



Company: Mewbourne Oil Company
Lease/Well: Dorado 34 DA Fed Com/No 001H
Location: 25 mile NE dir from Carlsbad
Rig Name: Trinidad 110
State/County: New Mexico/Eddy
Latitude: 32.71, Longitude: -103.97
GRID North is 0.20 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 17 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...fed com #1h-de_gyro_survey.ut

Minimum Curvature Method

Report Date/Time: 7/24/2013 / 12:24

Vaughn Energy Services

Midland, Texas

432-563-5444

Surveyor: Gene Heiss

Dorado 34 DA Fed Com No 001H / API 30-015-41394



15-41394

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	0.43	195.91	100.00	-0.36	-0.10	-0.36	0.38	195.91	0.43
200.00	0.58	191.27	200.00	-1.22	-0.31	-1.22	1.26	194.05	0.15
300.00	0.70	183.36	299.99	-2.33	-0.44	-2.33	2.37	190.71	0.15
400.00	0.74	172.93	399.98	-3.58	-0.40	-3.58	3.60	186.32	0.14
500.00	0.44	168.16	499.98	-4.60	-0.24	-4.60	4.60	182.97	0.31
600.00	0.65	161.21	599.97	-5.51	0.02	-5.51	5.51	179.76	0.22
700.00	0.58	159.70	699.97	-6.52	0.38	-6.52	6.53	176.66	0.08
800.00	0.64	152.32	799.96	-7.49	0.81	-7.49	7.53	173.79	0.10
900.00	0.38	131.68	899.96	-8.20	1.32	-8.20	8.30	170.86	0.32
1000.00	0.40	118.87	999.95	-8.59	1.87	-8.59	8.79	167.72	0.09
1100.00	0.45	103.57	1099.95	-8.85	2.55	-8.85	9.21	163.89	0.12
1200.00	0.63	81.34	1199.95	-8.85	3.48	-8.85	9.51	158.54	0.28
1300.00	1.35	76.13	1299.93	-8.49	5.17	-8.49	9.94	148.63	0.73
1400.00	2.20	75.66	1399.88	-7.73	8.18	-7.73	11.26	133.37	0.85
1500.00	2.14	73.82	1499.81	-6.73	11.84	-6.73	13.62	119.63	0.09
1600.00	1.72	67.58	1599.75	-5.64	15.02	-5.64	16.04	110.58	0.47
1700.00	1.42	64.85	1699.72	-4.54	17.53	-4.54	18.11	104.52	0.31
1800.00	1.08	56.95	1799.69	-3.50	19.44	-3.50	19.75	100.20	0.38
1900.00	1.08	46.24	1899.67	-2.33	20.91	-2.33	21.04	96.37	0.20
2000.00	0.99	40.56	1999.66	-1.03	22.15	-1.03	22.18	92.65	0.13

Mewbourne Oil Co

Eddy County, New Mexico

Sec 34-18S-30E

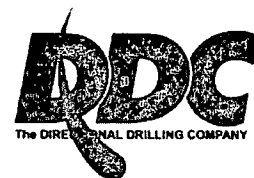
Dorado 34 DA Fed Com #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

26 July, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Dorado 34 DA Fed Com #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3477.0usft (Trinidad #110)
Site:	Sec 34-18S-30E	MD Reference:	WELL @ 3477.0usft (Trinidad #110)
Well:	Dorado 34 DA 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
From:	Map	Easting:	617,078.21 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 42' 5.860 N
		Longitude:	103° 57' 9.827 W
		Grid Convergence:	0.21 °

Well:	Dorado 34 DA Fed Com #1H		
Well Position	+N/-S	0.0 usft	Northing: 622,186.87 usft
	+E/-W	0.0 usft	Easting: 612,729.37 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 42' 35.832 N
		Longitude:	103° 58' 0.599 W
		Ground Level:	3,457.0 usft

Wellbore:	Wellbore #1		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/2/2013	7.55	60.52	48,660

Design:	Wellbore #1		
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Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	96.88

