

OPERATOR MEWBOURNE OIL COMPANY
WELL/LEASE WYATT DRAW 24/25 OG FED COM 1H
COUNTY EDDY

101-0104

STATE OF NEW MEXICO
DEVIATION REPORT

30-015-39821

480	1.70
1,235	1.25
1,586	1.52
1,800	1.50

STATE OF TEXAS

COUNTY OF MIDLAND

BY: *Kyle Hollingsworth*

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

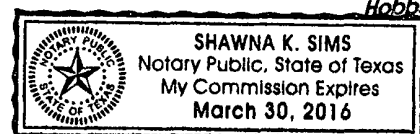
Shawna K Sims
Notary Public for Midland County, Texas
My Commission Expires:

Received

4/30/12

, by MAY 03 2012

Mewbourne Oil Company
Hobbs





Company: Mewbourne Oil Company
Lease/Well: Wyatt Draw 24/25 OG Federal Com/No. 001H
Location: 14 Miles South of Artesia
Rig Name: Patterson 101
State/County: New Mexico/Eddy
Latitude: 32.85
GRID North is 0.06 Degrees West of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 18.5 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...w 25 -25 og fed com #1h_ed.ut

Minimum Curvature Method

Report Date/Time: 4/16/2012 / 09:44

Vaughn Energy Services

Midland, Texas

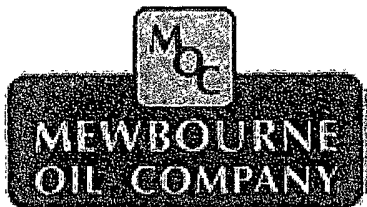
432-563-5444

Surveyor: Eric McMahon

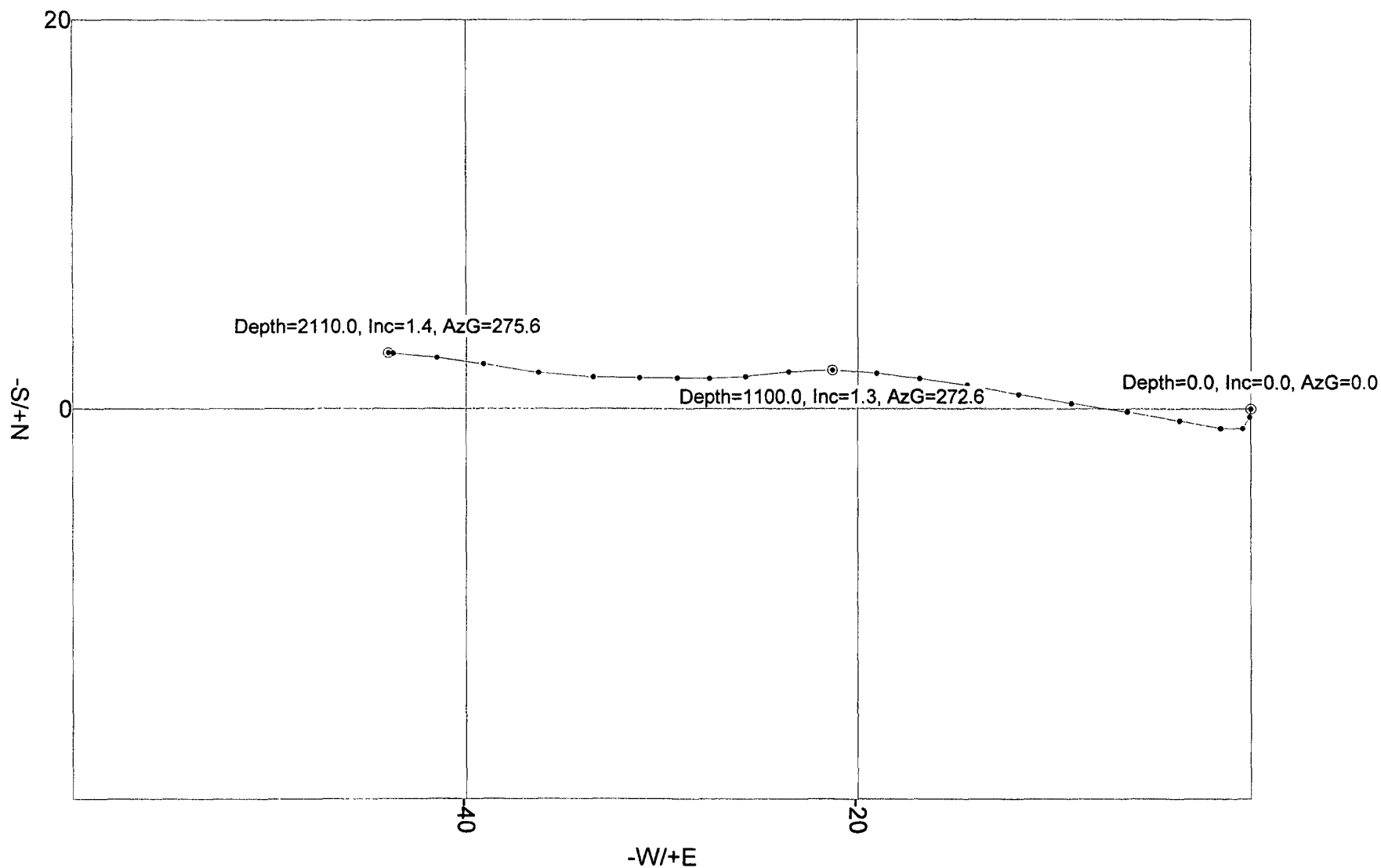
Wyatt Draw 24/25 OG Federal Com No. 001H / API# 30-015-39821

