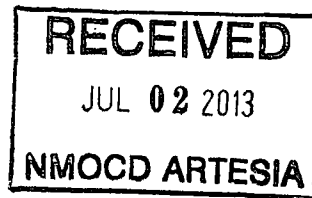


30-015-41237



Mewbourne Oil Co

Eddy County, New Mexico (Nad 83)

Sec 34, T25S, R29E

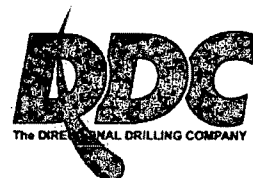
Bison Wallow 34 Federal #2H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

24 May, 2013



DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well-Bison Wallow 34 Federal #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3001.0usft (Patterson)
Site:	Sec 34 T25S R29E	MD Reference:	WELL @ 3001.0usft (Patterson)
Well:	Bison Wallow 34 Federal #2H	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 (Nad 83)			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 34 T25S R29E			
Site Position:		Northing:	392,761.80 usft	Latitude:	32° 4' 45.288 N
From:	Map	Easting:	655,397.03 usft	Longitude:	103° 57' 54.249 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.20 °

Well: Bison Wallow 34 Federal #2H						
Well Position	+N-S	0.0 usft	Northing:	392,761.80 usft	Latitude:	32° 4' 45.288 N
	+E-W	0.0 usft	Easting:	655,397.03 usft	Longitude:	103° 57' 54.249 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	2,981.0 usft

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/8/2013	7.52	59.94	48,299

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	359.35

Survey Program		Date	5/24/2013	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	8,200.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro
8,304.0	13,315.0	MWD (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	0.13	84.52	100.0	0.0	0.1	0.0	0.13	0.13	0.00
	200.0	0.31	58.59	200.0	0.2	0.5	0.2	0.20	0.18	-25.93
	300.0	0.69	329.31	300.0	0.8	0.4	0.8	0.75	0.38	-89.28
	400.0	0.84	28.53	400.0	2.0	0.4	2.0	0.77	0.15	59.22
	500.0	0.28	57.38	500.0	2.8	1.0	2.7	0.61	-0.56	28.85
	600.0	0.58	285.13	600.0	3.0	0.7	3.0	0.80	0.30	-132.25
	700.0	0.34	310.81	700.0	3.3	0.0	3.3	0.31	-0.24	25.68
	800.0	0.09	345.46	800.0	3.6	-0.3	3.6	0.27	-0.25	34.65
	900.0	0.52	319.18	900.0	4.0	-0.6	4.0	0.44	0.43	-26.28

