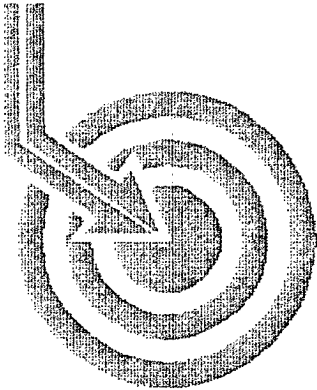




Scientific Drilling

E.O.G.

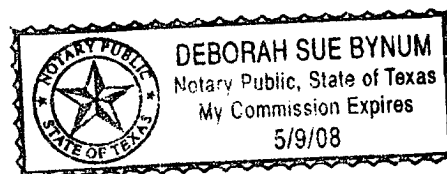
Field: Colorado
Site: Eddy County, NM
Well: Colorado B 22 Fed #1H
Wellpath: VH - Job #32K0406310
Survey: 04/19/06

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

.....*Deborah Sue Bynum*.....Company Representative

Notorized this date 2nd of June, 2006.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific
Drilling

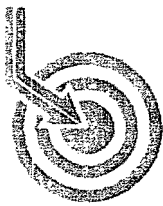
Scientific Drilling International Survey Report

Company: E.O.G.	Date: 06/01/2006	Time: 19:42:01	Page: 1
Field: Colorado	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Colorado B 22 Fed #1H	Section (VS) Reference:	Well (0.00N,0.00E,269.73Azi)	
Wellpath: VH - Job #32K0406310	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 04/19/06	Start Date: 04/19/2006
Company: Scientific Drilling Internatio	Engineer: Guebara w/P&M
Tool: Keeper;Keeper Surface Readout Gyro	Tied-to: From Surface

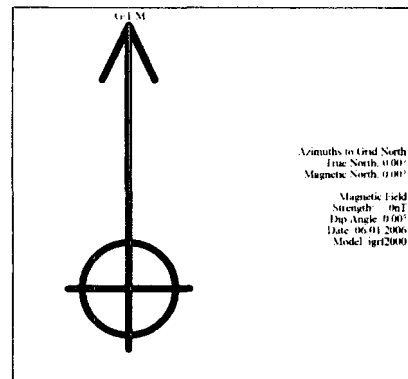
Survey

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	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.36	42.75	100.00	-0.21	0.23	0.21	0.36	0.31	42.75
200.00	0.46	35.64	200.00	-0.66	0.79	0.66	0.11	1.03	39.98
300.00	0.46	35.38	299.99	-1.13	1.44	1.13	0.00	1.83	38.02
400.00	0.48	39.95	399.99	-1.64	2.09	1.63	0.04	2.65	37.92
500.00	0.47	84.14	499.99	-2.32	2.45	2.30	0.36	3.37	43.21
600.00	0.55	111.45	599.98	-3.17	2.32	3.16	0.25	3.92	53.71
700.00	0.48	104.00	699.98	-4.02	2.04	4.01	0.10	4.50	63.02
800.00	0.26	95.00	799.98	-4.65	1.92	4.64	0.23	5.03	67.53
900.00	0.16	95.32	899.98	-5.02	1.89	5.01	0.10	5.35	69.36
1000.00	0.38	111.35	999.98	-5.47	1.75	5.46	0.23	5.73	72.18
1100.00	0.08	6.50	1099.97	-5.78	1.70	5.77	0.41	6.02	73.58
1200.00	0.41	299.85	1199.97	-5.48	1.95	5.47	0.38	5.81	70.43
1300.00	0.44	302.04	1299.97	-4.85	2.33	4.84	0.04	5.37	64.34
1400.00	0.49	321.44	1399.97	-4.26	2.86	4.25	0.16	5.12	56.03
1500.00	0.42	335.95	1499.96	-3.85	3.53	3.83	0.13	5.21	47.35
1600.00	0.42	327.83	1599.96	-3.51	4.18	3.49	0.06	5.44	39.88
1700.00	0.88	284.73	1699.96	-2.58	4.68	2.56	0.64	5.33	28.63
1800.00	1.43	293.54	1799.94	-0.70	5.37	0.67	0.58	5.42	7.10
1900.00	1.49	292.86	1899.90	1.64	6.38	-1.67	0.06	6.59	345.30
2000.00	1.26	302.82	1999.87	3.76	7.48	-3.80	0.33	8.39	333.09
2100.00	1.21	304.02	2099.85	5.56	8.67	-5.60	0.06	10.32	327.15
2200.00	1.28	307.01	2199.83	7.32	9.93	-7.36	0.09	12.36	323.44
2300.00	1.50	293.88	2299.80	9.40	11.13	-9.45	0.38	14.60	319.67
2400.00	1.78	282.81	2399.76	12.10	12.01	-12.16	0.42	17.09	314.63
2500.00	1.67	269.03	2499.71	15.07	12.32	-15.13	0.43	19.51	309.17
2600.00	1.47	263.19	2599.67	17.80	12.15	-17.86	0.26	21.60	304.22
2700.00	0.99	255.56	2699.65	19.92	11.78	-19.97	0.50	23.19	300.53
2800.00	0.79	263.99	2799.64	21.44	11.49	-21.50	0.24	24.38	298.13
2900.00	0.56	243.21	2899.63	22.57	11.20	-22.62	0.33	25.24	296.34
3000.00	0.42	232.83	2999.63	23.30	10.76	-23.35	0.17	25.71	294.73
3100.00	0.43	241.61	3099.63	23.93	10.36	-23.98	0.07	26.12	293.36
3200.00	0.21	203.46	3199.62	24.33	10.01	-24.38	0.29	26.35	292.32
3300.00	0.30	98.70	3299.62	24.15	9.80	-24.20	0.40	26.11	292.05
3400.00	0.49	84.34	3399.62	23.47	9.80	-23.52	0.21	25.48	292.63
3500.00	0.66	77.45	3499.62	22.48	9.97	-22.53	0.18	24.64	293.87
3600.00	1.64	97.70	3599.60	20.50	9.90	-20.55	1.05	22.81	295.73
3700.00	2.69	129.59	3699.53	17.28	8.22	-17.32	1.56	19.17	295.37
3800.00	2.50	161.88	3799.43	14.81	4.65	-14.83	1.46	15.54	287.39
3900.00	1.75	159.91	3899.36	13.63	1.14	-13.63	0.75	13.68	274.77
4000.00	1.47	130.27	3999.32	12.13	-1.13	-12.13	0.87	12.18	264.70
4100.00	1.54	117.54	4099.29	9.97	-2.58	-9.96	0.34	10.29	255.50
4200.00	1.58	124.77	4199.25	7.65	-3.98	-7.64	0.20	8.61	242.45
4300.00	1.43	118.46	4299.22	5.43	-5.36	-5.41	0.22	7.62	225.22
4400.00	1.04	110.59	4399.19	3.49	-6.28	-3.46	0.42	7.17	208.83
4500.00	0.72	113.31	4499.18	2.06	-6.85	-2.03	0.32	7.14	196.48
4530.00	0.75	109.83	4529.18	1.70	-6.99	-1.67	0.17	7.19	193.42

