-30.1	155.4	11.40	10.94	-6.56
10,303.0	33.90	188.00	10,275.7	-172.1	-33.0	172.4	11.37	9.06	-12.81
10,335.0	37.20	184.90	10,301.8	-190.5	-35.1	190.9	11.75	10.31	-9.69
10,366.0	40.40	182.10	10,325.9	-209.9	-36.3	210.3	11.77	10.32	-9.03
10,397.0	43.80	179.60	10,348.9	-230.7	-36.6	231.0	12.23	10.97	-8.06
10,429.0	45.50	178.20	10,371.7	-253.2	-36.1	253.5	6.14	5.31	-4.38
10,461.0	47.50	177.50	10,393.7	-276.4	-35.3	276.7	6.45	6.25	-2.19
10,493.0	51.30	177.10	10,414.5	-300.6	-34.1	300.9	11.91	11.88	-1.25
10,525.0	53.50	178.40	10,434.1	-326.0	-33.1	326.3	7.59	6.88	4.06
10,556.0	57.00	179.90	10,451.7	-351.4	-32.7	351.7	11.97	11.29	4.84
10,588.0	59.20	181.90	10,468.7	-378.6	-33.2	378.9	8.68	6.88	6.25
10,604.0	60.50	182.20	10,476.7	-392.4	-33.7	392.7	8.29	8.13	1.88
10,682.0	61.10	182.10	10,514.7	-460.5	-36.2	460.8	0.78	0.77	-0.13
10,713.0	61.50	181.20	10,529.6	-487.6	-37.0	488.0	2.85	1.29	-2.90
CROSSED HARD LINE @ 10745' MD / 10545' TVD									
10,745.0	61.50	179.80	10,544.9	-515.8	-37.3	516.1	3.84	0.00	-4.38
10,778.0	63.10	176.60	10,560.2	-545.0	-36.3	545.3	9.86	4.85	-9.70
10,809.0	66.90	173.60	10,573.3	-572.9	-33.9	573.2	15.07	12.26	-9.68
10,841.0	72.60	173.40	10,584.4	-602.8	-30.5	603.0	17.82	17.81	-0.63
10,874.0	75.70	174.00	10,593.4	-634.3	-27.0	634.5	9.56	9.39	1.82
10,906.0	77.40	173.30	10,600.9	-665.2	-23.6	665.4	5.72	5.31	-2.19
10,937.0	78.50	172.60	10,607.3	-695.3	-19.9	695.5	4.18	3.55	-2.26
10,969.0	82.30	171.30	10,612.7	-726.6	-15.5	726.7	12.53	11.88	-4.06
11,001.0	85.70	170.30	10,616.0	-758.0	-10.4	758.0	11.07	10.63	-3.13
11,033.0	90.00	169.00	10,617.2	-789.4	-4.6	789.4	14.04	13.44	-4.06
11,064.0	94.70	168.50	10,615.9	-819.8	1.4	819.7	15.25	15.16	-1.61
11,097.0	96.90	168.70	10,612.6	-852.0	7.9	851.9	6.69	6.67	0.61
11,128.0	97.40	170.30	10,608.8	-882.2	13.5	882.1	5.37	1.61	5.16
11,160.0	99.30	174.80	10,604.1	-913.6	17.6	913.4	15.13	5.94	14.06
11,192.0	97.80	176.60	10,599.3	-945.2	20.0	944.9	7.27	-4.69	5.63
11,224.0	97.30	177.80	10,595.1	-976.8	21.5	976.6	4.03	-1.56	3.75
11,256.0	95.10	178.90	10,591.7	-1,008.6	22.5	1,008.4	7.68	-6.88	3.44
11,287.0	93.40	179.90	10,589.4	-1,039.5	22.8	1,039.3	6.36	-5.48	3.23
11,319.0	90.80	181.00	10,588.2	-1,071.5	22.5	1,071.3	8.82	-8.13	3.44
11,350.0	90.00	181.00	10,588.0	-1,102.5	22.0	1,102.3	2.58	-2.58	0.00
11,381.0	88.00	180.30	10,588.5	-1,133.5	21.6	1,133.3	6.84	-6.45	-2.26
11,412.0	87.90	180.50	10,589.7	-1,164.5	21.4	1,164.2	0.72	-0.32	0.65
11,444.0	89.90	181.70	10,590.3	-1,196.5	20.8	1,196.2	7.29	6.25	3.75
11,475.0	89.30	181.70	10,590.5	-1,227.5	19.9	1,227.2	1.94	-1.94	0.00
11,506.0	89.00	181.30	10,590.9	-1,258.4	19.1	1,258.2	1.61	-0.97	-1.29
11,538.0	88.70	181.50	10,591.6	-1,290.4	18.3	1,290.2	1.13	-0.94	0.63

