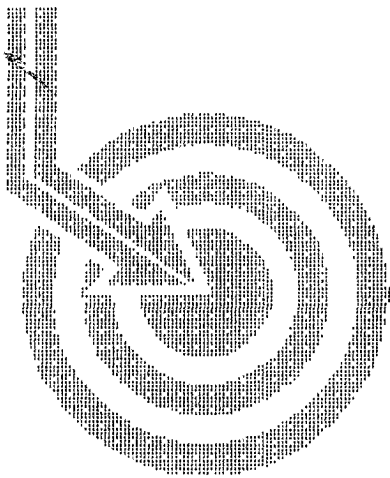




Scientific Drilling

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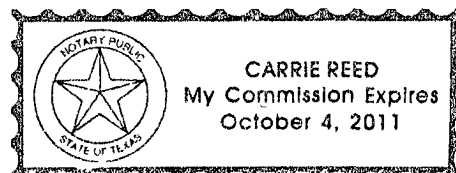
Field: Quahada Ridge
Site: Eddy County, NM
Well: Hudson 1 Federal #10H
Wellpath: VH - Job #32K0310201
Survey: 03/22/10

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

Richard
Company Representative

Notarized this date 13th of April, 2010.

Carrie Reed
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: BOPCO Date: 3/25/2010 Time: 15:29:18 Page: 1
 Field: Quahada Ridge Co-ordinate(N/E) Reference: Site: Eddy County, NM, Grid North
 Site: Eddy County, NM Vertical (TVD) Reference: SITE 0.0
 Well: Hudson 1 Federal #10H Section (VS) Reference: Well (0.00N,0.00E,259.09Azi)
 Wellpath: VH - Job #32K0310201 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 03/22/10 Start Date: 3/22/2010
 Company: Scientific Drilling Internatio Engineer: Guebara/Sutherland/Renteria
 Tool: KSRG, Keeper Gyro 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	0.75	7.73	100.0	-0.2	0.6	0.1	0.75	0.7	7.73
200.0	0.10	322.34	200.0	-0.4	1.4	0.1	0.68	1.4	5.13
300.0	0.12	327.03	300.0	-0.3	1.5	0.0	0.02	1.5	0.47
400.0	0.30	17.71	400.0	-0.4	1.9	0.0	0.24	1.9	1.08
500.0	0.18	343.67	500.0	-0.5	2.3	0.1	0.18	2.3	1.79
600.0	0.32	32.41	600.0	-0.7	2.6	0.2	0.24	2.7	3.81
700.0	0.15	335.32	700.0	-0.8	3.0	0.3	0.27	3.0	5.16
800.0	0.19	347.77	800.0	-0.8	3.3	0.2	0.05	3.3	3.16
900.0	0.25	22.55	900.0	-0.9	3.6	0.2	0.14	3.7	3.61
1000.0	0.25	36.74	1000.0	-1.2	4.0	0.4	0.06	4.0	6.30
1100.0	0.13	327.54	1100.0	-1.3	4.3	0.5	0.24	4.3	6.82
1200.0	0.34	78.86	1200.0	-1.6	4.4	0.7	0.41	4.5	9.50
1300.0	0.27	181.15	1300.0	-1.8	4.3	1.0	0.48	4.4	13.57
1400.0	0.31	88.81	1400.0	-2.0	4.0	1.3	0.42	4.2	17.79
1500.0	0.32	134.01	1500.0	-2.5	3.8	1.8	0.24	4.2	24.66
1600.0	0.20	285.05	1600.0	-2.5	3.7	1.8	0.50	4.1	25.93
1700.0	0.17	258.55	1700.0	-2.2	3.7	1.5	0.09	4.0	21.79
1800.0	0.30	200.56	1800.0	-1.9	3.4	1.2	0.25	3.7	19.93
1900.0	0.35	116.59	1900.0	-2.0	3.1	1.4	0.44	3.4	25.04
2000.0	0.38	113.48	2000.0	-2.5	2.8	2.0	0.04	3.4	35.71
2100.0	0.36	91.13	2100.0	-3.1	2.7	2.6	0.14	3.7	44.69
2200.0	0.27	205.27	2200.0	-3.2	2.4	2.8	0.53	3.7	49.39
2300.0	0.23	59.25	2300.0	-3.3	2.3	2.9	0.48	3.7	51.40
2400.0	0.12	306.71	2400.0	-3.4	2.5	3.0	0.30	3.9	50.31
2500.0	0.03	302.22	2500.0	-3.3	2.6	2.9	0.09	3.9	48.44
2600.0	0.21	333.62	2600.0	-3.3	2.7	2.8	0.19	3.9	45.48
2700.0	0.12	337.61	2700.0	-3.2	3.0	2.7	0.09	4.0	41.61
2800.0	0.23	160.62	2800.0	-3.2	2.9	2.7	0.35	4.0	42.78
2900.0	0.19	319.12	2900.0	-3.1	2.8	2.7	0.41	3.9	42.97
3000.0	0.32	66.92	3000.0	-3.3	3.1	2.8	0.42	4.2	42.26
3100.0	0.40	83.91	3100.0	-4.0	3.2	3.4	0.13	4.7	46.52
3200.0	0.62	92.50	3200.0	-4.8	3.2	4.3	0.23	5.4	52.93
3300.0	0.63	97.93	3300.0	-5.9	3.1	5.4	0.06	6.2	59.70
3400.0	0.85	88.37	3400.0	-7.1	3.1	6.7	0.25	7.3	65.13
3500.0	0.82	100.02	3499.9	-8.5	3.0	8.1	0.17	8.6	69.79
3600.0	0.86	224.53	3599.9	-8.6	2.3	8.3	1.49	8.6	74.33
3700.0	1.07	126.54	3699.9	-8.6	1.2	8.5	1.46	8.6	81.75
3800.0	0.73	67.10	3799.9	-9.8	0.9	9.8	0.94	9.9	84.63
3900.0	1.23	351.28	3899.9	-10.5	2.2	10.3	1.27	10.5	77.72
4000.0	1.29	353.39	3999.9	-10.6	4.4	10.0	0.08	10.9	66.14
4100.0	1.13	346.53	4099.9	-10.7	6.5	9.6	0.22	11.6	55.99
4200.0	1.05	348.17	4199.8	-10.6	8.3	9.2	0.09	12.4	47.80
4300.0	0.95	349.57	4299.8	-10.6	10.1	8.9	0.10	13.4	41.39
4400.0	0.74	342.22	4399.8	-10.5	11.5	8.5	0.24	14.3	36.56
4500.0	0.61	342.18	4499.8	-10.4	12.6	8.2	0.13	15.0	32.90
4600.0	0.53	335.01	4599.8	-10.2	13.5	7.8	0.11	15.6	29.95
4700.0	0.37	323.26	4699.8	-10.0	14.2	7.4	0.18	16.0	27.54
4800.0	0.35	320.80	4799.8	-9.7	14.7	7.0	0.03	16.3	25.53