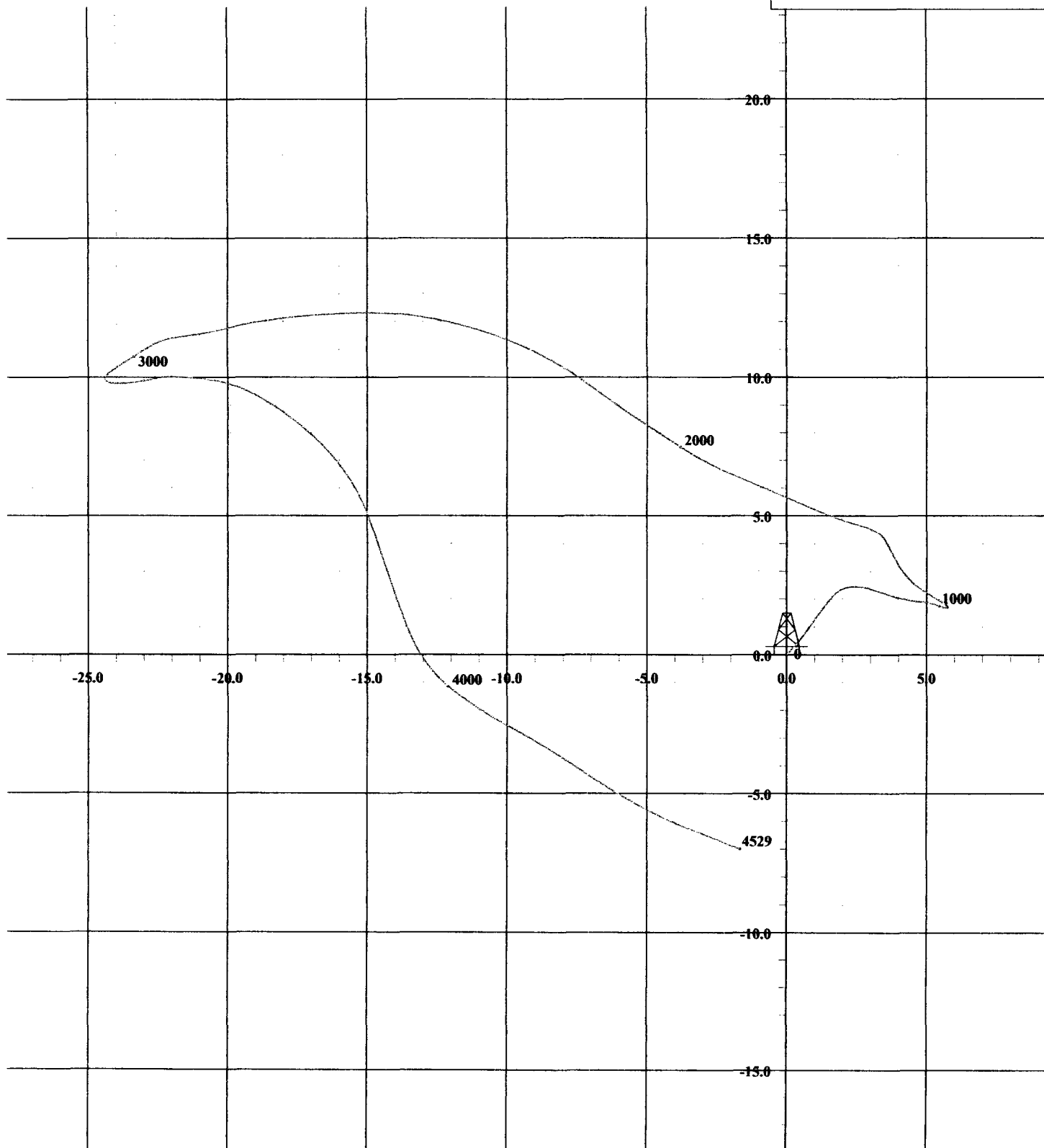


**Scientific
Drilling**

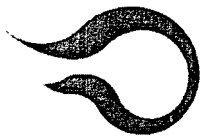
Field: Colorado
Site: Eddy County, NM
Well: Colorado B 22 Fed #1H