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Delaware Ranch 14 CN Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Site:	Sec 14 26S - 28E	MD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Well:	Delaware Ranch 14 CN Fed 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)
11,569.0	88.80	181.70	10,592.3	-1,321.4	17.4	1,321.2	0.72	0.32	0.65
11,601.0	88.70	182.20	10,593.0	-1,353.4	16.3	1,353.2	1.59	-0.31	1.56
11,633.0	88.20	181.50	10,593.8	-1,385.4	15.3	1,385.2	2.69	-1.56	-2.19
11,665.0	87.50	180.80	10,595.0	-1,417.3	14.7	1,417.1	3.09	-2.19	-2.19
11,696.0	87.50	181.00	10,596.4	-1,448.3	14.2	1,448.1	0.64	0.00	0.65
11,728.0	89.60	180.50	10,597.2	-1,480.3	13.8	1,480.1	6.75	6.56	-1.56
11,760.0	90.90	179.40	10,597.0	-1,512.3	13.8	1,512.1	5.32	4.06	-3.44
11,824.0	90.70	178.90	10,596.2	-1,576.3	14.7	1,576.1	0.84	-0.31	-0.78
11,887.0	90.80	178.50	10,595.3	-1,639.2	16.2	1,639.0	0.65	0.16	-0.63
11,950.0	90.80	178.90	10,594.4	-1,702.2	17.6	1,702.0	0.63	0.00	0.63
12,014.0	91.00	180.50	10,593.4	-1,766.2	17.9	1,766.0	2.52	0.31	2.50
12,077.0	88.60	181.00	10,593.7	-1,829.2	17.1	1,829.0	3.89	-3.81	0.79
12,140.0	88.30	180.30	10,595.4	-1,892.2	16.4	1,891.9	1.21	-0.48	-1.11
12,204.0	87.20	180.10	10,597.9	-1,956.1	16.2	1,955.9	1.75	-1.72	-0.31
12,268.0	90.10	178.90	10,599.4	-2,020.1	16.7	2,019.9	4.90	4.53	-1.88
12,331.0	90.40	178.90	10,599.1	-2,083.1	17.9	2,082.8	0.48	0.48	0.00
12,395.0	91.30	179.60	10,598.2	-2,147.1	18.8	2,146.8	1.78	1.41	1.09
12,458.0	90.80	179.90	10,597.0	-2,210.1	19.0	2,209.8	0.93	-0.79	0.48
12,522.0	90.00	179.80	10,596.6	-2,274.0	19.2	2,273.8	1.26	-1.25	-0.16
12,586.0	90.40	178.90	10,596.3	-2,338.0	19.9	2,337.8	1.54	0.63	-1.41
12,650.0	91.10	178.40	10,595.5	-2,402.0	21.4	2,401.7	1.34	1.09	-0.78
12,714.0	92.70	179.80	10,593.4	-2,466.0	22.5	2,465.7	3.32	2.50	2.19
12,777.0	91.50	178.70	10,591.1	-2,528.9	23.3	2,528.6	2.58	-1.90	-1.75
12,840.0	91.00	178.50	10,589.7	-2,591.9	24.8	2,591.6	0.85	-0.79	-0.32
12,903.0	89.70	178.00	10,589.3	-2,654.9	26.7	2,654.5	2.21	-2.06	-0.79
12,935.0	89.30	178.50	10,589.6	-2,686.8	27.7	2,686.5	2.00	-1.25	1.56
12,999.0	92.80	179.40	10,588.4	-2,750.8	28.9	2,750.4	5.65	5.47	1.41
13,062.0	92.70	179.90	10,585.4	-2,813.7	29.3	2,813.4	0.81	-0.16	0.79
13,125.0	93.00	180.50	10,582.3	-2,876.7	29.1	2,876.3	1.06	0.48	0.95
13,189.0	92.00	179.90	10,579.5	-2,940.6	28.8	2,940.2	1.82	-1.56	-0.94
13,252.0	91.40	179.90	10,577.6	-3,003.6	28.9	3,003.2	0.95	-0.95	0.00
13,316.0	89.60	179.80	10,577.0	-3,067.6	29.1	3,067.2	2.82	-2.81	-0.16
13,379.0	90.60	181.00	10,576.9	-3,130.6	28.7	3,130.2	2.48	1.59	1.90
13,443.0	92.20	182.20	10,575.4	-3,194.5	26.9	3,194.1	3.12	2.50	1.88
13,506.0	91.10	181.50	10,573.6	-3,257.4	24.8	3,257.1	2.07	-1.75	-1.11
13,570.0	90.70	181.50	10,572.6	-3,321.4	23.2	3,321.1	0.63	-0.63	0.00
13,633.0	89.90	181.00	10,572.2	-3,384.4	21.8	3,384.1	1.50	-1.27	-0.79
13,696.0	90.00	181.50	10,572.3	-3,447.4	20.4	3,447.1	0.81	0.16	0.79
13,760.0	90.20	181.00	10,572.2	-3,511.4	19.0	3,511.1	0.84	0.31	-0.78
13,824.0	90.10	181.40	10,572.0	-3,575.4	17.7	3,575.1	0.64	-0.16	0.63
13,887.0	90.30	180.60	10,571.8	-3,638.3	16.6	3,638.0	1.31	0.32	-1.27
13,950.0	90.50	180.30	10,571.3	-3,701.3	16.1	3,701.0	0.57	0.32	-0.48
14,013.0	90.50	179.80	10,570.8	-3,764.3	16.0	3,764.0	0.79	0.00	-0.79
14,077.0	90.80	180.10	10,570.1	-3,828.3	16.1	3,828.0	0.66	0.47	0.47

