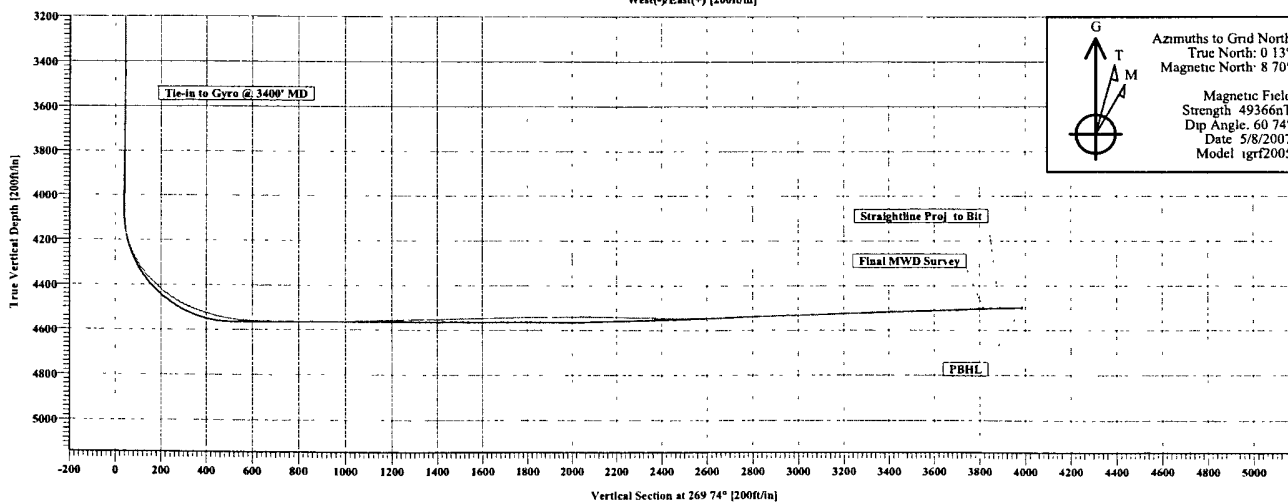


PATHFINDER

WELL DETAILS							
Name	+N/-S	+E/-W	Northng	Easting	Latitude	Longitude	Slot
Colorado B 22 Fcd #2H	0 00	0 00	692284 50	427445 40	32°54'10 604N	104°34'11 028W	N/A

SITE DETAILS	
Colorado B 22 Fed #2H	
Site Centre Northing:	692284 50
Easting	427445 40
Ground Level	3647 00
Positional Uncertainty	0 00
Convergence	-0 13

TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
PBHL	4498 00	-18 40	-3987 10	Point



WELLPATH DETAILS			
OH			
Rig Ref Datum	Adjusted KB		3666 00ft
V Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
269 74°	0 00	0 00	0 00

ANNOTATIONS			
No	TVD	MD	Annotation
1	3398 76	3400 00	Tie-in to Gyro @ 3400' MD
2	4081 69	4083 00	KOP @ 4083' MD
3	4554 63	4840 81	EOC @ 4841' MD, 4565' TVD, 90° INC
4	4539 80	6340 81	Begun Build @ 6341' MD, 3° DLS
5	4539 90	6406 98	EOB @ 6405' MD, 91 99° INC
6	4501 98	8123 00	Final MWD Survey ,
7	4500 16	8195 00	Straightline Proj to Bit