Wellpath: VH - Job #32K0406310
Survey: 04/19/06



South(-)/North(+) [5ft/in]



West(-)/East(+) [5ft/in]

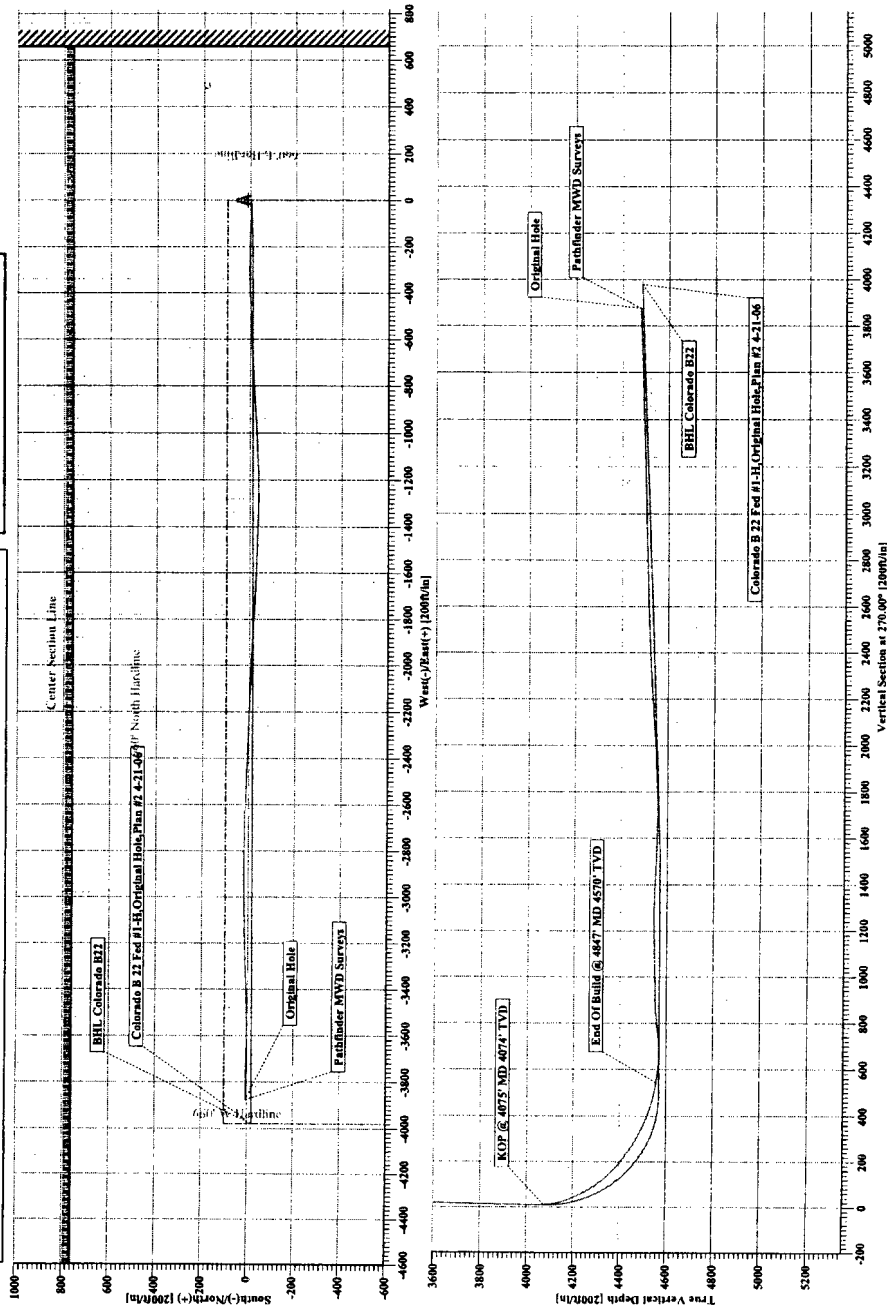
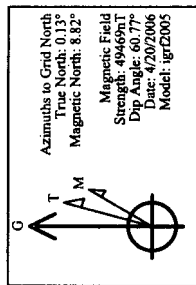


