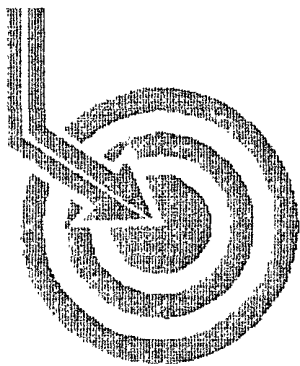




Scientific Drilling

EOG

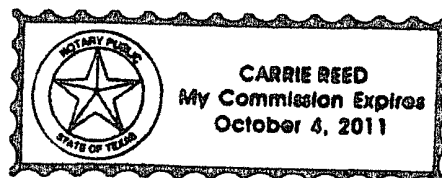
Field: Gopher
 Site: Eddy County, NM
 Well: Chama 3 Federal #2H
 Wellpath: VH - Job #32K0508321
 Survey: 05/08/08

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

.....*L. Webster*..... Company Representative

Notorized this date 6th of June, 2008.

Carrie Reed
 Notary Signature
 County of Midland
 State of Texas





Scientific Drilling International

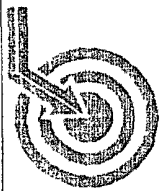
Survey Report

Company: EOG	Date: 06/05/2008	Time: 08:32:50	Page: 1
Field: Gopher	Co-ordinate(NE) Reference:	Site: Eddy County, NM. Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Chama 3 Federal #2H	Section (VS) Reference:	Well (0.00N,0.00E,268.96Azi)	
Wellpath: VH - Job #32K0508321	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 05/08/08	Start Date: 06/05/2008
KSRG 0'-3675'	
Company: Scientific Drilling Internatio	Engineer: Madrid w/P&M
Tool: Keeper;Keeper Surface Readout Gyro	Tied-to: From Surface

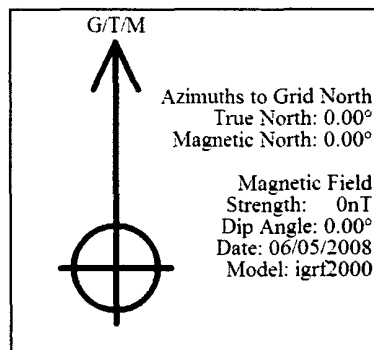
Survey

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	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.15	112.72	100.00	-0.12	-0.05	0.12	0.15	0.13	112.72
200.00	0.63	176.73	200.00	-0.26	-0.65	0.27	0.58	0.70	157.23
300.00	0.96	180.31	299.99	-0.26	-2.04	0.30	0.33	2.06	171.63
400.00	1.94	211.91	399.96	0.68	-4.31	-0.60	1.23	4.35	187.92
500.00	2.31	208.25	499.89	2.58	-7.52	-2.45	0.39	7.91	198.03
600.00	2.15	205.38	599.81	4.40	-10.99	-4.21	0.20	11.77	200.94
700.00	2.31	204.59	699.74	6.11	-14.52	-5.85	0.16	15.65	201.94
800.00	2.14	209.55	799.66	7.93	-17.98	-7.61	0.26	19.52	202.94
900.00	2.04	213.67	899.59	9.90	-21.08	-9.52	0.18	23.13	204.29
1000.00	2.01	217.03	999.53	11.99	-23.96	-11.56	0.12	26.61	205.75
1100.00	2.46	225.33	1099.46	14.63	-26.87	-14.14	0.55	30.37	207.75
1200.00	2.31	219.82	1199.37	17.50	-29.93	-16.96	0.27	34.40	209.54
1300.00	2.29	223.55	1299.29	20.22	-32.93	-19.62	0.15	38.33	210.80
1400.00	2.21	221.24	1399.21	22.92	-35.82	-22.27	0.12	42.18	211.87
1500.00	2.09	221.11	1499.14	25.44	-38.65	-24.74	0.12	45.89	212.63
1600.00	1.44	224.83	1599.09	27.57	-40.91	-26.83	0.66	48.92	213.25
1700.00	1.32	228.09	1699.06	29.34	-42.57	-28.57	0.14	51.27	213.87
1800.00	0.71	237.86	1799.05	30.74	-43.67	-29.95	0.63	52.96	214.44
1900.00	0.47	255.29	1899.04	31.67	-44.11	-30.87	0.30	53.84	214.99
2000.00	0.63	260.99	1999.04	32.61	-44.30	-31.81	0.17	54.54	215.69
2100.00	0.50	262.30	2099.03	33.59	-44.44	-32.79	0.13	55.23	216.42
2200.00	0.52	264.42	2199.03	34.48	-44.54	-33.67	0.03	55.84	217.09
2300.00	0.56	257.15	2299.02	35.41	-44.70	-34.60	0.08	56.52	217.74
2400.00	0.68	273.09	2399.02	36.48	-44.77	-35.67	0.21	57.24	218.54
2500.00	0.59	275.20	2499.01	37.58	-44.69	-36.77	0.09	57.88	219.45
2600.00	0.63	273.72	2599.01	38.64	-44.61	-37.84	0.04	58.50	220.30
2700.00	0.48	278.50	2699.00	39.60	-44.51	-38.80	0.16	59.05	221.08
2800.00	0.47	280.55	2799.00	40.42	-44.38	-39.62	0.02	59.49	221.76
2900.00	0.40	273.49	2899.00	41.17	-44.28	-40.37	0.09	59.92	222.35
3000.00	0.22	286.05	2998.99	41.70	-44.21	-40.90	0.19	60.23	222.78
3100.00	0.21	233.87	3098.99	42.03	-44.26	-41.23	0.19	60.49	222.97
3200.00	0.44	245.53	3198.99	42.53	-44.53	-41.73	0.24	61.03	223.14
3300.00	0.23	212.66	3298.99	43.00	-44.86	-42.19	0.28	61.58	223.24
3400.00	0.17	100.13	3398.99	42.96	-45.05	-42.15	0.33	61.70	223.10
3500.00	0.56	59.64	3498.99	42.39	-44.83	-41.58	0.44	61.15	222.85
3600.00	0.62	60.48	3598.98	41.49	-44.32	-40.69	0.06	60.16	222.56
3675.00	0.58	54.44	3673.98	40.82	-43.90	-40.03	0.10	59.41	222.36



