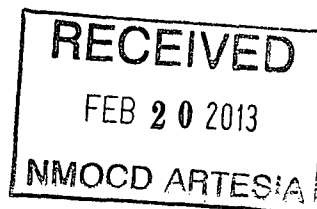


30-015-40909



Mewbourne Oil Co

Eddy County, New Mexico

Sec 24-T19S-R25E

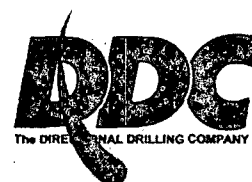
Wyatt Draw 24-25 IH Federal Com #1H

Wellbore #1

Design: Wellbore #1

DDC Survey Report

22 January, 2013



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24-25 IH Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3406.0usft (Patterson #41)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3406.0usft (Patterson #41)
Well:	Wyatt Draw 24-25 IH Federal 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 24-T19S-R25E			
Site Position:		Northing:	597,128.75 usft	Latitude:	32° 38' 29.628 N
From:	Map	Easting:	466,881.19 usft	Longitude:	104° 26' 27.333 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.06 °

Well	Wyatt Draw 24-25 IH Federal Com #1H					
Well Position	+N-S	0.0 usft	Northing:	598,156.52 usft	Latitude:	32° 38' 39.825 N
	+E-W	0.0 usft	Easting:	469,636.19 usft	Longitude:	104° 25' 55.124 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,387.0 usft

Wellbore	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/2/2013	7.82	60.39	48,618

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	180.23

Survey Program		Date: 1/22/2013			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	2,206.0	Gyro (Wellbore #1)	Good_gyro	Good Gyro	
2,279.0	6,935.0	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	0.47	117.10	100.0	-0.2	0.4	0.2	0.47	0.47	0.00
200.0	0.69	126.08	200.0	-0.7	1.2	0.7	0.24	0.22	8.98
300.0	1.04	147.46	300.0	-1.8	2.2	1.8	0.47	0.35	21.38
400.0	1.26	156.03	400.0	-3.6	3.1	3.6	0.28	0.22	8.57
500.0	1.37	155.86	499.9	-5.7	4.1	5.7	0.11	0.11	-0.17
600.0	1.40	156.21	599.9	-7.9	5.0	7.9	0.03	0.03	0.35
700.0	1.42	156.12	699.9	-10.2	6.0	10.1	0.02	0.02	-0.09
800.0	1.25	160.95	799.8	-12.3	6.9	12.3	0.20	-0.17	4.83
900.0	1.01	155.64	899.8	-14.2	7.6	14.1	0.26	-0.24	-5.31