Field: Thames Field
Site: Colorado B22 Fed #1-H
Well: Colorado B 22 Fed #1-H
Wellpath: Original Hole
Survey: Pathfinder MWD Surveys

PATHFINDER

SITE DETAILS	
Colorado B22 Fed #1-H Eddy County, New Mexico 1880' FSL 660' FEL Sec 22; T16S, R24E Site Centre Northing: 693404.40 Easting: 427452.20 Water Depth: 0.00 Positional Uncertainty: 0.00 Convergence: -0.13	
WELLPATH DETAILS	
Original Hole	
Rig:	Mean Sea Level
Ref. Datum:	0.00ft
V. Section Angle	Starting From TVD
270.00°	0.00
Origin +N/S	0.00
Origin +E/W	0.00

TARGET DETAILS	
Name	TVL
BHL Colorado B22	4484.15
+N/S	-18.64
+E/W	-3979.00
Northing	693385.76
Easting	423473.20
Shape	Point



Survey: Pathfinder MWD Surveys Colorado B 22 Fed #1-H (Original Hole)										
No	MD	Inc	Az	TVL	+N/S	+E/W	DLeg	TFace	VSec	
60	5877.00	88.81	271.88	4554.74	-28.80	-1571.25	2.46	27.21	1571.25	
61	5909.00	88.81	272.05	4555.40	-27.71	-1603.22	0.53	90.00	1603.22	
62	5941.00	88.81	272.49	4556.07	-26.44	-1635.19	1.37	90.00	1635.19	
63	5973.00	88.81	272.93	4556.74	-25.17	-1667.16	1.37	90.00	1667.16	
64	6005.00	88.81	273.37	4557.41	-23.90	-1699.13	0.82	90.00	1699.13	
65	6037.00	90.31	273.20	4557.79	-22.11	-1731.07	5.33	21.31	1731.07	
66	6068.00	90.75	273.20	4557.50	-20.38	-1762.02	1.42	0.00	1762.02	
67	6130.00	92.86	274.16	4555.49	-16.28	-1825.86	3.62	24.44	1825.86	
68	6164.00	93.56	273.63	4553.69	-14.11	-1857.73	2.74	188.73	1887.73	
69	6198.00	94.26	273.10	4551.89	-11.94	-1889.60	2.74	188.73	1887.73	
70	6227.00	91.89	272.76	4551.31	-10.75	-1920.59	0.97	-33.16	1920.59	
71	6259.00	91.36	272.40	4550.40	-9.31	-1952.55	2.00	-145.82	1952.55	
72	6290.00	92.33	272.23	4549.40	-8.06	-1983.51	3.18	-9.93	1983.51	
73	6322.00	94.09	272.23	4547.61	-6.82	-2015.43	5.50	0.00	2015.43	
74	6352.00	93.53	272.23	4545.82	-5.58	-2047.35	1.33	0.00	2047.35	
75	6386.00	94.00	272.14	4542.82	-4.36	-2079.20	1.73	-170.39	2079.20	
76	6418.00	94.00	272.32	4540.59	-3.11	-2111.10	0.56	89.99	2111.10	
77	6450.00	94.26	272.32	4538.29	-1.82	-2142.99	0.81	0.00	2142.99	
78	6482.00	93.83	272.40	4536.03	-0.51	-2174.89	1.37	169.48	2174.89	
79	6512.00	93.65	272.23	4534.07	0.70	-2204.80	0.82	-136.09	2204.80	
80	6544.00	93.03	271.70	4531.21	1.80	-2236.72	2.55	-139.51	2236.72	
81	6576.00	93.39	271.88	4530.42	2.79	-2268.66	1.26	26.52	2268.66	
82	6608.00	92.95	272.14	4528.65	3.92	-2300.59	1.60	149.45	2300.59	
83	6640.00	93.12	272.40	4526.95	5.18	-2332.52	0.97	36.78	2332.52	
84	6671.00	92.62	271.88	4525.40	6.34	-2363.46	2.33	-133.90	2363.46	
85	6703.00	92.51	271.96	4523.97	7.41	-2395.41	0.42	144.00	2395.41	
86	6735.00	93.03	272.14	4522.42	8.55	-2427.35	1.72	19.07	2427.35	
87	6767.00	92.77	272.23	4520.80	9.77	-2459.29	0.86	160.93	2459.29	
88	6799.00	92.68	272.58	4519.28	11.11	-2491.22	1.13	104.43	2491.22	
89	6831.00	93.21	272.40	4517.64	12.50	-2523.15	1.75	-18.73	2523.15	
90	6863.00	92.24	272.40	4516.12	13.84	-2555.08	3.03	180.00	2555.08	
91	6894.00	91.54	272.14	4515.09	15.07	-2586.04	2.41	-159.63	2586.04	
92	6926.00	91.98	272.58	4514.11	16.38	-2618.00	1.94	44.98	2618.00	
93	6958.00	90.40	271.35	4513.45	17.48	-2649.97	6.26	-142.09	2649.97	