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Delaware Ranch-14 CN Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Site:	Sec 14 26S - 28E	MD Reference:	GL 2976' + 20' KB @ 2996.0usft (Patterson UTI)
Well:	Delaware Ranch 14 CN Fed 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)
14,141.0	91.40	181.00	10,568.8	-3,892.3	15.5	3,892.0	1.69	0.94	1.41
14,204.0	91.60	180.80	10,567.2	-3,955.3	14.5	3,955.0	0.45	0.32	-0.32
14,268.0	89.50	179.90	10,566.6	-4,019.3	14.1	4,019.0	3.57	-3.28	-1.41
14,331.0	90.20	180.60	10,566.7	-4,082.3	13.8	4,082.0	1.57	1.11	1.11
14,395.0	89.00	179.60	10,567.2	-4,146.3	13.7	4,146.0	2.44	-1.88	-1.56
14,458.0	89.30	179.80	10,568.1	-4,209.3	14.0	4,209.0	0.57	0.48	0.32
14,522.0	91.10	180.30	10,567.9	-4,273.3	14.0	4,273.0	2.92	2.81	0.78
14,585.0	93.10	181.00	10,565.6	-4,336.2	13.3	4,335.9	3.36	3.17	1.11
14,649.0	93.20	181.00	10,562.1	-4,400.1	12.2	4,399.8	0.16	0.16	0.00
14,713.0	93.70	181.50	10,558.2	-4,464.0	10.8	4,463.7	1.10	0.78	0.78
14,777.0	94.10	181.70	10,553.9	-4,527.8	9.0	4,527.5	0.70	0.63	0.31
14,840.0	92.60	181.00	10,550.2	-4,590.7	7.5	4,590.4	2.63	-2.38	-1.11
14,872.0	92.10	180.30	10,548.9	-4,622.6	7.1	4,622.4	2.69	-1.56	-2.19
TD @ 14922' MD / 10548' TVD									
14,922.0	91.00	180.30	10,547.5	-4,672.6	6.9	4,672.4	2.20	-2.20	0.00