Survey Program		Date	7/26/2013	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,730.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
7,785.0	12,930.0	DDC MWD Surveys (Wellbore #1)	MWD default	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)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.43	195.91	100.0	-0.4	-0.1	-0.1	0.43	0.43	0.00
	200.0	0.58	191.27	200.0	-1.2	-0.3	-0.2	0.16	0.15	-4.64
	300.0	0.70	183.36	300.0	-2.3	-0.4	-0.2	0.15	0.12	-7.91
	400.0	0.74	172.93	400.0	-3.6	-0.4	0.0	0.14	0.04	-10.43
	500.0	0.44	168.16	500.0	-4.6	-0.2	0.3	0.30	-0.30	-4.77
	600.0	0.65	161.21	600.0	-5.5	0.0	0.7	0.22	0.21	-6.95
	700.0	0.58	159.70	700.0	-6.5	0.4	1.2	0.07	-0.07	-1.51
	800.0	0.64	152.32	800.0	-7.5	0.8	1.7	0.10	0.06	-7.38
	900.0	0.38	131.68	900.0	-8.2	1.3	2.3	0.31	-0.26	-20.64

DDC
Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Dorado 34 DA Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3477.0usft (Trinidad #110)
Site:	Sec 34-18S-30E	MD Reference:	WELL @ 3477.0usft (Trinidad #110)
Well:	Dorado 34 DA 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)
1,000.0	0.40	118.87	1,000.0	-8.6	1.9	2.9	0.09	0.02	-12.81
1,100.0	0.45	103.57	1,100.0	-8.9	2.6	3.6	0.12	0.05	-15.30
1,200.0	0.63	81.34	1,199.9	-8.9	3.5	4.5	0.27	0.18	-22.23
1,300.0	1.35	76.13	1,299.9	-8.5	5.2	6.2	0.72	0.72	-5.21
1,400.0	2.20	75.66	1,399.9	-7.7	8.2	9.0	0.85	0.85	-0.47
1,500.0	2.14	73.82	1,499.8	-6.7	11.8	12.6	0.09	-0.06	-1.84
1,600.0	1.72	67.58	1,599.8	-5.6	15.0	15.6	0.47	-0.42	-6.24
1,700.0	1.42	64.85	1,699.7	-4.5	17.5	17.9	0.31	-0.30	-2.73
1,800.0	1.08	56.95	1,799.7	-3.5	19.4	19.7	0.38	-0.34	-7.90
1,900.0	1.08	46.24	1,899.7	-2.3	20.9	21.0	0.20	0.00	-10.71
2,000.0	0.99	40.56	1,999.7	-1.0	22.1	22.1	0.14	-0.09	-5.68
2,100.0	0.88	29.84	2,099.6	0.3	23.1	22.9	0.21	-0.11	-10.72
