

OPERATOR
WELL/LEASE
COUNTY

MEWBOURNE OIL COMPANY
DORADO 34 FED COM 1H
EDDY

046-0081

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-38984

236	0.48
590	1.22
745	1.05
895	0.91
1,244	0.70
1,599	1.40
1,852	0.97
2,061	0.96
2,315	1.45
2,823	0.91
3,234	0.45
3,612	0.07
3,993	0.85
4,310	0.45
4,690	0.69
5,008	1.26
5,389	1.00
5,706	0.76
6,023	1.39
6,378	1.22
6,750	0.95
7,106	1.11
7,453	1.14



BY:

Steve Moore

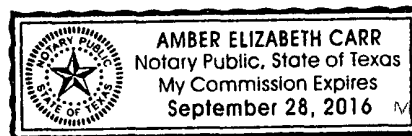
STATE OF TEXAS

COUNTY OF MIDLAND

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

10/15/2012, by

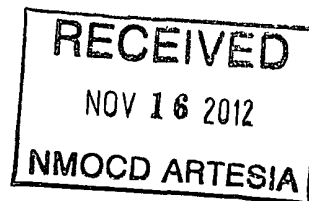
Amber Elizabeth Carr
Notary Public for Midland County, Texas
My Commission Expires:



Received

OCT 26 2012

Mewbourne Oil Company
Hobbs



Mewbourne Oil Co

Eddy County, New Mexico

Sec 34-18S-30E

Dorado 34 Fed Com #1H

Wellbore #1

Survey: MWD

DDC Survey Report

01 October, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Dorado 34 Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3455.0usft (Patterson-UTI #46)
Site:	Sec 34-18S-30E	MD Reference:	WELL @ 3455.0usft (Patterson-UTI #46)
Well:	Dorado 34 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 34-18S-30E			
Site Position:		Northing:	619,173.32 usft	Latitude:	32° 42' 5.860 N
From:	Map	Easting:	617,078.21 usft	Longitude:	103° 57' 9.827 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.21 °

Well:	Dorado 34 Fed Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	619,173.32 usft	Latitude:	32° 42' 5.860 N
	+E/-W	0.0 usft	Easting:	617,078.21 usft	Longitude:	103° 57' 9.827 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,435.0 usft	

Wellbore #1				
Magnetics				
Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
IGRF2010	9/14/2012	7.64	60.53	48,737

Design: Wellbore #1				
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	296.81

Survey Program:		Date: 10/1/2012		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,875.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,936.0	12,540.0	MWD (Wellbore #1)	MWD default	MWD - Standard

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
TIE IN @ 7875' MD / 7874' TVD									
7,875.0	1.06	236.86	7,873.6	48.8	-96.5	108.1	0.00	0.00	0.00
7,936.0	0.90	266.30	7,934.6	48.4	-97.4	108.8	0.85	-0.26	48.26
7,967.0	0.80	256.20	7,965.6	48.4	-97.9	109.2	0.58	-0.32	-32.58
7,999.0	0.80	258.30	7,997.6	48.3	-98.3	109.5	0.09	0.00	6.56
8,031.0	0.60	265.00	8,029.6	48.2	-98.7	109.8	0.67	-0.63	20.94
8,062.0	3.00	269.50	8,060.6	48.2	-99.7	110.7	7.75	7.74	14.52
8,094.0	6.80	269.80	8,092.4	48.2	-102.4	113.1	11.88	11.88	0.94
8,126.0	10.40	272.30	8,124.1	48.3	-107.2	117.4	11.31	11.25	7.81
8,158.0	13.10	272.30	8,155.4	48.5	-113.7	123.4	8.44	8.44	0.00