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Bison Wallow 34 Federal #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3001.0usft (Patterson)
Site:	Sec 34, T25S, R29E	MD Reference:	WELL @ 3001.0usft (Patterson)
Well:	Bison Wallow 34 Federal #2H	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	0.72	43.16	1,000.0	4.8	-0.4	4.8	0.84	0.20	83.98	
1,100.0	1.25	359.54	1,100.0	6.4	0.0	6.4	0.88	0.53	-43.62	
1,200.0	1.20	15.47	1,199.9	8.5	0.2	8.5	0.34	-0.05	15.93	
1,300.0	1.71	14.01	1,299.9	10.9	0.9	10.9	0.51	0.51	-1.46	
1,400.0	1.83	359.22	1,399.9	14.0	1.2	14.0	0.47	0.12	-14.79	
1,500.0	1.66	18.07	1,499.8	17.0	1.7	16.9	0.60	-0.17	18.85	
1,600.0	1.79	18.92	1,599.8	19.8	2.6	19.8	0.13	0.13	0.85	
1,700.0	2.05	18.50	1,699.7	23.0	3.7	22.9	0.26	0.26	-0.42	
1,800.0	2.16	35.67	1,799.6	26.2	5.4	26.2	0.64	0.11	17.17	
1,900.0	2.06	33.35	1,899.6	29.3	7.4	29.2	0.13	-0.10	-2.32	
2,000.0	1.93	36.76	1,999.5	32.1	9.4	32.0	0.18	-0.13	3.41	
2,100.0	1.92	30.43	2,099.5	34.9	11.3	34.8	0.21	-0.01	-6.33	
2,200.0	1.87	19.71	2,199.4	37.9	12.7	37.7	0.36	-0.05	-10.72	
2,300.0	1.67	30.87	2,299.4	40.7	14.0	40.5	0.40	-0.20	11.16	
2,400.0	1.59	20.10	2,399.3	43.2	15.2	43.0	0.32	-0.08	-10.77	
2,500.0	1.50	354.02	2,499.3	45.8	15.6	45.6	0.70	-0.09	-26.08	
2,600.0	2.08	328.53	2,599.2	48.7	14.5	48.5	0.97	0.58	-25.49	
2,700.0	2.25	326.95	2,699.2	51.9	12.4	51.7	0.18	0.17	-1.58	
2,800.0	3.43	310.33	2,799.0	55.4	9.1	55.3	1.43	1.18	-16.62	
2,900.0	3.41	309.98	2,898.9	59.3	4.5	59.2	0.03	-0.02	-0.35	
3,000.0	2.82	314.47	2,998.7	62.9	0.5	62.9	0.64	-0.59	4.49	
3,100.0	2.96	317.50	3,098.6	66.6	-3.0	66.6	0.21	0.14	3.03	
3,200.0	2.76	320.18	3,198.5	70.3	-6.3	70.4	0.24	-0.20	2.68	
3,300.0	2.51	323.16	3,298.4	73.9	-9.1	74.0	0.28	-0.25	2.98	
3,400.0	2.42	332.58	3,398.3	77.5	-11.4	77.7	0.41	-0.09	9.42	
3,500.0	2.50	341.48	3,498.2	81.5	-13.1	81.6	0.39	0.08	8.90	
3,600.0	1.97	335.70	3,598.1	85.1	-14.5	85.3	0.58	-0.53	-5.78	
3,700.0	1.84	334.40	3,698.0	88.1	-15.9	88.3	0.14	-0.13	-1.30	
3,800.0	1.82	328.55	3,798.0	90.9	-17.4	91.1	0.19	-0.02	-5.85	
3,900.0	1.60	328.64	3,897.9	93.5	-19.0	93.7	0.22	-0.22	0.09	
4,000.0	2.23	336.98	3,997.9	96.5	-20.5	96.7	0.69	0.63	8.34	
4,100.0	1.45	345.82	4,097.8	99.5	-21.5	99.7	0.83	-0.78	8.84	
4,200.0	1.54	328.29	4,197.8	101.8	-22.5	102.1	0.46	0.09	-17.53	
4,300.0	1.56	335.01	4,297.8	104.2	-23.8	104.5	0.18	0.02	6.72	
4,400.0	1.41	347.14	4,397.7	106.7	-24.7	106.9	0.35	-0.15	12.13	
4,500.0	1.13	354.19	4,497.7	108.8	-25.0	109.1	0.32	-0.28	7.05	
4,600.0	1.25	325.14	4,597.7	110.7	-25.8	111.0	0.61	0.12	-29.05	
4,700.0	1.38	333.31	4,697.7	112.7	-26.9	113.0	0.23	0.13	8.17	
4,800.0	1.42	342.67	4,797.6	114.9	-27.8	115.2	0.23	0.04	9.36	
4,900.0	1.56	352.87	4,897.6	117.5	-28.4	117.8	0.30	0.14	10.20	
5,000.0	1.82	5.25	4,997.6	120.4	-28.4	120.7	0.45	0.26	12.38	
5,100.0	1.91	8.84	5,097.5	123.6	-28.0	123.9	0.15	0.09	3.59	
5,200.0	1.97	8.53	5,197.4	127.0	-27.5	127.3	0.06	0.06	-0.31	

