

30-015-37059

MURCHISON OIL & GAS

Wildcat

Eddy County, NM

Pequeno Mike BLU Federal #2H

32K0710522

Vh - Job #32K0710522

Survey: Actual

Standard Survey Report

18 August, 2010

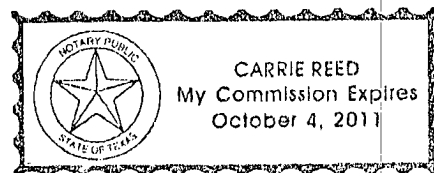
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notorized this date 20th of August, 2010.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
Survey Report

Company:	MURCHISON OIL & GAS	Local Co-ordinate Reference:	Well Pequeno Mike BLU Federal #2H
Project:	Wildcat	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Pequeno Mike BLU Federal #2H	North Reference:	Grid
Wellbore:	Vh - Job #32K0710522	Survey Calculation Method:	Minimum Curvature
Design:	Vh - Job #32K0710522	Database:	EDM-Regulatory

Project:	Wildcat	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Eddy County, NM		
Site Position:		Northing:	-11,254,828.01 usft
From:	Lat/Long	Easting:	94,405,776.02 usft
Position Uncertainty:	0.0 usft	Slot Radius:	0 "
		Latitude:	0° 0' 0.000 N
		Longitude:	0° 0' 0.000 E
		Grid Convergence:	0.00 "

Well:	Pequeno Mike BLU Federal #2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore:	Vh - Job #32K0710522		
Magnetics	Model Name:	Sample Date:	Declination:
	IGRF2000	12/31/2004	(°)
			Dip Angle:
			(°)
			Field Strength:
			(nT)

Design:	Vh - Job #32K0710522		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)

Survey Program	Date:	8/18/2010
From:	To:	
(usft)	(usft)	
100.0	6715.0 Actual (Vh - Job #32K0710522)	
Survey (Wellbore):	Tool Name:	
	Keeper	
Description:		
Keeper Gyro		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.55	39.55	100.0	0.4	0.3	0.5	0.55	0.55	0.00
200.0	0.42	104.73	200.0	0.6	1.0	1.1	0.53	-0.13	65.18
300.0	0.66	112.60	300.0	0.3	1.9	1.3	0.25	0.24	7.87
400.0	0.68	121.34	400.0	-0.2	2.9	1.5	0.10	0.02	8.74
500.0	0.59	114.27	500.0	-0.7	3.9	1.6	0.12	-0.09	-7.07
600.0	0.59	123.60	600.0	-1.2	4.8	1.7	0.10	0.00	9.33
700.0	0.43	97.37	700.0	-1.5	5.6	1.9	0.28	-0.16	-26.23
800.0	0.59	60.51	800.0	-1.3	6.4	2.5	0.36	0.16	-36.86
900.0	0.61	50.17	900.0	-0.7	7.2	3.5	0.11	0.02	-10.34

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Survey Report

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Site:	Eddy County, NM	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Well:	Pequeno Mike BLU Federal #2H	North Reference:	Grid
Wellbore:	Vh - Job #32K0710522	Survey Calculation Method:	Minimum Curvature
Design:	Vh - Job #32K0710522	Database:	EDM-Regulatory