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Site:	Sec 34-18S-30E	MD Reference:	WELL @ 3455.0usft (Patterson-UTI #46)
Well:	Dorado 34 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)	
8,190.0	17.00	271.90	8,186.3	48.8	-122.0	130.9	12.19	12.19	-1.25	
8,221.0	20.60	271.30	8,215.6	49.1	-132.0	140.0	11.63	11.61	-1.94	
8,253.0	24.60	270.20	8,245.2	49.3	-144.3	151.0	12.57	12.50	-3.44	
8,285.0	28.60	269.40	8,273.8	49.2	-158.6	163.8	12.55	12.50	-2.50	
8,317.0	32.10	268.20	8,301.4	48.9	-174.8	178.0	11.10	10.94	-3.75	
8,349.0	35.90	268.00	8,327.9	48.3	-192.7	193.7	11.88	11.88	-0.63	
8,380.0	39.80	268.40	8,352.4	47.7	-211.7	210.4	12.61	12.58	1.29	
8,412.0	43.50	268.60	8,376.3	47.1	-232.9	229.1	11.57	11.56	0.63	
8,444.0	47.50	268.50	8,398.7	46.5	-255.7	249.2	12.50	12.50	-0.31	
8,475.0	51.80	267.90	8,418.8	45.8	-279.3	270.0	13.95	13.87	-1.94	
8,506.0	56.00	267.90	8,437.1	44.9	-304.4	291.9	13.55	13.55	0.00	
8,538.0	60.10	267.90	8,454.0	43.9	-331.5	315.6	12.81	12.81	0.00	
8,570.0	64.40	268.10	8,468.9	42.9	-359.8	340.4	13.45	13.44	0.63	
8,602.0	69.30	268.60	8,481.5	42.0	-389.2	366.3	15.38	15.31	1.56	
8,633.0	74.10	268.60	8,491.2	41.3	-418.6	392.2	15.48	15.48	0.00	
8,665.0	78.40	268.90	8,498.8	40.6	-449.7	419.7	13.47	13.44	0.94	
8,697.0	81.90	269.10	8,504.3	40.1	-481.2	447.5	10.95	10.94	0.63	
8,729.0	85.90	268.90	8,507.7	39.5	-513.0	475.7	12.52	12.50	-0.63	
8,745.0	87.80	269.20	8,508.5	39.3	-529.0	489.8	12.02	11.88	1.88	
8,830.0	90.70	268.60	8,509.7	37.6	-613.9	564.9	3.48	3.41	-0.71	
8,862.0	90.90	268.10	8,509.2	36.7	-645.9	593.0	1.68	0.63	-1.56	
8,893.0	90.90	267.90	8,508.7	35.6	-676.9	620.2	0.65	0.00	-0.65	
8,925.0	91.10	267.60	8,508.2	34.4	-708.9	648.2	1.13	0.63	-0.94	
8,956.0	91.30	268.70	8,507.5	33.4	-739.8	675.4	3.61	0.65	3.55	
9,020.0	91.70	268.70	8,505.8	31.9	-803.8	731.8	0.63	0.63	0.00	
9,083.0	91.00	268.30	8,504.4	30.3	-866.8	787.2	1.28	-1.11	-0.63	
9,146.0	90.70	269.30	8,503.4	29.0	-929.7	842.8	1.66	-0.48	1.59	
9,210.0	90.70	269.30	8,502.6	28.2	-993.7	899.6	0.00	0.00	0.00	
9,273.0	91.00	269.10	8,501.7	27.3	-1,056.7	955.4	0.57	0.48	-0.32	
9,337.0	91.50	269.30	8,500.3	26.4	-1,120.7	1,012.1	0.84	0.78	0.31	
9,400.0	92.10	269.10	8,498.3	25.5	-1,183.7	1,067.9	1.00	0.95	-0.32	
9,463.0	92.70	268.90	8,495.7	24.4	-1,246.6	1,123.6	1.00	0.95	-0.32	
9,527.0	91.60	269.00	8,493.3	23.3	-1,310.5	1,180.1	1.73	-1.72	0.16	
9,590.0	91.70	269.10	8,491.5	22.2	-1,373.5	1,235.9	0.22	0.16	0.16	
9,653.0	91.70	268.80	8,489.6	21.1	-1,436.5	1,291.5	0.48	0.00	-0.48	
9,717.0	91.70	268.60	8,487.7	19.6	-1,500.4	1,347.9	0.31	0.00	-0.31	
9,780.0	92.00	268.50	8,485.7	18.0	-1,563.4	1,403.4	0.50	0.48	-0.16	
9,843.0	91.80	269.40	8,483.6	16.9	-1,626.3	1,459.1	1.46	-0.32	1.43	
9,907.0	92.20	269.70	8,481.4	16.4	-1,690.3	1,515.9	0.78	0.63	0.47	
9,970.0	91.50	269.20	8,479.3	15.8	-1,753.2	1,571.9	1.37	-1.11	-0.79	
10,034.0	91.50	268.00	8,477.6	14.2	-1,817.2	1,628.2	1.87	0.00	-1.88	
10,097.0	91.80	269.40	8,475.8	12.8	-1,880.2	1,683.8	2.27	0.48	2.22	
10,160.0	92.20	269.30	8,473.6	12.1	-1,943.1	1,739.6	0.65	0.63	-0.16	

