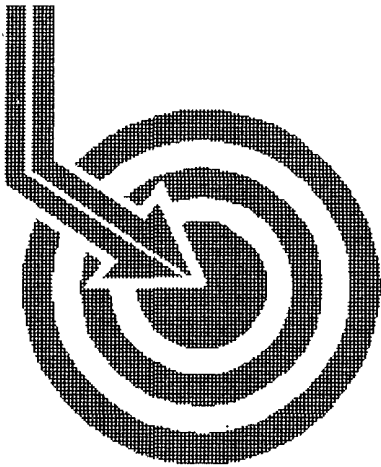


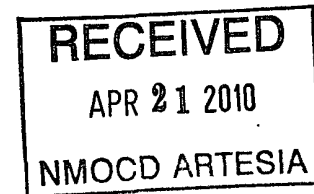
30 015 37272



Scientific Drilling

BOPCO

Field: Quahada Ridge
Site: Eddy County, NM
Well: Hudson 1 Federal #8H
Wellpath: VH - Job #32K0110034
Survey: 01/14/10

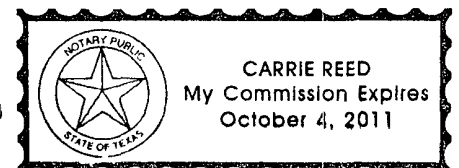


This survey is correct to the best of my knowledge and is supported by actual field data.

L. L. L. L.
Company Representative

Notorized this date 14th of February, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific Drilling International, Inc.

Survey Report

Company: BOPCO
Field: Quahada Ridge
Site: Eddy County, NM
Well: Hudson 1 Federal #8H
Wellpath: VH - Job #32K0110034

Date: 2/15/2010 Time: 22:04:39 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,205.00Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 01/14/10
KSRG 0'-6751'

Start Date: 1/14/2010

Company: Scientific Drilling Internatio
Tool: KSRG, Keeper Gyro

Engineer: Melendez w/Express
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	359.73	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.38	255.89	100.0	0.2	-0.1	-0.3	0.38	0.3	255.89
200.0	0.57	261.08	200.0	0.7	-0.2	-1.1	0.19	1.2	258.11
300.0	0.47	274.83	300.0	1.1	-0.3	-2.0	0.16	2.1	262.13
400.0	0.50	274.37	400.0	1.4	-0.2	-2.9	0.03	2.9	265.76
500.0	0.45	297.10	500.0	1.5	0.0	-3.7	0.19	3.7	269.98
600.0	0.52	300.25	600.0	1.5	0.4	-4.4	0.07	4.4	275.27
700.0	0.18	305.69	700.0	1.4	0.7	-4.9	0.34	5.0	278.39
800.0	0.10	252.00	800.0	1.5	0.8	-5.1	0.15	5.2	278.76
900.0	0.02	310.19	900.0	1.5	0.8	-5.2	0.09	5.3	278.43
1000.0	0.10	93.88	1000.0	1.5	0.8	-5.2	0.12	5.2	278.61
1100.0	0.17	244.85	1100.0	1.6	0.7	-5.2	0.26	5.3	277.79
1200.0	0.05	321.95	1200.0	1.6	0.7	-5.4	0.17	5.4	277.25
1300.0	0.09	113.13	1300.0	1.6	0.7	-5.3	0.14	5.4	277.35
1400.0	0.08	118.18	1400.0	1.6	0.6	-5.2	0.01	5.2	276.85
1500.0	0.12	11.62	1500.0	1.5	0.7	-5.1	0.16	5.2	277.72
1600.0	0.05	60.15	1600.0	1.4	0.8	-5.0	0.09	5.1	279.19
1700.0	0.07	205.05	1700.0	1.4	0.8	-5.0	0.11	5.1	278.84
1800.0	0.21	29.00	1800.0	1.3	0.9	-5.0	0.28	5.0	280.13
1900.0	0.12	82.43	1900.0	1.1	1.1	-4.8	0.17	4.9	282.53
2000.0	0.07	65.86	2000.0	1.0	1.1	-4.6	0.06	4.7	283.41
2100.0	0.23	34.09	2100.0	0.7	1.3	-4.4	0.17	4.6	286.19
2200.0	0.04	92.43	2200.0	0.5	1.5	-4.3	0.21	4.5	288.70
2300.0	0.06	75.51	2300.0	0.5	1.5	-4.2	0.02	4.5	289.20
2400.0	0.15	46.62	2400.0	0.3	1.6	-4.1	0.10	4.4	291.11
2500.0	0.18	209.35	2500.0	0.3	1.5	-4.1	0.33	4.3	290.61
2600.0	0.06	350.20	2600.0	0.4	1.4	-4.1	0.23	4.4	289.17
2700.0	0.20	56.90	2700.0	0.3	1.6	-4.0	0.18	4.3	291.62
2800.0	0.08	12.31	2800.0	0.0	1.7	-3.8	0.15	4.2	294.49
2900.0	0.10	139.63	2900.0	0.0	1.8	-3.8	0.16	4.2	294.92
3000.0	0.08	298.05	3000.0	0.0	1.7	-3.8	0.18	4.1	294.47
3100.0	0.08	183.90	3100.0	0.1	1.7	-3.8	0.13	4.2	293.64
3200.0	0.08	345.73	3200.0	0.1	1.7	-3.9	0.16	4.2	293.49
3300.0	0.05	87.79	3300.0	0.0	1.7	-3.8	0.10	4.2	294.50
3400.0	0.00	321.52	3400.0	0.0	1.7	-3.8	0.05	4.2	294.77
3500.0	0.16	50.80	3500.0	-0.1	1.8	-3.7	0.16	4.1	296.51
3600.0	0.15	150.06	3600.0	-0.2	1.8	-3.5	0.24	4.0	297.31
3700.0	0.12	47.72	3700.0	-0.2	1.8	-3.4	0.21	3.8	297.72
3800.0	0.05	95.71	3800.0	-0.3	1.8	-3.2	0.09	3.7	299.48
3900.0	0.08	40.89	3900.0	-0.4	1.9	-3.2	0.07	3.7	300.83
4000.0	0.10	115.31	4000.0	-0.4	1.9	-3.0	0.11	3.6	302.06
4100.0	0.11	49.05	4100.0	-0.5	1.9	-2.9	0.12	3.5	303.75
4200.0	0.11	206.20	4200.0	-0.5	1.9	-2.9	0.22	3.4	303.70
4300.0	0.08	326.76	4300.0	-0.5	1.9	-2.9	0.17	3.5	302.59
4400.0	0.14	22.44	4400.0	-0.6	2.0	-2.9	0.12	3.6	304.98
4500.0	0.17	268.27	4500.0	-0.7	2.2	-3.0	0.26	3.7	305.45
4600.0	0.08	17.33	4600.0	-0.7	2.2	-3.2	0.21	3.9	305.10
4700.0	0.41	292.43	4700.0	-0.7	2.4	-3.5	0.41	4.2	304.94
4800.0	0.44	298.00	4800.0	-0.7	2.7	-4.1	0.05	5.0	303.51



