

Scientific Drilling

30-015-#36411

EOG

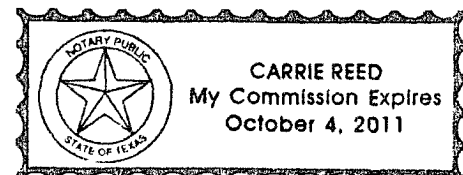
Field: Sand Tank
Site: Eddy County, NM
Well: Holly 5 Federal #2H
Wellpath: VH - Job #32K0908691
Survey: 09/06/08

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

.....Cliff Harris.....Company Representative

Notorized this date 14th of October, 2008.

Carrie Reed
Notary Signature
County of Midland
State of Texas



Scientific Drilling International
Survey Report

Company: EOG
Field: Sand Tank
Site: Eddy County, NM
Well: Holly 5 Federal #2H
Wellpath: VH - Job #32K0908691

Date: 10/05/2008 Time: 10 26 30 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,284 19Az)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 09/06/08 Start Date: 09/06/2008
KSRG 0'-7130'
Company: Scientific Drilling Internatio Engineer: Guebara/Williams w/GeoGyro
Tool: Keeper,Keeper Surface Readout Gyro Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	IVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0 00	0 00	359 27	0 00	0 00	0 00	0 00	0 00	0 00	0 00
100 00	0 48	189 95	100 00	-0 03	-0 41	-0 07	0 48	0 42	189 95
200 00	2 33	203 49	199 96	0 27	-2 69	-0 96	1 87	2 85	199 55
300 00	2 60	207 35	299 87	1.11	-6 57	-2 81	0 32	7 14	203 14
400 00	3 03	209 05	399 75	2 31	-10 89	-5 13	0 44	12 04	205 23
500 00	2 49	207 56	499 63	3 49	-15 13	-7 42	0 54	16 85	206 13
600 00	2 06	210 46	599 56	4 49	-18 60	-9 34	0 45	20 82	206 65
700 00	1 64	214 11	699 50	5 48	-21 34	-11 05	0 44	24 03	207 38
800 00	0 65	195 06	799 48	5 98	-23 07	-12 00	1 05	26 01	207 48
900 00	0 48	223 99	899 48	6 20	-23 92	-12 44	0 33	26 96	207 48
1000 00	0 17	267 56	999 48	6 55	-24 23	-12 88	0 38	27 44	207 99
1100 00	0 47	76 54	1099 48	6 33	-24 14	-12 63	0 64	27 24	207 61
1200 00	0 77	73 23	1199 47	5 39	-23 85	-11 59	0 30	26 51	205 91
1300 00	0 65	56 27	1299 46	4 43	-23 34	-10 47	0 24	25 58	204 16
1400 00	0 36	67 57	1399 46	3 80	-22.91	-9 71	0 31	24 88	202 97
1500 00	0 33	70 04	1499 46	3 31	-22 69	-9 15	0 03	24 46	201 96
1600 00	0 47	24 19	1599 45	3 00	-22 22	-8 71	0 34	23 86	201 40
1700 00	0 19	32 04	1699 45	2 88	-21 70	-8 45	0 28	23 29	201 28
1800 00	0 46	347 72	1799 45	3.00	-21 17	-8 45	0 35	22 79	201 76
1900 00	0 16	22 00	1899 45	3 16	-20 65	-8 48	0 34	22 32	202 34
2000 00	0 30	325 47	1999 45	3 34	-20.30	-8 58	0 25	22 04	202 91
2100 00	0 09	236.84	2099 45	3 59	-20 13	-8 79	0 31	21 97	203.60
2200 00	0 23	347.22	2199 45	3 74	-19 98	-8 90	0 27	21 87	204 02
2300 00	0 25	265 22	2299 45	4 03	-19 80	-9 16	0 32	21 82	204 84
2400 00	0 36	315 67	2399 45	4 51	-19 59	-9.60	0 28	21 82	206 11
2500 00	0 15	234 50	2499 44	4 86	-19 44	-9 93	0 37	21 83	207 05
2600 00	0 38	297 40	2599 44	5 27	-19 37	-10 33	0 34	21 95	208 07
2700 00	0 19	240 12	2699 44	5 71	-19 30	-10 77	0 32	22.10	209 16
2800 00	0 26	293 15	2799 44	6 05	-19 29	-11 12	0 21	22 27	209 96
2900 00	0 19	202 65	2899 44	6 30	-19.35	-11 39	0 32	22 46	210 48
3000 00	0 14	262 51	2999 44	6 44	-19 52	-11 58	0 17	22 70	210 67
3100 00	0 29	214 16	3099 44	6 64	-19.75	-11 84	0 22	23 03	210 95
3200 00	0 28	260 66	3199 44	6 95	-20 00	-12 22	0 23	23.44	211 44
3300 00	0 25	202 91	3299 44	7 21	-20 24	-12 55	0 26	23 81	211 80
3400 00	0 27	253 06	3399 44	7 44	-20 51	-12 86	0 22	24 21	212 09
3500 00	0 34	202 88	3499 44	7 69	-20 85	-13 20	0 27	24 68	212 34
3600 00	0 25	261 71	3599 44	7 93	-21 15	-13 53	0 30	25 11	212 61
3700 00	0 49	219 49	3699 43	8 32	-21 52	-14 02	0 35	25 68	213 09
3800 00	0 69	221 67	3799 43	8 78	-22 30	-14 69	0 20	26 70	213 38
3900 00	0 96	230 56	3899 42	9 55	-23 28	-15 74	0 30	28.10	214 07
4000 00	0 99	221 40	3999 40	10 45	-24 46	-16 96	0 16	29 76	214 74
4100 00	0 88	242 29	4099 39	11 41	-25 46	-18 21	0 36	31 30	215 57
4200 00	0 86	235 05	4199 38	12 48	-26 25	-19 50	0 11	32 70	216 61
4300 00	0 83	258 86	4299 37	13 62	-26 82	-20 83	0 35	33 96	217 83
4400 00	1 07	255 98	4399 35	15 10	-27 19	-22 45	0 24	35 25	219 55
4500 00	1 32	276 30	4499 33	17 06	-27 29	-24 50	0 49	36 67	221 92
4600 00	1 70	288 28	4599 30	19 68	-26 69	-27 05	0 49	38 00	225 38
4700 00	1 57	286 86	4699 26	22 53	-25 83	-29 77	0 14	39 41	229 05
4800 00	1 81	294 38	4799 21	25 45	-24 78	-32 52	0 33	40 89	232 69