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Well:	Dorado 34 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)	
10,223.0	91.30	269.00	8,471.7	11.1	-2,006.1	1,795.4	1.51	-1.43	-0.48	
10,286.0	91.40	268.60	8,470.2	9.8	-2,069.1	1,851.0	0.65	0.16	-0.63	
10,350.0	91.00	269.40	8,468.9	8.7	-2,133.0	1,907.6	1.40	-0.63	1.25	
10,412.0	91.10	269.00	8,467.7	7.8	-2,195.0	1,962.5	0.66	0.16	-0.65	
10,476.0	90.80	270.00	8,466.7	7.3	-2,259.0	2,019.4	1.63	-0.47	1.56	
10,540.0	90.50	270.10	8,466.0	7.3	-2,323.0	2,076.5	0.49	-0.47	0.16	
10,603.0	90.60	270.00	8,465.4	7.4	-2,386.0	2,132.8	0.22	0.16	-0.16	
10,668.0	90.70	269.50	8,464.6	7.1	-2,451.0	2,190.7	0.78	0.15	-0.77	
10,731.0	91.00	268.90	8,463.7	6.2	-2,514.0	2,246.5	1.06	0.48	-0.95	
10,795.0	91.10	269.40	8,462.5	5.3	-2,578.0	2,303.1	0.80	0.16	0.78	
10,858.0	92.50	269.00	8,460.5	4.4	-2,640.9	2,358.9	2.31	2.22	-0.63	
10,921.0	92.80	268.60	8,457.6	3.1	-2,703.8	2,414.5	0.79	0.48	-0.63	
10,984.0	93.00	268.00	8,454.4	1.2	-2,766.7	2,469.8	1.00	0.32	-0.95	
11,048.0	92.80	268.90	8,451.2	-0.5	-2,830.6	2,526.0	1.44	-0.31	1.41	
11,111.0	93.10	268.80	8,447.9	-1.8	-2,893.5	2,581.6	0.50	0.48	-0.16	
11,174.0	92.80	269.90	8,444.7	-2.5	-2,956.4	2,637.4	1.81	-0.48	1.75	
11,237.0	91.30	270.60	8,442.5	-2.2	-3,019.4	2,693.7	2.63	-2.38	1.11	
11,300.0	91.30	270.70	8,441.0	-1.5	-3,082.4	2,750.3	0.16	0.00	0.16	
11,364.0	91.50	270.70	8,439.5	-0.7	-3,146.3	2,807.7	0.31	0.31	0.00	
11,427.0	91.90	270.80	8,437.6	0.1	-3,209.3	2,864.3	0.65	0.63	0.16	
11,490.0	92.50	270.50	8,435.2	0.8	-3,272.3	2,920.8	1.06	0.95	-0.48	
11,553.0	92.10	269.80	8,432.6	1.0	-3,335.2	2,977.0	1.28	-0.63	-1.11	
11,616.0	92.40	269.20	8,430.2	0.4	-3,398.2	3,033.0	1.06	0.48	-0.95	
11,679.0	91.80	269.70	8,427.9	-0.2	-3,461.1	3,088.9	1.24	-0.95	0.79	
11,743.0	91.80	269.70	8,425.9	-0.5	-3,525.1	3,145.8	0.00	0.00	0.00	
11,806.0	92.00	269.50	8,423.8	-1.0	-3,588.0	3,201.8	0.45	0.32	-0.32	
11,869.0	92.10	269.00	8,421.5	-1.8	-3,651.0	3,257.6	0.81	0.16	-0.79	
11,933.0	91.10	269.40	8,419.7	-2.7	-3,715.0	3,314.3	1.68	-1.56	0.63	
11,996.0	90.30	268.70	8,419.0	-3.7	-3,778.0	3,370.1	1.69	-1.27	-1.11	
12,060.0	90.00	268.00	8,418.8	-5.6	-3,841.9	3,426.3	1.19	-0.47	-1.09	
12,123.0	89.80	267.20	8,418.9	-8.2	-3,904.9	3,481.3	1.31	-0.32	-1.27	
12,186.0	90.90	267.20	8,418.5	-11.3	-3,967.8	3,536.1	1.75	1.75	0.00	
12,249.0	90.70	269.20	8,417.6	-13.3	-4,030.8	3,591.4	3.19	-0.32	3.17	
12,313.0	91.80	269.40	8,416.2	-14.0	-4,094.7	3,648.1	1.75	1.72	0.31	
12,375.0	91.80	269.30	8,414.3	-14.7	-4,156.7	3,703.1	0.16	0.00	-0.16	
12,438.0	91.40	268.50	8,412.5	-16.0	-4,219.7	3,758.8	1.42	-0.63	-1.27	
12,488.0	91.00	267.70	8,411.5	-17.6	-4,269.6	3,802.6	1.79	-0.80	-1.60	
TD @ 12540' MD / 8411' TVD										
12,540.0	91.00	267.70	8,410.6	-19.7	-4,321.6	3,848.0	0.00	0.00	0.00	