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Bison Wallow 34 Federal #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3001'0usft (Patterson)
Site:	Sec 34 T25S R29E	MD Reference:	WELL @ 3001'0usft (Patterson)
Well:	Bison Wallow 34 Federal #2H	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	2.00	6.82	5,297.4	130.4	-27.0	130.7	0.07	0.03	-1.71	
5,400.0	2.04	357.06	5,397.3	133.9	-26.9	134.2	0.35	0.04	-9.76	
5,500.0	1.81	351.64	5,497.3	137.3	-27.2	137.6	0.29	-0.23	-5.42	
5,600.0	1.67	11.11	5,597.2	140.3	-27.2	140.6	0.60	-0.14	19.47	
5,700.0	1.51	5.51	5,697.2	143.0	-26.8	143.3	0.22	-0.16	-5.60	
5,800.0	1.41	12.34	5,797.1	145.5	-26.4	145.8	0.20	-0.10	6.83	
5,900.0	1.19	9.39	5,897.1	147.7	-26.0	148.0	0.23	-0.22	-2.95	
6,000.0	1.22	8.62	5,997.1	149.8	-25.6	150.1	0.03	0.03	-0.77	
6,100.0	1.12	15.90	6,097.1	151.8	-25.2	152.1	0.18	-0.10	7.28	
6,200.0	0.95	7.61	6,197.1	153.6	-24.8	153.8	0.23	-0.17	-8.29	
6,300.0	1.03	21.24	6,297.0	155.2	-24.4	155.5	0.25	0.08	13.63	
6,400.0	0.84	12.86	6,397.0	156.8	-23.9	157.0	0.23	-0.19	-8.38	
6,500.0	0.63	31.22	6,497.0	158.0	-23.4	158.2	0.31	-0.21	18.36	
6,600.0	0.92	29.57	6,597.0	159.1	-22.8	159.4	0.29	0.29	-1.65	
6,700.0	0.90	339.69	6,697.0	160.6	-22.6	160.8	0.77	-0.02	-49.88	
6,800.0	1.05	38.75	6,797.0	162.0	-22.3	162.3	0.97	0.15	59.06	
6,900.0	1.00	62.82	6,897.0	163.1	-21.0	163.4	0.43	-0.05	24.07	
7,000.0	2.06	95.00	6,996.9	163.4	-18.4	163.6	1.33	1.06	32.18	
7,100.0	3.07	100.77	7,096.8	162.7	-14.0	162.9	1.04	1.01	5.77	
7,200.0	2.83	84.70	7,196.7	162.4	-8.9	162.5	0.86	-0.24	-16.07	
7,300.0	2.79	76.26	7,296.6	163.2	-4.1	163.3	0.42	-0.04	-8.44	
7,400.0	2.89	73.31	7,396.5	164.6	0.7	164.5	0.18	0.10	-2.95	
7,500.0	1.16	68.10	7,496.4	165.7	4.0	165.6	1.74	-1.73	-5.21	
7,600.0	1.72	60.29	7,596.4	166.8	6.3	166.7	0.59	0.56	-7.81	
7,700.0	1.58	63.54	7,696.3	168.1	8.8	168.0	0.17	-0.14	3.25	
7,800.0	1.30	62.12	7,796.3	169.3	11.1	169.1	0.28	-0.28	-1.42	
7,900.0	1.14	55.55	7,896.3	170.4	12.9	170.2	0.21	-0.16	-6.57	
8,000.0	1.43	69.00	7,996.3	171.4	14.9	171.2	0.42	0.29	13.45	
8,100.0	1.33	58.77	8,096.2	172.4	17.0	172.2	0.27	-0.10	-10.23	
TIE IN @ 8200' MD / 8196.2' TVD										
8,200.0	2.14	56.72	8,196.2	174.1	19.6	173.8	0.81	0.81	-2.05	
8,304.0	4.50	346.80	8,300.0	179.1	20.3	178.9	4.10	2.27	-67.23	
8,336.0	7.70	352.60	8,331.8	182.4	19.7	182.2	10.17	10.00	18.13	
8,367.0	10.40	356.20	8,362.5	187.3	19.3	187.1	8.89	8.71	11.61	
8,399.0	13.40	355.50	8,393.8	193.9	18.8	193.7	9.39	9.38	-2.19	
8,431.0	17.10	354.90	8,424.6	202.3	18.1	202.0	11.57	11.56	-1.88	
8,462.0	20.00	357.90	8,454.0	212.1	17.5	211.9	9.85	9.35	9.68	
8,494.0	23.20	0.00	8,483.8	223.9	17.3	223.7	10.29	10.00	6.56	
CROSSED HARDLINE @ 8509.2' MD / 8497.7' TVD										
8,509.2	24.38	0.72	8,497.7	230.0	17.3	229.8	7.96	7.73	4.73	
8,525.0	25.60	1.40	8,512.0	236.7	17.4	236.5	7.96	7.75	4.31	
8,557.0	27.00	1.70	8,540.7	250.9	17.8	250.6	4.39	4.38	0.94	
8,588.0	27.40	1.80	8,568.3	265.0	18.2	264.8	1.30	1.29	0.32	
8,620.0	29.10	0.50	8,596.4	280.2	18.5	279.9	5.65	5.31	-4.06	