Scientific Drilling International, Inc.

Survey Report

Company: BOPCO	Date: 2/15/2010	Time: 22:04:39	Page: 2
Field: Quahada Ridge	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Hudson 1 Federal #8H	Section (VS) Reference:	Well (0.00N,0.00E,205.00Azi)	
Wellpath: VH - Job #32K0110034	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	0.56	276.73	4900.0	-0.6	3.0	-5.0	0.22	5.8	300.96
5000.0	0.49	282.97	5000.0	-0.4	3.1	-5.9	0.09	6.6	298.09
5100.0	0.51	281.20	5100.0	-0.2	3.3	-6.7	0.03	7.5	296.24
5200.0	0.55	297.14	5200.0	-0.1	3.6	-7.6	0.15	8.4	295.51
5300.0	0.45	286.65	5300.0	0.0	3.9	-8.4	0.14	9.3	295.22
5400.0	0.47	291.55	5399.9	0.0	4.2	-9.1	0.04	10.1	294.74
5500.0	0.43	296.08	5499.9	0.1	4.5	-9.9	0.05	10.8	294.66
5600.0	0.30	269.64	5599.9	0.2	4.7	-10.5	0.21	11.5	294.15
5700.0	0.34	319.43	5699.9	0.2	4.9	-10.9	0.27	12.0	294.24
5800.0	0.14	313.84	5799.9	0.0	5.2	-11.2	0.20	12.3	295.02
5900.0	0.36	230.27	5899.9	0.2	5.1	-11.5	0.37	12.6	293.90
6000.0	0.42	225.26	5999.9	0.9	4.6	-12.0	0.07	12.9	291.13
6100.0	0.83	232.00	6099.9	1.9	3.9	-12.9	0.42	13.4	287.06
6200.0	0.91	225.03	6199.9	3.2	2.9	-14.0	0.13	14.3	281.86
6300.0	0.87	225.13	6299.9	4.7	1.8	-15.1	0.04	15.2	276.95
6400.0	0.99	232.17	6399.9	6.2	0.8	-16.3	0.17	16.3	272.72
6500.0	0.88	242.19	6499.9	7.6	-0.1	-17.7	0.20	17.7	269.63
6600.0	0.78	244.92	6599.9	8.7	-0.8	-19.0	0.11	19.0	267.70
6700.0	0.64	238.09	6699.9	9.7	-1.3	-20.1	0.16	20.1	266.16
6751.0	0.90	230.42	6750.9	10.3	-1.8	-20.6	0.55	20.7	265.14