30-015-34713

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Colorado B 22 Fed #2H Well: Colorado B 22 Fed #2H Wellpath: OH		Date: 5/14/2007 Time: 10:15:39 Page: 1 Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #2H, Grid North Vertical (TVD) Reference: Adjusted KB 3666.0 Section (VS) Reference: Well (0.00N,0.00E,269.74Azi) 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 B 22 Fed #2H										
Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3647.00 ft		Northing: 692284.50 ft Latitude: 32 54 10.604 N Easting: 427445.40 ft Longitude: 104 34 11.028 W North Reference: Grid Grid Convergence: -0.13 deg								
Well: Colorado B 22 Fed #2H		Slot Name:								
Well Position: +N/-S 0.00 ft Northing: 692284.50 ft Latitude: 32 54 10.604 N +E/-W 0.00 ft Easting: 427445.40 ft Longitude: 104 34 11.028 W Position Uncertainty: 0.00 ft										
Wellpath: OH Current Datum: Adjusted KB Height: 3666.00 ft Magnetic Data: 5/8/2007 Field Strength: 49366 nT Vertical Section: Depth From (TVD)		Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 8.57 deg Mag Dip Angle: 60.74 deg +E/-W Direction								
0.00 0.00 0.00 269.74										
Survey: Pathfinder MWD		Start Date: 5/10/2007								
Company: Pathfinder Energy Tool:		Engineer: Tied-to: From: Definitive Path								
Survey: Pathfinder MWD										
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
3400.00	0.39	44.32	3398.76	-41.93	-43.22	43.42	0.00	0.00	0.00	Tie-in to Gyro @ 3400' MD
3578.00	0.79	57.39	3576.75	-40.83	-41.77	41.95	0.24	0.22	7.34	
3705.00	0.62	69.87	3703.74	-40.12	-40.38	40.57	0.18	-0.13	9.83	
3832.00	0.79	93.78	3830.73	-39.94	-38.86	39.05	0.26	0.13	18.83	
3959.00	1.06	80.68	3957.71	-39.81	-36.83	37.02	0.27	0.21	-10.31	
4055.00	0.97	48.34	4053.70	-39.13	-35.35	35.53	0.60	-0.09	-33.69	
4083.00	2.49	295.64	4081.69	-38.71	-35.72	35.90	10.71	5.42	-402.51	KOP @ 4083' MD
4087.00	2.90	293.11	4085.68	-38.63	-35.89	36.07	10.71	10.29	-63.21	
4118.00	7.30	288.37	4116.55	-37.70	-38.48	38.66	14.25	14.19	-15.29	
4150.00	11.08	286.17	4148.14	-36.20	-43.37	43.53	11.86	11.81	-6.87	
4182.00	14.86	285.91	4179.32	-34.22	-50.27	50.43	11.81	11.81	-0.81	
4214.00	18.99	287.31	4209.92	-31.55	-59.19	59.33	12.97	12.91	4.37	
4245.00	22.95	285.82	4238.86	-28.40	-69.82	69.95	12.89	12.77	-4.81	
4277.00	26.73	284.50	4267.90	-24.89	-82.80	82.91	11.94	11.81	-4.12	
4309.00	30.86	283.71	4295.94	-21.14	-97.75	97.84	12.96	12.91	-2.47	
4341.00	34.82	282.92	4322.82	-17.15	-114.63	114.71	12.45	12.37	-2.47	
4373.00	38.60	280.46	4348.47	-13.30	-133.36	133.42	12.67	11.81	-7.69	
4405.00	42.03	277.29	4372.87	-10.13	-153.81	153.85	12.49	10.72	-9.91	
4437.00	45.37	273.95	4396.00	-7.98	-175.80	175.84	12.68	10.44	-10.44	
4468.00	48.54	270.70	4417.16	-7.08	-198.43	198.46	12.78	10.23	-10.48	
4500.00	52.32	270.61	4437.54	-6.80	-223.09	223.12	11.81	11.81	-0.28	
4532.00	56.19	271.49	4456.23	-6.32	-249.06	249.08	12.30	12.09	2.75	
4564.00	60.50	272.20	4473.02	-5.44	-276.27	276.30	13.60	13.47	2.22	
4596.00	63.93	271.85	4487.94	-4.44	-304.56	304.58	10.76	10.72	-1.09	

Pathfinder Energy

Survey Report

Company: EOG Resources

Field: Thames Field

Site: Colorado B 22 Fed #2H

Well: Colorado B 22 Fed #2H

Wellpath: OH

Date: 5/14/2007

Time: 10:15:39

Page: 2

Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #2H, Grid North

Vertical (TVD) Reference: Adjusted KB 3666.0

Section (VS) Reference: Well (0.00N,0.00E,269.74Azi)