DDC
Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Bison Wallow 34 Federal #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3001.0usft (Patterson)
Site:	Sec 34, T25S, R29E	MD Reference:	WELL @ 3001.0usft (Patterson)
Well:	Bison Wallow 34 Federal #2H	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)
8,651.0	33.10	0.40	8,623.0	296.2	18.7	295.9	12.90	12.90	-0.32
8,682.0	36.20	1.90	8,648.5	313.8	19.0	313.5	10.37	10.00	4.84
8,714.0	39.40	3.10	8,673.8	333.4	19.9	333.1	10.26	10.00	3.75
8,745.0	43.10	3.00	8,697.1	353.8	21.0	353.5	11.94	11.94	-0.32
8,777.0	46.50	1.90	8,719.8	376.3	21.9	376.0	10.90	10.63	-3.44
8,808.0	50.20	1.90	8,740.4	399.5	22.7	399.2	11.94	11.94	0.00
8,840.0	53.80	2.30	8,760.1	424.6	23.6	424.4	11.29	11.25	1.25
8,871.0	57.80	2.50	8,777.5	450.3	24.7	450.0	12.91	12.90	0.65
8,903.0	62.00	2.40	8,793.5	477.9	25.9	477.6	13.13	13.13	-0.31
8,934.0	65.90	1.70	8,807.1	505.7	26.9	505.4	12.74	12.58	-2.26
8,966.0	70.00	1.00	8,819.2	535.4	27.6	535.0	12.97	12.81	-2.19
8,997.0	74.00	0.90	8,828.7	564.9	28.1	564.5	12.91	12.90	-0.32
9,029.0	78.20	1.60	8,836.4	595.9	28.7	595.5	13.30	13.13	2.19
9,061.0	82.50	2.70	8,841.8	627.4	29.9	627.0	13.86	13.44	3.44
9,087.0	86.10	2.90	8,844.4	653.3	31.2	652.9	13.87	13.85	0.77
9,170.0	91.80	0.20	8,845.9	736.2	33.4	735.7	7.60	6.87	-3.25
9,201.0	91.50	359.70	8,845.0	767.2	33.4	766.7	1.88	-0.97	-1.61
9,233.0	91.20	359.10	8,844.2	799.2	33.1	798.7	2.10	-0.94	-1.88
9,265.0	91.70	358.50	8,843.4	831.1	32.4	830.7	2.44	1.56	-1.88
9,296.0	92.90	358.30	8,842.2	862.1	31.5	861.7	3.92	3.87	-0.65
9,328.0	92.90	358.10	8,840.6	894.0	30.5	893.6	0.62	0.00	-0.63
9,360.0	92.30	359.30	8,839.1	926.0	29.8	925.6	4.19	-1.88	3.75
9,391.0	92.80	359.60	8,837.7	957.0	29.5	956.6	1.88	1.61	0.97
9,423.0	93.40	358.80	8,836.0	988.9	29.1	988.5	3.12	1.88	-2.50
9,455.0	92.80	359.30	8,834.3	1,020.9	28.5	1,020.5	2.44	-1.88	1.56
9,486.0	91.10	359.70	8,833.2	1,051.8	28.3	1,051.5	5.63	-5.48	1.29
9,517.0	89.00	359.20	8,833.2	1,082.8	28.0	1,082.5	6.96	-6.77	-1.61
9,549.0	88.80	359.00	8,833.8	1,114.8	27.5	1,114.4	0.88	-0.63	-0.63
9,580.0	89.10	359.00	8,834.4	1,145.8	26.9	1,145.4	0.97	0.97	0.00
9,612.0	90.20	358.50	8,834.6	1,177.8	26.2	1,177.4	3.78	3.44	-1.56
9,643.0	89.50	358.20	8,834.6	1,208.8	25.3	1,208.4	2.46	-2.26	-0.97
9,675.0	88.60	358.10	8,835.2	1,240.8	24.3	1,240.4	2.83	-2.81	-0.31
9,707.0	88.40	357.80	8,836.0	1,272.7	23.2	1,272.4	1.13	-0.63	-0.94
9,738.0	88.40	357.40	8,836.9	1,303.7	21.9	1,303.4	1.29	0.00	-1.29
9,770.0	88.90	357.00	8,837.6	1,335.7	20.3	1,335.3	2.00	1.56	-1.25
9,833.0	90.20	357.50	8,838.1	1,398.6	17.3	1,398.3	2.21	2.06	0.79
9,865.0	90.70	356.30	8,837.9	1,430.5	15.5	1,430.3	4.06	1.56	-3.75
9,928.0	92.10	357.70	8,836.3	1,493.4	12.2	1,493.2	3.14	2.22	2.22
9,992.0	91.60	357.50	8,834.3	1,557.3	9.6	1,557.1	0.84	-0.78	-0.31
10,055.0	91.30	359.00	8,832.7	1,620.3	7.6	1,620.1	2.43	-0.48	2.38
10,119.0	91.10	0.50	8,831.3	1,684.3	7.4	1,684.1	2.36	-0.31	2.34
10,182.0	91.50	0.00	8,829.9	1,747.3	7.6	1,747.1	1.02	0.63	-0.79
10,245.0	90.40	0.00	8,828.9	1,810.2	7.6	1,810.0	1.75	-1.75	0.00