2,200.0	0.75	38.07	2,199.6	1.5	23.9	23.5	0.17	-0.13	8.23
2,300.0	0.74	35.14	2,299.6	2.5	24.7	24.2	0.04	-0.01	-2.93
2,400.0	0.78	25.28	2,399.6	3.7	25.3	24.7	0.14	0.04	-9.86
2,500.0	0.65	18.03	2,499.6	4.8	25.8	25.0	0.16	-0.13	-7.25
2,600.0	0.73	2.04	2,599.6	6.0	26.0	25.1	0.21	0.08	-15.99
2,700.0	0.72	359.50	2,699.6	7.3	26.0	24.9	0.03	-0.01	-2.54
2,800.0	0.73	355.92	2,799.6	8.5	25.9	24.7	0.05	0.01	-3.58
2,900.0	0.59	352.13	2,899.6	9.7	25.8	24.5	0.15	-0.14	-3.79
3,000.0	0.57	350.39	2,999.6	10.7	25.7	24.2	0.03	-0.02	-1.74
3,100.0	0.68	345.75	3,099.6	11.7	25.4	23.9	0.12	0.11	-4.64
3,200.0	0.66	333.43	3,199.6	12.8	25.0	23.3	0.15	-0.02	-12.32
3,300.0	0.78	315.93	3,299.6	13.8	24.3	22.5	0.25	0.12	-17.50
3,400.0	0.69	308.42	3,399.5	14.7	23.4	21.4	0.13	-0.09	-7.51
3,500.0	0.65	328.82	3,499.5	15.5	22.6	20.6	0.24	-0.04	20.40
3,600.0	0.72	338.85	3,599.5	16.6	22.1	19.9	0.14	0.07	10.03
3,700.0	0.68	326.52	3,699.5	17.7	21.5	19.3	0.16	-0.04	-12.33
3,800.0	0.73	339.50	3,799.5	18.8	21.0	18.6	0.17	0.05	12.98
3,900.0	0.88	340.96	3,899.5	20.1	20.5	17.9	0.15	0.15	1.46
4,000.0	0.84	332.52	3,999.5	21.5	19.9	17.2	0.13	-0.04	-8.44
4,100.0	0.66	320.67	4,099.5	22.6	19.2	16.4	0.24	-0.18	-11.85
4,200.0	0.68	329.82	4,199.5	23.5	18.5	15.6	0.11	0.02	9.15
4,300.0	0.92	317.23	4,299.5	24.6	17.7	14.6	0.30	0.24	-12.59
4,400.0	0.79	332.21	4,399.5	25.8	16.8	13.6	0.26	-0.13	14.98
4,500.0	1.49	318.16	4,499.4	27.4	15.6	12.3	0.75	0.70	-14.05
4,600.0	2.22	315.50	4,599.4	29.8	13.4	9.8	0.73	0.73	-2.66
4,700.0	2.45	304.99	4,699.3	32.4	10.3	6.4	0.49	0.23	-10.51
4,800.0	2.54	295.99	4,799.2	34.6	6.6	2.4	0.40	0.09	-9.00
4,900.0	2.64	284.61	4,899.1	36.1	2.4	-2.0	0.52	0.10	-11.38
5,000.0	2.93	298.27	4,999.0	37.9	-2.1	-6.7	0.72	0.29	13.66
5,100.0	3.07	300.75	5,098.9	40.5	-6.7	-11.5	0.19	0.14	2.48
5,200.0	2.88	292.29	5,198.7	42.8	-11.3	-16.4	0.48	-0.19	-8.46

