

OPERATOR
WELL/LEASE
COUNTY

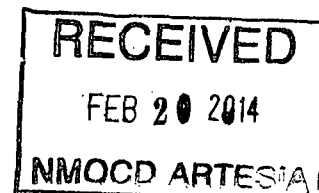
MEWBOURNE OIL COMPANY
HENRY 8 IL FEDERAL 1H
EDDY

444-0023

STATE OF NEW MEXICO
DEVIATION REPORT

30 015 41781

300	1.00
648	0.90
1,060	3.00
1,370	2.29
1,635	1.20
1,823	3.00
2,005	0.14
2,105	3.33
2,200	1.85
2,550	3.00
2,865	3.00
3,278	2.10
3,751	1.60
4,222	1.00
4,694	0.90
5,165	1.00
5,635	0.80
6,107	1.20
6,577	1.10
7,051	1.70



BY:

Steve Moore

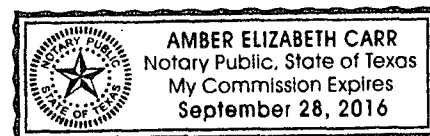
STATE OF TEXAS

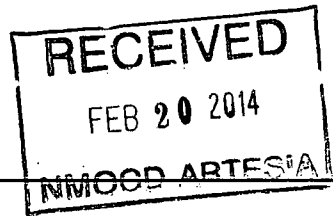
COUNTY OF MIDLAND

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

12/19/13, by

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

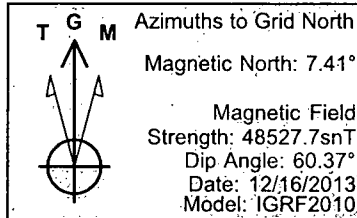
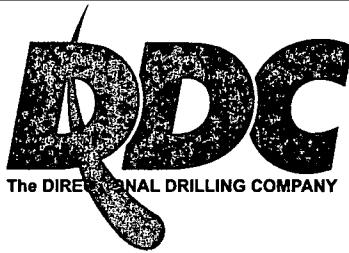




Company Name: Mewbourne Oil Co
Henry 8 IL Federal Com #1H
Eddy County, New Mexico
Rig: Patterson #444
Created By: James Dawson
Date: 2/5/2014

Henry 8 IL Federal Com #1H
Eddy County, New Mexico
Q130907 & WT-13937
Side-Track #1 - Design #5

Mewbourne Oil Company



PROJECT DETAILS: Eddy County, New Mexico

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

WELL DETAILS: Henry 8 IL Federal Com #1H

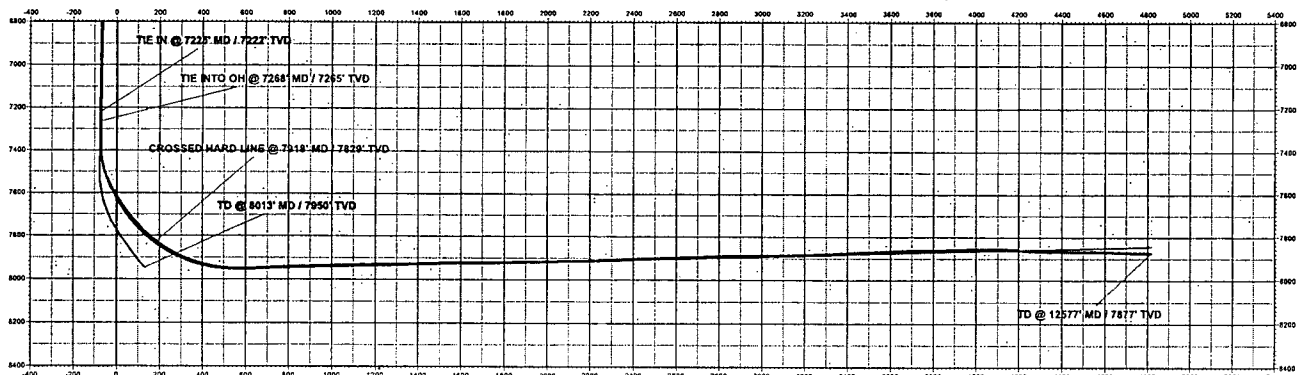
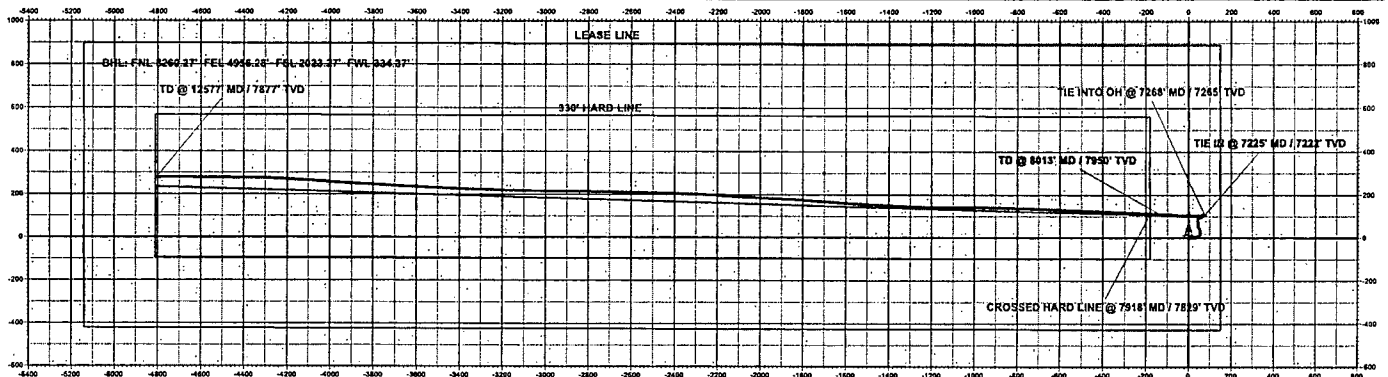
	Ground Level	3274.0
+N-S	North	576773.00
+E-W	East	575381.60
	Latitude	32° 35' 9.320 N
	Longitude	104° 6' 15.168 W