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well: Bison Wallow 34 Federal #2H
Project:	Eddy County, New Mexico (Nad83)	TVD Reference:	WELL @ 3001.0usft (Patterson)
Site:	Sec 34 T25S R29E	MD Reference:	WELL @ 3001.0usft (Patterson)
Well:	Bison Wallow 34 Federal #2H	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)	
10,309.0	90.90	359.40	8,828.1	1,874.2	7.3	1,874.0	1.22	0.78	-0.94	
10,372.0	91.00	1.20	8,827.1	1,937.2	7.6	1,937.0	2.86	0.16	2.86	
10,435.0	87.90	3.50	8,827.7	2,000.2	10.2	1,999.9	6.13	-4.92	3.65	
10,499.0	89.10	3.30	8,829.4	2,064.0	14.0	2,063.7	1.90	1.88	-0.31	
10,561.0	88.50	3.60	8,830.7	2,125.9	17.7	2,125.6	1.08	-0.97	0.48	
10,625.0	88.60	3.00	8,832.3	2,189.8	21.4	2,189.4	0.95	0.16	-0.94	
10,688.0	90.90	3.20	8,832.6	2,252.7	24.8	2,252.2	3.66	3.65	0.32	
10,720.0	90.80	2.10	8,832.1	2,284.6	26.3	2,284.2	3.45	-0.31	-3.44	
10,783.0	89.90	0.80	8,831.7	2,347.6	27.9	2,347.1	2.51	-1.43	-2.06	
10,846.0	90.20	0.40	8,831.7	2,410.6	28.6	2,410.1	0.79	0.48	-0.63	
10,909.0	90.80	359.50	8,831.1	2,473.6	28.5	2,473.1	1.72	0.95	-1.43	
10,973.0	91.20	359.50	8,830.0	2,537.6	28.0	2,537.1	0.63	0.63	0.00	
11,004.0	88.80	355.90	8,830.0	2,568.6	26.7	2,568.1	13.96	-7.74	-11.61	
11,036.0	88.30	354.70	8,830.8	2,600.4	24.1	2,600.0	4.06	-1.56	-3.75	
11,068.0	88.00	354.20	8,831.8	2,632.3	21.0	2,631.9	1.82	-0.94	-1.56	
11,099.0	89.20	354.90	8,832.6	2,663.1	18.1	2,662.7	4.48	3.87	2.26	
11,131.0	90.70	355.50	8,832.6	2,695.0	15.4	2,694.7	5.05	4.69	1.88	
11,163.0	91.30	354.90	8,832.1	2,726.9	12.7	2,726.6	2.65	1.88	-1.88	
11,194.0	89.10	354.40	8,831.9	2,757.8	9.8	2,757.5	7.28	-7.10	-1.61	
11,226.0	88.00	353.80	8,832.8	2,789.6	6.5	2,789.3	3.92	-3.44	-1.88	
11,257.0	87.90	354.50	8,833.9	2,820.4	3.4	2,820.2	2.28	-0.32	2.26	
11,289.0	87.50	355.50	8,835.1	2,852.2	0.6	2,852.1	3.36	-1.25	3.13	
11,321.0	87.90	356.00	8,836.4	2,884.1	-1.8	2,884.0	2.00	1.25	1.56	
11,352.0	89.10	355.90	8,837.2	2,915.0	-4.0	2,914.9	3.88	3.87	-0.32	
11,383.0	90.60	356.00	8,837.3	2,946.0	-6.2	2,945.8	4.85	4.84	0.32	
11,415.0	89.90	355.80	8,837.2	2,977.9	-8.5	2,977.8	2.28	-2.19	-0.63	
11,446.0	90.20	356.60	8,837.2	3,008.8	-10.5	3,008.7	2.76	0.97	2.58	
11,478.0	92.00	357.20	8,836.5	3,040.8	-12.2	3,040.7	5.93	5.63	1.88	
11,509.0	93.10	356.40	8,835.2	3,071.7	-14.0	3,071.6	4.39	3.55	-2.58	
11,541.0	93.40	355.70	8,833.4	3,103.6	-16.2	3,103.5	2.38	0.94	-2.19	
11,573.0	93.50	357.00	8,831.4	3,135.4	-18.2	3,135.4	4.07	0.31	4.06	
11,604.0	93.20	357.00	8,829.6	3,166.3	-19.8	3,166.4	0.97	-0.97	0.00	
11,635.0	92.00	356.70	8,828.2	3,197.3	-21.5	3,197.3	3.99	-3.87	-0.97	
11,667.0	90.20	357.10	8,827.6	3,229.2	-23.3	3,229.3	5.76	-5.63	1.25	
11,698.0	90.10	357.20	8,827.5	3,260.2	-24.8	3,260.2	0.46	-0.32	0.32	
11,730.0	90.30	355.70	8,827.4	3,292.1	-26.8	3,292.2	4.73	0.63	-4.69	
11,762.0	88.80	352.00	8,827.7	3,323.9	-30.2	3,324.0	12.48	-4.69	-11.56	
11,793.0	88.40	351.50	8,828.4	3,354.6	-34.7	3,354.8	2.07	-1.29	-1.61	
11,825.0	89.60	352.90	8,829.0	3,386.3	-39.0	3,386.5	5.76	3.75	4.38	
11,856.0	89.70	354.10	8,829.2	3,417.1	-42.5	3,417.3	3.88	0.32	3.87	
11,888.0	89.50	355.50	8,829.4	3,448.9	-45.4	3,449.2	4.42	-0.63	4.38	
11,919.0	89.80	355.90	8,829.6	3,479.9	-47.7	3,480.2	1.61	0.97	1.29	
11,951.0	90.50	356.10	8,829.5	3,511.8	-50.0	3,512.1	2.28	2.19	0.63	