DDC Survey Report



Company:	Mewbourne Oil Co.	Local Co-ordinate Reference:	Well Dorado 34 DA Fed Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3477.0usft (Trinidad #110)
Site:	Sec 34 18S 30E	MD Reference:	WELL @ 3477.0usft (Trinidad #110)
Well:	Dorado 34 DA 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)
5,300.0	2.90	307.48	5,298.6	45.3	-15.6	-21.0	0.76	0.02	15.19
5,400.0	2.97	308.42	5,398.5	48.5	-19.7	-25.3	0.08	0.07	0.94
5,500.0	3.30	301.97	5,498.3	51.6	-24.1	-30.2	0.48	0.33	-6.45
5,600.0	3.91	305.45	5,598.1	55.1	-29.4	-35.8	0.65	0.61	3.48
5,700.0	4.28	304.59	5,697.9	59.2	-35.2	-42.1	0.38	0.37	-0.86
5,800.0	3.37	300.93	5,797.6	62.8	-40.8	-48.0	0.94	-0.91	-3.66
5,900.0	2.98	293.41	5,897.5	65.4	-45.7	-53.2	0.57	-0.39	-7.52
6,000.0	3.02	296.52	5,997.3	67.6	-50.5	-58.2	0.17	0.04	3.11
6,100.0	3.08	298.33	6,097.2	70.0	-55.2	-63.2	0.11	0.06	1.81
6,200.0	3.70	306.33	6,197.0	73.2	-60.1	-68.5	0.78	0.62	8.00
6,300.0	3.92	298.90	6,296.8	76.8	-65.7	-74.5	0.54	0.22	-7.43
6,400.0	3.30	300.44	6,396.6	79.9	-71.2	-80.3	0.63	-0.62	1.54
6,500.0	2.74	314.64	6,496.5	83.0	-75.4	-84.8	0.93	-0.56	14.20
6,600.0	2.86	303.99	6,596.4	86.1	-79.2	-88.9	0.53	0.12	-10.65
6,700.0	2.72	323.57	6,696.2	89.4	-82.6	-92.8	0.96	-0.14	19.58
6,800.0	2.63	320.36	6,796.1	93.1	-85.5	-96.0	0.17	-0.09	-3.21
6,900.0	2.71	307.21	6,896.0	96.3	-88.9	-99.7	0.62	0.08	-13.15
7,000.0	2.45	290.38	6,995.9	98.4	-92.7	-103.9	0.80	-0.26	-16.83
7,100.0	2.16	272.33	7,095.8	99.3	-96.6	-107.8	0.78	-0.29	-18.05
7,200.0	2.36	256.86	7,195.8	98.9	-100.5	-111.6	0.64	0.20	-15.47
7,300.0	2.05	239.98	7,295.7	97.5	-104.1	-115.0	0.72	-0.31	-16.88
7,400.0	1.65	246.60	7,395.6	96.0	-106.9	-117.7	0.45	-0.40	6.62
7,500.0	2.13	240.93	7,495.6	94.6	-109.9	-120.4	0.51	0.48	-5.67
7,600.0	1.81	247.51	7,595.5	93.1	-113.0	-123.3	0.39	-0.32	6.58
7,700.0	1.50	245.62	7,695.5	91.9	-115.6	-125.8	0.31	-0.31	-1.89
TIE IN @ 7730 MD / 7725.5 TVD									
7,730.0	1.33	239.83	7,725.5	91.6	-116.3	-126.4	0.74	-0.57	-19.30
7,785.0	1.80	241.50	7,780.5	90.9	-117.6	-127.6	0.86	0.85	3.04
7,875.0	4.80	95.10	7,870.4	89.8	-115.1	-125.0	7.09	3.33	-162.67
7,920.0	10.70	90.20	7,914.9	89.7	-109.0	-119.0	13.18	13.11	-10.89
7,966.0	15.80	85.20	7,959.7	90.2	-98.5	-108.6	11.35	11.09	-10.87
8,011.0	20.90	89.40	8,002.4	90.8	-84.4	-94.6	11.70	11.33	9.33
8,056.0	23.70	95.80	8,044.0	89.9	-67.3	-77.6	8.23	6.22	14.22
8,101.0	28.20	96.70	8,084.5	87.8	-47.8	-57.9	10.04	10.00	2.00
8,146.0	34.00	93.80	8,123.0	85.7	-24.6	-34.7	13.31	12.89	-6.44
8,191.0	40.00	94.90	8,158.9	83.6	2.4	-7.7	13.41	13.33	2.44
CROSSED HARDLINE @ 8209.9 MD / 8173.2 TVD									
8,209.9	41.63	96.58	8,173.2	82.4	14.6	4.7	10.38	8.61	8.87
8,237.0	44.00	98.80	8,193.1	79.9	32.9	23.1	10.38	8.76	8.21
8,282.0	49.20	102.10	8,224.0	74.0	65.0	55.7	12.72	11.56	7.33
8,327.0	53.50	103.20	8,252.1	66.3	99.3	90.6	9.74	9.56	2.44
8,372.0	55.40	100.90	8,278.3	58.6	135.1	127.1	5.93	4.22	-5.11
8,417.0	59.90	101.90	8,302.4	51.1	172.4	165.0	10.17	10.00	2.22
8,462.0	66.70	102.80	8,322.6	42.5	211.6	205.0	15.22	15.11	2.00