Survey Annotations

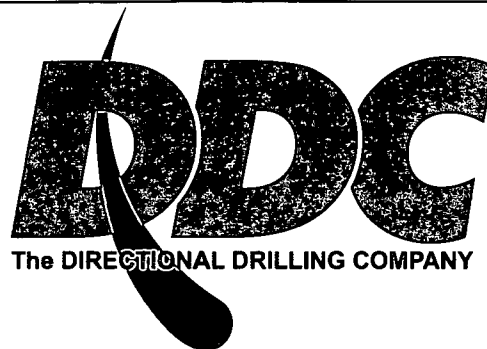
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,852.0	9,848.5	-63.0	8.0	TIE IN @ 9852' MD / 9849' TVD
10,745.0	10,544.9	-515.8	-37.3	CROSSED HARD LINE @ 10745' MD / 10545' TVD
14,922.0	10,547.5	-4,672.6	6.9	TD @ 14922' MD / 10548' TVD

Checked By: _____ Approved By: _____ Date: _____

Mewbourne Oil Company

Company Name: Mewbourne Oil Co
Delaware Ranch 14 CN Fed Com #1H
Eddy County, New Mexico
Rig: Patterson UTI
Created By: Guthrey Johnson
Date: 10/31/2012

Delaware Ranch 14 CN Fed Com #1H
Eddy County, New Mexico
Q120189 & WT-12718
Design #3



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: Delaware Ranch 14 CN Fed Com #1H

Ground Level: 2976.0
+N/-S 0.0 +E/-W 0.0 Northing 381602.42 Easting 584443.89 Latitude 32° 2' 55.849 N 104° 3' 38.626 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Delaware Ranch 14 CN Fed Com #1H	10536.0	-4672.8	-30.4	376929.62	584413.49	32° 2' 9.605 N	104° 3' 39.316 W

- plan hits target center

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
9852.0	1.28	251.24	9848.5	-63.0	8.0	62.9	204.6	TIE IN @ 9852' MD / 9849' TVD
10745.0	61.50	179.80	10544.9	-515.8	-37.3	516.1	666.5	CROSSED HARD LINE @ 10745' MD / 10545' TVD
14922.0	91.00	180.30	10547.5	-4672.6	6.9	4672.4	4626.2	TD @ 14922' MD / 10548' TVD