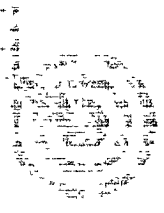
Scientific Drilling International
Survey Report

Company: EOG
Field: Sand Tank
Site: Eddy County, NM
Well: Holly 5 Federal #2H
Wellpath: VH - Job #32K0908691

Date: 10/05/2008 Time: 10 26 30 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Gnd North
Vertical (TVD) Reference: SITE 0 0
Section (VS) Reference: Well (0 00N,0 00E,284 19Azi)
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	ClcD ft	ClcA deg
4900 00	1 54	290 71	4899 17	28 34	-23 65	-35 21	0 29	42 42	236 11
5000 00	1 87	296 95	4999 13	31 27	-22 44	-37 93	0 38	44 07	239 39
5100 00	1 68	293 96	5099 08	34 31	-21 11	-40 72	0 21	45 86	242 60
5200 00	1 76	297 60	5199 03	37 24	-19 80	-43 42	0 14	47 72	245 49
5300 00	1 88	299 61	5298 98	40 32	-18 28	-46 21	0 14	49 69	248 42
5400 00	1 78	290 31	5398 93	43 44	-16 93	-49 09	0 31	51 93	250 97
5500 00	1 78	299.72	5498 88	46 48	-15 62	-51 89	0 29	54 19	253 25
5600 00	1 91	294 37	5598 83	49 62	-14 16	-54 76	0 22	56 56	255 50
5700 00	1 49	291 21	5698 79	52 55	-13 00	-57 49	0 43	58 94	257 26
5800 00	1 86	287 14	5798 75	55 46	-12 05	-60 25	0 39	61 45	258 69
5900 00	1 62	290 41	5898.70	58 49	-11 08	-63 13	0 26	64 10	260 04
6000 00	1 71	295 16	5998 66	61 36	-9 96	-65 81	0 16	66 55	261 40
6100 00	1 72	296 35	6098 61	64 29	-8 65	-68 50	0 04	69 05	262 80
6200 00	1 72	308 48	6198 57	67 13	-7 05	-71 02	0 36	71 37	264.33
6300 00	1 89	321 01	6298 52	69 81	-4 84	-73 23	0 43	73 39	266 22
6400 00	2 12	323 09	6398 46	72 57	-2 08	-75 38	0 24	75 41	268 42
6500 00	2 28	328 76	6498 38	75 43	1 10	-77 52	0 27	77.53	270 81
6600 00	2 25	331 58	6598 31	78 18	4 53	-79 49	0 12	79 62	273 26
6700 00	2 57	323 85	6698 22	81 23	8 07	-81 75	0 46	82.14	275 63
6800 00	2 41	327 94	6798 12	84 47	11 66	-84 18	0 24	84 99	277 88
6900 00	2 48	323 98	6898 03	87 66	15 19	-86 57	0 18	87 90	279 95
7000 00	2 23	328.35	6997 95	90 71	18 60	-88 87	0 31	90.79	281 82
7100 00	2 44	329 20	7097 86	93 61	22 08	-90 98	0 21	93 62	283 64
7130 00	2 42	327 90	7127 84	94 52	23 16	-91.64	0 20	94 52	284 19



