

30.015.36411

Scientific Drilling

EOG

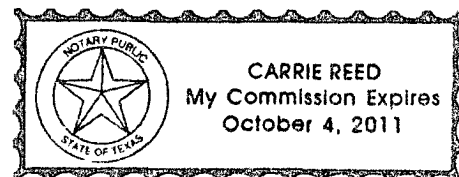
Field: Sand Tank
Site: Eddy County, NM
Well: Holly 5 Federal #2H
Wellpath: VH - Job #32K0908691
Survey: 09/06/08

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

.....Richard.....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 Date: 10/05/2008 Time: 10:26:30 Page: 1
Field: Sand Tank Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Site: Eddy County, NM Vertical (TVD) Reference: SITE 0.0
Well: Holly 5 Federal #2H Section (VS) Reference: Well (0 00N,0.00E,284 19Az)
Wellpath: VH - Job #32K0908691 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 09/06/08 Start Date: 09/06/2008
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	TVD 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

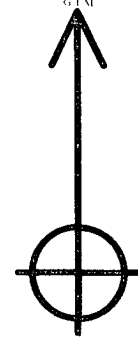
Date: 10/05/2008 **Time:** 10:26:30 **Page:** 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,284.19Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey

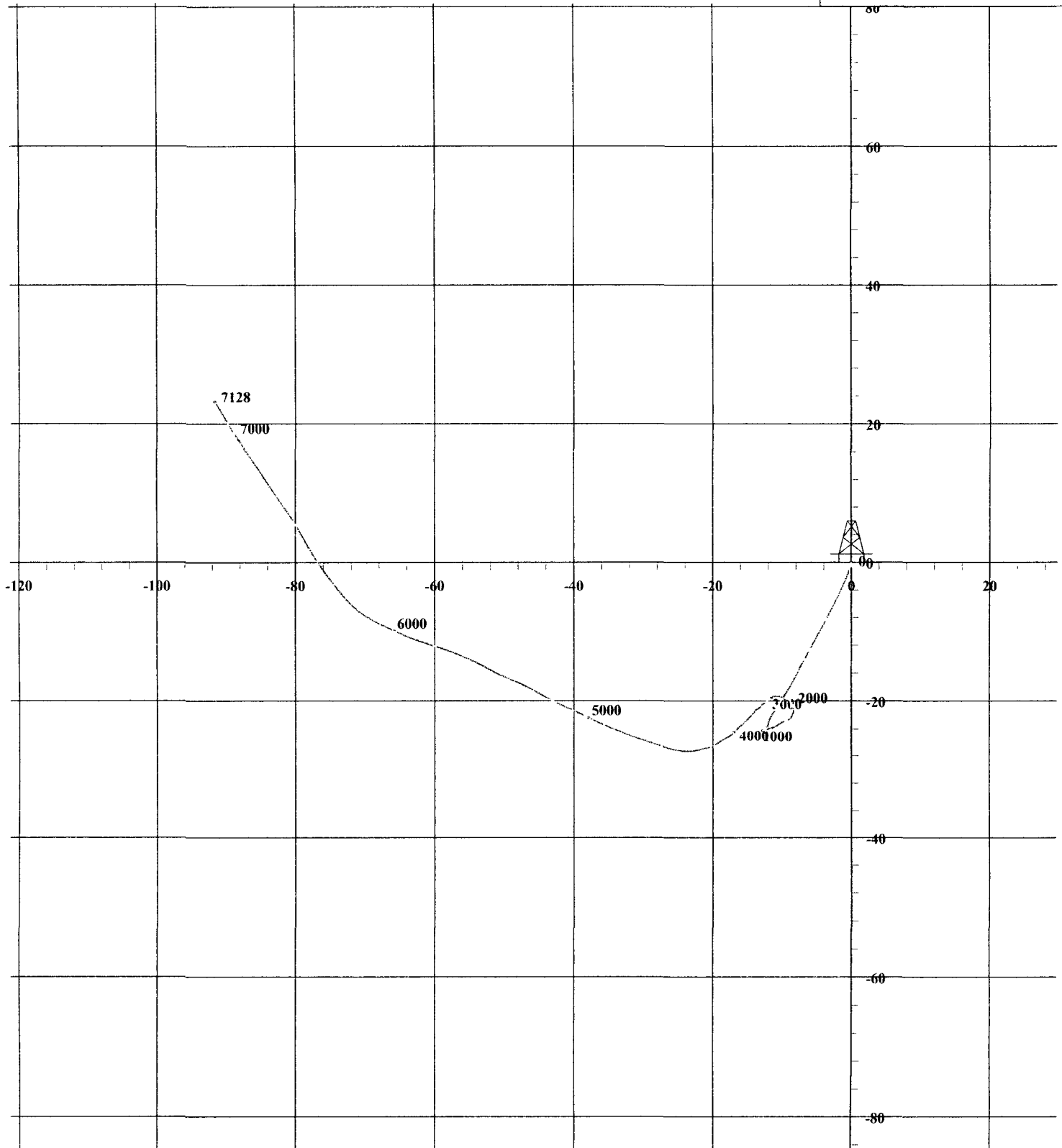
MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.54	290.71	4899.17	28.34	-23.65	-35.21	0.29	42.42	236.11
5000.00	1.87	296.95	4999.13	31.27	-22.44	-37.93	0.38	44.07	239.39
5100.00	1.68	293.96	5099.08	34.31	-21.11	-40.72	0.21	45.86	242.60
5200.00	1.76	297.60	5199.03	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

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

Scientific Drilling



Azimuths to Grid North
True North 0.00
Magnetic North 0.00
Magnetic Field
Strength 0.01
Dip Angle 0.00
Date 09/06/2008
Version 001



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