30 015 37280

Scientific Drilling

EOG

Field: Dog Canyon
Site: Eddy County, NM
Well: Lucky Wolf 31 Federal Com #1H
Wellpath: VH - Job #32K0310197
Survey: 03/19/10

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

Company Representative

Notarized this date 15th **of** April **, 2010.**

Notary Signature
Couty of Midland
State of Texas

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2011

Scientific Drilling

Scientific Drilling International, Inc.

Survey Report

Company:	EOG	**Date:** 3/22/2010	**Time:** 20:44:33	**Page:**	1
Field:	Dog Canyon	**Co-ordinate(NE) Reference:**	Site: Eddy County, NM, Grid North		
Site:	Eddy County, NM	**Vertical (TVD) Reference:**	SITE 0.0		
Well:	Lucky Wolf 31 Federal Com #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,265.52Azi)		
Wellpath:	VH - Job #32K0310197	**Survey Calculation Method:**	Minimum Curvature	**Db:**	Sybase

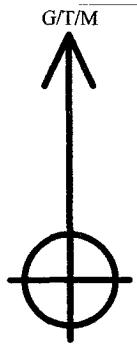
Survey:	03/19/10 KSRG 0'-6734'	**Start Date:**	3/19/2010
Company:	Scientific Drilling Internatio	**Engineer:**	Madrid/Rowe/Renteria
Tool:	Keeper,Keeper Surface Readout Gyro	**Tied-to:**	From Surface