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Well:	Dorado 34 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 Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N-S (usft)	+E-W (usft)			
7,875.0	7,873.6	48.8	-96.5	TIE IN @ 7875' MD / 7874' TVD
12,540.0	8,410.6	-19.7	-4,321.6	TD @ 12540' MD / 8411' TVD

Checked By: _____	Approved By: _____	Date: _____
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Company: Mewbourne Oil Company
Lease/Well: Dorado 34 Federal Com / No. 001H
Location: S34 T18S R30E
Rig Name: Patterson 46
State/County: New Mexico / Eddy
Latitude: 32.70, Longitude: -103.85
GRID North is 0.26 Degrees East of True North
VS-Azi: 0.00 Degrees



RKB : 20.5'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: final survey.ut

Minimum Curvature Method

Report Date/Time: 9/26/2012 / 10:19

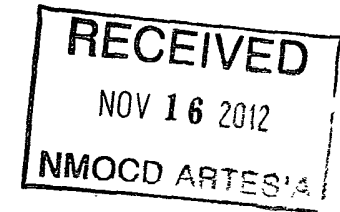
Vaughn Energy Services

Gardendale, Texas

817-741-3610

Surveyor: Ray Seago

Dorado 34 Federal Com No. 001H / API 30-015-38984



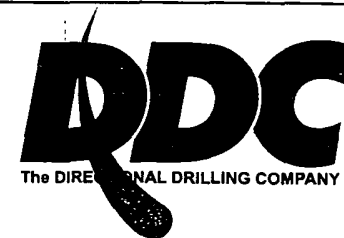
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.18	88.07	100.00	0.01	0.16	0.01	0.16	88.07	0.18
200.00	0.36	176.15	200.00	-0.30	0.33	-0.30	0.45	132.11	0.40
300.00	0.57	227.83	300.00	-0.95	-0.01	-0.95	0.95	180.79	0.45
400.00	0.78	279.52	399.99	-1.17	-1.05	-1.17	1.58	221.99	0.62
500.00	0.90	267.92	499.98	-1.09	-2.51	-1.09	2.74	246.61	0.21
600.00	1.02	256.33	599.97	-1.33	-4.17	-1.33	4.37	252.34	0.23
700.00	0.93	256.87	699.95	-1.72	-5.83	-1.72	6.07	253.53	0.09
800.00	0.84	257.41	799.94	-2.07	-7.34	-2.07	7.62	254.26	0.09
900.00	0.83	263.74	899.93	-2.31	-8.78	-2.31	9.08	255.27	0.09
1000.00	0.82	270.06	999.92	-2.39	-10.22	-2.39	10.50	256.86	0.09
1100.00	0.78	275.98	1099.91	-2.32	-11.61	-2.32	11.84	258.73	0.10
1200.00	0.73	281.90	1199.90	-2.11	-12.91	-2.11	13.08	260.70	0.09
1300.00	0.70	302.76	1299.89	-1.65	-14.04	-1.65	14.14	263.29	0.26
1400.00	0.67	323.62	1399.88	-0.85	-14.90	-0.85	14.93	266.73	0.25
1500.00	0.89	1.19	1499.88	0.40	-15.24	0.40	15.24	271.49	0.54
1600.00	1.11	38.77	1599.86	1.92	-14.62	1.92	14.74	277.50	0.67
1700.00	0.90	39.50	1699.85	3.28	-13.51	3.28	13.90	283.66	0.20
1800.00	0.70	40.23	1799.84	4.36	-12.62	4.36	13.35	289.05	0.20