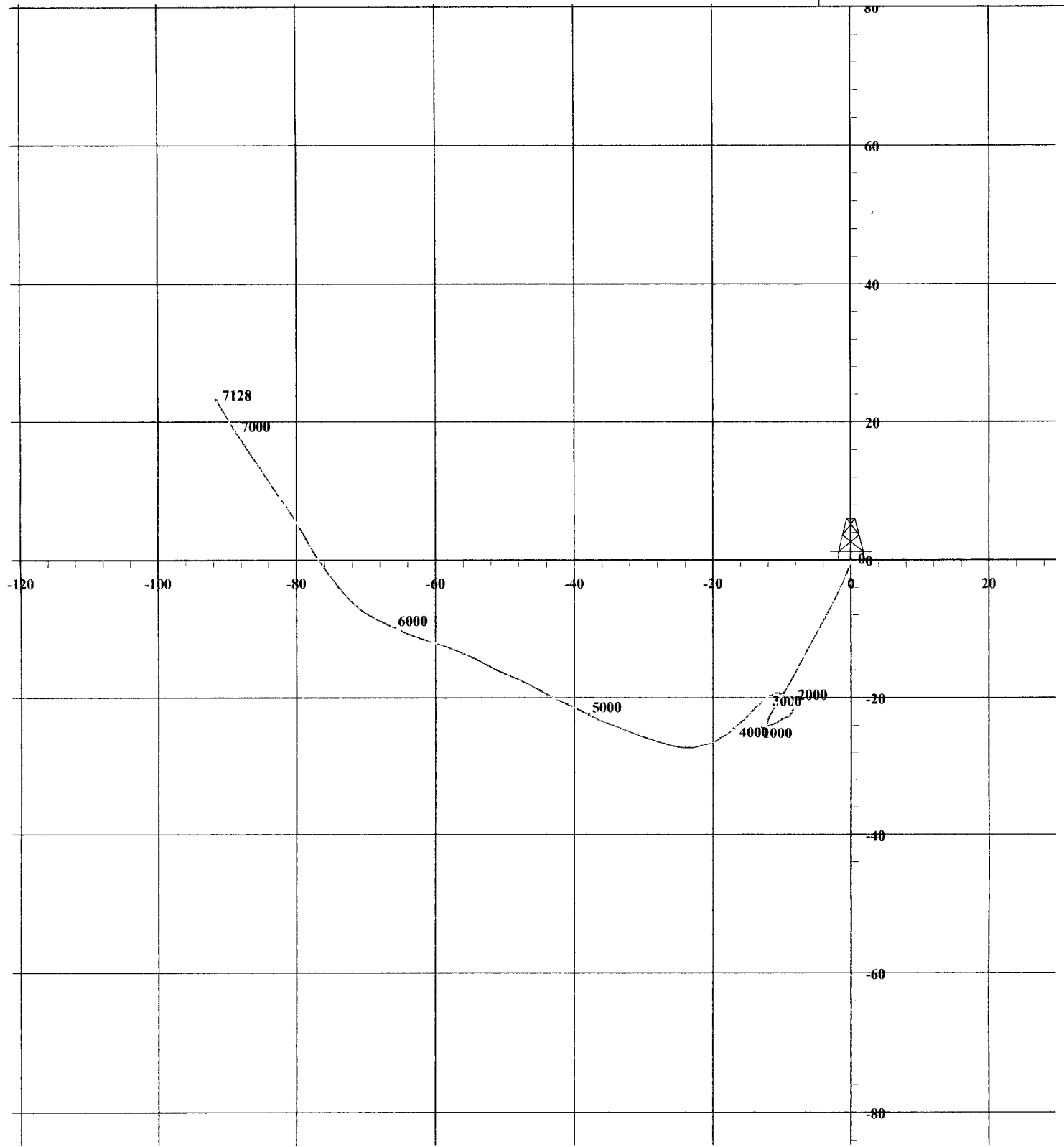
Scientific Drilling

Field: Sand Tank
Site: Eddy County, NM
Well: Holly 5 Federal #2H
Wellpath: VH - Job #32K0908691
Survey: 09/06/08

G.T.M.
↑
○

Vertical to Grid North
True North 0.00
Magnetic North 0.00

Magnetic Field
Strength 0.01
Dip Angle 0.00
Date 09/06/2008
Model 1212000



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

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

Actual Path

TMD	DEG	AZI	TVD	N/S	E/W	VS	DLS
7130	2.42	327.9	7127.84	23.16	-91.64	-92.66	0
7195	2.64	333.63	7192.77	25.66	-93.03	-94.18	0.52
7226	2.55	336.84	7223.73	26.94	-93.62	-94.83	0.55
7257	2.55	337.83	7254.7	28.21	-94.15	-95.42	0.14
7288	2.46	357.75	7285.68	29.51	-94.44	-95.77	2.81
7319	3.61	40.4	7316.64	30.92	-93.83	-95.24	7.91
7350	6.42	66.54	7347.52	32.36	-91.61	-93.09	11.46
7381	9.67	70.21	7378.21	33.93	-87.57	-89.13	10.61
7412	12.84	72.07	7408.61	35.87	-81.84	-83.5	10.29
7442	16.09	68.72	7437.65	38.41	-74.79	-76.59	11.18
7473	19.26	67.21	7467.19	41.95	-66.08	-68.05	10.33
7504	22.16	66.69	7496.18	46.24	-55.99	-58.19	9.37
7535	25.5	67.65	7524.53	51.09	-44.45	-46.9	10.85
7566	29.02	68.8	7552.09	56.35	-31.26	-33.98	11.48
7597	32.54	69.18	7578.72	62.04	-16.45	-19.47	11.37
7628	36.32	70.06	7604.28	68.13	-0.02	-3.36	12.3
7659	39.22	71.49	7628.78	74.38	17.91	14.24	9.77
7690	41.94	72.74	7652.33	80.56	37.1	33.1	9.16
7721	44.23	74.76	7674.97	86.48	57.42	53.12	8.62
7752	45.99	77.67	7696.85	91.7	78.75	74.16	8.74