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	0.61	50.41	1,000.0	-0.1	8.1	4.5	0.07	0.00	6.24
1,100.0	0.61	42.36	1,099.9	0.6	8.9	5.5	0.15	0.00	-14.05
1,200.0	0.44	49.45	1,199.9	1.2	9.5	6.4	0.18	-0.17	7.09
1,300.0	0.30	50.72	1,299.9	1.6	10.0	7.0	0.14	-0.14	1.27
1,400.0	0.36	55.01	1,399.9	2.0	10.5	7.6	0.06	0.06	4.29
1,500.0	0.21	55.62	1,499.9	2.3	10.9	8.0	0.15	-0.15	0.61
1,600.0	0.21	53.01	1,599.9	2.5	11.2	8.4	0.01	0.00	-2.61
1,700.0	0.15	49.68	1,699.9	2.7	11.5	8.7	0.06	-0.06	-3.33
1,800.0	0.19	28.42	1,799.9	2.9	11.6	9.0	0.07	0.04	-21.26
1,900.0	0.20	29.68	1,899.9	3.2	11.8	9.3	0.01	0.01	1.26
2,000.0	0.20	36.10	1,999.9	3.5	12.0	9.6	0.02	0.00	6.42
2,100.0	0.12	51.36	2,099.9	3.7	12.2	9.9	0.09	-0.08	15.26
2,200.0	0.23	22.97	2,199.9	3.9	12.3	10.2	0.14	0.11	-28.39
2,300.0	0.27	27.83	2,299.9	4.3	12.5	10.6	0.05	0.04	4.86
2,400.0	0.25	29.64	2,399.9	4.7	12.7	11.1	0.02	-0.02	1.81
2,500.0	0.47	339.58	2,499.9	5.3	12.7	11.6	0.36	0.22	-50.06
2,600.0	0.39	356.48	2,599.9	6.0	12.5	12.1	0.15	-0.08	16.90
2,700.0	0.50	328.99	2,699.9	6.8	12.3	12.5	0.24	0.11	-27.49
2,800.0	0.26	9.90	2,799.9	7.3	12.1	12.9	0.35	-0.24	40.91
2,900.0	0.19	13.71	2,899.9	7.7	12.2	13.3	0.07	-0.07	3.81
3,000.0	0.27	5.44	2,999.9	8.1	12.2	13.6	0.09	0.08	-8.27
3,100.0	0.27	359.92	3,099.9	8.6	12.3	14.0	0.03	0.00	-5.52
3,200.0	0.34	357.80	3,199.9	9.1	12.3	14.5	0.07	0.07	-2.12
3,300.0	0.36	341.78	3,299.9	9.7	12.1	14.9	0.10	0.02	-16.02
3,400.0	0.41	340.31	3,399.9	10.4	11.9	15.3	0.05	0.05	-1.47
3,500.0	0.22	4.81	3,499.9	10.9	11.8	15.7	0.23	-0.19	24.50
3,600.0	0.24	356.34	3,599.9	11.3	11.8	16.0	0.04	0.02	-8.47
3,700.0	0.23	6.73	3,699.9	11.7	11.8	16.3	0.04	-0.01	10.39
3,800.0	0.18	10.76	3,799.9	12.1	11.9	16.7	0.05	-0.05	4.03
3,900.0	0.31	300.18	3,899.9	12.3	11.7	16.8	0.30	0.13	-70.58
4,000.0	0.36	292.17	3,999.9	12.6	11.2	16.7	0.07	0.05	-8.01
4,100.0	0.35	252.02	4,099.9	12.6	10.6	16.4	0.24	-0.01	-40.15
4,200.0	0.30	299.58	4,199.9	12.7	10.1	16.1	0.27	-0.05	47.56
4,300.0	0.30	331.39	4,299.9	13.0	9.7	16.2	0.16	0.06	31.61
4,400.0	0.25	312.48	4,399.9	13.4	9.4	16.4	0.10	-0.05	-18.91
4,500.0	0.33	294.45	4,499.9	13.7	9.0	16.4	0.12	0.08	-18.03
4,600.0	0.37	314.55	4,599.9	14.0	8.5	16.4	0.13	0.04	20.10
4,700.0	0.29	321.76	4,699.9	14.4	8.1	16.5	0.09	-0.08	7.21
4,800.0	0.37	320.38	4,799.9	14.9	7.8	16.7	0.08	0.08	-1.38
4,900.0	0.24	7.07	4,899.9	15.3	7.6	16.9	0.27	-0.13	46.69
5,000.0	0.16	15.34	4,999.9	15.7	7.6	17.3	0.08	-0.08	8.27
5,100.0	0.21	10.97	5,099.9	16.0	7.7	17.6	0.05	0.05	-4.37
5,200.0	0.19	22.88	5,199.9	16.3	7.8	17.9	0.05	-0.02	11.91
5,300.0	0.18	23.35	5,299.9	16.6	7.9	18.2	0.01	-0.01	0.47

Scientific Drilling International, Inc.