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	North	East	Latitude	Longitude
PBHL Henry IL Federal Com #1H ST#1 D447844.0	233.8	-4511.1	577006.83	570570.53	32° 35' 9.320 N	104° 6' 15.168 W	
- plan N/A target center							

ANNOTATIONS

MD	Inc	Asl	TVD	+N-S	+E-W	Vsect	Departure	Annotation
7268.0	0.80	46.80	7268.8	108.5	77.0	-71.8	186.3	TIE INTO OH @ 7268' MD / 7265' TVD
7917.6	52.80	271.87	7829.5	111.0	-180.2	185.3	447.3	CROSSED HARD LINE @ 7918' MD / 7829' TVD
12577.0	88.20	289.10	7877.1	277.1	-4806.8	4814.6	5077.9	TD @ 12577' MD / 7877' TVD



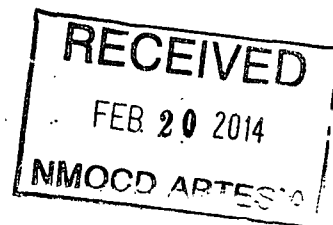
Vertical Section at 272.78° (200 usf/in)

Mewbourne Oil Co

Eddy County, New Mexico

Sec 8, T20S, R29E

Henry 8 IL Federal Com #1H

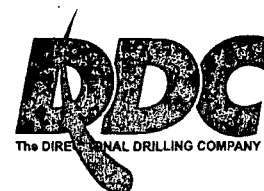


Side-Track #1

Design: Side-Track #1

DDC Survey Report

05 February, 2014



DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Henry 8 IL Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3294.0usft (Patterson #444)
Site:	Sec 8, T20S, R29E	MD Reference:	WELL @ 3294.0usft (Patterson #444)
Well:	Henry 8 IL Federal Com #1H	North Reference:	Grid
Wellbore:	Side-Track #1	Survey Calculation Method:	Minimum Curvature
Design:	Side-Track #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 8, T20S, R29E		
Site Position:		Northing:	579,433.40 usft
From:	Map	Easting:	575,217.33 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 35' 33.830 N
		Longitude:	104° 5' 20.792 W
		Grid Convergence:	0.13 °

Well:	Henry 8 IL Federal Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 576,773.00 usft
	+E/-W	0.0 usft	Easting: 575,381.60 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 35' 7.500 N
		Longitude:	104° 5' 18.943 W
		Ground Level:	3,274.0 usft

Wellbore:	Side-Track #1		
Magnetics:	Model Name	Sample Date	Declination
	IGRF2010	12/16/2013	(°)
			7.54
			Dip Angle (°)
			60.37
			Field Strength (nT)
			48,528

Design:	Side-Track #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	7,268.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°)
			272.78

Survey Program	Date: 2/5/2014		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	7,225.0	GYRO (Wellbore #1)	Good_gyro
7,268.0	7,268.0	MWD Surveys (Wellbore #1)	MWD default
7,332.0	12,577.0	MWD (Side-Track #1)	MWD default
			Description
			Good Gyro
			MWD - Standard
			MWD - Standard

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.25	349.48	100.0	0.2	0.0	0.1	0.25	0.25	0.00	
200.0	0.32	143.74	200.0	0.2	0.1	-0.1	0.56	0.07	154.26	
300.0	0.46	104.57	300.0	-0.1	0.6	-0.6	0.29	0.14	-39.17	
400.0	0.60	65.39	400.0	0.0	1.5	-1.5	0.38	0.14	-39.18	
500.0	0.56	74.54	500.0	0.3	2.5	-2.4	0.10	-0.04	9.15	
600.0	0.53	79.69	600.0	0.6	3.4	-3.3	0.06	-0.03	5.15	
700.0	1.74	82.82	700.0	0.8	5.3	-5.3	1.21	1.21	3.13	
800.0	2.95	79.95	799.9	1.5	9.4	-9.3	1.22	1.21	-2.87	