Azimuths to Grid North

Magnetic North: 7.56°

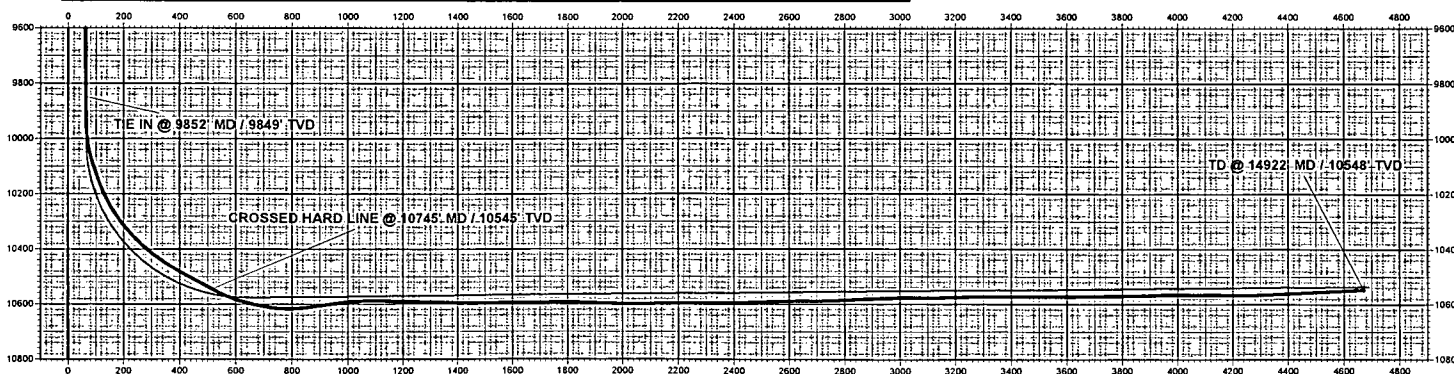
Magnetic Field

Strength: 48386.9nT

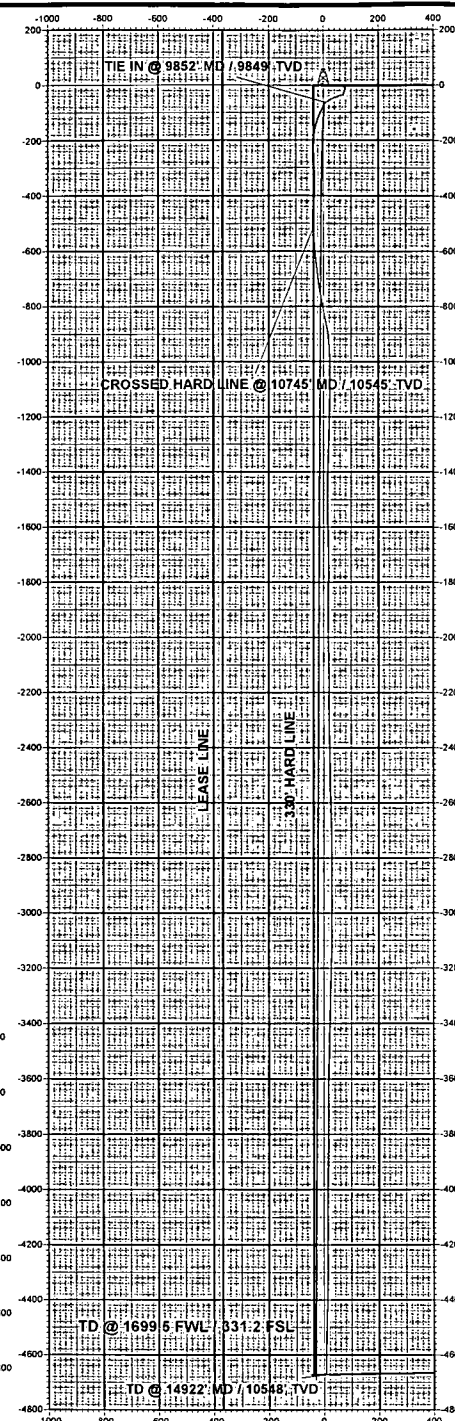
Dip Angle: 59.92°

Date: 3/5/2012

Model: IGRF2010



Vertical Section at 180.52° (200 usf/in)



DELAWARE RANCH

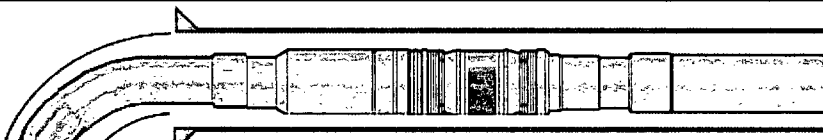
Operating Company **MEWBOURNE OIL COMPANY**
Well Name & Number **14 CN FEE COM #1H**
Sales Ticket Number **0**
Date **10/31/2012**

Company Rep **JOSEPH / JAKE**
Field **0**
BOT Service Rep **CHARLES RAY MOSLEY**
District Location **Odessa, Texas, USA**



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	0	LT&C	0.03826	10,656.00	9,960	7,220	
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,429.38	12,410	10,680	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-	
TVD		10,550.00		KOP		10,003.00	Open Hole		6.125	Casing Vol. (bbl)	398.7
Carry Fluid Weight (ppg)			12.6		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/2RH Profile	10420.62	8.00	5.750	4.750			