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24:25 IH Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3406.0usft (Patterson #41)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3406.0usft (Patterson #41)
Well:	Wyatt Draw 24:25 IH Federal 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	1.00	156.19	999.8	-15.8	8.3	15.7	0.01	-0.01	0.55
1,100.0	0.91	154.56	1,099.8	-17.3	9.0	17.3	0.09	-0.09	-1.63
1,200.0	0.86	161.00	1,199.8	-18.7	9.6	18.7	0.11	-0.05	6.44
1,300.0	0.79	159.03	1,299.8	-20.1	10.1	20.0	0.08	-0.07	-1.97
1,400.0	0.74	167.89	1,399.8	-21.3	10.5	21.3	0.13	-0.05	8.86
1,500.0	1.02	172.03	1,499.8	-22.9	10.7	22.8	0.29	0.28	4.14
1,600.0	0.93	183.48	1,599.7	-24.5	10.8	24.5	0.21	-0.09	11.45
1,700.0	0.75	173.79	1,699.7	-26.0	10.8	26.0	0.23	-0.18	-9.69
1,800.0	0.66	202.26	1,799.7	-27.2	10.7	27.1	0.36	-0.09	28.47
1,900.0	0.86	203.37	1,899.7	-28.4	10.2	28.4	0.20	0.20	1.11
2,000.0	0.97	193.78	1,999.7	-29.9	9.7	29.9	0.19	0.11	-9.59
2,100.0	0.71	214.20	2,099.7	-31.3	9.1	31.2	0.39	-0.26	20.42
2,200.0	1.11	212.44	2,199.7	-32.6	8.3	32.6	0.40	0.40	-1.76
TIE IN @ 2206' MD / 2206' TVD									
2,206.0	1.11	213.86	2,205.7	-32.7	8.2	32.7	0.46	0.00	23.67
2,279.0	0.80	227.50	2,278.7	-33.6	7.4	33.6	0.52	-0.42	18.68
2,310.0	0.50	221.50	2,309.7	-33.9	7.2	33.8	0.99	-0.97	-19.35
2,342.0	1.90	200.30	2,341.7	-34.5	6.9	34.4	4.52	4.38	-66.25
2,373.0	6.10	190.40	2,372.6	-36.6	6.4	36.5	13.68	13.55	-31.94
2,405.0	10.10	189.30	2,404.3	-41.0	5.7	41.0	12.51	12.50	-3.44
2,436.0	14.10	188.70	2,434.6	-47.4	4.7	47.4	12.91	12.90	-1.94
2,468.0	18.10	185.90	2,465.3	-56.2	3.6	56.2	12.73	12.50	-8.75
2,499.0	22.00	183.80	2,494.4	-66.8	2.7	66.8	12.79	12.58	-6.77
2,531.0	26.10	183.90	2,523.6	-79.8	1.8	79.8	12.81	12.81	0.31
2,562.0	29.90	183.90	2,551.0	-94.3	0.8	94.3	12.26	12.26	0.00
2,594.0	33.50	182.50	2,578.2	-111.1	-0.1	111.1	11.48	11.25	-4.38
2,626.0	37.00	180.40	2,604.3	-129.6	-0.6	129.6	11.57	10.94	-6.56
2,657.0	39.80	178.30	2,628.6	-148.8	-0.3	148.8	9.96	9.03	-6.77
2,689.0	43.10	178.10	2,652.6	-170.0	0.3	170.0	10.32	10.31	-0.63
2,720.0	46.70	178.90	2,674.6	-191.9	0.9	191.9	11.75	11.61	2.58
2,752.0	50.20	180.60	2,695.8	-215.8	1.0	215.8	11.64	10.94	5.31
2,783.0	53.20	181.10	2,715.0	-240.1	0.6	240.1	9.76	9.68	1.61
2,815.0	56.70	181.20	2,733.4	-266.3	0.1	266.3	10.94	10.94	0.31
2,847.0	60.70	181.40	2,750.0	-293.7	-0.5	293.7	12.51	12.50	0.63
2,878.0	65.10	181.00	2,764.1	-321.2	-1.1	321.2	14.24	14.19	-1.29
2,910.0	69.30	181.30	2,776.5	-350.7	-1.7	350.7	13.15	13.13	0.94
2,941.0	72.30	181.70	2,786.7	-380.0	-2.5	380.0	9.75	9.68	1.29
2,973.0	75.90	181.10	2,795.5	-410.8	-3.2	410.8	11.39	11.25	-1.88
3,004.0	79.80	180.30	2,802.0	-441.1	-3.6	441.1	12.83	12.58	-2.58
3,040.0	84.80	180.20	2,806.8	-476.7	-3.7	476.7	13.89	13.89	-0.28
3,098.0	90.00	181.00	2,809.5	-534.6	-4.3	534.6	9.07	8.97	1.38
3,130.0	90.10	180.00	2,809.4	-566.6	-4.6	566.6	3.14	0.31	-3.13
3,161.0	90.00	180.10	2,809.4	-597.6	-4.7	597.6	0.46	-0.32	0.32