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Dorado 34 DA Fed Com #1H
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Site:	Sec 34-18S-30E	MD Reference:	WELL @ 3477.0usft (Trinidad #110)
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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)
8,507.0	73.10	104.90	8,338.0	32.4	252.6	246.9	14.88	14.22	4.67
8,552.0	78.30	105.10	8,349.1	21.1	294.7	290.1	11.56	11.56	0.44
8,597.0	80.30	104.70	8,357.5	9.7	337.4	333.8	4.53	4.44	-0.89
8,642.0	83.40	103.50	8,363.9	-1.1	380.6	378.0	7.38	6.89	-2.67
8,687.0	84.80	103.00	8,368.5	-11.4	424.2	422.5	3.30	3.11	-1.11
8,732.0	86.20	102.50	8,372.0	-21.3	468.0	467.1	3.30	3.11	-1.11
8,777.0	87.80	101.80	8,374.4	-30.7	511.9	511.9	3.88	3.56	-1.56
8,868.0	88.90	99.30	8,377.0	-47.4	601.3	602.7	3.00	1.21	-2.75
8,913.0	88.50	99.10	8,378.0	-54.6	645.7	647.6	0.99	-0.89	-0.44
8,959.0	87.60	98.60	8,379.6	-61.7	691.1	693.6	2.24	-1.96	-1.09
9,004.0	87.80	98.20	8,381.4	-68.2	735.6	738.5	0.99	0.44	-0.89
9,049.0	87.90	98.10	8,383.1	-74.6	780.1	783.5	0.31	0.22	-0.22
9,094.0	88.20	97.90	8,384.6	-80.9	824.7	828.4	0.80	0.67	-0.44
9,139.0	88.10	97.90	8,386.1	-87.0	869.2	873.4	0.22	-0.22	0.00
9,229.0	88.40	97.20	8,388.8	-98.9	958.4	963.3	0.85	0.33	-0.78
9,319.0	88.50	96.70	8,391.2	-109.8	1,047.7	1,053.3	0.57	0.11	-0.56
9,410.0	88.90	96.10	8,393.3	-119.9	1,138.1	1,144.3	0.79	0.44	-0.66
9,500.0	88.10	96.80	8,395.7	-130.0	1,227.5	1,234.2	1.18	-0.89	0.78
9,590.0	88.40	96.30	8,398.4	-140.3	1,316.9	1,324.2	0.65	0.33	-0.56
9,680.0	87.90	96.70	8,401.3	-150.4	1,406.3	1,414.2	0.71	-0.56	0.44
9,771.0	87.70	96.70	8,404.8	-161.1	1,496.6	1,505.1	0.22	-0.22	0.00
9,861.0	88.20	96.10	8,408.0	-171.1	1,586.0	1,595.0	0.87	0.56	-0.67
9,951.0	88.70	97.20	8,410.5	-181.5	1,675.3	1,685.0	1.34	0.56	1.22
10,041.0	88.90	96.80	8,412.4	-192.5	1,764.6	1,775.0	0.50	0.22	-0.44
10,132.0	89.90	97.70	8,413.3	-203.9	1,854.9	1,866.0	1.48	1.10	0.99
10,222.0	89.30	99.10	8,413.9	-217.1	1,943.9	1,955.9	1.69	-0.67	1.56
10,312.0	87.10	100.20	8,416.8	-232.2	2,032.6	2,045.8	2.73	-2.44	1.22
10,402.0	87.00	99.10	8,421.4	-247.2	2,121.2	2,135.5	1.23	-0.11	-1.22
10,493.0	88.60	98.90	8,424.9	-261.5	2,211.0	2,226.4	1.77	1.76	-0.22
10,583.0	88.30	98.10	8,427.3	-274.8	2,300.0	2,316.3	0.95	-0.33	-0.89
10,673.0	89.30	98.10	8,429.2	-287.4	2,389.1	2,406.3	1.11	1.11	0.00
10,764.0	89.80	97.50	8,429.9	-299.8	2,479.2	2,497.3	0.86	0.55	-0.66
10,854.0	89.60	97.70	8,430.4	-311.7	2,568.4	2,587.3	0.31	-0.22	0.22
10,944.0	89.30	97.70	8,431.3	-323.8	2,657.6	2,677.3	0.33	-0.33	0.00
11,034.0	89.30	97.70	8,432.4	-335.8	2,746.8	2,767.2	0.00	0.00	0.00
11,124.0	89.70	97.40	8,433.1	-347.6	2,836.0	2,857.2	0.56	0.44	-0.33
11,214.0	89.90	97.40	8,433.5	-359.2	2,925.3	2,947.2	0.22	0.22	0.00
11,304.0	89.60	97.20	8,433.9	-370.7	3,014.5	3,037.2	0.40	-0.33	-0.22
11,395.0	88.80	97.20	8,435.1	-382.1	3,104.8	3,128.2	0.88	-0.88	0.00
11,485.0	88.50	97.40	8,437.2	-393.5	3,194.1	3,218.2	0.40	-0.33	0.22
11,575.0	87.60	96.80	8,440.3	-404.6	3,283.3	3,308.1	1.20	-1.00	-0.67
11,665.0	88.80	97.50	8,443.1	-415.8	3,372.6	3,398.1	1.54	1.33	0.78
11,755.0	88.80	97.40	8,445.0	-427.5	3,461.8	3,488.1	0.11	0.00	-0.11