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	0.48	188.76	100.00	-0.42	-0.06	-0.42	0.42	188.76	0.48
200.00	0.37	240.57	200.00	-0.99	-0.41	-0.99	1.07	202.33	0.39
300.00	0.97	280.84	299.99	-0.99	-1.52	-0.99	1.81	236.83	0.73
400.00	1.41	280.17	399.97	-0.61	-3.56	-0.61	3.61	260.21	0.45
500.00	1.66	279.61	499.93	-0.16	-6.20	-0.16	6.20	268.57	0.24
600.00	1.63	278.04	599.89	0.28	-9.03	0.28	9.04	271.81	0.05
700.00	1.51	281.14	699.85	0.74	-11.73	0.74	11.76	273.60	0.14
800.00	1.59	278.82	799.82	1.21	-14.39	1.21	14.44	274.79	0.10
900.00	1.23	277.39	899.79	1.56	-16.83	1.56	16.90	275.28	0.35
1000.00	1.31	276.03	999.76	1.82	-19.04	1.82	19.13	275.45	0.08
1100.00	1.30	272.56	1099.74	1.99	-21.31	1.99	21.40	275.32	0.08
1200.00	1.28	262.26	1199.71	1.89	-23.55	1.89	23.63	274.58	0.23
1300.00	1.24	265.28	1299.69	1.65	-25.74	1.65	25.79	273.66	0.08
1400.00	0.89	270.53	1399.67	1.56	-27.60	1.56	27.64	273.24	0.37
1500.00	0.99	270.93	1499.66	1.59	-29.24	1.59	29.28	273.10	0.09
1600.00	1.21	269.48	1599.64	1.59	-31.16	1.59	31.20	272.92	0.23
1700.00	1.49	271.95	1699.61	1.62	-33.51	1.62	33.55	272.78	0.29
1800.00	1.71	276.99	1799.57	1.85	-36.29	1.85	36.34	272.92	0.26