94	6990.00	91.28	271.09	4512.98	18.16	-2681.96	2.87	-16.46	2681.96	
95	7021.00	91.54	271.09	4512.22	18.75	-2712.95	0.84	0.00	2712.95	
96	7053.00	91.54	270.38	4511.36	19.16	-2744.93	2.22	-89.99	2744.93	
97	7085.00	91.89	270.03	4510.40	19.28	-2776.92	1.55	-44.98	2776.92	
98	7117.00	91.45	270.38	4509.46	19.39	-2808.90	1.76	141.51	2808.90	
99	7149.00	91.45	270.03	4508.55	19.62	-2840.88	0.55	-90.00	2840.88	
100	7181.00	91.19	269.77	4507.63	19.51	-2872.87	0.57	-135.00	2872.87	
101	7213.00	90.57	269.77	4506.37	18.41	-2904.85	2.54	-112.45	2904.85	
102	7245.00	91.80	268.89	4504.09	16.85	-2936.83	2.19	-26.74	2936.83	
103	7277.00	91.63	269.50	4502.17	15.95	-2968.81	0.99	312.78	2968.81	
104	7309.00	91.28	268.62	4500.54	14.90	-3000.79	1.48	-111.68	3000.79	
105	7341.00	91.89	267.92	4498.77	12.97	-3032.75	1.45	-48.91	3032.75	
106	7373.00	91.54	267.57	4496.86	10.45	-3064.73	0.77	-135.01	3064.73	
107	7405.00	91.71	268.01	4495.04	7.99	-3096.71	0.74	68.86	3096.71	
108	7437.00	91.63	268.18	4493.18	5.86	-3128.69	0.29	115.21	3128.69	
109	7469.00	91.54	267.98	4491.41	4.28	-3160.67	1.26	96.41	3160.67	
110	7501.00	91.71	269.68	4489.62	3.54	-3192.65	1.14	76.33	3192.65	
111	7533.00	92.51	271.09	4487.27	3.07	-3224.63	2.53	60.39	3224.63	
112	7565.00	91.89	271.09	4484.81	5.14	-3256.61	0.88	-171.74	3256.61	
113	7597.00	92.24	270.56	4482.50	6.01	-3288.59	0.98	-51.47	3288.59	
114	7629.00	92.15	269.86	4480.40	6.21	-3320.57	1.28	-97.32	3320.57	
115	7661.00	92.15	269.86	4478.33	6.07	-3352.55	0.00	0.00	3352.55	

LEGEND
Colorado B 22 Fed #1-H, Original Hole, Plan #2 4-21-06
Original Hole
Pathfinder MWD Surveys

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Colorado B22 Fed #1-H Well: Colorado B 22 Fed #1-H Wellpath: Original Hole	Date: 7/17/2006 Time: 15:18:36 Page: 1 Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #1-H, Grid North Vertical (TVD) Reference: System: Mean Sea Level Section (VS) Reference: Well (0.00N,0.00E,270.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
--	--

Field: Thames Field Eddy, Co. NM USA Map System: US State Plane Coordinate System 1927 Geo Datum: NAD27 (Clarke 1866) Sys Datum: Mean Sea Level	Map Zone: New Mexico, Eastern Zone Coordinate System: Well Centre Geomagnetic Model: igrf2005
--	--

Site: Colorado B22 Fed #1-H Eddy County, New Mexico 1880' FSL 660' FEL Sec 22; T16S; R24E			
Site Position:	Northing: 693404.40 ft	Latitude: 32 54 21.685 N	
From: Map	Easting: 427452.20 ft	Longitude: 104 34 10.978 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 0.00 ft		Grid Convergence: -0.13 deg	

Well: Colorado B 22 Fed #1-H Lateral		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 693404.40 ft	Latitude: 32 54 21.685 N	
+E/-W 0.00 ft	Easting: 427452.20 ft	Longitude: 104 34 10.978 W	
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: Mean Sea Level	Height 0.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 4/20/2006		Above System Datum: Mean Sea Level	
Field Strength: 49469 nT		Declination: 8.70 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.77 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	270.00