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	0.74	25.40	1899.83	5.41	-11.94	5.41	13.11	294.36	0.19
2000.00	0.79	10.57	1999.82	6.67	-11.54	6.67	13.33	300.04	0.20
2100.00	1.07	354.49	2099.81	8.29	-11.50	8.29	14.18	305.77	0.38
2200.00	1.36	338.41	2199.78	10.32	-12.03	10.32	15.85	310.63	0.44
2300.00	1.35	339.01	2299.76	12.52	-12.89	12.52	17.97	314.18	0.01
2400.00	1.35	339.62	2399.73	14.73	-13.72	14.73	20.13	317.03	0.01
2500.00	1.21	340.98	2499.70	16.83	-14.48	16.83	22.20	319.31	0.14
2600.00	1.07	342.33	2599.68	18.72	-15.10	18.72	24.05	321.11	0.14
2700.00	0.88	343.86	2699.67	20.35	-15.60	20.35	25.64	322.52	0.19
2800.00	0.69	345.38	2799.66	21.66	-15.96	21.66	26.91	323.62	0.19
2900.00	0.70	344.08	2899.65	22.84	-16.28	22.84	28.05	324.51	0.02
3000.00	0.72	342.78	2999.64	24.02	-16.64	24.02	29.22	325.30	0.02
3100.00	0.75	343.71	3099.64	25.25	-17.01	25.25	30.44	326.04	0.03
3200.00	0.78	344.65	3199.63	26.53	-17.37	26.53	31.71	326.79	0.03
3300.00	0.75	324.64	3299.62	27.73	-17.93	27.73	33.02	327.11	0.27
3400.00	0.73	304.63	3399.61	28.63	-18.83	28.63	34.27	326.66	0.26
3500.00	0.68	308.78	3499.60	29.36	-19.82	29.36	35.42	325.98	0.07
3600.00	0.63	312.94	3599.60	30.11	-20.69	30.11	36.53	325.51	0.07
3700.00	0.58	302.35	3699.59	30.75	-21.52	30.75	37.53	325.02	0.12
3800.00	0.52	291.77	3799.59	31.19	-22.36	31.19	38.38	324.36	0.12
3900.00	0.47	307.89	3899.58	31.61	-23.11	31.61	39.16	323.83	0.15
4000.00	0.43	324.01	3999.58	32.17	-23.66	32.17	39.93	323.67	0.13
4100.00	0.42	331.42	4099.58	32.80	-24.05	32.80	40.67	323.74	0.06
4200.00	0.42	338.83	4199.57	33.47	-24.36	33.47	41.39	323.94	0.05
4300.00	0.53	320.72	4299.57	34.17	-24.79	34.17	42.22	324.04	0.19
4400.00	0.65	302.61	4399.57	34.84	-25.56	34.84	43.21	323.73	0.22
4500.00	0.72	317.78	4499.56	35.61	-26.46	35.61	44.36	323.38	0.19
4600.00	0.79	332.95	4599.55	36.69	-27.20	36.69	45.67	323.45	0.21
4700.00	0.67	312.96	4699.54	37.71	-27.95	37.71	46.94	323.46	0.28
4800.00	0.56	292.98	4799.54	38.30	-28.83	38.30	47.93	323.03	0.24
4900.00	0.72	273.99	4899.53	38.53	-29.90	38.53	48.77	322.19	0.27
5000.00	0.89	255.00	4999.52	38.37	-31.29	38.37	49.51	320.81	0.31
5100.00	1.08	262.26	5099.51	38.05	-32.97	38.05	50.34	319.09	0.22
5200.00	1.26	269.53	5199.48	37.91	-35.00	37.91	51.60	317.29	0.23
5300.00	1.24	278.42	5299.46	38.06	-37.16	38.06	53.19	315.68	0.19
5400.00	1.21	287.31	5399.44	38.53	-39.24	38.53	55.00	314.48	0.19
5500.00	1.13	283.22	5499.42	39.07	-41.20	39.07	56.78	313.48	0.12
5600.00	1.04	279.13	5599.40	39.44	-43.06	39.44	58.39	312.49	0.12
5700.00	1.20	284.67	5699.38	39.85	-44.96	39.85	60.08	311.55	0.19

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	1.35	290.21	5799.36	40.52	-47.08	40.52	62.11	310.72	0.20
5900.00	1.54	288.14	5899.32	41.35	-49.46	41.35	64.47	309.89	0.20
6000.00	1.73	286.06	5999.28	42.18	-52.19	42.18	67.11	308.95	0.20
6100.00	1.62	278.91	6099.24	42.82	-55.04	42.82	69.74	307.88	0.24
6200.00	1.51	271.76	6199.20	43.08	-57.76	43.08	72.05	306.72	0.22
6300.00	1.52	277.41	6299.17	43.29	-60.39	43.29	74.31	305.63	0.15
6400.00	1.54	283.07	6399.13	43.77	-63.02	43.77	76.73	304.78	0.15
6500.00	1.57	284.65	6499.10	44.42	-65.65	44.42	79.26	304.08	0.05
6600.00	1.60	286.23	6599.06	45.15	-68.32	45.15	81.89	303.46	0.05
6700.00	1.76	293.19	6699.01	46.15	-71.07	46.15	84.74	303.00	0.26
6800.00	1.92	300.15	6798.96	47.59	-73.93	47.59	87.92	302.77	0.27
6900.00	2.12	300.85	6898.90	49.38	-76.96	49.38	91.45	302.69	0.20
7000.00	2.32	301.55	6998.83	51.39	-80.28	51.39	95.32	302.63	0.20
7100.00	1.90	294.52	7098.76	53.14	-83.52	53.14	98.99	302.47	0.49
7200.00	1.49	287.48	7198.71	54.22	-86.26	54.22	101.89	302.15	0.47
7300.00	1.09	263.63	7298.69	54.50	-88.45	54.50	103.89	301.64	0.66
7400.00	0.69	239.77	7398.68	54.09	-89.92	54.09	104.93	301.03	0.54
7500.00	0.91	227.82	7498.67	53.25	-91.03	53.25	105.46	300.33	0.27
7600.00	1.13	215.87	7598.65	51.92	-92.20	51.92	105.81	299.39	0.30
7700.00	1.14	231.23	7698.63	50.50	-93.55	50.50	106.31	298.36	0.30
7800.00	1.16	246.60	7798.61	49.47	-95.26	49.47	107.34	297.44	0.31
7875.00	1.06	236.86	7873.60	48.79	-96.54	48.79	108.17	296.81	0.29