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw: 24-25 IH Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3406.0usft (Patterson #41)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3406.0usft (Patterson #41)
Well:	Wyatt Draw: 24-25 IH Federal 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)
3,193.0	90.00	180.00	2,809.4	-629.6	-4.7	629.6	0.31	0.00	-0.31
3,225.0	89.80	179.80	2,809.5	-661.6	-4.6	661.6	0.88	-0.63	-0.63
3,288.0	89.70	179.80	2,809.7	-724.6	-4.4	724.6	0.16	-0.16	0.00
3,351.0	89.60	179.90	2,810.1	-787.6	-4.2	787.6	0.22	-0.16	0.16
3,415.0	90.20	180.30	2,810.2	-851.6	-4.4	851.6	1.13	0.94	0.63
3,478.0	90.10	180.60	2,810.1	-914.6	-4.8	914.6	0.50	-0.16	0.48
3,542.0	90.30	181.10	2,809.8	-978.6	-5.8	978.6	0.84	0.31	0.78
3,605.0	90.40	181.00	2,809.5	-1,041.6	-7.0	1,041.6	0.22	0.16	-0.16
3,668.0	90.60	181.20	2,808.9	-1,104.6	-8.2	1,104.6	0.45	0.32	0.32
3,731.0	90.70	181.60	2,808.2	-1,167.6	-9.7	1,167.6	0.65	0.16	0.63
3,795.0	90.40	181.70	2,807.6	-1,231.5	-11.5	1,231.6	0.49	-0.47	0.16
3,858.0	89.90	181.30	2,807.4	-1,294.5	-13.2	1,294.6	1.02	-0.79	-0.63
3,921.0	89.50	181.30	2,807.7	-1,357.5	-14.6	1,357.5	0.63	-0.63	0.00
3,984.0	89.40	180.40	2,808.3	-1,420.5	-15.6	1,420.5	1.44	-0.16	-1.43
4,048.0	89.40	180.00	2,809.0	-1,484.5	-15.8	1,484.5	0.62	0.00	-0.63
4,111.0	90.00	179.90	2,809.3	-1,547.5	-15.7	1,547.5	0.97	0.95	-0.16
4,175.0	90.40	180.10	2,809.1	-1,611.5	-15.7	1,611.5	0.70	0.63	0.31
4,238.0	90.70	180.50	2,808.5	-1,674.5	-16.1	1,674.5	0.79	0.48	0.63
4,301.0	90.90	180.60	2,807.6	-1,737.5	-16.7	1,737.5	0.35	0.32	0.16
4,365.0	89.90	179.80	2,807.2	-1,801.5	-16.9	1,801.5	2.00	-1.56	-1.25
4,428.0	90.00	179.60	2,807.2	-1,864.5	-16.6	1,864.5	0.35	0.16	-0.32
4,492.0	89.80	179.30	2,807.4	-1,928.5	-15.9	1,928.5	0.56	-0.31	-0.47
4,555.0	90.20	179.70	2,807.4	-1,991.5	-15.4	1,991.5	0.90	0.63	0.63
4,618.0	90.30	179.70	2,807.1	-2,054.5	-15.1	2,054.5	0.16	0.16	0.00
4,681.0	90.20	179.60	2,806.8	-2,117.5	-14.7	2,117.5	0.22	-0.16	-0.16
4,741.0	90.20	179.40	2,806.6	-2,177.5	-14.1	2,177.5	0.33	0.00	-0.33
4,803.0	90.10	179.20	2,806.4	-2,239.5	-13.4	2,239.5	0.36	-0.16	-0.32
4,864.0	90.10	179.40	2,806.3	-2,300.4	-12.6	2,300.5	0.33	0.00	0.33
4,927.0	90.20	179.60	2,806.2	-2,363.4	-12.1	2,363.5	0.35	0.16	0.32
4,987.0	90.30	179.80	2,805.9	-2,423.4	-11.8	2,423.5	0.37	0.17	0.33
5,048.0	90.50	180.10	2,805.5	-2,484.4	-11.7	2,484.5	0.59	0.33	0.49
5,109.0	91.00	180.70	2,804.7	-2,545.4	-12.2	2,545.5	1.28	0.82	0.98
5,171.0	90.20	180.80	2,804.0	-2,607.4	-13.0	2,607.5	1.30	-1.29	0.16
5,232.0	90.10	180.80	2,803.9	-2,668.4	-13.8	2,668.5	0.16	-0.16	0.00
5,293.0	89.00	180.90	2,804.3	-2,729.4	-14.7	2,729.4	1.81	-1.80	0.16
5,354.0	88.20	180.40	2,805.8	-2,790.4	-15.4	2,790.4	1.55	-1.31	-0.82
5,414.0	88.90	180.40	2,807.4	-2,850.4	-15.8	2,850.4	1.17	1.17	0.00
5,476.0	88.80	180.10	2,808.6	-2,912.4	-16.1	2,912.4	0.51	-0.16	-0.48
5,535.0	89.80	179.40	2,809.3	-2,971.3	-15.8	2,971.4	2.07	1.69	-1.19
5,597.0	90.20	179.00	2,809.3	-3,033.3	-15.0	3,033.4	0.91	0.65	-0.65
5,660.0	90.00	178.30	2,809.2	-3,096.3	-13.5	3,096.4	1.16	-0.32	-1.11
5,723.0	91.40	179.30	2,808.4	-3,159.3	-12.2	3,159.3	2.73	2.22	1.59
5,786.0	91.70	179.90	2,806.7	-3,222.3	-11.7	3,222.3	1.06	0.48	0.95

DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24-25 IH Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3406.0usft (Patterson #41)
Site:	Sec 24-T19S-R25E	MD Reference:	WELL @ 3406.0usft (Patterson #41)
Well:	Wyatt Draw 24-25 IH Federal 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)
5,849.0	90.00	180.40	2,805.8	-3,285.3	-11.9	3,285.3	2.81	-2.70	0.79
5,912.0	89.20	180.40	2,806.2	-3,348.3	-12.3	3,348.3	1.27	-1.27	0.00
5,976.0	89.10	180.70	2,807.2	-3,412.3	-13.0	3,412.3	0.49	-0.16	0.47
6,039.0	89.90	179.80	2,807.7	-3,475.2	-13.2	3,475.3	1.91	1.27	-1.43
6,102.0	90.10	179.20	2,807.7	-3,538.2	-12.7	3,538.3	1.00	0.32	-0.95
6,166.0	90.30	179.60	2,807.5	-3,602.2	-12.0	3,602.3	0.70	0.31	0.63
6,229.0	90.20	179.60	2,807.2	-3,665.2	-11.6	3,665.3	0.16	-0.16	0.00
6,292.0	90.30	179.80	2,807.0	-3,728.2	-11.2	3,728.3	0.35	0.16	0.32
6,356.0	90.60	180.30	2,806.5	-3,792.2	-11.3	3,792.2	0.91	0.47	0.78
6,419.0	90.70	180.70	2,805.8	-3,855.2	-11.8	3,855.2	0.65	0.16	0.63
6,482.0	91.00	180.80	2,804.8	-3,918.2	-12.7	3,918.2	0.50	0.48	0.16
6,544.0	91.20	181.10	2,803.6	-3,980.2	-13.7	3,980.2	0.58	0.32	0.48
6,608.0	90.90	181.10	2,802.5	-4,044.2	-14.9	4,044.2	0.47	-0.47	0.00
6,671.0	90.60	181.10	2,801.6	-4,107.2	-16.1	4,107.2	0.48	-0.48	0.00
6,734.0	90.30	181.20	2,801.1	-4,170.1	-17.4	4,170.2	0.50	-0.48	0.16
6,797.0	90.30	181.80	2,800.8	-4,233.1	-19.1	4,233.2	0.95	0.00	0.95
6,861.0	89.30	182.00	2,801.0	-4,297.1	-21.2	4,297.1	1.59	-1.56	0.31
6,888.0	89.30	182.00	2,801.4	-4,324.1	-22.1	4,324.1	0.00	0.00	0.00
TD @ 6935' MD / 2802' TVD									
6,935.0	89.30	182.00	2,801.9	-4,371.0	-23.8	4,371.1	0.00	0.00	0.00