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well: Henry 8IL Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3294.0usft (Patterson #444)
Site:	Sec 8, T20S, R29E	MD Reference:	WELL @ 3294.0usft (Patterson #444)
Well:	Henry 8IL Federal Com #1H	North Reference:	Grid
Wellbore:	Side Track #1	Survey Calculation Method:	Minimum Curvature
Design:	Side Track #1	Database:	EDM5000.1 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)
900.0	3.42	85.51	899.7	2.2	14.9	-14.8	0.56	0.47	5.56
1,000.0	3.88	91.06	999.5	2.3	21.2	-21.1	0.58	0.46	5.55
1,100.0	3.69	84.10	1,099.3	2.6	27.8	-27.7	0.50	-0.19	-6.96
1,200.0	3.49	77.15	1,199.1	3.6	34.0	-33.8	0.48	-0.20	-6.95
1,300.0	3.11	69.54	1,298.9	5.2	39.5	-39.2	0.58	-0.38	-7.61
1,400.0	2.72	61.94	1,398.8	7.3	44.1	-43.7	0.55	-0.39	-7.60
1,500.0	2.29	57.78	1,498.7	9.5	47.9	-47.4	0.47	-0.43	-4.16
1,600.0	1.86	55.62	1,598.6	11.4	51.0	-50.3	0.44	-0.43	-2.16
1,700.0	1.63	35.01	1,698.6	13.5	53.1	-52.4	0.66	-0.23	-20.61
1,800.0	1.41	24.40	1,798.6	15.8	54.4	-53.6	0.36	-0.22	-10.61
1,900.0	1.33	16.55	1,898.5	18.0	55.3	-54.3	0.20	-0.08	-7.85
2,000.0	1.25	14.70	1,998.5	20.2	55.9	-54.8	0.09	-0.08	-1.85
2,100.0	1.90	1.81	2,098.5	22.9	56.2	-55.0	0.74	0.65	-12.89
2,200.0	2.55	348.93	2,198.4	26.8	55.8	-54.5	0.82	0.65	-12.88
2,300.0	2.77	344.86	2,298.3	31.3	54.8	-53.2	0.29	0.22	-4.07
2,400.0	2.99	340.80	2,398.2	36.1	53.3	-51.5	0.30	0.22	-4.06
2,500.0	2.58	339.04	2,498.0	40.6	51.6	-49.6	0.42	-0.41	-1.76
2,600.0	2.16	337.29	2,598.0	44.5	50.1	-47.9	0.43	-0.42	-1.75
2,700.0	2.25	338.24	2,697.9	48.0	48.6	-46.2	0.10	0.09	0.95
2,800.0	2.35	337.20	2,797.8	51.8	47.1	-44.5	0.11	0.10	-1.04
2,900.0	2.25	342.12	2,897.7	55.5	45.7	-43.0	0.22	-0.10	4.92
3,000.0	2.16	347.03	2,997.7	59.2	44.7	-41.8	0.21	-0.09	4.91
3,100.0	2.03	358.20	3,097.6	62.8	44.2	-41.1	0.43	-0.13	11.17
3,200.0	1.89	9.37	3,197.5	66.2	44.4	-41.2	0.41	-0.14	11.17
3,300.0	1.81	359.79	3,297.5	69.4	44.7	-41.3	0.32	-0.08	-9.58
3,400.0	1.72	350.21	3,397.4	72.5	44.4	-40.9	0.31	-0.09	-9.58
3,500.0	1.70	352.81	3,497.4	75.4	44.0	-40.3	0.08	-0.02	2.60
3,600.0	1.68	357.41	3,597.3	78.4	43.7	-39.9	0.14	-0.02	4.60
3,700.0	1.42	350.95	3,697.3	81.1	43.5	-39.5	0.31	-0.26	-6.46
3,800.0	1.15	344.50	3,797.3	83.3	43.0	-38.9	0.31	-0.27	-6.45
3,900.0	0.92	350.24	3,897.3	85.0	42.6	-38.4	0.25	-0.23	5.74
4,000.0	0.68	355.98	3,997.3	86.4	42.4	-38.2	0.25	-0.24	5.74
4,100.0	0.71	8.35	4,097.2	87.6	42.5	-38.2	0.15	0.03	12.37
4,200.0	0.73	20.73	4,197.2	88.8	42.8	-38.4	0.16	0.02	12.38
4,300.0	0.74	32.02	4,297.2	90.0	43.4	-38.9	0.14	0.01	11.29
4,400.0	0.75	39.32	4,397.2	91.0	44.1	-39.6	0.10	0.01	7.30
4,500.0	0.99	45.97	4,497.2	92.1	45.2	-40.6	0.26	0.24	6.65
4,600.0	1.23	42.63	4,597.2	93.5	46.5	-41.9	0.25	0.24	-3.34
4,700.0	1.03	72.01	4,697.2	94.6	48.1	-43.4	0.60	-0.20	29.38
4,800.0	0.83	101.39	4,797.2	94.7	49.6	-45.0	0.51	-0.20	29.38
4,900.0	1.07	104.46	4,897.1	94.3	51.3	-46.6	0.25	0.24	3.07
5,000.0	1.28	101.53	4,997.1	93.9	53.3	-48.6	0.22	0.21	-2.93
5,100.0	1.10	90.34	5,097.1	93.6	55.3	-50.7	0.29	-0.18	-11.19