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	1.57	280.70	1899.53	2.28	-39.11	2.28	39.18	273.34	0.18
2000.00	1.20	275.25	1999.50	2.63	-41.49	2.63	41.58	273.63	0.39
2100.00	1.37	275.78	2099.47	2.85	-43.73	2.85	43.82	273.73	0.17
2110.00	1.42	275.56	2109.47	2.87	-43.97	2.87	44.06	273.74	0.49



Vaughn Energy Services
Midland, Texas
432-563-5444
Surveyor: Eric McMahon
Wyatt Draw 24/25 OG Federal Com No. 001H / API# 30-015-39821



VES Survey Date: 04/02/2012

Mewbourne Oil Co

Eddy County, New Mexico

Sec 24-25, T19S, R25E

Wyatt Draw 24-25 OG Federal Com #1H

Wellbore #1

Survey: MWD

DDC Survey Report

12 April, 2012



DDC Survey Report



Company:	Mewbourne Oil Co	Local Co-ordinate Reference:	Well Wyatt Draw 24-25 OG Federal Com #1H
Project:	Eddy County, New Mexico	TVD Reference:	WELL @ 3411.0usft (Patterson UTI #101)
Site:	Sec 24-25, T19S, R25E	MD Reference:	WELL @ 3411.0usft (Patterson UTI #101)
Well:	Wyatt Draw 24-25 OG 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 24-25, T19S, R25E				
Site Position:	Northing:	597,702.53 usft	Latitude:	32° 38' 35.324 N	
From:	Easting:	468,764.98 usft	Longitude:	104° 26' 5.308 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.05 °

Well:	Wyatt Draw 24-25 OG Federal Com #1H					
Well Position	+N-S	0.0 usft	Northing:	597,702.53 usft	Latitude:	32° 38' 35.324 N
	+E-W	0.0 usft	Easting:	468,764.98 usft	Longitude:	104° 26' 5.308 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,392.0 usft	

Wellbore:	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/23/2012	7.92	60.41	48,695

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	180.25

Survey Program	Date	4/12/2012			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	2,110.0	GYRO (Wellbore #1)	Good_gyro	Good Gyro	
2,148.0	6,459.0	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)
Tie In @ 2110' MD / 2110' TVD										
	2,110.0	1.42	275.56	2,109.5	2.9	-44.0	-2.7	0.00	0.00	0.00
	2,148.0	1.50	267.10	2,147.5	2.9	-44.9	-2.7	0.60	0.21	-22.26
	2,179.0	1.30	282.50	2,178.4	3.0	-45.7	-2.8	1.37	-0.65	49.68
	2,210.0	0.90	277.30	2,209.4	3.1	-46.3	-2.9	1.33	-1.29	-16.77
	2,241.0	1.90	198.50	2,240.4	2.6	-46.7	-2.4	6.25	3.23	-254.19
	2,273.0	4.90	182.20	2,272.4	0.7	-46.9	-0.5	9.76	9.38	-50.94
	2,304.0	7.70	175.70	2,303.2	-2.7	-46.8	2.9	9.31	9.03	-20.97
	2,335.0	10.80	174.00	2,333.8	-7.6	-46.3	7.8	10.04	10.00	-5.48
	2,366.0	13.90	171.80	2,364.1	-14.2	-45.5	14.4	10.11	10.00	-7.10