Survey

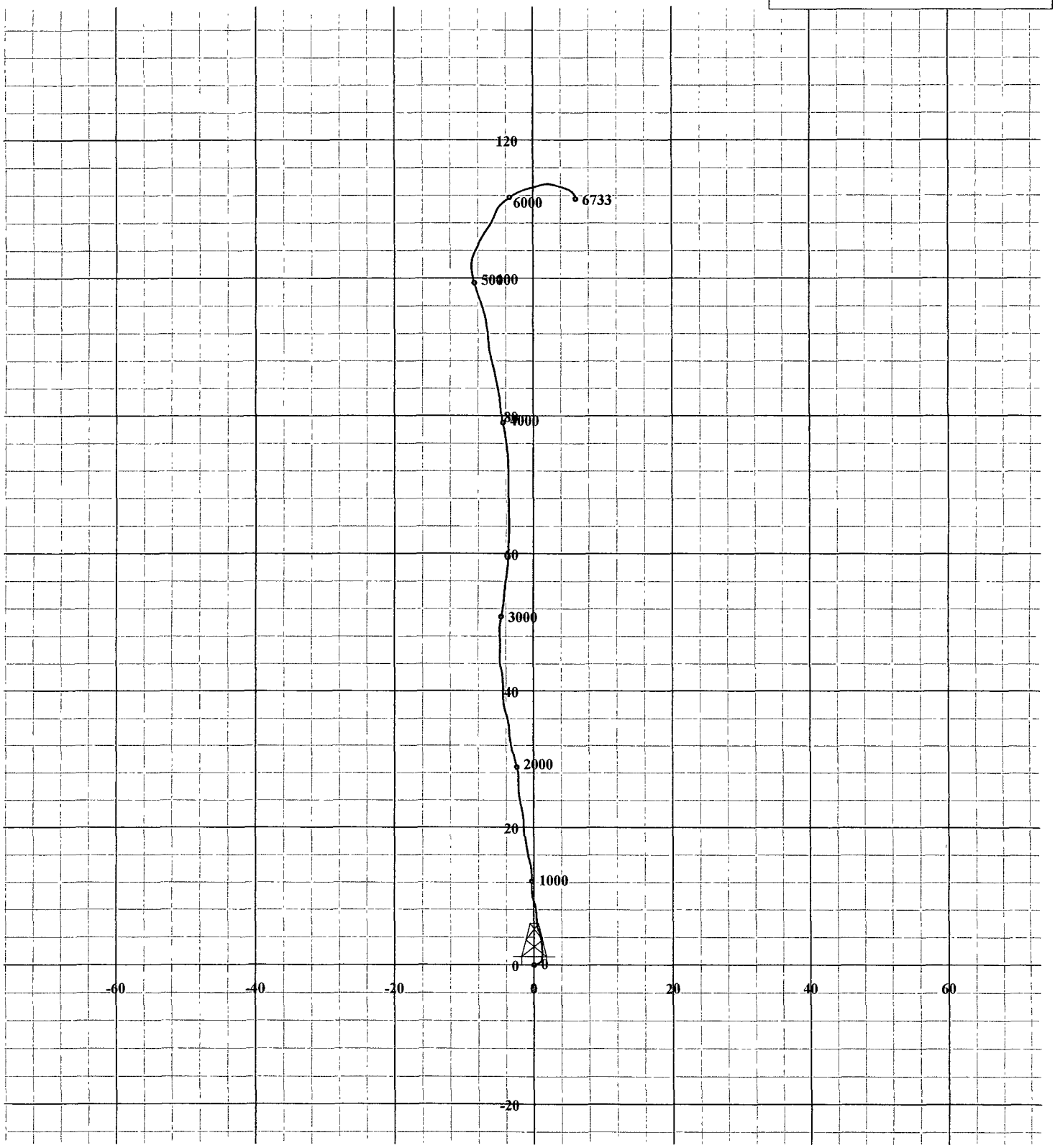
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.0	0.00	359.93	0.0	0.0	0.0	0.0	0.00	0.0	0.00
100.0	0.67	69.67	100.0	-0.6	0.2	0.5	0.67	0.6	69.67
200.0	0.68	7.28	200.0	-1.2	1.0	1.2	0.70	1.5	49.67
300.0	0.81	354.46	300.0	-1.4	2.3	1.2	0.21	2.6	27.27
400.0	0.85	352.42	400.0	-1.3	3.7	1.0	0.05	3.9	15.20
500.0	0.67	334.15	500.0	-1.0	5.0	0.7	0.30	5.0	7.54
600.0	0.68	1.18	600.0	-0.9	6.1	0.4	0.32	6.1	3.91
700.0	1.02	354.52	699.9	-0.9	7.6	0.3	0.35	7.6	2.60
800.0	0.94	341.29	799.9	-0.7	9.2	0.0	0.24	9.2	359.98
900.0	0.80	358.77	899.9	-0.6	10.7	-0.3	0.30	10.7	358.49
1000.0	0.83	0.45	999.9	-0.7	12.1	-0.3	0.04	12.1	358.63
1100.0	0.80	355.57	1099.9	-0.7	13.6	-0.3	0.08	13.6	358.57
1200.0	0.95	344.28	1199.9	-0.6	15.1	-0.6	0.23	15.1	357.65
1300.0	1.09	351.42	1299.9	-0.3	16.8	-1.0	0.19	16.8	356.65
1400.0	1.03	349.18	1399.9	-0.2	18.6	-1.3	0.07	18.7	356.02
1500.0	0.97	1.10	1499.8	-0.1	20.4	-1.4	0.22	20.4	355.93
1600.0	1.05	349.05	1599.8	-0.1	22.1	-1.6	0.23	22.2	355.84
1700.0	0.86	346.64	1699.8	0.1	23.7	-2.0	0.19	23.8	355.29
1800.0	0.92	355.33	1799.8	0.2	25.3	-2.2	0.15	25.4	355.04
1900.0	1.08	2.13	1899.8	0.1	27.0	-2.2	0.20	27.1	355.30
2000.0	1.04	343.12	1999.8	0.2	28.8	-2.5	0.35	28.9	355.14
2100.0	1.19	345.38	2099.7	0.6	30.7	-3.0	0.16	30.8	354.46
2200.0	1.15	351.88	2199.7	0.8	32.7	-3.4	0.14	32.9	354.10
2300.0	1.14	356.40	2299.7	0.9	34.7	-3.6	0.09	34.9	354.10
2400.0	1.28	340.71	2399.7	1.1	36.7	-4.0	0.36	36.9	353.76
2500.0	1.26	358.14	2499.7	1.4	38.9	-4.4	0.39	39.1	353.51
2600.0	1.24	358.94	2599.6	1.3	41.0	-4.5	0.03	41.3	353.78
2700.0	1.29	348.94	2699.6	1.3	43.2	-4 7	0.23	43 5	353.78
2800.0	1.36	3.56	2799.6	1.3	45.5	-4.9	0.34	45.8	353.91
2900.0	1.53	355.68	2899.6	1.1	48.0	-4.9	0.26	48.3	354.20
3000.0	1.70	11.26	2999.5	0.7	50.8	-4.7	0.47	51.0	354.73
3100.0	1.56	3.99	3099.5	0.1	53.6	-4.3	0.25	53.8	355.41
3200.0	1.74	9.02	3199.4	-0.5	56.5	-4.0	0.23	56.6	355.98
3300.0	1.76	1.01	3299.4	-1.0	59.5	-3.7	0.25	59.6	356.43
3400.0	1.56	3.35	3399.3	-1.3	62.4	-3.6	0.21	62.5	356.70
3500.0	1.67	357.28	3499.3	-1.5	65.2	-3.6	0.20	65.3	356.85
3600.0	1.80	1.09	3599.3	-1.7	68.3	-3.6	0.17	68.4	356.95
3700.0	1.46	358.99	3699.2	-1.9	71.1	-3.6	0.35	71.2	357.08
3800.0	1.45	357.11	3799.2	-2.1	73.6	-3.7	0.05	73.7	357.12
3900.0	1.66	351.48	3899.2	-2.0	76.3	-4.0	0.26	76.4	357.01
4000.0	1.42	348.28	3999.1	-1.7	79.0	-4.5	0.25	79.1	356.77
4100.0	1.41	356 67	4099.1	-1.6	81.4	-4.8	0.21	81.6	356.64
4200.0	1.34	347.70	4199.1	-1.5	83.8	-5.1	0.23	84.0	356.52
4300.0	1.20	348.85	4299.0	-1.2	86.0	-5.6	0.14	86.1	356.31
4400.0	1.21	344.40	4399.0	-0.9	88.0	-6.0	0.09	88.2	356.08
4500.0	1.20	352.90	4499.0	-0.6	90.1	-6.5	0.18	90.3	355.90
4600.0	1.18	356.67	4599.0	-0.6	92.1	-6.6	0.08	92.4	355.88
4700.0	1.15	348.32	4698.9	-0.5	94.1	-6.9	0.17	94.4	355.81
4800.0	1.02	340.03	4798.9	-0.1	96.0	-7.4	0.20	96.3	355.58

Scientific Drilling

Field: Dog Canyon
Site: Eddy County, NM
Well: Lucky Wolf 31 Federal Com #1H
Survey: 03/19/10



Azimuths to Grid North
True North 0 00°
Magnetic North 0 00°
Magnetic Field
Dip Angle 0 00°
Date 3/22/2010
Model igrf2000



South(-)/North(+) [20ft/in]

West(-)/East(+) [20ft/in]