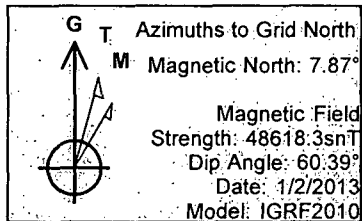
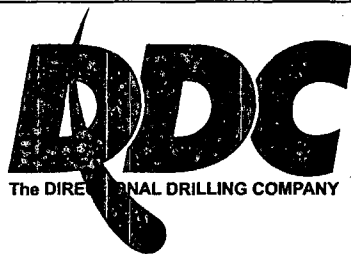
Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,206.0	2,205.7	-32.7	8.2	TIE IN @ 2206' MD / 2206' TVD
6,935.0	2,801.9	-4,371.0	-23.8	TD @ 6935' MD / 2802' TVD

Checked By: _____ Approved By: _____ Date: _____

Company Name: Mewbourne Oil Co
Wyatt Draw 24-25 IH Federal Com #1H
Eddy County, New Mexico
Rig: Patterson #41
Created By: Dina Chance
Date: 1/25/2013

Wyatt Draw 24-25 IH Federal Com #1H
Eddy County, New Mexico
Q130003 & WT-13022
Design #2

Mewbourne Oil Company

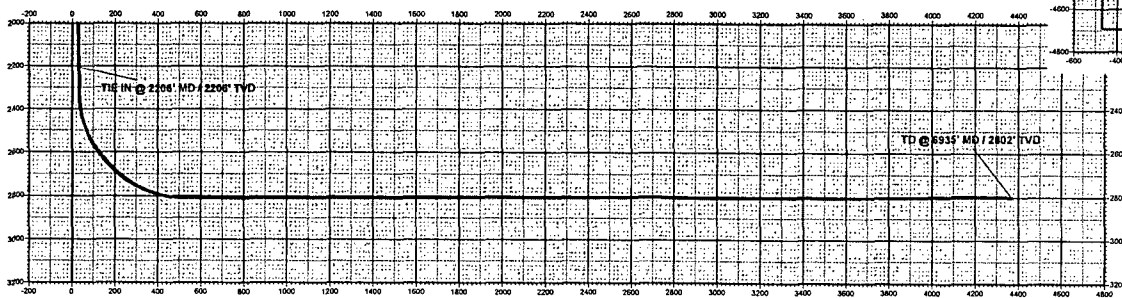


PROJECT DETAILS: Eddy County, New Mexico	
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

WELL DETAILS: Wyatt Draw 24-25 IH Federal Com #1H	
Ground Level:	3387.0
+N/-S +E/-W	Northings Eastings
0.0 0.0	588166.82 469826.19 32° 39' 39.825 N 104° 25' 55.124 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northings	Eastings	Latitude
PBH Wyatt Draw 24-25 IH Federal Com #1H Design #1	2804.0	-4374.6	-17.3	693761.92	469615.89	32° 37' 56.635 N
- plan hills target center						104° 25' 55.279 W

ANNOTATIONS									
MD	Inc	Adj	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
2206.0	1.11	213.86	2205.7	-32.7	8.2	32.7	36.2	TIE IN @ 2206' MD / 2206' TVD	
6935.0	89.30	182.00	2501.9	-4371.0	-23.8	4371.1	4376.9	TD @ 6935' MD / 2802' TVD	



Vertical Section at 180.23° (200 usft/in)