Survey: Pathfinder MWD Surveys	Start Date: 4/25/2006
Company: Pathfinder Energy	Engineer: Travis Elliot
Tool:	Tied-to: From: Gyro Survey

Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4000.00	1.47	130.27	3999.32	-1.11	-12.12	12.12	0.00	0.00	0.00	
4015.00	1.41	130.72	4014.32	-1.35	-11.84	11.84	0.41	-0.40	3.00	
4047.00	1.06	181.52	4046.31	-1.91	-11.54	11.54	3.45	-1.09	158.75	
4080.00	4.22	251.57	4079.28	-2.60	-12.71	12.71	12.07	9.58	212.27	
4112.00	9.23	260.63	4111.05	-3.39	-16.36	16.36	15.96	15.66	28.31	
4144.00	14.33	266.34	4142.36	-4.06	-22.85	22.85	16.33	15.94	17.84	
4176.00	19.52	271.61	4172.97	-4.16	-32.15	32.15	16.90	16.22	16.47	
4208.00	24.18	274.78	4202.66	-3.46	-44.03	44.03	15.02	14.56	9.91	
4240.00	27.44	275.04	4231.47	-2.27	-57.91	57.91	10.19	10.19	0.81	
4273.00	30.51	274.42	4260.33	-0.96	-73.84	73.84	9.35	9.30	-1.88	
4311.00	33.85	273.99	4292.49	0.53	-94.02	94.02	8.81	8.79	-1.13	
4343.00	37.11	273.55	4318.54	1.74	-112.55	112.55	10.22	10.19	-1.37	
4381.00	42.56	270.82	4347.72	2.64	-136.86	136.86	15.06	14.34	-7.18	
4413.00	46.96	270.30	4370.43	2.85	-159.39	159.39	13.80	13.75	-1.62	
4444.00	50.56	270.91	4390.86	3.10	-182.69	182.69	11.71	11.61	1.97	
4475.00	52.67	271.70	4410.11	3.66	-206.99	206.99	7.09	6.81	2.55	
4506.00	54.43	271.35	4428.53	4.32	-231.91	231.91	5.75	5.68	-1.13	
4538.00	56.89	271.35	4446.58	4.94	-258.32	258.32	7.69	7.69	0.00	
4570.00	59.62	270.38	4463.42	5.35	-285.53	285.53	8.91	8.53	-3.03	
4602.00	62.34	268.98	4478.94	5.19	-313.51	313.51	9.32	8.50	-4.37	
4633.00	64.19	267.66	4492.88	4.38	-341.18	341.18	7.08	5.97	-4.26	
4666.00	66.30	267.48	4506.70	3.11	-371.12	371.12	6.41	6.39	-0.55	
4697.00	68.76	267.75	4518.55	1.91	-399.74	399.74	7.98	7.94	0.87	
4729.00	71.40	267.57	4529.45	0.69	-429.80	429.80	8.27	8.25	-0.56	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Colorado B22 Fed #1-H Well: Colorado B 22 Fed #1-H Wellpath: Original Hole	Date: 7/17/2006 Time: 15:18:36 Page: 2 Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #1-H, Grid North Vertical (TVD) Reference: System: Mean Sea Level Section (VS) Reference: Well (0.00N,0.00E,270.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
--	--

Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
4761.00	74.13	267.75	4538.93	-0.56	-460.33	460.33	8.55	8.53	0.56	
4793.00	76.77	267.75	4546.97	-1.78	-491.28	491.28	8.25	8.25	0.00	
4826.00	79.58	267.48	4553.73	-3.12	-523.55	523.55	8.55	8.52	-0.82	
4858.00	81.34	267.75	4559.03	-4.43	-555.08	555.08	5.56	5.50	0.84	
4890.00	82.66	267.04	4563.49	-5.88	-586.73	586.73	4.67	4.12	-2.22	
4922.00	84.15	266.69	4567.16	-7.61	-618.47	618.47	4.78	4.66	-1.09	
4954.00	85.91	267.13	4569.94	-9.33	-650.30	650.30	5.67	5.50	1.37	
4986.00	91.89	267.48	4570.55	-10.84	-682.25	682.25	18.72	18.69	1.09	
5018.00	96.38	266.78	4568.24	-12.43	-714.12	714.12	14.20	14.03	-2.19	
5049.00	96.90	267.13	4564.66	-14.07	-744.86	744.86	2.02	1.68	1.13	
5081.00	96.02	267.04	4561.06	-15.69	-776.62	776.62	2.76	-2.75	-0.28	
5113.00	95.67	267.22	4557.80	-17.28	-808.41	808.41	1.23	-1.09	0.56	
5145.00	94.53	266.34	4554.95	-19.07	-840.23	840.23	4.49	-3.56	-2.75	
5176.00	93.02	266.25	4552.91	-21.07	-871.10	871.10	4.88	-4.87	-0.29	
5208.00	91.28	265.90	4551.71	-23.26	-903.00	903.00	5.55	-5.44	-1.09	
5240.00	90.22	266.43	4551.29	-25.40	-934.93	934.93	3.70	-3.31	1.66	
5272.00	91.45	267.39	4550.83	-27.12	-966.88	966.88	4.88	3.84	3.00	
5304.00	92.07	267.22	4549.84	-28.63	-998.83	998.83	2.01	1.94	-0.53	
5336.00	90.75	266.34	4549.06	-30.42	-1030.77	1030.77	4.96	-4.12	-2.75	
5368.00	91.28	268.18	4548.49	-31.95	-1062.72	1062.72	5.98	1.66	5.75	
5400.00	92.24	268.18	4547.51	-32.97	-1094.69	1094.69	3.00	3.00	0.00	
5432.00	91.10	267.39	4546.58	-34.20	-1126.65	1126.65	4.33	-3.56	-2.47	
5464.00	90.40	267.75	4546.16	-35.56	-1158.62	1158.62	2.46	-2.19	1.12	
5496.00	91.71	269.15	4545.57	-36.43	-1190.60	1190.60	5.99	4.09	4.37	
5528.00	91.01	268.98	4544.81	-36.95	-1222.59	1222.59	2.25	-2.19	-0.53	
5560.00	91.01	269.68	4544.24	-37.32	-1254.58	1254.58	2.19	0.00	2.19	
5591.00	88.72	270.12	4544.32	-37.38	-1285.58	1285.58	7.52	-7.39	1.42	
5623.00	88.02	271.44	4545.23	-36.94	-1317.56	1317.56	4.67	-2.19	4.12	
5654.00	87.85	271.61	4546.34	-36.12	-1348.53	1348.53	0.78	-0.55	0.55	
5686.00	87.58	272.05	4547.62	-35.10	-1380.49	1380.49	1.61	-0.84	1.37	
5718.00	87.85	271.88	4548.90	-34.00	-1412.44	1412.44	1.00	0.84	-0.53	
5750.00	87.32	272.14	4550.24	-32.88	-1444.40	1444.40	1.84	-1.66	0.81	
5781.00	87.85	272.05	4551.55	-31.75	-1475.35	1475.35	1.73	1.71	-0.29	
5813.00	87.85	271.79	4552.75	-30.67	-1507.31	1507.31	0.81	0.00	-0.81	
5845.00	88.11	271.52	4553.88	-29.75	-1539.27	1539.27	1.17	0.81	-0.84	
5877.00	88.81	271.88	4554.74	-28.80	-1571.25	1571.25	2.46	2.19	1.12	
5909.00	88.81	272.05	4555.40	-27.71	-1603.22	1603.22	0.53	0.00	0.53	
5941.00	88.81	272.49	4556.07	-26.44	-1635.19	1635.19	1.37	0.00	1.37	
5973.00	88.64	272.32	4556.78	-25.10	-1667.15	1667.15	0.75	-0.53	-0.53	
6005.00	88.72	272.58	4557.52	-23.73	-1699.12	1699.12	0.85	0.25	0.81	
6037.00	90.31	273.20	4557.79	-22.11	-1731.07	1731.07	5.33	4.97	1.94	
6068.00	90.75	273.20	4557.50	-20.38	-1762.02	1762.02	1.42	1.42	0.00	
6132.00	92.86	274.16	4555.49	-16.28	-1825.86	1825.86	3.62	3.30	1.50	
6164.00	93.56	273.63	4553.69	-14.11	-1857.73	1857.73	2.74	2.19	-1.66	
6195.00	91.63	272.93	4552.29	-12.34	-1888.65	1888.65	6.62	-6.23	-2.26	
6227.00	91.89	272.76	4551.31	-10.75	-1920.59	1920.59	0.97	0.81	-0.53	
6259.00	91.36	272.40	4550.40	-9.31	-1952.55	1952.55	2.00	-1.66	-1.12	
6290.00	92.33	272.23	4549.40	-8.06	-1983.51	1983.51	3.18	3.13	-0.55	
6322.00	94.09	272.23	4547.61	-6.82	-2015.43	2015.43	5.50	5.50	0.00	
6355.00	94.53	272.23	4545.13	-5.53	-2048.31	2048.31	1.33	1.33	0.00	
6386.00	94.00	272.14	4542.82	-4.36	-2079.20	2079.20	1.73	-1.71	-0.29	
6418.00	94.00	272.32	4540.59	-3.11	-2111.10	2111.10	0.56	0.00	0.56	
6450.00	94.26	272.32	4538.29	-1.82	-2142.99	2142.99	0.81	0.81	0.00	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Colorado B22 Fed #1-H Well: Colorado B 22 Fed #1-H Wellpath: Original Hole	Date: 7/17/2006 Time: 15:18:36 Page: 3 Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #1-H, Grid North Vertical (TVD) Reference: System: Mean Sea Level Section (VS) Reference: Well (0.00N,0.00E,270.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
--	--