Company Name: Mewbourne Oil Co
Dorado 34 Fed Com #1H
Eddy County, New Mexico
Rig: Patterson-UT1 #46
Created By: DINA CHANCE
Date: 10/29/2012

Dorado 34 Fed Com #1H
Eddy County, New Mexico
Q110057 & WT-12695
Design #3



Mewbourne Oil Company



Azimuths to Grid North

Magnetic North: 7.44°

Magnetic Field
Strength: 48736.7snT
Dip Angle: 60.53°
Date: 9/14/2012
Model: IGRF2010

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: Dorado 34 Fed Com #1H

Ground Level: 5435.0		Latitude		Longitude	
+N/-S	+E/-W	Northing	Easting	32° 42' 5.928 N	103° 58' 5.827 W
0.0	0.0	619173.31	612748.20		

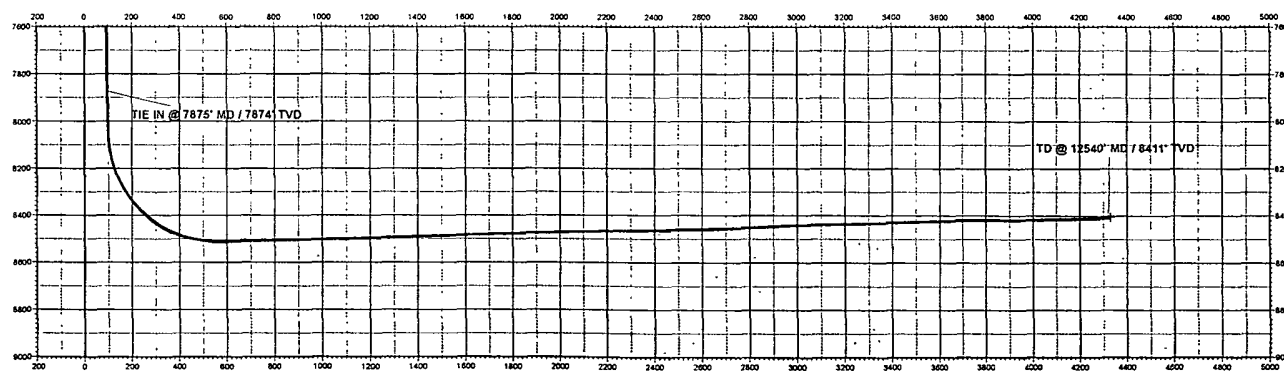
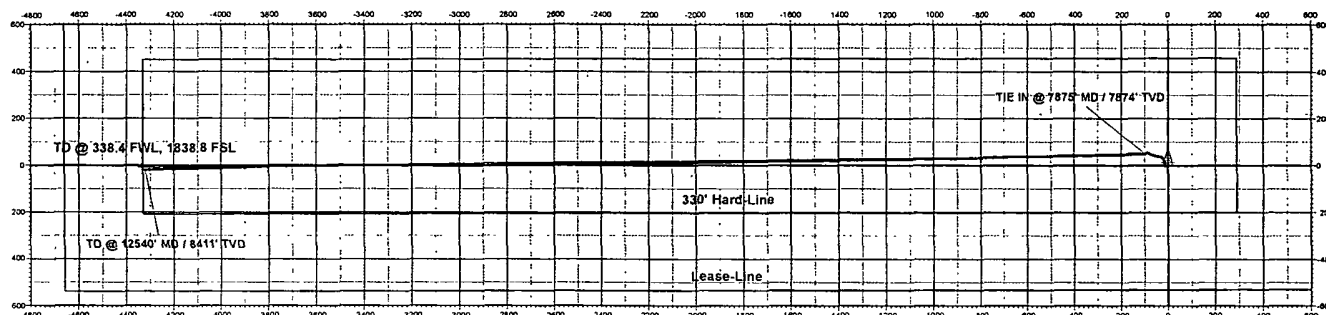
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
7875.0	1.06	236.88	7873.6	48.8	-96.6	108.1	136.7	TIE IN @ 7875' MD / 7874' TVD
12540.0	51.00	267.70	8410.8	-19.7	-4321.6	3848.0	4362.9	TD @ 12540' MD / 8411' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Dorado 34 Fed Com #1H Design #2 8405.0	-8.4	-4330.0	619184.81	612748.19	32° 42' 5.928 N	103° 58' 5.827 W	