7783	49.24	79.04	7717.74	96.32	101.17	96.33	10.98
7814	52.58	81.64	7737.29	100.34	124.89	119.82	12.59
7845	55.93	85.16	7755.4	103.22	149.87	144.63	14.2
7876	58.74	88.83	7772.13	104.57	175.93	170.59	13.47
7907	61.38	91.21	7787.6	104.55	202.78	197.41	10.81
7938	64.1	94.35	7801.8	103.21	230.3	224.96	12.57
7968	66.65	94.82	7814.3	101.03	257.48	252.22	8.62
7999	69.64	94.64	7825.84	98.65	286.15	280.97	9.66
8030	72.19	95.2	7835.98	96.14	315.34	310.25	8.4
8061	75.8	95.29	7844.52	93.42	345.01	340.01	11.65
8092	79.67	95.29	7851.11	90.63	375.17	370.27	12.48
8123	83.8	95	7855.56	87.88	405.71	400.92	13.35
8154	86.97	94.99	7858.06	85.19	436.49	431.79	10.23
8185	86.97	95.07	7859.7	82.47	467.33	462.72	0.26
8242	88.55	95.44	7861.92	77.25	524.04	519.63	2.85
8307	88.2	95.92	7863.77	70.82	588.7	584.52	0.91
8369	87.85	96.29	7865.9	64.23	650.31	646.38	0.82
8430	87.23	96.12	7868.52	57.65	710.9	707.22	1.05
8494	86.97	96.36	7871.76	50.7	774.44	771.02	0.55
8558	86.7	97.02	7875.29	43.26	837.9	834.77	1.11
8622	87.14	97.1	7878.73	35.4	901.33	898.51	0.7
8686	86.88	97.27	7882.07	27.41	964.74	962.23	0.49
8750	87.14	97.11	7885.41	19.41	1028.15	1025.96	0.48
8814	87.85	96.52	7888.21	11.82	1091.63	1089.74	1.44
8878	89.34	96.15	7889.78	4.76	1155.22	1153.6	2.4
8942	89.34	96.01	7890.51	-2.02	1218.86	1217.49	0.22
9006	89.34	95.88	7891.25	-8.65	1282.51	1281.39	0.2
9071	89.43	95.58	7891.95	-15.14	1347.18	1346.3	0.48
9135	89.08	94.99	7892.78	-21.03	1410.9	1410.24	1.07
9199	88.37	95.26	7894.2	-26.75	1474.63	1474.17	1.19