Zone Length

30

328.5

29

202.7

28

165.5

27

126.4

26

88.08

H409400008	S3 Liner Top Packer	10428.62	5.63	5.813	3.875		1670		
	4-1/2-13.5 LTC Nipple	10434.25	4.00	5.000	3.920				
	6 Joints of 4-1/2-13.5 LTC Casing	10438.25	272.45	5.000	3.920				
H80970074	3.625 EX Frac Sleeve	10710.70	3.90	5.750		3.525	2375	258	403
	2 Joint of 4-1/2-13.5 LTC Casing	10714.60	91.12	5.000	3.920				
H409360008	Baker Open Hole Packer	10805.72	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	10809.61	45.35	5.000	3.920				
H809490001	3.500 EX-C Frac Sleeve	10854.96	3.90	5.750		3.448	2375	247	405
	2 Joint of 4-1/2-13.5 LTC Casing	10858.86	90.33	5.000	3.920				
H409360008	Baker Open Hole Packer	10949.19	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	10953.08	45.36	5.000	3.920				
H809490002	3.438 EX-C Frac Sleeve	10998.44	3.90	5.750		3.385	2375	238	407
	2 Joint of 4-1/2-13.5 LTC Casing	11002.34	90.33	5.000	3.920				
H409360008	Baker Open Hole Packer	11092.67	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	11096.56	45.34	5.000	3.920				
H809490003	3.375 EX_C Frac Sleeve	11141.90	3.90	5.750		3.323	2375	229	409
	1 Joint of 4-1/2-13.5 LTC Casing	11145.80	45.32	5.000	3.920				
H409360008	Baker Open Hole Packer	11191.12	3.89	5.820	3.875		2154		
	1 Joints of 4-1/2-13.5 LTC Casing	11195.01	45.29	5.000	3.920				
H809490004	3.313 EX-C Frac Sleeve	11240.30	3.90	5.750		3.260	2375	221	411
	1 Joints of 4-1/2-13.5 LTC Casing	11244.20	90.59	5.000	3.920				
H409360008	Baker Open Hole Packer	11334.79	3.89	5.820	3.875		2154		

Operating Company MEWBOURNE OIL COMPANY
Well Name & Number 14 CN FEE COM #1H
Sales Ticket Number 0
Date 10/31/2012

Company Rep JOSEPH / JAKE
Field 0
BOT Service Rep CHARLES RAY MOSLEY
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	P-110	6.276	0	LT&C	0.03826	10,656.00	9,960	7,220	
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,429.38	12,410	10,680	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-	
TVD		10,550.00		KOP		10,003.00		Open Hole	6.125	Casing Vol. (bbl)	398.7
Carry Fluid Weight (ppg)			12.6		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)
25		1 Joints of 4-1/2-13.5 LTC Casing	11338.68	45.52	5.000	3.920				
125.9	H809490005	3.250 EX-C Frac Sleeve	11384.20	3.90	5.750		3.198	2375	212	413
		2 Joint of 4-1/2-13.5 LTC Casing	11388.10	90.67	5.000	3.920				
24	H409360008	Baker Open Hole Packer	11478.77	3.89	5.820	3.875		2154		
163.6		2 Joints of 4-1/2-13.5 LTC Casing	11482.66	90.63	5.000	3.920				
	H809490006	3.188 EX-C Frac Sleeve	11573.29	3.90	5.750		3.135	2375	204	416
		2 Joints of 4-1/2-13.5 LTC Casing	11577.19	90.58	5.000	3.920				
	H409360008	Baker Open Hole Packer	11667.77	3.89	5.820	3.875		2154		
23		2 Joints of 4-1/2-13.5 LTC Casing	11671.66	90.60	5.000	3.920				
164	H809490007	3.125 EX-C Frac Sleeve	11762.26	3.90	5.750		3.073	2375	196	419
		2 Joint of 4-1/2-13.5 LTC Casing	11766.16	90.66	5.000	3.920				
	H409360008	Baker Open Hole Packer	11856.82	3.89	5.820	3.875		2154		
22		1 Joints of 4-1/2-13.5 LTC Casing	11860.71	45.00	5.000	3.920				
125.5	H809490008	3.063 EX-C Frac Sleeve	11905.71	3.90	5.750		3.010	2375	188	421
		2 Joints of 4-1/2-13.5 LTC Casing	11909.61	90.33	5.000	3.920				
	H409360008	Baker Open Hole Packer	11999.94	3.89	5.820	3.875		2154		
21		1 Joints of 4-1/2-13.5 LTC Casing	12003.83	45.34	5.000	3.920				
124.4	H809490009	3.000 EX-C Frac sleeve	12049.17	3.90	5.750		2.948	2375	181	423
		2 Joint of 4-1/2-13.5 LTC Casing	12053.07	90.29	5.000	3.920				
	H409360008	Baker Open Hole Packer	12143.36	3.89	5.820	3.875		2154		
20		1 Joints of 4-1/2-13.5 LTC Casing	12147.25	45.33	5.000	3.920				
164.2	H809490010	2.938 EX-C Frac Sleeve	12192.58	3.90	5.750		2.885	2375	173	425
		2 Joints of 4-1/2-13.5 LTC Casing	12196.48	90.54	5.000	3.920				
	H409360008	Baker Open Hole Packer	12287.02	3.89	5.820	3.875		2154		
19		2 Joint of 4-1/2-13.5 LTC Casing	12290.91	90.33	5.000	3.920				
163.4	H809490011	2.875 EX-C Frac Sleeve	12381.24	3.90	5.750		2.823	2375	166	428