DDC
Survey Report



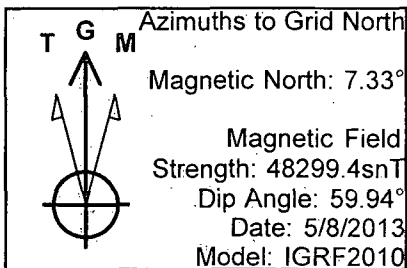
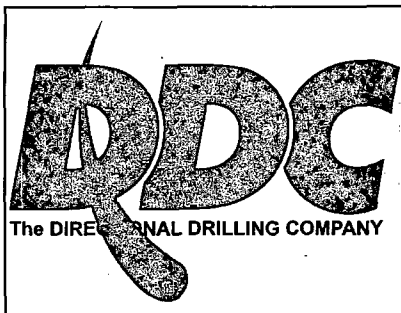
Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Bison Wallow 34 Federal #2H
Project:	Eddy County, New Mexico (Nad 83)	TVD Reference:	WELL @ 3001.0usft (Patterson)
Site:	Sec 34, T25S, R29E	MD Reference:	WELL @ 3001.0usft (Patterson)
Well:	Bison Wallow 34 Federal #2H	North Reference:	Grid
Wellbore:	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)
11,982.0	90.50	356.80	8,829.2	3,542.7	-51.9	3,543.1	2.26	0.00	2.26
12,014.0	89.90	358.00	8,829.1	3,574.7	-53.3	3,575.1	4.19	-1.88	3.75
12,045.0	89.30	358.80	8,829.3	3,605.7	-54.2	3,606.0	3.23	-1.94	2.58
12,077.0	89.50	0.80	8,829.7	3,637.7	-54.3	3,638.0	6.28	0.63	6.25
12,108.0	90.50	2.10	8,829.7	3,668.7	-53.5	3,669.0	5.29	3.23	4.19
12,140.0	89.10	1.00	8,829.8	3,700.6	-52.7	3,701.0	5.56	-4.38	-3.44
12,171.0	90.00	0.60	8,830.0	3,731.6	-52.2	3,732.0	3.18	2.90	-1.29
12,203.0	89.50	0.50	8,830.2	3,763.6	-51.9	3,764.0	1.59	-1.56	-0.31
12,235.0	89.50	359.90	8,830.4	3,795.6	-51.8	3,796.0	1.87	0.00	-1.88
12,266.0	90.10	1.40	8,830.5	3,826.6	-51.5	3,827.0	5.21	1.94	4.84
12,298.0	90.70	2.50	8,830.3	3,858.6	-50.4	3,858.9	3.92	1.88	3.44
12,330.0	89.60	2.10	8,830.2	3,890.6	-49.1	3,890.9	3.66	-3.44	-1.25
12,361.0	89.90	3.80	8,830.4	3,921.5	-47.5	3,921.8	5.57	0.97	5.48
12,424.0	89.20	3.50	8,830.9	3,984.4	-43.5	3,984.6	1.21	-1.11	-0.48
12,456.0	87.50	1.80	8,831.8	4,016.4	-42.0	4,016.6	7.51	-5.31	-5.31