9263	88.55	95.18	7895.92	-32.57	1538.34	1538.09	0.31
9327	88.81	95.16	7897.4	-38.33	1602.06	1602.02	0.41
9389	88.37	95.38	7898.92	-44.02	1663.78	1663.94	0.79
9454	87.85	95.21	7901.07	-50.02	1728.47	1728.84	0.84
9517	88.29	95.11	7903.19	-55.68	1791.18	1791.76	0.72
9582	88.29	94.86	7905.13	-61.33	1855.9	1856.68	0.38
9645	87.67	94.97	7907.35	-66.72	1918.63	1919.6	1
9709	87.93	94.87	7909.81	-72.21	1982.35	1983.51	0.43
9773	87.93	95.17	7912.12	-77.8	2046.06	2047.42	0.47
9838	87.76	95.23	7914.56	-83.69	2110.75	2112.31	0.28
9902	87.23	95.16	7917.36	-89.48	2174.43	2176.2	0.83
9965	86.97	95.32	7920.55	-95.23	2237.08	2239.06	0.48
10029	87.23	94.96	7923.78	-100.95	2300.74	2302.93	0.69
10093	87.58	94.56	7926.68	-106.26	2364.46	2366.82	0.83
10157	87.41	94.37	7929.48	-111.24	2428.2	2430.74	0.4
10221	87.41	94.17	7932.37	-116	2491.96	2494.65	0.31
10285	87.85	93.61	7935.02	-120.33	2555.76	2558.58	1.11
10349	87.49	93.84	7937.62	-124.49	2619.57	2622.52	0.67
10411	86.61	93.82	7940.81	-128.62	2681.35	2684.43	1.42
10476	86.79	93.85	7944.55	-132.96	2746.09	2749.31	0.28
10540	86.79	93.87	7948.14	-137.27	2809.85	2813.2	0.03
10603	87.32	93.56	7951.37	-141.34	2872.63	2876.11	0.97
10667	87.67	93.88	7954.17	-145.49	2936.44	2940.04	0.74
10731	88.02	93.97	7956.58	-149.87	3000.24	3003.98	0.56
10763	87.85	94.18	7957.73	-152.14	3032.14	3035.95	0.84
10835	87.85	94.18	7960.43	-157.39	3103.9	3107.88	0