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Henry 8 IL Federal Corn #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3294.0usft (Patterson #444)
Site:	Sec 8, T20S, R29E	MD Reference:	WELL @ 3294.0usft (Patterson #444)
Well:	Henry 8 IL Federal Corn #1H	North Reference:	Grid
Wellbore:	Side Track #1	Survey Calculation Method:	Minimum Curvature
Design:	Side Track #1	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	0.92	79.16	5,197.1	93.8	57.1	-52.4	0.27	-0.18	-11.18	
5,300.0	0.86	64.28	5,297.1	94.3	58.5	-53.9	0.24	-0.06	-14.88	
5,400.0	0.79	49.40	5,397.1	95.0	59.7	-55.0	0.22	-0.07	-14.88	
5,500.0	0.90	54.93	5,497.1	95.9	60.9	-56.2	0.14	0.11	5.53	
5,600.0	1.01	56.45	5,597.0	96.9	62.3	-57.5	0.11	0.11	1.52	
5,700.0	1.08	51.07	5,697.0	98.0	63.7	-58.9	0.12	0.07	-5.38	
5,800.0	1.15	43.68	5,797.0	99.3	65.2	-60.3	0.16	0.07	-7.39	
5,900.0	1.02	11.69	5,897.0	100.9	66.0	-61.1	0.61	-0.13	-31.99	
6,000.0	0.89	339.70	5,997.0	102.5	65.9	-60.9	0.54	-0.13	-31.99	
6,100.0	0.67	300.77	6,097.0	103.5	65.2	-60.1	0.56	-0.22	-38.93	
6,200.0	0.46	221.83	6,197.0	103.5	64.4	-59.3	0.74	-0.21	-78.94	
6,300.0	0.35	194.26	6,297.0	102.9	64.1	-59.0	0.22	-0.11	-27.57	
6,400.0	0.24	328.68	6,397.0	102.8	63.9	-58.8	0.55	-0.11	134.42	
6,500.0	1.11	23.70	6,497.0	103.9	64.2	-59.0	0.99	0.87	55.02	
6,600.0	1.98	40.71	6,596.9	106.1	65.7	-60.5	0.97	0.87	17.01	
6,700.0	1.82	69.64	6,696.9	107.9	68.3	-63.0	0.96	-0.16	28.93	
6,800.0	1.65	100.57	6,796.8	108.2	71.2	-65.9	0.94	-0.17	30.93	
6,900.0	1.21	129.31	6,896.8	107.3	73.4	-68.1	0.83	-0.44	28.74	
7,000.0	0.76	78.04	6,996.8	106.7	74.9	-69.6	0.94	-0.45	-51.27	
7,100.0	0.52	101.47	7,096.8	106.8	76.0	-70.7	0.35	-0.24	23.43	
7,200.0	0.27	134.89	7,196.8	106.5	76.6	-71.3	0.33	-0.25	33.42	
7,225.0	0.41	137.50	7,221.8	106.4	76.7	-71.4	0.56	0.56	10.44	
TIE INTO OH @ 7268' MD / 7265' TVD										
7,268.0	0.80	46.80	7,264.8	106.5	77.0	-71.8	2.10	0.91	-210.93	
7,332.0	0.80	131.90	7,328.8	106.5	77.7	-72.4	1.69	0.00	132.97	
7,363.0	1.30	150.50	7,359.8	106.1	78.0	-72.8	1.93	1.61	60.00	
7,395.0	2.00	226.40	7,391.7	105.4	77.8	-72.6	6.57	2.19	237.19	
7,427.0	6.10	256.90	7,423.7	104.6	75.7	-70.6	14.04	12.81	95.31	
7,458.0	10.60	262.00	7,454.3	103.8	71.3	-66.2	14.70	14.52	16.45	
7,489.0	15.60	266.20	7,484.5	103.2	64.3	-59.2	16.41	16.13	13.55	
7,520.0	19.40	269.00	7,514.1	102.8	55.0	-50.0	12.55	12.26	9.03	
7,552.0	23.60	270.90	7,543.8	102.8	43.3	-38.2	13.30	13.13	5.94	
7,583.0	26.60	270.20	7,571.9	102.9	30.1	-25.1	9.72	9.68	-2.26	
7,614.0	29.60	270.20	7,599.3	103.0	15.5	-10.5	9.68	9.68	0.00	
7,646.0	32.30	270.40	7,626.7	103.1	-0.9	5.9	8.44	8.44	0.63	
7,677.0	33.70	269.90	7,652.7	103.1	-17.8	22.8	4.60	4.52	-1.61	
7,709.0	36.10	271.80	7,678.9	103.4	-36.1	41.1	8.23	7.50	5.94	
7,740.0	37.90	273.90	7,703.7	104.3	-54.7	59.7	7.09	5.81	6.77	
7,772.0	39.80	273.90	7,728.6	105.7	-74.8	79.8	5.94	5.94	0.00	
7,803.0	43.20	273.20	7,751.8	106.9	-95.3	100.3	11.07	10.97	-2.26	
7,835.0	46.10	273.40	7,774.6	108.2	-117.7	122.8	9.07	9.06	0.63	
7,866.0	48.30	272.90	7,795.7	109.5	-140.4	145.6	7.19	7.10	-1.61	
7,898.0	50.90	272.00	7,816.4	110.5	-164.8	169.9	8.40	8.13	-2.81	
CROSSED HARD LINE @ 7918' MD / 7829' TVD										