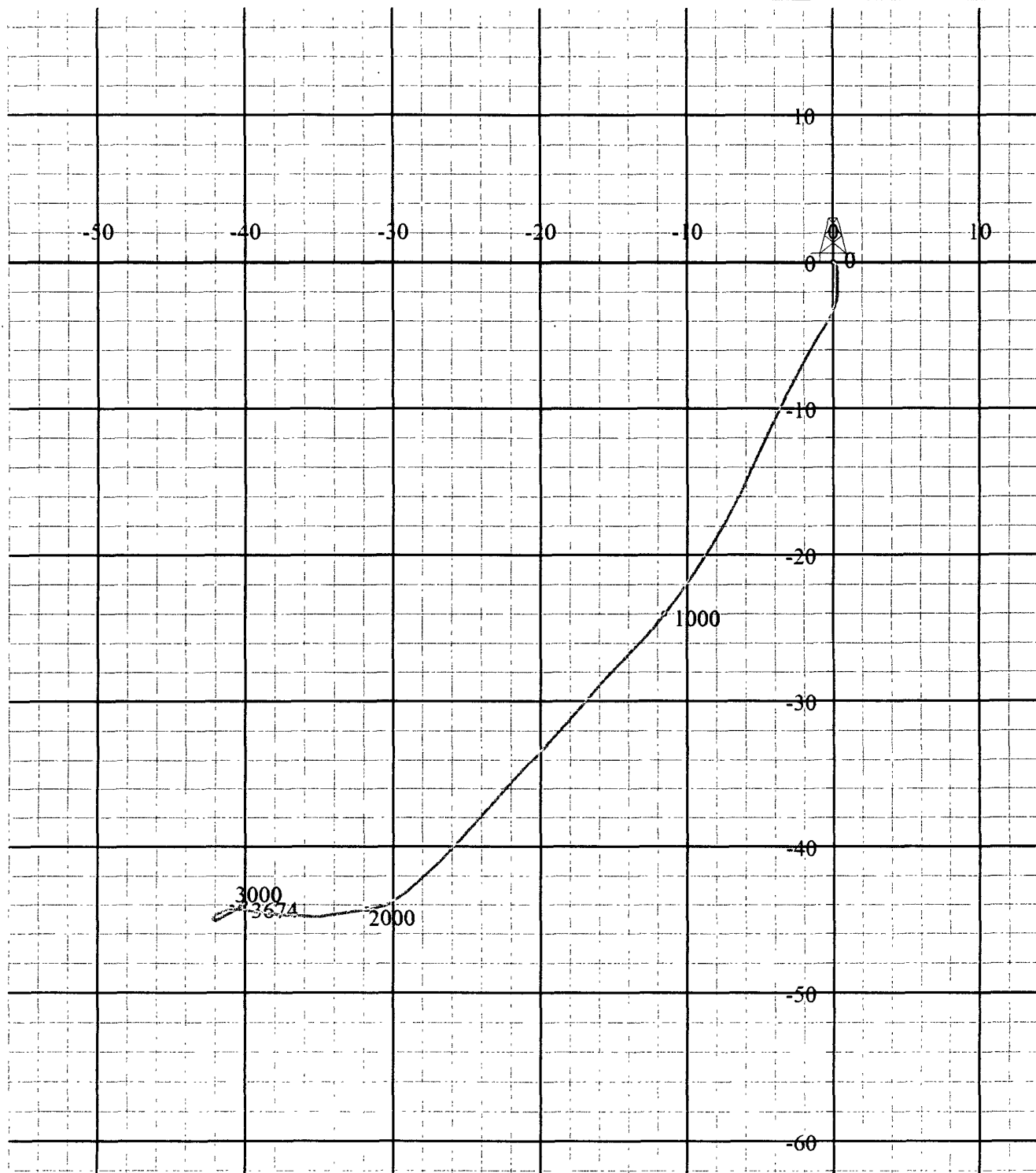
**Scientific
Drilling**

Field: Gopher
Site: Eddy County, NM
Well: Chama 3 Federal #2H
Wellpath: VH - Job #32K0508321
Survey: 05/08/08



West(-)/East(+) [10ft/in]

South(-)/North(+) [10ft/in]



Chama 3 Fed #2H Final Surveys.txt

~Version Information

VERS. 2.00: PATHFINDER ENERGY SERVICES LAS - Version 2.00
 WRAP. NO: One line per depth step

~Well Information

STRT.FT 3990.0000:
 STOP.FT 8410.0000:
 STEP.FT 0.0000:
 NULL. -999.25:
 COMP. EOG RESOURCES INC.: COMPANY
 WELL. CHAMA 3 FED #2H: WELL
 FLD. COTTONWOOD CREEK: FLD
 SRVC. Pathfinder Energy Services: SERVICE COMPANY
 LOC. : LOCATION
 DATE. 12-May-08: LOG DATE
 UWI. 30-015-36208: API NUMBER
 APD.FT 18.00: ELEVATION ABOVE PERMANENT DATUM
 CNTY. EDDY COUNTY: COUNTY
 CTRY. USA: COUNTRY
 DMF. ROTARY TABLE: DRILLING-LOG MEASURED FROM
 FL1. 760 FSL 360 FEL: WELL LOCATION 1