Survey Report

Company: MURCHISON OIL & GAS
 Project: Wildcat
 Site: Eddy County, NM
 Well: Pequeno Mike BLU Federal #2H
 Wellbore: Vh - Job #32K0710522
 Design: Vh - Job #32K0710522

Local Co-ordinate Reference: Well Pequeno Mike BLU Federal #2H
 TVD Reference: WELL @ 0.0usft (Original Well Elev)
 MD Reference: WELL @ 0.0usft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM-Regulatory

Survey

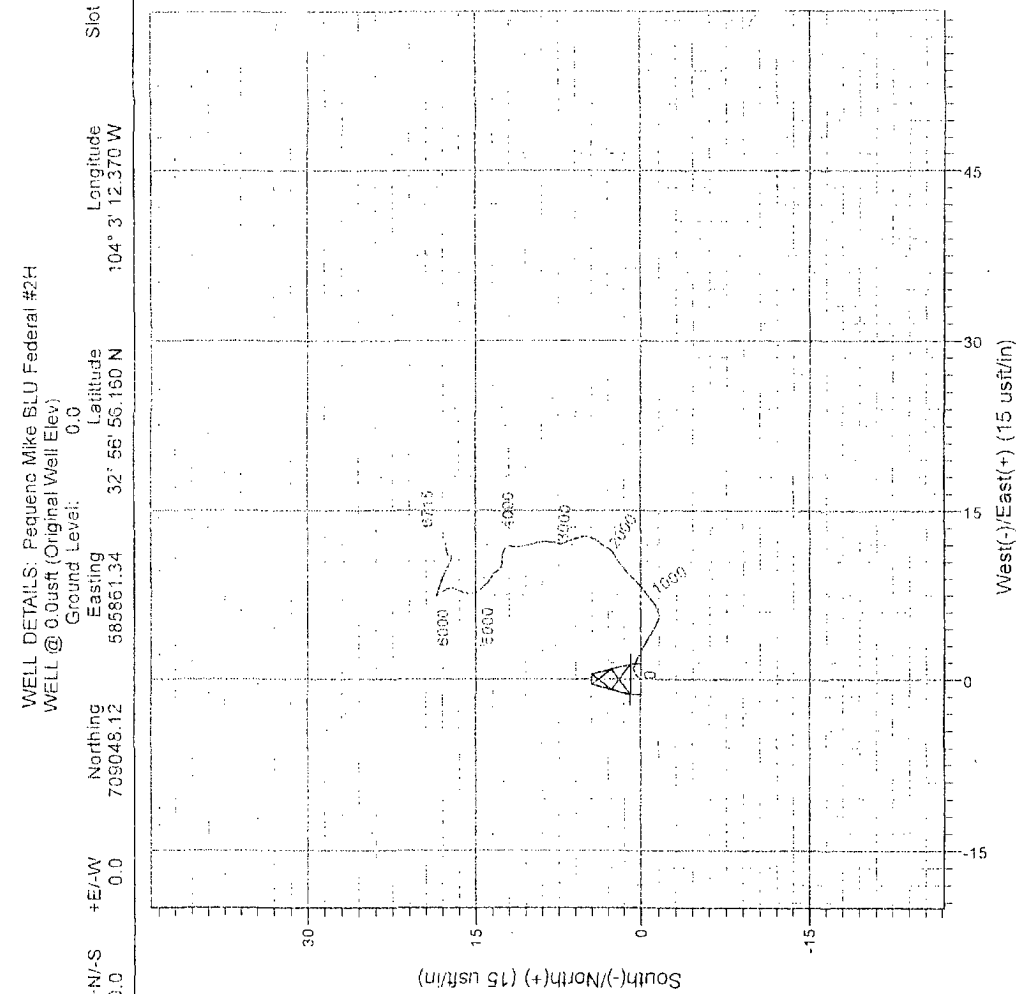
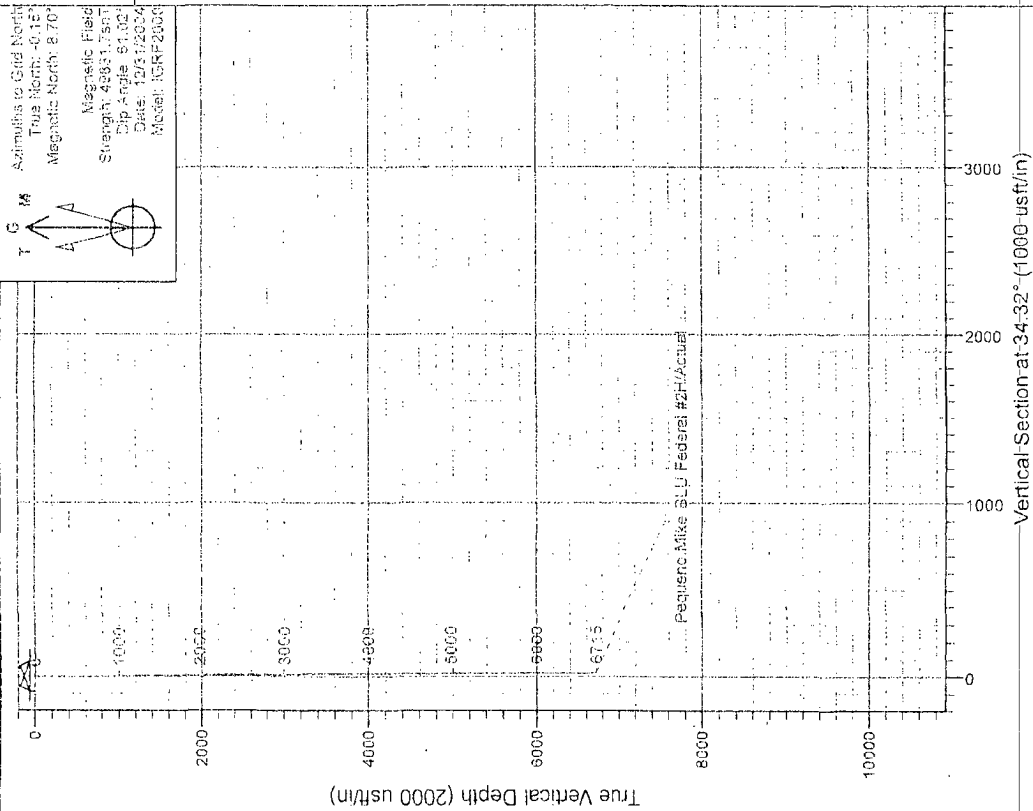
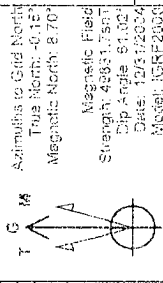
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.23	10.89	5,399.9	17.0	8.0	18.5	0.07	0.05	-12.46
5,500.0	0.21	6.37	5,499.9	17.3	8.1	18.9	0.03	-0.02	-4.52
5,600.0	0.29	328.39	5,599.9	17.7	8.0	19.2	0.18	0.08	-37.98
5,700.0	0.27	325.55	5,699.9	18.1	7.7	19.3	0.02	-0.02	-2.84
5,800.0	0.23	314.46	5,799.9	18.5	7.4	19.5	0.06	-0.04	-11.09
5,900.0	0.14	111.51	5,899.9	18.6	7.4	19.5	0.36	-0.09	157.05