Scientific
Drilling

Scientific Drilling International, Inc.

Survey Report

Company: BOPCO
Field: Quahada Ridge
Site: Eddy County, NM
Well: Hudson 1 Federal #10H
Wellpath: VH - Job #32K0310201

Date: 3/25/2010 Time: 15:29:18 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,259.09Azi)
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	0.29	319.73	4899.8	-9.4	15.1	6.7	0.06	16.5	23.77
5000.0	0.27	320.65	4999.8	-9.2	15.5	6.4	0.02	16.8	22.28
5100.0	0.27	326.36	5099.8	-9.0	15.9	6.1	0.03	17.0	20.92
5200.0	0.26	313.72	5199.8	-8.8	16.2	5.8	0.06	17.2	19.59
5300.0	0.18	328.26	5299.8	-8.6	16.5	5.5	0.10	17.4	18.51
5400.0	0.18	316.78	5399.8	-8.4	16.8	5.3	0.04	17.6	17.66
5500.0	0.17	330.22	5499.8	-8.3	17.0	5.2	0.04	17.8	16.87
5600.0	0.13	277.33	5599.8	-8.1	17.2	5.0	0.14	17.9	16.17
5700.0	0.18	262.01	5699.8	-7.9	17.2	4.7	0.06	17.8	15.34
5800.0	0.23	282.68	5799.8	-7.5	17.2	4.4	0.09	17.7	14.23
5900.0	0.37	210.48	5899.8	-7.1	17.0	4.0	0.37	17.4	13.27
6000.0	0.52	193.03	5999.8	-6.7	16.2	3.7	0.20	16.7	12.95
6100.0	0.92	167.66	6099.8	-6.6	15.0	3.8	0.50	15.5	14.22
6200.0	0.80	162.34	6199.8	-6.7	13.6	4.2	0.14	14.2	17.16
6300.0	0.77	165.73	6299.8	-6.8	12.2	4.6	0.06	13.1	20.44
6400.0	0.83	144.88	6399.7	-7.1	11.0	5.1	0.30	12.1	25.07
6500.0	0.57	154.70	6499.7	-7.6	10.0	5.8	0.29	11.5	30.12
6600.0	0.67	177.71	6599.7	-7.6	8.9	6.0	0.27	10.8	33.97
6700.0	1.07	194.32	6699.7	-7.1	7.4	5.8	0.47	9.4	37.98
6800.0	0.70	197.37	6799.7	-6.4	5.9	5.4	0.37	8.0	42.20
6810.0	0.52	170.15	6809.7	-6.4	5.8	5.4	3.36	7.9	42.64



Scientific
Drilling

Field: Quahada Ridge
Site: Eddy County, NM
Well: Hudson 1 Federal #10H
Survey: 03/22/10

