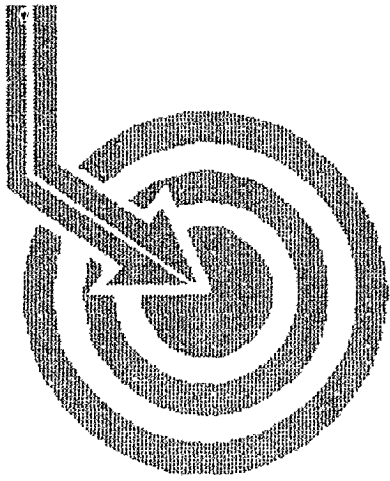
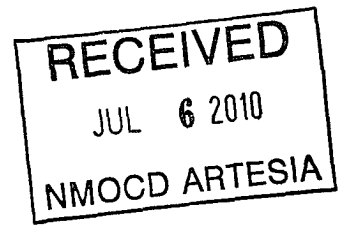


30.015.37395



Scientific Drilling



MURCHISON OIL & GAS

Field: Dog Canyon
Site: Eddy County, NM
Well: Carbon Valley 25 Fed Com #6H
Wellpath: VH - Job #32K0110015
Survey: 01/08/10

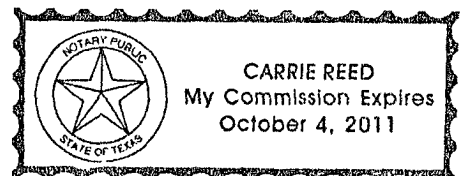
MR

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

Richard
Company Representative

Notarized this date 17th of March, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: MURCHISON OIL & GAS
Field: Dog Canyon
Site: Eddy County, NM
Well: Carbon Valley 25 Fed Com #6H
Wellpath: VH - Job #32K0110015

Date: 3/16/2010 Time: 11:10:07 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0 00N,0 00E,268.21Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/08/10
KSRG 0'-6126'

Start Date: 1/8/2010

Company: Scientific Drilling Internatio
Tool: Keeper, Keeper Gyro

Engineer: Melendez w/Espress
Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.07	248.57	100.0	0.1	0.0	-0.1	0.07	0.1	248.57
200.0	0.10	245.57	200.0	0.2	-0.1	-0.2	0.03	0.2	247.32
300.0	0.30	239.52	300.0	0.5	-0.2	-0.5	0.20	0.6	243.39
400.0	0.18	233.57	400.0	0.9	-0.5	-0.9	0.12	1.0	240.77
500.0	0.07	261.26	500.0	1.1	-0.6	-1.0	0.12	1.2	240.86
600.0	0.14	222.26	600.0	1.2	-0.7	-1.2	0.10	1.4	240.11
700.0	0.13	98.39	700.0	1.2	-0.8	-1.1	0.24	1.4	235.67
800.0	0.32	134.47	800.0	0.9	-1.0	-0.8	0.23	1.3	220.04
900.0	0.29	131.64	900.0	0.5	-1.4	-0.4	0.03	1.4	198.28
1000.0	0.39	152.62	1000.0	0.2	-1.8	-0.1	0.16	1.8	183.25
1100.0	0.15	139.76	1100.0	-0.1	-2.2	0.1	0.25	2.2	176.49
1200.0	0.18	84.44	1200.0	-0.3	-2.3	0.4	0.16	2.3	170.74
1300.0	0.13	344.42	1300.0	-0.4	-2.2	0.5	0.24	2.3	167.06
1400.0	0.24	199.28	1400.0	-0.3	-2.3	0.4	0.35	2.3	169.95
1500.0	0.23	306.24	1500.0	-0.1	-2.4	0.2	0.38	2.4	175.80
1600.0	0.17	207.92	1600.0	0.1	-2.4	-0.1	0.31	2.4	181.40
1700.0	0.07	204.84	1700.0	0.2	-2.6	-0.2	0.10	2.6	183.42
1800.0	0.20	190.32	1800.0	0.3	-2.8	-0.2	0.13	2.8	184.31
1900.0	0.03	267.59	1900.0	0.4	-3.0	-0.3	0.20	3.0	185.17
2000.0	0.04	264.13	2000.0	0.4	-3.0	-0.3	0.01	3.0	186.32
2100.0	0.28	203.24	2100.0	0.6	-3.2	-0.5	0.26	3.2	188.19
2200.0	0.37	241.88	2200.0	1.0	-3.6	-0.8	0.23	3.7	193.25
2300.0	0.89	256.11	2300.0	2.0	-3.9	-1.9	0.54	4.3	205.68
2400.0	0.81	273.73	2400.0	3.5	-4.0	-3.3	0.27	5.2	219.51
2500.0	0.60	248.94	2500.0	4.7	-4.2	-4.5	0.37	6.2	227.25
2600.0	0.76	243.37	2600.0	5.8	-4.7	-5.6	0.17	7.3	230.21
2700.0	1.00	232.62	2699.9	7.1	-5.5	-6.9	0.29	8.8	231.43
2800.0	0.75	229.28	2799.9	8.3	-6.5	-8.1	0.26	10.4	231.39
2900.0	0.51	228.91	2899.9	9.1	-7.2	-8.9	0.24	11.5	231.18
3000.0	0.51	225.83	2999.9	9.8	-7.8	-9.6	0.03	12.3	230.90
3100.0	0.39	246.12	3099.9	10.5	-8.2	-10.2	0.20	13.1	231.12
3200.0	0.45	240.39	3199.9	11.1	-8.6	-10.9	0.07	13.8	231.75
3300.0	0.48	245.66	3299.9	11.9	-8.9	-11.6	0.05	14.6	232.37
3400.0	0.49	248.72	3399.9	12.6	-9.3	-12.4	0.03	15.4	233.18
3500.0	0.42	272.64	3499.9	13.4	-9.4	-13.1	0.20	16.1	234.41
3600.0	0.41	316.69	3599.9	14.0	-9.1	-13.7	0.31	16.5	236.43
3700.0	0.38	347.50	3699.9	14.3	-8.5	-14.1	0.21	16.4	238.74
3800.0	0.26	58.18	3799.9	14.2	-8.1	-13.9	0.38	16.1	239.86
3900.0	0.33	70.74	3899.9	13.7	-7.9	-13.5	0.09	15.6	239.69
4000.0	0.54	105.73	3999.9	13.0	-7.9	-12.7	0.33	15.0	238.18
4100.0	0.44	102.48	4099.9	12.2	-8.1	-11.9	0.10	14.4	235.73
4200.0	0.27	88.23	4199.9	11.6	-8.2	-11.3	0.19	14.0	234.07
4300.0	0.22	104.31	4299.9	11.1	-8.2	-10.9	0.08	13.6	232.89
4400.0	0.24	140.78	4399.9	10.8	-8.4	-10.6	0.15	13.5	231.37
4500.0	0.25	99.09	4499.9	10.5	-8.6	-10.2	0.17	13.4	229.78
4600.0	0.27	175.77	4599.9	10.3	-8.9	-10.0	0.32	13.4	228.25
4700.0	0.35	166.63	4699.9	10.2	-9.4	-9.9	0.09	13.7	226.35
4800.0	0.45	132.06	4799.9	9.8	-10.0	-9.5	0.26	13.8	223.63