12,488.0	88.80	0.80	8,832.8	4,048.3	-41.3	4,048.5	5.12	4.06	-3.13
12,519.0	91.20	2.10	8,832.8	4,079.3	-40.5	4,079.5	8.80	7.74	4.19
12,583.0	90.00	359.30	8,832.1	4,143.3	-39.7	4,143.5	4.76	-1.88	-4.38
12,614.0	90.10	358.70	8,832.1	4,174.3	-40.3	4,174.5	1.96	0.32	-1.94
12,646.0	91.60	359.20	8,831.6	4,206.3	-40.8	4,206.5	4.94	4.69	1.56
12,677.0	92.40	0.60	8,830.6	4,237.3	-40.9	4,237.5	5.20	2.58	4.52
12,709.0	92.10	0.60	8,829.3	4,269.2	-40.6	4,269.4	0.94	-0.94	0.00
12,741.0	91.40	1.80	8,828.3	4,301.2	-39.9	4,301.4	4.34	-2.19	3.75
12,772.0	91.60	1.50	8,827.5	4,332.2	-39.0	4,332.4	1.16	0.65	-0.97
12,804.0	91.10	1.00	8,826.8	4,364.2	-38.3	4,364.3	2.21	-1.56	-1.56
12,835.0	90.50	0.50	8,826.3	4,395.2	-37.9	4,395.3	2.52	-1.94	-1.61
12,867.0	89.80	359.30	8,826.2	4,427.2	-37.9	4,427.3	4.34	-2.19	-3.75
12,898.0	90.30	358.20	8,826.2	4,458.2	-38.6	4,458.3	3.90	1.61	-3.55
12,930.0	90.50	357.00	8,826.0	4,490.1	-40.0	4,490.3	3.80	0.63	-3.75
12,993.0	90.60	357.10	8,825.4	4,553.0	-43.2	4,553.2	0.22	0.16	0.16
13,025.0	90.70	357.70	8,825.0	4,585.0	-44.7	4,585.2	1.90	0.31	1.88
13,056.0	89.60	358.00	8,824.9	4,616.0	-45.8	4,616.2	3.68	-3.55	0.97
13,120.0	87.90	357.80	8,826.3	4,679.9	-48.2	4,680.2	2.67	-2.66	-0.31
13,183.0	88.40	358.20	8,828.4	4,742.9	-50.4	4,743.1	1.02	0.79	0.63
13,246.0	89.10	358.00	8,829.8	4,805.8	-52.5	4,806.1	1.16	1.11	-0.32
13,265.0	89.40	357.40	8,830.0	4,824.8	-53.2	4,825.1	3.53	1.58	-3.16
13,315.0	89.40	357.40	8,830.5	4,874.7	-55.5	4,875.1	0.00	0.00	0.00