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 24-25, T19S, R25E
Well: Wyatt Draw 24-25 OG Federal Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Wyatt Draw 24-25 OG Federal Com #1H
TVD Reference: WELL @ 3411.0usft (Patterson UTI #101)
MD Reference: WELL @ 3411.0usft (Patterson UTI #101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
2,398.0	17.50	173.10	2,394.9	-22.8	-44.4	23.0	11.30	11.25	4.06
2,429.0	20.30	174.70	2,424.2	-32.8	-43.3	32.9	9.18	9.03	5.16
2,461.0	24.10	177.80	2,453.8	-44.8	-42.6	45.0	12.42	11.88	9.69
2,492.0	27.50	178.50	2,481.7	-58.3	-42.1	58.5	11.01	10.97	2.26
2,524.0	30.50	178.80	2,509.7	-73.8	-41.8	74.0	9.39	9.38	0.94
2,555.0	34.00	178.30	2,535.9	-90.3	-41.3	90.5	11.32	11.29	-1.61
2,586.0	37.00	178.10	2,561.1	-108.3	-40.8	108.5	9.68	9.68	-0.65
2,617.0	40.60	177.90	2,585.3	-127.7	-40.1	127.9	11.62	11.61	-0.65
2,649.0	43.80	178.40	2,609.0	-149.2	-39.4	149.4	10.05	10.00	1.56
2,680.0	47.10	179.50	2,630.8	-171.3	-39.0	171.5	10.94	10.65	3.55
2,711.0	50.40	179.60	2,651.2	-194.6	-38.8	194.8	10.65	10.65	0.32
2,742.0	54.70	179.80	2,670.0	-219.2	-38.7	219.4	13.88	13.87	0.65
2,773.0	57.90	179.50	2,687.2	-245.0	-38.5	245.2	10.35	10.32	-0.97
2,805.0	61.10	179.90	2,703.5	-272.6	-38.4	272.7	10.06	10.00	1.25
2,836.0	64.60	180.80	2,717.6	-300.2	-38.6	300.3	11.58	11.29	2.90
Crossed Lease Line @ 2862' MD / 2728' TVD									
2,862.0	67.54	180.29	2,728.2	-323.9	-38.8	324.1	11.43	11.29	-1.94
2,867.0	68.10	180.20	2,730.0	-328.5	-38.8	328.7	11.43	11.29	-1.89
2,898.0	72.20	179.90	2,740.6	-357.7	-38.8	357.9	13.26	13.23	-0.97
2,929.0	75.20	180.10	2,749.3	-387.4	-38.8	387.6	9.70	9.68	0.65
2,961.0	78.60	179.60	2,756.5	-418.6	-38.8	418.8	10.73	10.63	-1.56
2,992.0	81.80	179.50	2,761.8	-449.1	-38.5	449.3	10.33	10.32	-0.32
3,023.0	84.30	179.40	2,765.6	-479.9	-38.2	480.1	8.07	8.06	-0.32
3,055.0	87.00	179.60	2,768.0	-511.8	-37.9	512.0	8.46	8.44	0.63
3,086.0	89.00	180.40	2,769.1	-542.8	-37.9	543.0	6.95	6.45	2.58
3,117.0	89.40	180.20	2,769.5	-573.8	-38.1	574.0	1.44	1.29	-0.65
3,144.0	90.20	180.30	2,769.6	-600.8	-38.2	601.0	2.99	2.96	0.37
Crossed Hard Line @ 3197' MD / 2769' TVD									
3,197.0	90.56	180.18	2,769.2	-653.8	-38.4	654.0	0.71	0.67	-0.22
3,233.0	90.80	180.10	2,768.8	-689.8	-38.5	690.0	0.71	0.67	-0.22
3,265.0	90.70	180.70	2,768.4	-721.8	-38.8	722.0	1.90	-0.31	1.88
3,297.0	90.30	179.70	2,768.1	-753.8	-38.9	753.9	3.37	-1.25	-3.13
3,329.0	89.80	180.50	2,768.1	-785.8	-38.9	785.9	2.95	-1.56	2.50
3,392.0	89.60	180.50	2,768.4	-848.8	-39.5	848.9	0.32	-0.32	0.00
3,456.0	90.00	180.60	2,768.6	-912.8	-40.1	912.9	0.64	0.63	0.16
3,519.0	89.50	180.80	2,768.9	-975.8	-40.9	975.9	0.85	-0.79	0.32
3,583.0	90.00	180.60	2,769.2	-1,039.8	-41.6	1,039.9	0.84	0.78	-0.31
3,647.0	89.80	180.50	2,769.3	-1,103.8	-42.2	1,103.9	0.35	-0.31	-0.16
3,711.0	91.00	179.70	2,768.9	-1,167.8	-42.4	1,167.9	2.25	1.88	-1.25
3,774.0	91.10	178.60	2,767.7	-1,230.7	-41.4	1,230.9	1.75	0.16	-1.75
3,838.0	90.90	178.50	2,766.6	-1,294.7	-39.8	1,294.9	0.35	-0.31	-0.16
3,902.0	90.90	177.70	2,765.6	-1,358.7	-37.7	1,358.8	1.25	0.00	-1.25
3,965.0	89.80	177.30	2,765.2	-1,421.6	-34.9	1,421.7	1.86	-1.75	-0.63