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Henry 8 IL Federal Com #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3294.0usft (Patterson #444)
Site:	Sec 8, T20S R29E	MD Reference:	WELL @ 3294.0usft (Patterson #444)
Well:	Henry 8 IL Federal Com #1H	North Reference:	Grid
Wellbore:	Side-Track #1	Survey Calculation Method:	Minimum Curvature
Design:	Side-Track #1	Database:	EDM 5000.1 Single User Db

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)
7,917.6	52.80	271.87	7,828.5	111.0	-180.2	185.3	9.69	9.68	-0.65
7,929.0	53.90	271.80	7,835.3	111.3	-189.3	194.5	9.69	9.68	-0.63
7,960.0	57.60	272.30	7,852.7	112.3	-214.9	220.1	12.01	11.94	1.61
7,992.0	59.90	272.70	7,869.3	113.5	-242.2	247.5	7.27	7.19	1.25
8,023.0	62.70	272.50	7,884.2	114.7	-269.4	274.7	9.05	9.03	-0.65
8,055.0	65.90	272.30	7,898.1	115.9	-298.2	303.5	10.02	10.00	-0.63
8,086.0	70.10	272.70	7,909.7	117.1	-326.9	332.2	13.60	13.55	1.29
8,118.0	72.60	273.00	7,919.9	118.7	-357.2	362.5	7.86	7.81	0.94
8,149.0	74.50	272.50	7,928.7	120.1	-386.9	392.3	6.32	6.13	-1.61
8,183.0	77.20	271.50	7,937.0	121.2	-419.8	425.2	8.44	7.94	-2.94
8,212.0	79.80	271.30	7,942.8	121.9	-448.2	453.6	8.99	8.97	-0.69
8,243.0	83.00	271.60	7,947.5	122.7	-478.9	484.3	10.37	10.32	0.97
8,275.0	86.50	272.00	7,950.4	123.7	-510.7	516.1	11.01	10.94	1.25
8,358.0	91.50	273.00	7,951.8	127.3	-593.6	599.1	6.14	6.02	1.20
8,390.0	91.80	272.80	7,950.9	128.9	-625.6	631.1	1.13	0.94	-0.63
8,421.0	91.80	272.80	7,949.9	130.5	-656.5	662.1	0.00	0.00	0.00
8,515.0	93.50	272.00	7,945.6	134.4	-750.3	756.0	2.00	1.81	-0.85
8,610.0	91.60	271.30	7,941.4	137.1	-845.2	850.8	2.13	-2.00	-0.74
8,705.0	90.80	270.90	7,939.4	138.9	-940.1	945.8	0.94	-0.84	-0.42
8,800.0	91.90	269.10	7,937.1	138.9	-1,035.1	1,040.6	2.22	1.16	-1.89
8,894.0	90.00	271.30	7,935.6	139.3	-1,129.1	1,134.5	3.09	-2.02	2.34
8,989.0	92.10	271.10	7,933.8	141.3	-1,224.0	1,229.5	2.22	2.21	-0.21
9,084.0	90.80	272.00	7,931.4	143.8	-1,319.0	1,324.4	1.66	-1.37	0.95
9,178.0	92.90	272.80	7,928.4	147.8	-1,412.8	1,418.3	2.39	2.23	0.85
9,273.0	91.20	273.50	7,925.0	153.0	-1,507.6	1,513.3	1.94	-1.79	0.74
9,368.0	89.10	273.90	7,924.7	159.1	-1,602.4	1,608.3	2.25	-2.21	0.42
9,463.0	90.60	273.90	7,925.0	165.6	-1,697.2	1,703.2	1.58	1.58	0.00
9,558.0	92.40	274.60	7,922.5	172.6	-1,791.9	1,798.2	2.03	1.89	0.74
9,652.0	90.10	272.70	7,920.5	178.6	-1,885.7	1,892.1	3.17	-2.45	-2.02
9,748.0	91.50	272.50	7,919.1	182.9	-1,981.6	1,988.1	1.47	1.46	-0.21
9,842.0	90.40	273.40	7,917.6	187.8	-2,075.4	2,082.1	1.51	-1.17	0.96
9,937.0	91.90	273.70	7,915.7	193.7	-2,170.2	2,177.1	1.61	1.58	0.32
10,032.0	91.50	272.30	7,912.8	198.6	-2,265.1	2,272.0	1.53	-0.42	-1.47
10,127.0	93.60	272.00	7,908.6	202.2	-2,359.9	2,366.9	2.23	2.21	-0.32
10,222.0	92.40	272.00	7,903.6	205.5	-2,454.7	2,461.8	1.26	-1.26	0.00
10,316.0	90.80	271.40	7,901.0	208.3	-2,548.6	2,555.7	1.82	-1.70	-0.64
10,411.0	91.80	270.90	7,898.9	210.2	-2,643.6	2,650.7	1.18	1.05	-0.53
10,506.0	92.80	270.50	7,895.0	211.4	-2,738.5	2,745.5	1.13	1.05	-0.42
10,601.0	90.70	270.70	7,892.1	212.3	-2,833.4	2,840.4	2.22	-2.21	0.21
10,696.0	90.10	270.10	7,891.5	213.0	-2,928.4	2,935.3	0.89	-0.63	-0.63
10,791.0	91.30	271.30	7,890.3	214.2	-3,023.4	3,030.2	1.79	1.26	1.26
10,885.0	90.80	271.40	7,888.6	216.4	-3,117.4	3,124.2	0.54	-0.53	0.11
10,980.0	92.20	271.10	7,886.1	218.5	-3,212.3	3,219.1	1.51	1.47	-0.32