Scientific Drilling International, Inc.

Survey Report

Company: MURCHISON OIL & GAS Date: 3/16/2010 Time: 11:10:07 Page: 2
Field: Dog Canyon Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Site: Eddy County, NM Vertical (TVD) Reference: SITE 0.0
Well: Carbon Valley 25 Fed Com #6H Section (VS) Reference: Well (0.00N,0.00E,268 21Azi)
Wellpath: VH - Job #32K0110015 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.0	0.40	111.79	4899.9	9.2	-10.4	-8.9	0.16	13.7	220.63
5000.0	0.52	113.83	4999.9	8.5	-10.7	-8.2	0.12	13.5	217.38
5100.0	0.91	115.46	5099.9	7.4	-11.2	-7.0	0.39	13.3	212.10
5200.0	1.16	104.84	5199.9	5.7	-11.8	-5.4	0.31	13.0	204.34
5300.0	0.90	92.07	5299.8	4.0	-12.1	-3.6	0.35	12.6	196.49
5400.0	0.79	85.11	5399.8	2.5	-12.1	-2.1	0.15	12.3	189.93
5500.0	1.08	92.31	5499.8	0.9	-12.1	-0.5	0.31	12.1	182.32
5600.0	1.38	86.59	5599.8	-1.3	-12.0	1.7	0.32	12.1	172.17
5700.0	1.68	84.76	5699.8	-3.9	-11.8	4.3	0.30	12.6	159.95
5800.0	2.19	82.11	5799.7	-7.3	-11.4	7.7	0.52	13.8	146.15
5900.0	2.04	81.22	5899.6	-11.0	-10.9	11.3	0.15	15.7	133.92
6000.0	2.02	82.90	5999.6	-14.5	-10.4	14.8	0.06	18.1	125.07
6100.0	1.74	81.49	6099.5	-17.8	-10.0	18.1	0.28	20.6	118.87
6126.0	1.83	82.15	6125.5	-18.6	-9.9	18.9	0.36	21.3	117.56



Scientific
Drilling

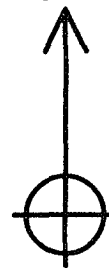
Field: Dog Canyon

Site: Eddy County, NM

Well: Carbon Valley 25 Fed Com #6H

Survey: 01/08/10

G/T/M



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Dip Angle: 0.00°
Date: 2/15/2010
Model: tgrf2000

West(-)/East(+) [5ft/in]

South(-)/North(+) [5ft/in]