Operating Company MEWBOURNE OIL COMPANY
Well Name & Number 14 CN FEE COM #1H
Sales Ticket Number 0
Date 10/31/2012

Company Rep JOSEPH / JAKE
Field 0
BOT Service Rep CHARLES RAY MOSLEY
District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	P-110	6.276	0	LT&C	0.03826	10,656.00	9,960	7,220
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,429.38	12,410	10,680
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-
TVD		10,550.00	KOP		10,003.00	Open Hole		6.125	Casing Vol. (bbl)	398.7
Carry Fluid Weight (ppg)			12.6	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)
18 125.6		1 Joints of 4-1/2-13.5 LTC Casing	12385.14	45.34	5.000	3.920				
	H409360008	Baker Open Hole Packer	12430.48	3.89	5.820	3.875		2154		
17 165.4		1 Joint of 4-1/2-13.5 LTC Casing	12434.37	45.31	5.000	3.920				
	H809490012	2.813 EX_C Frac Sleeve	12479.68	3.90	5.750		2.760	2375	158	429
16 126.2		1 Joints of 4-1/2-13.5 LTC Casing	12483.58	90.30	5.000	3.920				
	H409360008	Baker Open Hole Packer	12573.88	3.89	5.820	3.875		2154		
15 163.7		1 Joint of 4-1/2-13.5 LTC Casing	12577.77	45.26	5.000	3.920				
	H809490013	2.750 EX_C Frac Sleeve	12623.03	3.90	5.750		2.698	2375	151	432
14 122.8		1 Joints of 4-1/2-13.5 LTC Casing	12626.93	45.28	5.000	3.920				
	H409360008	Baker Open Hole Packer	12672.21	3.89	5.820	3.875		2154		
13 165.1		1 Joint of 4-1/2-13.5 LTC Casing	12676.10	45.30	5.000	3.920				
	H809490014	2.688 EX_C Frac Sleeve	12721.40	3.90	5.750		2.635	2375	144	433
		1 Joints of 4-1/2-13.5 LTC Casing	12725.30	45.28	5.000	3.920				
	H409360008	Baker Open Hole Packer	12770.58	3.89	5.820	3.875		2154		
		1 Joints of 4-1/2-13.5 LTC Casing	12774.47	45.26	5.000	3.920				
	H809490015	2.625 EX_C Frac Sleeve	12819.73	3.90	5.750		2.573	2375	138	435
		2 Joint of 4-1/2-13.5 LTC Casing	12823.63	90.60	5.000	3.920				
	H409360008	Baker Open Hole Packer	12914.23	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12918.12	90.62	5.000	3.920				
	H809490016	2.563 EX_C Frac Sleeve	13008.74	3.90	5.750		2.510	2375	131	437
		1 Joints of 4-1/2-13.5 LTC Casing	13012.64	45.30	5.000	3.920				
	H409360008	Baker Open Hole Packer	13057.94	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	13061.83	90.58	5.000	3.920				
	H809490017	2.500 EX_C Frac Sleeve	13152.41	3.90	5.750		2.448	2375	124	439
		2 Joint of 4-1/2-13.5 LTC Casing	13156.31	90.60	5.000	3.920				
	H409360008	Baker Open Hole Packer	13246.91	3.89	5.820	3.875		2154		