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Henry 81L Federal Com #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3294.0usft (Patterson #444)
Site:	Sec 8 T20S R29E	MD Reference:	WELL @ 3294.0usft (Patterson #444)
Well:	Henry 81L Federal Com #1H	North Reference:	Grid
Wellbore:	Side Track #1	Survey Calculation Method:	Minimum Curvature
Design:	Side Track #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)	
11,075.0	91.80	271.80	7,882.8	220.9	-3,307.2	3,314.0	0.85	-0.42	0.74	
11,169.0	93.30	272.50	7,878.6	224.4	-3,401.1	3,407.9	1.76	1.60	0.74	
11,264.0	93.10	273.00	7,873.3	228.9	-3,495.8	3,502.8	0.57	-0.21	0.53	
11,359.0	92.70	272.80	7,868.5	233.7	-3,590.6	3,597.7	0.47	-0.42	-0.21	
11,453.0	91.30	273.00	7,865.2	238.5	-3,684.4	3,691.6	1.50	-1.49	0.21	
11,548.0	90.00	273.00	7,864.1	243.5	-3,779.2	3,786.6	1.37	-1.37	0.00	
11,643.0	92.30	272.80	7,862.2	248.3	-3,874.1	3,881.6	2.43	2.42	-0.21	
11,738.0	91.40	274.30	7,859.2	254.1	-3,968.9	3,976.5	1.84	-0.95	1.58	
11,801.0	90.80	274.10	7,858.0	258.8	-4,031.7	4,039.5	1.00	-0.95	-0.32	
11,864.0	88.60	273.40	7,858.3	262.9	-4,094.5	4,102.5	3.66	-3.49	-1.11	
11,927.0	87.30	273.70	7,860.5	266.8	-4,157.4	4,165.4	2.12	-2.06	0.48	
11,991.0	86.80	273.90	7,863.8	271.0	-4,221.1	4,229.3	0.84	-0.78	0.31	
12,054.0	87.70	271.80	7,866.9	274.1	-4,284.0	4,292.2	3.62	1.43	-3.33	
12,117.0	88.70	270.70	7,868.8	275.5	-4,346.9	4,355.2	2.36	1.59	-1.75	
12,180.0	90.00	269.90	7,869.6	275.8	-4,409.9	4,418.1	2.42	2.06	-1.27	
12,244.0	89.90	270.40	7,869.6	276.0	-4,473.9	4,482.1	0.80	-0.16	0.78	
12,307.0	90.10	270.40	7,869.6	276.5	-4,536.9	4,545.0	0.32	0.32	0.00	
12,370.0	88.40	270.90	7,870.4	277.2	-4,599.9	4,608.0	2.81	-2.70	0.79	
12,433.0	88.10	270.50	7,872.4	277.9	-4,662.9	4,670.9	0.79	-0.48	-0.63	
12,496.0	88.00	269.90	7,874.5	278.2	-4,725.8	4,733.8	0.96	-0.16	-0.95	
12,527.0	88.20	269.10	7,875.5	277.9	-4,756.8	4,764.7	2.66	0.65	-2.58	
TD @ 12577' MD//7877' TVD										
12,577.0	88.20	269.10	7,877.1	277.1	-4,806.8	4,814.6	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
7,268.0	7,264.8	106.5	77.0	TIE INTO OH @ 7268' MD / 7265' TVD	
7,917.6	7,828.5	111.0	-180.2	CROSSED HARD LINE @ 7918' MD / 7829' TVD	
12,577.0	7,877.1	277.1	-4,806.8	TD @ 12577' MD / 7877' TVD	

Checked By: _____	Approved By: _____	Date: _____
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Operating Company Mewbourne Oil Co.
 Well Name & Number # 1H
 Sales Ticket Number 6053109
 Date 12/31/2013

Company Rep Ray/Butch
 Field Henry 8 IL FED
 BOT Service Rep Dustin Butler
 District Location Odessa, TX