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Dorado 34 DA Fed Com #1H
Project:	Eddy County New Mexico	TVD Reference:	WELL @ 3477.0usft (Trinidad #110)
Site:	Sec 34-18S-30E	MD Reference:	WELL @ 3477.0usft (Trinidad #110)
Well:	Dorado 34 DA Fed Com #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User/Db

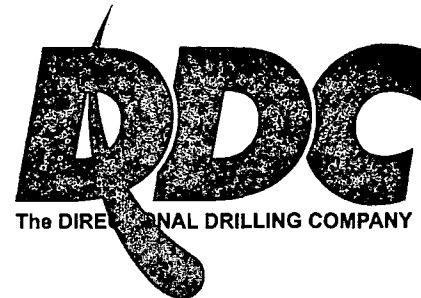
Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,846.0	89.80	97.90	8,446.1	-439.6	3,552.0	3,579.0	1.23	1.10	0.55
11,936.0	90.60	98.10	8,445.8	-452.1	3,641.1	3,669.0	0.92	0.89	0.22
12,026.0	89.60	96.50	8,445.7	-463.6	3,730.4	3,759.0	2.10	-1.11	-1.78
12,116.0	89.50	96.10	8,446.4	-473.4	3,819.8	3,849.0	0.46	-0.11	-0.44
12,206.0	89.00	95.80	8,447.5	-482.8	3,909.3	3,939.0	0.65	-0.56	-0.33
12,297.0	89.10	95.60	8,449.0	-491.8	3,999.9	4,030.0	0.25	0.11	-0.22
12,387.0	87.90	95.40	8,451.4	-500.4	4,089.4	4,119.9	1.35	-1.33	-0.22
12,477.0	88.30	95.30	8,454.4	-508.8	4,179.0	4,209.8	0.46	0.44	-0.11
12,567.0	89.10	94.90	8,456.4	-516.8	4,268.6	4,299.8	0.99	0.89	-0.44
12,657.0	88.60	94.90	8,458.2	-524.5	4,358.2	4,389.7	0.56	-0.56	0.00
12,747.0	88.80	94.70	8,460.3	-532.0	4,447.9	4,479.6	0.31	0.22	-0.22
12,837.0	89.30	94.40	8,461.8	-539.2	4,537.6	4,569.5	0.65	0.56	-0.33
12,878.0	89.50	94.00	8,462.2	-542.2	4,578.5	4,610.5	1.09	0.49	-0.98
TD @ 12930' MD / 8462.7' TVD									
12,930.0	89.50	94.00	8,462.7	-545.8	4,630.4	4,662.4	0.00	0.00	0.00

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,730.0	7,725.5	91.6	-116.3	TIE IN @ 7730' MD / 7725.5' TVD
8,209.9	8,173.2	82.4	14.6	CROSSED HARDLINE @ 8209.9' MD / 8173.2' TVD
12,930.0	8,462.7	-545.8	4,630.4	TD @ 12930' MD / 8462.7' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
Dorado 34 DA Fed Com #1H
Eddy County, New Mexico
Rig: Trinidad #110
Created By: TIFFANI MIZELL
Date: 7/27/2013

Dorado 34 DA Fed Com #1H
Eddy County, New Mexico
Q130143 & WT-13522
Design #2 Tie-In to Gyro



Mewbourne Oil Company



Azimuths to Grid North

Correction: 7.36°

Magnetic Field
Strength: 48660.3snT

Dip Angle: 60.52°

Date: 7/2/2013

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

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
PBHL Dorado 34 DA Fed Com #1H Design #1	8467.0	-559.2	4631.7	621627.67	617361.07	32° 42' 30.137 N	103° 57' 6.413 W