6,000.0	0.34	108.54	5,999.9	18.4	7.8	19.6	0.20	0.20	-2.97
6,100.0	0.41	110.38	6,099.9	18.2	8.4	19.8	0.07	0.07	1.84
6,200.0	0.46	108.27	6,199.9	18.0	9.1	20.0	0.05	0.05	-2.11
6,300.0	0.33	119.69	6,299.9	17.7	9.8	20.1	0.15	-0.13	11.42
6,400.0	0.44	122.60	6,399.9	17.4	10.3	20.2	0.11	0.11	2.91
6,500.0	0.34	93.23	6,499.9	17.1	11.0	20.3	0.22	-0.10	-29.37
6,600.0	0.40	314.33	6,599.9	17.4	11.0	20.5	0.69	0.06	-138.90
6,700.0	1.20	83.52	6,699.9	17.7	11.8	21.3	1.49	0.80	129.19
6,715.0	1.25	83.21	6,714.9	17.8	12.1	21.5	0.34	0.33	-2.07



Scientific Drilling

Directional Drilling Operations

Project: Wildcat
Eddy County, NM
Well: Pequeno Mike BLU Federal #2H
Wellbore: Vh - Job #32K0710522
Design: Vh - Job #32K0710522
Site:



PROJECT DETAILS: Wildcat
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

SITE DETAILS: Eddy County, NM
Site Centre Latitude: 0° 0' 0.000 N
Longitude: 0° 0' 0.000 E
Positional Uncertainty: 0.0
Convergence: 0.00
Local North: Grid