Survey: Pathfinder MWD Surveys

MD ft	Incl deg	Azim deg	TVD ft	+N-S ft	+E-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6482.00	93.83	272.40	4536.03	-0.51	-2174.89	2174.89	1.37	-1.34	0.25	
6512.00	93.65	272.23	4534.07	0.70	-2204.80	2204.80	0.82	-0.60	-0.57	
6544.00	93.03	271.70	4532.21	1.80	-2236.72	2236.72	2.55	-1.94	-1.66	
6576.00	93.39	271.88	4530.42	2.79	-2268.66	2268.66	1.26	1.12	0.56	
6608.00	92.95	272.14	4528.65	3.92	-2300.59	2300.59	1.60	-1.37	0.81	
6640.00	93.12	272.40	4526.95	5.18	-2332.52	2332.52	0.97	0.53	0.81	
6671.00	92.62	271.88	4525.40	6.34	-2363.46	2363.46	2.33	-1.61	-1.68	
6703.00	92.51	271.96	4523.97	7.41	-2395.41	2395.41	0.42	-0.34	0.25	
6735.00	93.03	272.14	4522.42	8.55	-2427.35	2427.35	1.72	1.62	0.56	
6767.00	92.77	272.23	4520.80	9.77	-2459.29	2459.29	0.86	-0.81	0.28	
6799.00	92.68	272.58	4519.28	11.11	-2491.22	2491.22	1.13	-0.28	1.09	
6831.00	93.21	272.40	4517.64	12.50	-2523.15	2523.15	1.75	1.66	-0.56	
6863.00	92.24	272.40	4516.12	13.84	-2555.08	2555.08	3.03	-3.03	0.00	
6894.00	91.54	272.14	4515.09	15.07	-2586.04	2586.04	2.41	-2.26	-0.84	
6926.00	91.98	272.58	4514.11	16.38	-2618.00	2618.00	1.94	1.37	1.37	
6958.00	90.40	271.35	4513.45	17.48	-2649.97	2649.97	6.26	-4.94	-3.84	
6990.00	91.28	271.09	4512.98	18.16	-2681.96	2681.96	2.87	2.75	-0.81	
7021.00	91.54	271.09	4512.22	18.75	-2712.95	2712.95	0.84	0.84	0.00	
7053.00	91.54	270.38	4511.36	19.16	-2744.93	2744.93	2.22	0.00	-2.22	
7085.00	91.89	270.03	4510.40	19.28	-2776.92	2776.92	1.55	1.09	-1.09	
7117.00	91.45	270.38	4509.46	19.39	-2808.90	2808.90	1.76	-1.37	1.09	
7181.00	91.45	270.03	4507.85	19.62	-2872.88	2872.88	0.55	0.00	-0.55	
7245.00	91.19	269.77	4506.37	19.51	-2936.87	2936.87	0.57	-0.41	-0.41	
7309.00	90.57	268.27	4505.39	18.41	-3000.85	3000.85	2.54	-0.97	-2.34	
7372.00	91.80	268.89	4504.09	16.85	-3063.81	3063.81	2.19	1.95	0.98	
7436.00	91.63	269.50	4502.17	15.95	-3127.78	3127.78	0.99	-0.27	0.95	
7500.00	91.28	268.62	4500.54	14.90	-3191.75	3191.75	1.48	-0.55	-1.37	
7564.00	91.89	267.92	4498.77	12.97	-3255.69	3255.69	1.45	0.95	-1.09	
7628.00	91.54	267.57	4496.86	10.45	-3319.61	3319.61	0.77	-0.55	-0.55	
7692.00	91.71	268.01	4495.04	7.99	-3383.54	3383.54	0.74	0.27	0.69	
7756.00	91.63	268.18	4493.18	5.86	-3447.48	3447.48	0.29	-0.12	0.27	
7820.00	91.54	268.98	4491.41	4.28	-3511.43	3511.43	1.26	-0.14	1.25	
7883.00	91.71	269.68	4489.62	3.54	-3574.40	3574.40	1.14	0.27	1.11	
7947.00	92.51	271.09	4487.27	3.97	-3638.36	3638.36	2.53	1.25	2.20	
8011.00	91.89	271.00	4484.81	5.14	-3702.30	3702.30	0.98	-0.97	-0.14	
8075.00	92.24	270.56	4482.50	6.01	-3766.25	3766.25	0.88	0.55	-0.69	
8130.00	92.15	269.86	4480.40	6.21	-3821.21	3821.21	1.28	-0.16	-1.27	
8185.00	92.15	269.86	4478.33	6.07	-3876.17	3876.17	0.00	0.00	0.00	