 FL2. X;396154.70 Y;644661.00: WELL LOCATION 2
 PDAM. GROUND LEVEL - MEAN SEA LEVEL: ELEVATION OF PERMANENT DATUM REF
 PDAT. GROUND LEVEL: PERMANENT DATUM
 RANG. 23E: RANGE
 SECT. 003: SECTION
 STAT. NM: STATE
 TOWN. 18S: TOWNSHIP

~Parameter Information

BHB1.IN 12 1/4: BOREHOLE REC; BIT 1
 BHF1.FT 0: BOREHOLE REC; FROM 1
 BHO1.FT 1320: BOREHOLE REC; TO 1
 BHB2.IN 7 7/8: BOREHOLE REC; BIT 2
 BHF2.FT 1320: BOREHOLE REC; FROM 2
 BHO2.FT 8400: BOREHOLE REC; TO 2
 CTS1.IN 8 5/8: CASING & TUBING REC; SIZE 1
 CTF1.FT 0: CASING & TUBING REC; FROM 1
 CTO1.FT 1320: CASING & TUBING REC; TO 1
 DCOM. MC VAY: DRILLING COMPANY
 RIG. 4: DRILLING RIG
 DIST. WEST TEXAS: DISTRICT
 STDT. 09-MAY-08: START DATE
 SDEP.FT 4051: DEPTH IN
 "R001. EOG RESOURCES, INC.: Remarks - Line 001 "
 R002. PATHFINDER ENERGY TRACKING #101007387-WT-WT.: Remarks - Line 002