DDC Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 24-25, T19S, R25E
Well: Wyatt Draw 24-25 OG Federal Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Wyatt Draw 24-25 OG Federal Com #1H
TVD Reference: WELL @ 3411.0usft (Patterson UTI #101)
MD Reference: WELL @ 3411.0usft (Patterson UTI #101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
4,027.0	89.50	177.80	2,765.6	-1,483.5	-32.3	1,483.7	0.94	-0.48	0.81
4,091.0	89.80	177.90	2,766.0	-1,547.5	-29.9	1,547.6	0.49	0.47	0.16
4,155.0	89.40	178.50	2,766.4	-1,611.5	-27.9	1,611.6	1.13	-0.63	0.94
4,218.0	89.10	178.40	2,767.2	-1,674.4	-26.2	1,674.5	0.50	-0.48	-0.16
4,282.0	90.00	179.60	2,767.7	-1,738.4	-25.1	1,738.5	2.34	1.41	1.88
4,346.0	90.30	180.10	2,767.6	-1,802.4	-24.9	1,802.5	0.91	0.47	0.78
4,410.0	90.50	180.60	2,767.1	-1,866.4	-25.3	1,866.5	0.84	0.31	0.78
4,470.0	90.20	181.30	2,766.8	-1,926.4	-26.3	1,926.5	1.27	-0.50	1.17
4,531.0	90.10	181.40	2,766.6	-1,987.4	-27.7	1,987.5	0.23	-0.16	0.16
4,592.0	89.90	181.80	2,766.6	-2,048.4	-29.4	2,048.5	0.73	-0.33	0.66
4,685.0	89.60	182.30	2,767.0	-2,141.3	-32.7	2,141.4	0.63	-0.32	0.54
4,776.0	89.50	180.90	2,767.7	-2,232.3	-35.3	2,232.4	1.54	-0.11	-1.54
4,867.0	90.20	180.90	2,768.0	-2,323.3	-36.7	2,323.4	0.77	0.77	0.00
4,959.0	90.90	180.80	2,767.1	-2,415.2	-38.1	2,415.4	0.77	0.76	-0.11
5,051.0	90.40	180.10	2,766.0	-2,507.2	-38.8	2,507.4	0.93	-0.54	-0.76
5,146.0	89.90	180.10	2,765.8	-2,602.2	-39.0	2,602.4	0.53	-0.53	0.00
5,241.0	90.60	180.10	2,765.4	-2,697.2	-39.1	2,697.4	0.74	0.74	0.00
5,337.0	89.20	179.40	2,765.5	-2,793.2	-38.7	2,793.4	1.63	-1.46	-0.73
5,432.0	90.70	179.40	2,765.6	-2,888.2	-37.7	2,888.4	1.58	1.58	0.00
5,527.0	90.10	179.00	2,765.0	-2,983.2	-36.4	2,983.3	0.76	-0.63	-0.42
5,623.0	90.70	178.10	2,764.3	-3,079.2	-34.0	3,079.3	1.13	0.63	-0.94
5,717.0	90.90	178.30	2,763.0	-3,173.1	-31.0	3,173.2	0.30	0.21	0.21
5,812.0	91.00	178.40	2,761.4	-3,268.1	-28.3	3,268.2	0.15	0.11	0.11
5,907.0	91.20	178.60	2,759.6	-3,363.0	-25.8	3,363.1	0.30	0.21	0.21
6,002.0	90.50	178.60	2,758.2	-3,458.0	-23.5	3,458.0	0.74	-0.74	0.00
6,097.0	90.90	179.10	2,757.0	-3,552.9	-21.6	3,553.0	0.67	0.42	0.53
6,192.0	91.90	182.70	2,754.7	-3,647.9	-23.0	3,648.0	3.93	1.05	3.79
6,256.0	89.80	182.90	2,753.7	-3,711.8	-26.2	3,711.9	3.30	-3.28	0.31
6,287.0	89.90	183.30	2,753.8	-3,742.8	-27.9	3,742.8	1.33	0.32	1.29
6,319.0	88.40	183.40	2,754.3	-3,774.7	-29.7	3,774.8	4.70	-4.69	0.31
6,414.0	87.70	182.70	2,757.5	-3,869.5	-34.8	3,869.6	1.04	-0.74	-0.74
TD @ 6459' MD / 2759' TVD									
6,459.0	87.70	182.70	2,759.3	-3,914.4	-36.9	3,914.5	0.00	0.00	0.00