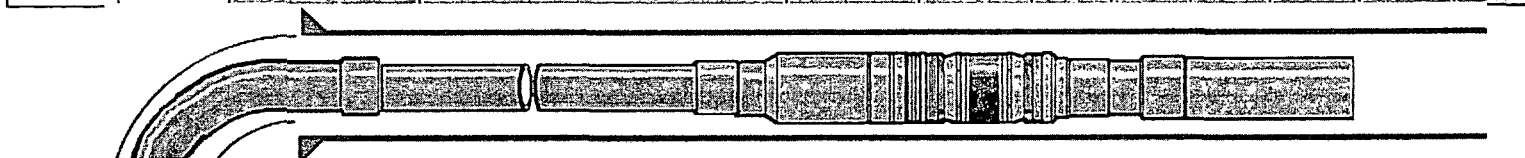


	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse
Casing	7.000	26.00	110000	6.276	6.151	LTC/8RD	0.03826	8,327.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,486.10	12,410	10,680
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-

TVD	7875.00	KOP	7330.00	Open Hole	6.125	Casing Vol. (bbl)	308.1
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Carry Fluid Weight (ppg)	8.4	Propant 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)
Liner Top	1	JR Setting Sleeve RH Profile	8051.90	4.00	5.750	4.000				



Zone	Length									
		S-3 Liner top packer	8055.90	4.64	5.813	3.875				
		4 1/2 13.50 # LTC nipple	8060.54	8.08	4.500	3.920				
	8 joints	4 1/2 13.50# P-110 LTC Casing	8068.62	319.97	4.500	3.920				
		3.625" BS Sleeve (Zone 20)	8388.59	2.40	5.750		3.562	2286		
	3 jnts	4 1/2 13.50# P-110 LTC Casing	8390.99	118.96	4.500	3.920				
		582 OH pkr #19	8509.95	3.89	5.820	3.875		2154		
	3 jnts	4 1/2 13.50# P-110 LTC Casing	8513.84	120.63	4.500	3.920				
		3.50" BS Sleeve (Zone 19)	8634.47	2.40	5.750		3.400	2286		
	3 jnts	4 1/2 13.50# P-110 LTC Casing	8636.87	120.25	4.500	3.920				
		582 OH pkr #18	8757.12	3.89	5.820	3.875		2154		
	2 jnts	4 1/2 13.50# P-110 LTC Casing	8761.01	78.09	4.500	3.920				
		3.375" BS Sleeve (Zone 18)	8839.10	2.40	5.750		3.275	2286		
	3 jnts	4 1/2 13.50# P-110 LTC Casing	8841.50	118.33	4.500	3.920				
		582 OH pkr #17	8959.83	3.89	5.820	3.875		2154		
	2 jnts	4 1/2 13.50# P-110 LTC Casing	8963.72	81.47	4.500	3.920				
		3.25" BS Sleeve (Zone 17)	9045.19	2.40	5.750		3.150	2286		
	3 jnts	4 1/2 13.50# P-110 LTC Casing	9047.59	119.85	4.500	3.920				
		582 OH pkr #16	9167.44	3.89	5.820	3.875		2154		
	3 jnts	4 1/2 13.50# P-110 LTC Casing	9171.33	118.75	4.500	3.920				
		3.125" BS Sleeve (Zone 16)	9290.08	2.40	5.750		3.025	2286		
	3 jnts	4 1/2 13.50# P-110 LTC Casing	9292.48	118.14	4.500	3.920				
		582 OH pkr #15	9410.62	3.89	5.820	3.875		2154		

Operating Company Mewbourne Oil Co.
Well Name & Number # 1H
Sales Ticket Number 6053109
Date 12/31/2013

Company Rep Ray/Butch
Field Henry 8 IL FED
BOT Service Rep Dustin Butler
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse		
Casing	7.000	26.00	110000	6.276	6.151	LTC//8RD	0.03826	8,327.00	9,960	6,230		
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,486.10	12,410	10,680		
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-		
TVD		7875.00		KOP		7330.00		Open Hole		6.125	Casing Vol. (bbl)	308.1
Carry Fluid Weight (ppg)			8.4		Propant Content (ppa)						Max Drill Out Size	0