Chama 3 Fed #2H Final Surveys.txt

R004. ALL REFERENCES IN DEPTH TRACK ARE AT BIT DEPTH.: Remarks - Line 004
R005. ALL LOGGING DATA IS TRANSMITTED ONLY UNLESS STATED OTHERWISE.: Remarks - Line 005
"R007. RUNS #1-#2; 6-1/4"" HDS1R/GAMMA LOGGING RUN.: Remarks - Line 007 "

RA01. 1: RUN NUMBER 01
RB01. 09-MAY-08: START DATE - RUN 01
RC01. 02:00: START TIME - RUN 01
RD01. 10-MAY-08: END DATE - RUN 01
RE01. 06:00: END TIME - RUN 01
RF01.FT 4051: DEPTH IN - RUN 01
RG01.FT 4683: DEPTH OUT - RUN 01
RH01.FT 4000: LOG TOP - RUN 01
RI01.FT 4633: LOG BOTTOM - RUN 01
RJ01.IN 7 5/8: HOLE SIZE - RUN 01
RU01. H.DONARUMMA: ENGINEER #1 - RUN 01
RV01. K.STEWART: ENGINEER #2 - RUN 01
MB01.FT 4232: MUD DEPTH - RUN 01
MD01. WATER BASED: MUD TYPE - RUN 01
ME01.LB/GAL 8.70: DENSITY - RUN 01
MF01.S/QT 28: VISCOSITY - RUN 01
MG01. 10.0: PH - RUN 01

RA02. 2: RUN NUMBER 02
RB02. 10-MAY-08: START DATE - RUN 02
RC02. 0: START TIME - RUN 02
RD02. 0: END DATE - RUN 02
RF02.FT 4683: DEPTH IN - RUN 02
RG02.FT 0: DEPTH OUT - RUN 02
RH02.FT 4633: LOG TOP - RUN 02
RI02.FT 0: LOG BOTTOM - RUN 02
RJ02.IN 7 5/8: HOLE SIZE - RUN 02
RU02. H.DONARUMMA: ENGINEER #1 - RUN 02
RV02. K.STEWART: ENGINEER #2 - RUN 02
MB02.FT 4723: MUD DEPTH - RUN 02
MD02. WATER BASED: MUD TYPE - RUN 02
ME02.LB/GAL 8.70: DENSITY - RUN 02
MF02.S/QT 28: VISCOSITY - RUN 02
MG02. 10.0: PH - RUN 02

TTL1. : HEADER TITLE LINE 1
TTL2. : HEADER TITLE LINE 2
TTL3. GAMMA-RAY: HEADER TITLE LINE 3
"SC1 . 5"" = 100' : LOG SCALE 1"
SC2 . : LOG SCALE 2
OS1 . DIRECTIONAL: OTHER SERVICES LINE 1
OS2 . ROP: OTHER SERVICES LINE 2
~Curve Information