Survey Calculation Method: Minimum Curvature

Db: Sybase

Survey: Pathfinder MWD

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
4628.00	67.27	272.20	4501.15	-3.41	-333.68	333.69	10.48	10.44	1.09	
4660.00	70.43	272.46	4512.70	-2.19	-363.50	363.50	9.90	9.87	0.81	
4692.00	72.63	271.67	4522.84	-1.10	-393.83	393.83	7.26	6.87	-2.47	
4724.00	73.42	271.32	4532.18	-0.30	-424.42	424.42	2.68	2.47	-1.09	
4755.00	76.06	271.93	4540.34	0.55	-454.32	454.31	8.73	8.52	1.97	
4787.00	79.23	272.90	4547.18	1.87	-485.54	485.53	10.34	9.91	3.03	
4819.00	82.57	273.43	4552.24	3.61	-517.09	517.06	10.56	10.44	1.66	
4840.81	84.86	273.61	4554.63	4.94	-538.72	538.69	10.52	10.48	0.84	EOC @ 4841' MD, 4565' TVD
4850.00	85.82	273.69	4555.38	5.53	-547.86	547.83	10.52	10.48	0.84	
4882.00	86.61	273.16	4557.49	7.43	-579.74	579.70	2.97	2.47	-1.66	
4914.00	86.70	273.34	4559.36	9.24	-611.63	611.58	0.63	0.28	0.56	
4946.00	86.88	272.99	4561.15	11.01	-643.53	643.47	1.23	0.56	-1.09	
4978.00	88.46	271.23	4562.45	12.18	-675.48	675.42	7.39	4.94	-5.50	
5010.00	89.43	270.17	4563.04	12.58	-707.47	707.41	4.49	3.03	-3.31	
5041.00	89.43	270.17	4563.35	12.67	-738.47	738.40	0.00	0.00	0.00	
5073.00	89.08	269.82	4563.76	12.66	-770.47	770.40	1.55	-1.09	-1.09	
5169.00	89.69	270.44	4564.80	12.88	-866.46	866.39	0.91	0.64	0.65	
5200.00	89.87	270.09	4564.91	13.03	-897.46	897.39	1.27	0.58	-1.13	
5232.00	89.60	269.91	4565.06	13.03	-929.46	929.39	1.01	-0.84	-0.56	
5296.00	91.54	270.26	4564.43	13.12	-993.45	993.38	3.08	3.03	0.55	
5360.00	92.68	270.79	4562.07	13.71	-1057.41	1057.33	1.96	1.78	0.83	
5424.00	92.59	270.79	4559.13	14.59	-1121.33	1121.25	0.14	-0.14	0.00	
5455.00	92.68	270.79	4557.70	15.02	-1152.30	1152.22	0.29	0.29	0.00	
5487.00	92.33	270.35	4556.30	15.33	-1184.26	1184.18	1.76	-1.09	-1.37	
5518.00	90.92	269.82	4555.42	15.38	-1215.25	1215.17	4.86	-4.55	-1.71	
5549.00	91.19	269.73	4554.85	15.26	-1246.25	1246.16	0.92	0.87	-0.29	
5580.00	91.19	270.00	4554.21	15.18	-1277.24	1277.16	0.87	0.00	0.87	
5611.00	91.28	269.30	4553.54	15.00	-1308.23	1308.15	2.28	0.29	-2.26	
5642.00	90.48	269.21	4553.07	14.59	-1339.22	1339.14	2.60	-2.58	-0.29	
5672.00	90.31	268.77	4552.86	14.06	-1369.22	1369.14	1.57	-0.57	-1.47	
5703.00	90.57	268.68	4552.62	13.37	-1400.21	1400.13	0.89	0.84	-0.29	
5733.00	91.54	269.56	4552.07	12.91	-1430.20	1430.13	4.37	3.23	2.93	
5764.00	92.33	270.26	4551.02	12.86	-1461.18	1461.11	3.40	2.55	2.26	
5794.00	91.54	269.91	4550.01	12.91	-1491.17	1491.09	2.88	-2.63	-1.17	
5825.00	91.45	269.47	4549.20	12.74	-1522.15	1522.08	1.45	-0.29	-1.42	
5856.00	92.24	269.38	4548.20	12.43	-1553.14	1553.06	2.56	2.55	-0.29	
5887.00	91.63	268.94	4547.15	11.98	-1584.12	1584.04	2.43	-1.97	-1.42	
5918.00	90.75	268.15	4546.51	11.19	-1615.10	1615.03	3.81	-2.84	-2.55	
5949.00	91.01	267.89	4546.03	10.12	-1646.08	1646.01	1.19	0.84	-0.84	
5980.00	91.28	267.36	4545.42	8.83	-1677.04	1676.98	1.92	0.87	-1.71	
6009.00	91.45	266.75	4544.72	7.34	-1706.00	1705.94	2.18	0.59	-2.10	
6041.00	91.54	266.22	4543.89	5.38	-1737.93	1737.88	1.68	0.28	-1.66	
6071.00	91.71	266.31	4543.04	3.43	-1767.85	1767.81	0.64	0.57	0.30	
6102.00	91.19	266.22	4542.25	1.41	-1798.77	1798.75	1.70	-1.68	-0.29	
6133.00	90.31	265.87	4541.85	-0.73	-1829.70	1829.68	3.05	-2.84	-1.13	
6163.00	89.78	267.10	4541.83	-2.57	-1859.64	1859.63	4.46	-1.77	4.10	
6194.00	90.57	267.71	4541.73	-3.97	-1890.61	1890.61	3.22	2.55	1.97	
6225.00	90.40	267.71	4541.47	-5.21	-1921.58	1921.59	0.55	-0.55	0.00	
6256.00	90.13	268.24	4541.32	-6.30	-1952.56	1952.57	1.92	-0.87	1.71	
6286.00	91.10	269.03	4541.00	-7.02	-1982.55	1982.56	4.17	3.23	2.63	
6317.00	91.45	269.03	4540.31	-7.54	-2013.54	2013.55	1.13	1.13	0.00	
6340.81	91.04	268.76	4539.80	-8.00	-2037.34	2037.35	2.05	-1.71	-1.13	Begin Build @ 6341' MD, 3
6348.00	90.92	268.68	4539.67	-8.16	-2044.53	2044.54	2.05	-1.71	-1.13	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Colorado B 22 Fed #2H Well: Colorado B 22 Fed #2H Wellpath: OH	Date: 5/14/2007 Time: 10:15:39 Page: 3 Co-ordinate(N/E) Reference: Well: Colorado B 22 Fed #2H, Grid North Vertical (TVD) Reference: Adjusted KB 3666.0 Section (VS) Reference: Well (0.00N,0.00E,269.74Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Pathfinder MWD