- plan hits target center



Vertical Section at 269.89° (200 usf/in)

Operating Company Mewbourne
Well Name & Number Dorado 34 Fed Com #1H
Sales Ticket Number 4707060
Date 9/30/2012

Company Rep Lynn Simmons
Field Santo Nino
BOT Service Rep Charles R 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	6.151		0.03826	8,803.00	9,960	6,230		
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	3,876.59	12,410	10,680		
Bott Liner												
TVD		8,156.00		KOP		7,748.00		Open Hole		6.125	Casing Vol. (bbl)	328.8
Carry Fluid Weight (ppg)			8.4		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	8593.41	4.75	5.750	4.000			

Zone Length	S3 Hyd Set Packer		8598.16	4.64	5.813	3.875				
	4-1/2-13.5 LTC Nipple		8602.80	8.10	4.500	3.920				
20 353.7	7 Joints of 4-1/2-13.5 LTC Casing		8610.90	265.55	4.500	3.920				
	20	3.625 EX Frac Sleeve	8876.45	3.90	5.750		3.525	2286	310	333
	2 Joint of 4-1/2-13.5 LTC Casing		8880.35	76.16	4.500	3.920				
	Baker Open Hole Packer		8956.51	3.89	5.820	3.875		2154		
19 237.1	3 Joints of 4-1/2-13.5 LTC Casing		8960.40	114.97	4.500	3.920				
	19	3.500 EX-C Frac Sleeve	9075.37	3.90	5.750		3.400	2286	289	336
	3 Joint of 4-1/2-13.5 LTC Casing		9079.27	114.38	4.500	3.920				
	Baker Open Hole Packer		9193.65	3.89	5.820	3.875		2154		
18 161.8	2 Joints of 4-1/2-13.5 LTC Casing		9197.54	76.96	4.500	3.920				
	18	3.375 EX Frac Sleeve	9274.50	3.90	5.750		3.275	2286	268	339
	2 Joint of 4-1/2-13.5 LTC Casing		9278.40	77.09	4.500	3.920				
	Baker Open Hole Packer		9355.49	3.89	5.820	3.875		2154		
17 161	2 Joints of 4-1/2-13.5 LTC Casing		9359.38	75.97	4.500	3.920				
	17	3.250 EX Frac Sleeve	9435.35	3.90	5.750		3.150	2286	248	341
	2 Joint of 4-1/2-13.5 LTC Casing		9439.25	77.20	4.500	3.920				
	Baker Open Hole Packer		9516.45	3.89	5.820	3.875		2154		
16 199.2	3 Joints of 4-1/2-13.5 LTC Casing		9520.34	115.16	4.500	3.920				
	16	3.125 EX Frac Sleeve	9635.50	3.90	5.750		3.025	2286	228	344
	2 Joints of 4-1/2-13.5 LTC Casing		9639.40	76.23	4.500	3.920				
	Baker Open Hole Packer		9715.63	3.89	5.820	3.875		2154		

Operating Company Mewbourne
 Well Name & Number Dorado 34 Fed Com #1H
 Sales Ticket Number 4707060
 Date 9/30/2012

Company Rep Lynn Simmons
 Field Santo Nino
 BOT Service Rep Charles R 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	6.151		0.03826	8,803.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	3,876.59	12,410	10,680
Bott Liner										
TVD	8,156.00		KOP		7,748.00		Open Hole	6.125	Casing Vol. (bbl)	328.8
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)
		3 Joints of 4-1/2-13.5 LTC Casing	9719.52	114 15	4.500	3.920				
15	15	3.000 EX Frac Sleeve	9833.67	3.90	5.750		2.900	2375	214	347
196.3		2 Joint of 4-1/2-13.5 LTC Casing	9837.57	74.37	4.500	3.920				
		Baker Open Hole Packer	9911.94	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	9915.83	75.93	4.500	3.920				
14	14	2.875 EX Frac Sleeve	9991.76	3.90	5.750		2.775	2286	192	350
197.2		3 Joints of 4-1/2-13.5 LTC Casing	9995.66	113.43	4.500	3.920				
		Baker Open Hole Packer	10109.09	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10112.98	75.73	4.500	3.920				
13	13	2.750 EX Frac Sleeve	10188.71	3.90	5.750		2.650	2286	175	353
197.8		3 Joint of 4-1/2-13.5 LTC Casing	10192.61	114.26	4.500	3.920				
		Baker Open Hole Packer	10306.87	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	10310.76	75.68	4.500	3.920				
12	12	2.625 EX Frac Sleeve	10386.44	3.90	5.750		2.525	2286	159	356
158.8		2 Joints of 4-1/2-13.5 LTC Casing	10390.34	75.36	4.500	3.920				
		Baker Open Hole Packer	10465.70	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10469.59	113.72	4.500	3.920				
11	11	2.500 EX Frac sleeve	10583.31	3.90	5.750		2.400	2286	144	358
198.5		2 Joint of 4-1/2-13.5 LTC Casing	10587.21	77.03	4.500	3.920				
		Baker Open Hole Packer	10664.24	3.89	5.820	3.875		2154		
		3 Joints of 4-1/2-13.5 LTC Casing	10668.13	113.92	4.500	3.920				
10	10	2.375 EX Frac Sleeve	10782.05	3.90	5.750		2.275	2286	129	361
196.7		2 Joints of 4-1/2-13.5 LTC Casing	10785.95	74.94	4.500	3.920				
		Baker Open Hole Packer	10860.89	3.89	5.820	3.875		2154		
		3 Joint of 4-1/2-13.5 LTC Casing	10864.78	114.23	4.500	3.920				
9	9	2.250 EX Frac Sleeve	10979.01	3.90	5.750		2.125	2286	113	364