	Comm. Number	Description	Depth	Length	OD	ID	Ball Seat ID	Shear Press	Max Rate (BPM)	Displ (BBL)
	2 jnts	41/2 13.50# P-110 LTC Casing	9414.51	79.47	4.500	3.920				
		3.00" BS Sleeve (Zone 15)	9493.98	2.40	5.750		2.900	2286		
	3 jnts	41/2 13.50# P-110 LTC Casing	9496.38	121.16	4.500	3.920				
		582 OH pkr #14	9617.54	3.89	5.820	3.875		2154		
	3 jnts	41/2 13.50# P-110 LTC Casing	9621.43	118.96	4.500	3.920				
		2.875" BS Sleeve (Zone 14)	9740.39	2.40	5.750		2.775	2286		
	3 jnts	41/2 13.50# P-110 LTC Casing	9742.79	120.24	4.500	3.920				
		582 OH pkr #13	9863.03	3.89	5.820	3.875		2154		
	3 jnts	41/2 13.50# P-110 LTC Casing	9866.92	118.68	4.500	3.920				
		2.75" BS Sleeve (Zone 13)	9985.60	2.40	5.750		2.650	2286		
	3 jnts	41/2 13.50# P-110 LTC Casing	9988.00	118.97	4.500	3.920				
		582 OH pkr #12	10106.97	3.89	5.820	3.875		2154		
	2 jnts	41/2 13.50# P-110 LTC Casing	10110.86	78.71	4.500	3.920				
		2.625" BS Sleeve (Zone 12)	10189.57	2.40	5.750		2.525	2286		
	3 jnts	41/2 13.50# P-110 LTC Casing	10191.97	119.94	4.500	3.920				
		582 OH pkr #11	10311.91	3.89	5.820	3.875		2154		
	3 jnts	41/2 13.50# P-110 LTC Casing	10315.80	120.27	4.500	3.920				
		2.50" BS Sleeve (Zone 11)	10436.07	2.40	5.750		2.400	2286		
	3 jnts	41/2 13.50# P-110 LTC Casing	10438.47	117.89	4.500	3.920				
		582 OH pkr #10	10556.36	3.89	5.820	3.875		2154		
	2 jnts	41/2 13.50# P-110 LTC Casing	10560.25	78.79	4.500	3.920				
		2.375" BS Sleeve (Zone 10)	10639.04	2.40	5.750		2.275	2286		
	3 jnts	41/2 13.50# P-110 LTC Casing	10641.44	120.92	4.500	3.920				
		582 OH pkr #9	10762.36	3.89	5.820	3.875		2154		
	3 jnts	41/2 13.50# P-110 LTC Casing	10766.25	119.36	4.500	3.920				
		2.25" BS Sleeve (Zone 9)	10885.61	2.40	5.750		2.150	2286		

Operating Company Mewbourne Oil Co.
Well Name & Number # 1H
Sales Ticket Number 6053109
Date 12/31/2013

Company Rep Ray/Butch
Field Henry 8 IL FED
BOT Service Rep Dustin Butler
District Location Odessa, TX



	Size	Weight	Grade	ID	Drift	Thread	Capacity	Length	Burst	Collapse	
Casing	7.000	26.00	110000	6.276	6.151	LTC 7.8RD	0.03826	8,327.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	4,486.10	12,410	10,680	
Bott Liner	0.000	0.00	0	0.000	0.000	0	0.00000	-	-	-	
TVD	7875.00		KOP		7330.00		Open Hole		6.125	Casing Vol. (bbl)	308.1

Carry Fluid Weight (ppg)	8.4	Propant 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)
3 jnts	41/2 13.50# P-110 LTC Casing	10888.01	118.94	4.500	3.920				
	582 OH pkr #8	11006.95	3.89	5.820	3.875		2154		
3 jnts	41/2 13.50# P-110 LTC Casing	11010.84	118.68	4.500	3.920				
	2.125" BS Sleeve (Zone 8)	11129.52	2.40	5.750		2.025	2286		
3 jnts	41/2 13.50# P-110 LTC Casing	11131.92	118.61	4.500	3.920				
	582 OH pkr #7	11250.53	3.89	5.820	3.875		2154		
2 jnts	41/2 13.50# P-110 LTC Casing	11254.42	79.39	4.500	3.920				
	2.00" BS Sleeve (Zone 7)	11333.81	2.40	5.750		1.900	2286		
3 jnts	41/2 13.50# P-110 LTC Casing	11336.21	118.49	4.500	3.920				
	582 OH pkr #6	11454.70	3.89	5.820	3.875		2154		
3 jnts	41/2 13.50# P-110 LTC Casing	11458.59	118.22	4.500	3.920				
	1.875" BS Sleeve (Zone 6)	11576.81	2.40	5.750		1.775	2286		
3 jnts	41/2 13.50# P-110 LTC Casing	11579.21	119.64	4.500	3.920				
	582 OH pkr #5	11698.85	3.89	5.820	3.875		2154		
2 jnts	41/2 13.50# P-110 LTC Casing	11702.74	79.74	4.500	3.920				
	1.75" BS Sleeve (Zone 5)	11782.48	2.40	5.750		1.650	2286		
3 jnts	41/2 13.50# P-110 LTC Casing	11784.88	120.00	4.500	3.920				
	582 OH pkr #4	11904.88	3.89	5.820	3.875		2154		
2 jnts	41/2 13.50# P-110 LTC Casing	11908.77	80.15	4.500	3.920				
	1.625" BS Sleeve (Zone 4)	11988.92	2.40	5.750		1.525	2286		
2 jnts	41/2 13.50# P-110 LTC Casing	11991.32	81.12	4.500	3.920				
	582 OH pkr #3	12072.44	3.89	5.820	3.875		2154		
2 jnts	41/2 13.50# P-110 LTC Casing	12076.33	78.44	4.500	3.920				
	1.50" DB BS Sleeve (Zone 3)	12154.77	2.40	5.750		1.400	2286		
3 jnts	41/2 13.50# P-110 LTC Casing	12157.17	122.84	4.500	3.920				
	582 OH pkr #2	12280.01	3.89	5.820	3.875		2154		

Company Rep	Ray/Butch
Field	Henry 8 IL FED
BOT Service Rep	Dustin Butler
District Location	Odessa, TX



Carry Fluid Weight (ppg)	8.4	Propant Content (ppa)		Max Drill Out Size	0
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