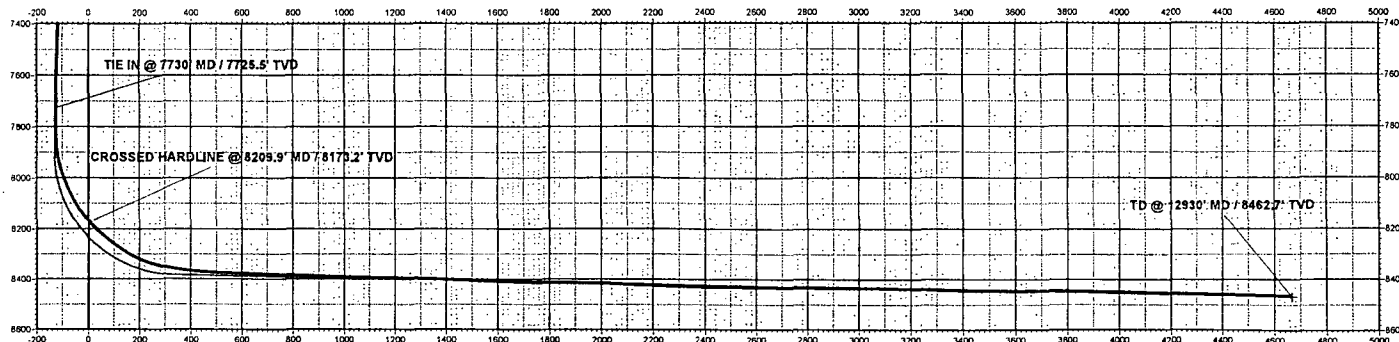
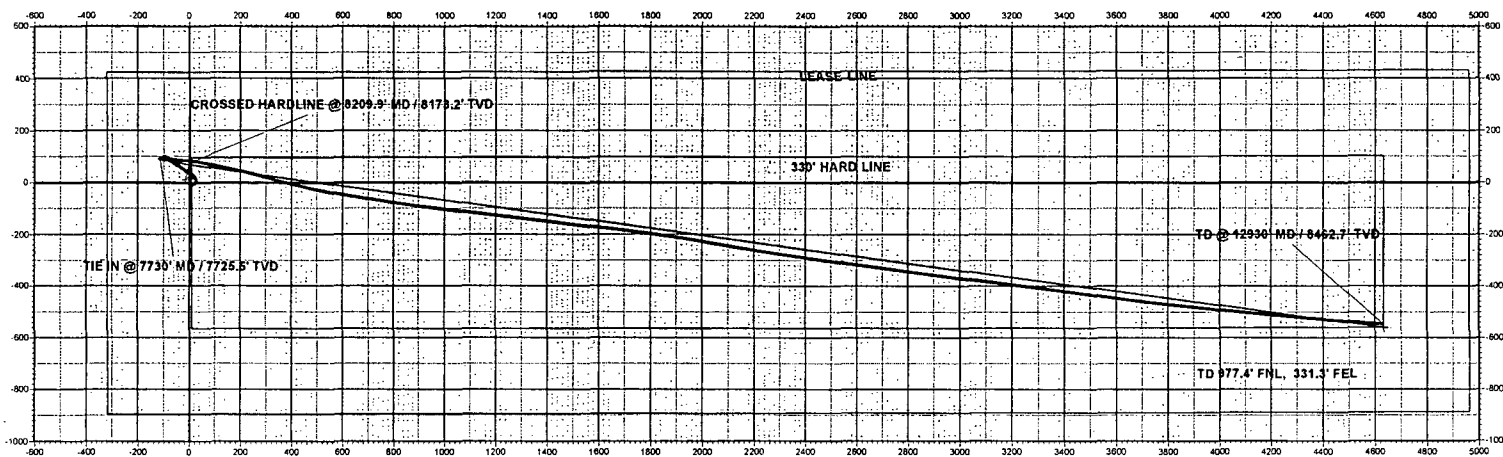
- plan hits target center

WELL DETAILS: Dorado 34 DA Fed Com #1H

Ground Level:	3487.0				
+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	622186.87	612729.37	32° 42' 35.832 N	103° 58' 0.599 W

ANNOTATIONS

WD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
7730.0	1.33	239.83	7725.5	91.6	-116.3	-126.4	220.7	TIE IN @ 7730' MD / 7725.5' TVD
8209.9	41.63	96.58	8173.2	82.4	14.6	4.7	357.9	CROSSED HARDLINE @ 8209.9' MD / 8173.2' TVD
12930.0	89.50	94.00	8462.7	-545.8	4630.4	4662.4	5019.5	TD @ 12930' MD / 8462.7' TVD



Vertical Section at 96.88° (200 usf/in)