Operating Company Mewbourne
Well Name & Number Dorado 34 Fed Com #1H
Sales Ticket Number 4707060
Date 9/30/2012

Company Rep Lynn Simmons
Field Santo Nino
BOT Service Rep Charles R 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	6.151		0.03826	8,803.00	9,960	6,230
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	3,876.59	12,410	10,680
Bott Liner										
TVD	8,156.00		KOP	7,748.00		Open Hole	6.125	Casing Vol. (bbl)	328.8	
Carry Fluid Weight (ppg)	8.4		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)
197.9		2 Joints of 4-1/2-13.5 LTC Casing	10982.91	75.88	4.500	3.920				
		Baker Open Hole Packer	11058.79	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	11062.68	76.86	4.500	3.920				
8	8	2.125 EX Frac Sleeve	11139.54	3.90	5.750		2.025	2286	102	367
198.3		3 Joints of 4-1/2-13.5 LTC Casing	11143.44	113.63	4.500	3.920				
		Baker Open Hole Packer	11257.07	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	11260.96	76.47	4.500	3.920				
7	7	2.000 EX Frac Sleeve	11337.43	3.90	5.750		1.900	2286	90	370
159.9		2 Joints of 4-1/2-13.5 LTC Casing	11341.33	75.65	4.500	3.920				
		Baker Open Hole Packer	11416.98	3.89	5.820	3.875		2154		
		2 Joint of 4-1/2-13.5 LTC Casing	11420.87	81.80	4.500	3.920				
6	6	1.875 EX Frac Sleeve	11502.67	3.90	5.750		1.775	2286	79	372
217.8		3 Joints of 4-1/2-13.5 LTC Casing	11506.57	128.17	4.500	3.920				
		Baker Open Hole Packer	11634.74	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11638.63	81.86	4.500	3.920				
5	5	1.750 EX Frac Sleeve	11720.49	3.90	5.750		1.650	2286	68	375
166.25		2 Joint of 4-1/2-13.5 LTC Casing	11724.39	76.60	4.500	3.920				
		Baker Open Hole Packer	11800.99	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	11804.88	82.11	4.500	3.920				
4	4	1.625 EX Frac Sleeve	11886.99	3.90	5.750		1.525	2286	58	378
210.71		3 Joints of 4-1/2-13.5 LTC Casing	11890.89	120.81	4.500	3.920				
		Baker Open Hole Packer	12011.70	3.89	5.820	3.875		2154		
		2 Joints of 4-1/2-13.5 LTC Casing	12015.59	74.27	4.500	3.920				
3	3	1.500 DB EX Frac Sleeve	12089.86	3.90	5.750		1.400	2286	49	381
197.30		3 Joint of 4-1/2-13.5 LTC Casing	12093.76	115.24	4.500	3.920				
		Baker Open Hole Packer	12209.00	3.89	5.820	3.875		2154		

Company Rep	Lynn Simmons
Field	Santo Nino
BOT Service Rep	Charles R 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	6.151		0.03826	8,803.00	9,960	6,230	
Top Liner	4.500	13.50	338000	3.920	3.795	LT&C	0.01492	3,876.59	12,410	10,680	
Bott Liner											
TVD		8,156.00		KOP		7,748.00	Open Hole		6.125	Casing Vol. (bbl)	328.8
Carry Fluid Weight (ppg)			8.4		Propant Content (ppa)				Max Drill Out Size		0

[illegible]