Company Name: Mewbourne Oil Co
Bison Wallow 34 Federal #2H
Eddy County, New Mexico (Nad 83)
Rig: Patterson
Created By: TIFFANI MIZELL
Date: 5/29/2013

Bison Wallow 34 Federal #2H
Eddy County, New Mexico (Nad 83)
Q130358 & WT-13376
Design #2 Tie-In

Mewbourne Oil Company



PROJECT DETAILS: Eddy County, New Mexico (Nad 83)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: Bison Wallow 34 Federal #2H

Ground Level: 2981.0		Northing		Easting		Latitude		Longitude	
+N/-S	+E/-W	392761.80	655397.03	32° 4' 45.288 N	103° 57' 54.249 W				

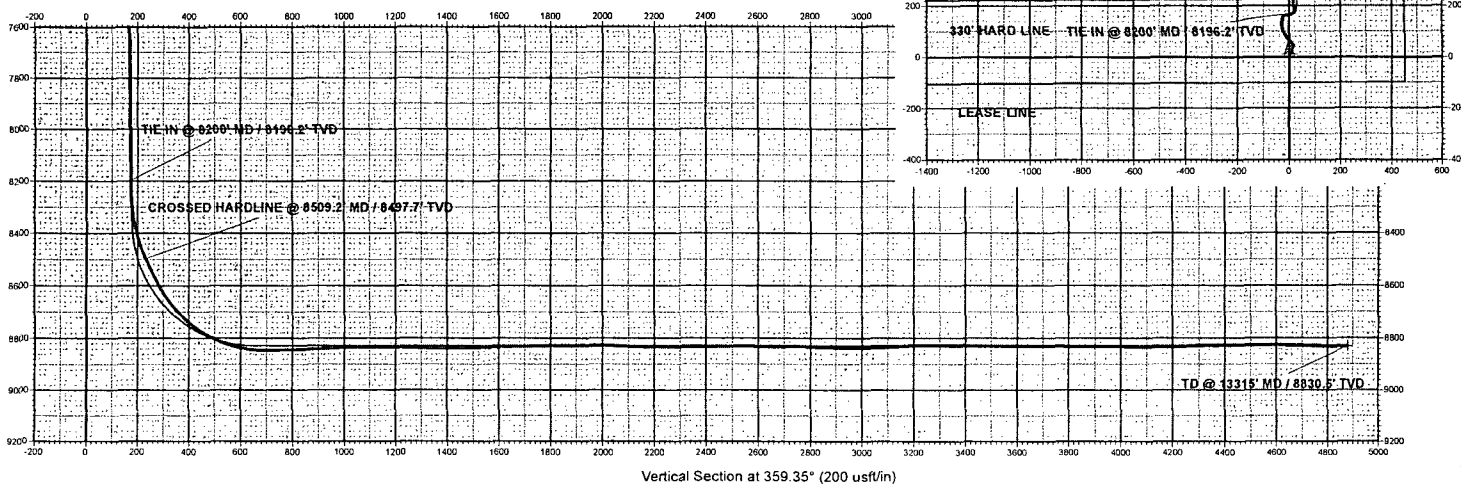
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL Bison Wallow 34 Federal #2H Design #1	8829.0	4879.8	-14.2	397641.56	655382.82	32° 5' 33.579 N	103° 57' 54.221 W

- plan hits target center

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
8200.0	2.14	56.72	8196.2	174.1	19.6	173.8	229.2	TIE IN @ 8200' MD / 8196.2' TVD
8509.2	24.38	0.72	8497.7	230.0	17.3	229.8	286.4	CROSSED HARDLINE @ 8509.2' MD / 8497.7' TVD
13315.0	89.40	357.40	8830.5	4874.7	-55.5	4875.1	4936.6	TD @ 13315' MD / 8830.5' TVD



Vertical Section at 359.35° (200 usf/in)