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,110.0	2,109.5	2.9	-44.0	Tie In @ 2110' MD / 2110' TVD
2,862.0	2,728.2	-323.9	-38.8	Crossed Lease Line @ 2862' MD / 2728' TVD
3,197.0	2,769.2	-653.8	-38.4	Crossed Hard Line @ 3197' MD / 2769' TVD
6,459.0	2,759.3	-3,914.4	-36.9	TD @ 6459' MD / 2759' TVD

DDC
Survey Report



Company: Mewbourne Oil Co
Project: Eddy County, New Mexico
Site: Sec 24-25, T19S, R25E
Well: Wyatt Draw 24-25 OG Federal Com #1H
Wellbore: Wellbore #1
Design: Wellbore #1

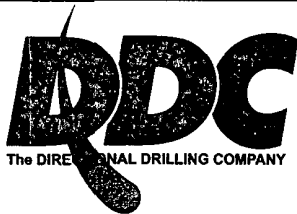
Local Co-ordinate Reference: Well Wyatt Draw 24-25 OG Federal Com #1H
TVD Reference: WELL @ 3411.0usft (Patterson UTI #101)
MD Reference: WELL @ 3411.0usft (Patterson UTI #101)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Checked By: _____	Approved By: _____	Date: _____
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Company Name Mewbourne Oil Co
Wyatt Draw 24-25 OG Federal Com #1H
Eddy County, New Mexico
Rig Patterson UTI #101
Created By Dina Chance
Date 4/12/2012

Wyatt Draw 24-25 OG Federal Com #1H
Eddy County, New Mexico
Q110661 & WT-12211

Mewbourne Oil Company



Azimuths to Grid North

Magnetic North: 7.97°

Magnetic Field

Strength: 48694 5snT

Dip Angle: 60.41°

Date: 3/23/2012

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 Wyatt Draw 24-25 OG Federal Com #1H