Chama 3 Fed #2H Final Surveys.txt

DEPT,FT	MTTVD,FT	INC ,DEG	AZI ,DEG	SECT,FT	RCN ,FT	RCE ,FT	DLSEV,DG/HFT
#	#	#	#	#	#	#	#
# Re log Number	0	0	0	0	0	0	0
~ASCII Data							
4044.07	4043.01	1.06	34.84	38.19	-40.51	-37.46	0.30
4076.00	4074.93	3.08	307.47	38.68	-39.74	-37.97	10.06
4107.00	4105.79	7.39	296.16	41.11	-38.36	-40.42	14.23
4139.00	4137.34	11.70	292.63	45.91	-36.20	-45.26	13.59
4171.00	4168.40	16.09	290.54	53.01	-33.40	-52.41	13.81
4202.00	4197.90	19.61	287.69	61.94	-30.31	-61.40	11.70
4234.00	4227.72	22.86	285.33	72.99	-27.03	-72.51	10.50
4266.00	4256.84	26.12	282.73	85.80	-23.83	-85.38	10.73
4298.00	4285.15	29.46	280.18	100.36	-20.89	-100.00	11.08
4329.00	4311.72	32.54	278.41	116.07	-18.32	-115.76	10.36
4361.00	4338.28	35.26	276.20	133.73	-16.07	-133.46	9.33
4392.00	4363.21	37.64	274.64	152.02	-14.33	-151.79	8.24
4424.00	4388.03	40.63	273.43	172.14	-12.92	-171.93	9.64
4456.00	4411.81	43.35	273.96	193.47	-11.54	-193.29	8.57
4488.00	4434.45	46.60	274.89	215.98	-9.79	-215.84	10.36
4519.00	4455.04	50.12	275.08	239.02	-7.77	-238.92	11.36
4551.00	4474.89	53.20	274.59	263.98	-5.66	-263.92	9.70
4583.00	4493.44	55.93	273.50	289.95	-3.83	-289.93	8.97
4614.00	4510.13	58.92	272.19	316.01	-2.53	-316.02	10.28
4646.00	4525.95	61.82	271.22	343.79	-1.71	-343.82	9.44
4678.00	4540.39	64.54	270.27	372.33	-1.34	-372.37	8.90
4709.00	4552.84	68.06	270.17	400.70	-1.23	-400.75	11.36
4741.00	4563.95	71.31	270.12	430.70	-1.16	-430.75	10.16
4773.00	4573.41	74.30	270.14	461.26	-1.09	-461.32	9.34
4804.00	4581.15	76.77	269.48	491.28	-1.19	-491.33	8.23
4836.00	4587.69	79.67	269.77	522.60	-1.39	-522.66	9.11
4868.00	4592.45	83.19	270.09	554.23	-1.43	-554.29	11.04
4963.00	4597.33	90.92	268.58	649.03	-2.54	-649.09	8.29
5058.00	4595.81	90.92	268.50	744.01	-4.96	-744.04	0.08
5153.00	4593.98	91.28	268.75	838.99	-7.24	-839.00	0.46

Chama 3 Fed #2H Final Surveys.txt

5248.00	4592.23	90.84	267.96	933.97	-9.96	-933.94	0.95
5343.00	4590.69	91.01	269.00	1028.95	-12.48	-1028.90	1.11
5439.00	4588.92	91.10	270.01	1124.93	-13.31	-1124.87	1.06
5534.00	4587.39	90.75	269.87	1219.90	-13.41	-1219.86	0.40
5629.00	4586.37	90.48	270.60	1314.88	-13.02	-1314.86	0.82
5724.00	4585.28	90.84	270.66	1409.83	-11.98	-1409.84	0.38
5820.00	4583.58	91.19	271.62	1505.74	-10.07	-1505.81	1.06
5915.00	4581.60	91.19	271.63	1600.62	-7.37	-1600.75	0.01
6007.00	4579.76	91.10	271.67	1692.50	-4.73	-1692.69	0.11
6099.00	4578.21	90.84	271.62	1784.39	-2.08	-1784.64	0.29
6193.00	4577.26	90.31	271.32	1878.29	0.33	-1878.61	0.65
6318.00	4574.48	92.24	271.82	2003.12	3.75	-2003.52	1.59
6444.00	4569.74	92.07	272.17	2128.86	8.13	-2129.36	0.31
6568.00	4566.99	90.48	271.38	2252.67	11.97	-2253.26	1.43
6692.00	4566.23	90.22	270.86	2376.58	14.40	-2377.23	0.47
6816.00	4564.32	91.54	271.53	2500.47	16.98	-2501.19	1.19
6941.00	4560.68	91.80	269.21	2625.37	17.79	-2626.12	1.87
7065.00	4557.07	91.54	269.30	2749.31	16.18	-2750.06	0.22
7191.00	4555.33	90.04	269.54	2875.30	14.90	-2876.04	1.20
7316.00	4554.95	90.31	267.31	3000.28	11.47	-3000.98	1.80
7441.00	4552.17	92.24	268.47	3125.22	6.87	-3125.86	1.80
7566.00	4549.20	90.48	268.05	3250.17	3.07	-3250.76	1.45
7691.00	4547.67	90.92	268.88	3375.15	-0.28	-3375.71	0.75
7816.00	4545.67	90.92	269.37	3500.14	-2.19	-3500.68	0.39
7941.00	4545.00	89.69	266.68	3625.11	-6.49	-3625.58	2.37
8065.00	4544.14	91.10	267.54	3749.03	-12.74	-3749.42	1.33
8220.00	4544.15	88.90	267.26	3903.97	-19.78	-3904.25	1.43
8323.00	4543.98	91.28	267.26	4006.91	-24.70	-4007.13	2.31
8400.00	4542.26	91.28	267.26	4083.86	-28.38	-4084.02	0.00