Operating Company MEWBOURNE OIL COMPANY

Company Rep JOSEPH / JAKE

Well Name & Number 14 CN FEE COM #1H

Field 0

Sales Ticket Number 0

BOT Service Rep CHARLES RAY MOSLEY

Date 10/31/2012

District Location Odessa, Texas, USA



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse		
Casing	7.000	26.00	P-110	6.276	0	LT&C	0.03826	10,656.00	9,960	7,220		
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,429.38	12,410	10,680		
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-		
TVD		10,550.00		KOP		10,003.00		Open Hole	6.125	Casing Vol. (bbl)	398.7	
Carry Fluid Weight (ppg)			12.6		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)
12		1 Joints of 4-1/2-13.5 LTC Casing	13250.80	45.32	5.000	3.920				
124.2	H809490018	2.438 EX_C Frac Sleeve	13296.12	3.90	5.750		2.386	2375	118	442
		2 Joints of 4-1/2-13.5 LTC Casing	13300.02	90.63	5.000	3.920				
	H409360008	Baker Open Hole Packer	13390.65	3.89	5.820	3.875		2154		
11		1 Joints of 4-1/2-13.5 LTC Casing	13394.54	45.29	5.000	3.920				
163.2	H809490019	2.375 EX_C Frac Sleeve	13439.83	3.90	5.750		2.323	2375	112	444
		2 Joint of 4-1/2-13.5 LTC Casing	13443.73	90.63	5.000	3.920				
	H409360008	Baker Open Hole Packer	13534.36	3.89	5.820	3.875		2154		
10		1 Joints of 4-1/2-13.5 LTC Casing	13538.25	45.30	5.000	3.920				
164.5	H809490020	2.313 EX_C Frac Sleeve	13583.55	3.90	5.750		2.261	2375	106	446
		1 Joints of 4-1/2-13.5 LTC Casing	13587.45	45.36	5.000	3.920				
	H409360008	Baker Open Hole Packer	13632.81	3.89	5.820	3.875		2154		
9		1 Joints of 4-1/2-13.5 LTC Casing	13636.70	45.28	5.000	3.920				
161.1	H8098700	2.250 EX Frac Sleeve	13681.98	3.90	5.750		2.150	2286	94	447
		2 Joint of 4-1/2-13.5 LTC Casing	13685.88	90.21	5.000	3.920				
	H409360008	Baker Open Hole Packer	13776.09	3.89	5.820	3.875		2154		
8		1 Joints of 4-1/2-13.5 LTC Casing	13779.98	45.31	5.000	3.920				
169.3	H809870042	2.125 EX Frac Sleeve	13825.29	3.90	5.750		2.025	2286	84	450
		3 Joint of 4-1/2-13.5 LTC Casing	13829.19	135.96	5.000	3.920				
	H409360008	Baker Open Hole Packer	13965.15	3.89	5.820	3.875		2154		
7		1 Joints of 4-1/2-13.5 LTC Casing	13969.04	45.30	5.000	3.920				
142	H809870088	2.000 EX Frac Sleeve	14014.34	3.90	5.750		1.900	2286	74	452
		1 Joints of 4-1/2-13.5 LTC Casing	14018.24	45.29	5.000	3.920				
	H409360008	Baker Open Hole Packer	14063.53	3.89	5.820	3.875		2154		
6		1 Joints of 4-1/2-13.5 LTC Casing	14067.42	45.31	5.000	3.920				
125.4	H809870087	1.875 EX Frac Sleeve	14112.73	3.90	5.750		1.775	2286	64	454

Company Rep	JOSEPH / JAKE
Field	0
BOT Service Rep	CHARLES RAY MOSLEY
District Location	Odessa, Texas, USA



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Casing	7.000	26.00	P-110	6.276	0	LT&C	0.03826	10,656.00	9,960	7,220	
Top Liner	4.500	13.50	110000	3.920	3.795	LT&C	0.01492	4,429.38	12,410	10,680	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-	
TVD	10,550.00		KOP		10,003.00		Open Hole		6.125	Casing Vol. (bbl)	398.7
Carry Fluid Weight (ppg)			12.6		Propant Content (ppa)				Max Drill Out Size		0

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