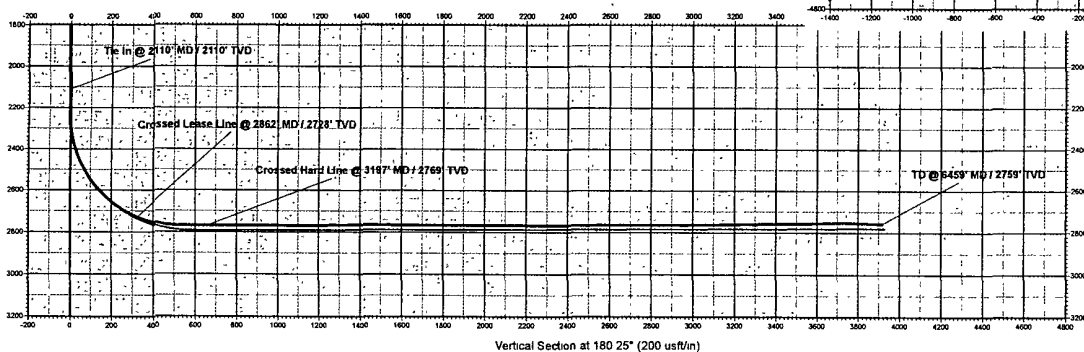
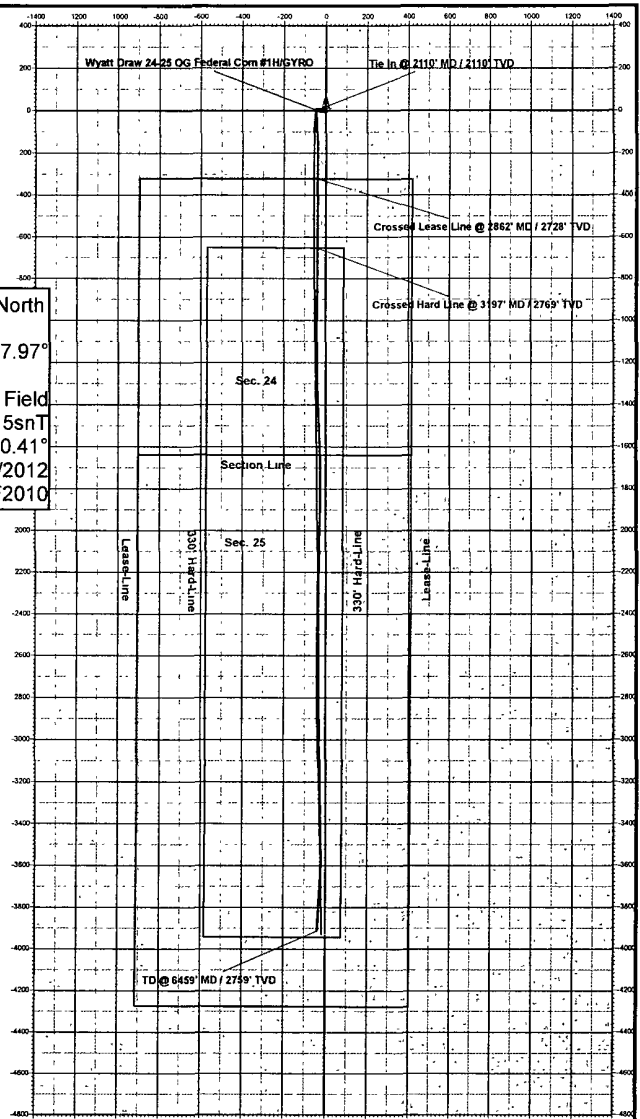
Ground Level		3392.0	
+N-S	+E-W	Eastings	Northings
0.0	0.0	688764.95	697702.52
		32° 38' 35.324 N	104° 26' 5.308 W

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
2110.0	1.42	276.66	2109.5	2.9	-44.0	-2.7	45.1	Tie in @ 2110' MD / 2110' TVD
2862.0	67.64	180.29	2728.2	-323.9	-38.8	324.1	376.1	Crossed Lease Line @ 2862' MD / 2728' TVD
3197.0	90.66	180.18	2769.2	-653.8	-38.4	654.0	705.0	Crossed Hard Line @ 3197' MD / 2769' TVD
6459.0	87.70	182.70	2759.3	-3514.4	-36.9	3514.5	3966.7	TD @ 6459' MD / 2759' TVD

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Northings	Eastings	Latitude	Longitude
PBHL Wyatt Draw 24-25 OG Federal Com #1H 2780.0	-3858.3	-17.2	593772.20	688747.80	32° 37' 56.430 N	104° 26' 5.465 W	
- plan hits target center							



Vertical Section at 180.25° (200 usft/in)