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
6379.00	89.69	268.33	4539.51	-8.97	-2075.51	2075.53	4.13	-3.97	-1.13	EOB @ 6405' MD, 91.99° IN
6406.98	88.71	268.50	4539.90	-9.75	-2103.48	2103.50	3.55	-3.50	0.60	
6409.00	88.64	268.51	4539.94	-9.80	-2105.50	2105.52	3.55	-3.50	0.60	
6442.00	88.99	268.68	4540.63	-10.61	-2138.48	2138.51	1.18	1.06	0.52	
6474.00	88.99	268.15	4541.19	-11.49	-2170.46	2170.49	1.66	0.00	-1.66	
6506.00	88.72	267.89	4541.83	-12.60	-2202.44	2202.47	1.17	-0.84	-0.81	
6538.00	89.16	268.33	4542.42	-13.65	-2234.42	2234.46	1.94	1.37	1.37	
6570.00	89.43	268.33	4542.82	-14.59	-2266.40	2266.44	0.84	0.84	0.00	
6600.00	89.52	268.42	4543.09	-15.44	-2296.39	2296.43	0.42	0.30	0.30	
6632.00	89.60	268.51	4543.34	-16.29	-2328.37	2328.42	0.38	0.25	0.28	
6665.00	88.64	267.54	4543.84	-17.43	-2361.35	2361.41	4.14	-2.91	-2.94	
6697.00	88.81	267.54	4544.56	-18.80	-2393.31	2393.37	0.53	0.53	0.00	
6729.00	89.08	267.54	4545.14	-20.18	-2425.28	2425.34	0.84	0.84	0.00	
6761.00	89.25	268.33	4545.61	-21.33	-2457.25	2457.33	2.53	0.53	2.47	
6793.00	90.48	269.03	4545.69	-22.07	-2489.24	2489.32	4.42	3.84	2.19	
6825.00	89.25	268.15	4545.76	-22.85	-2521.23	2521.31	4.73	-3.84	-2.75	
6856.00	90.40	269.03	4545.86	-23.62	-2552.22	2552.30	4.67	3.71	2.84	
6888.00	92.24	270.44	4545.12	-23.77	-2584.21	2584.29	7.24	5.75	4.41	
6920.00	91.28	269.38	4544.14	-23.82	-2616.20	2616.28	4.47	-3.00	-3.31	
6952.00	89.52	267.19	4543.91	-24.77	-2648.18	2648.26	8.78	-5.50	-6.84	
6984.00	89.52	266.22	4544.18	-26.61	-2680.12	2680.22	3.03	0.00	-3.03	
7016.00	90.92	267.10	4544.06	-28.48	-2712.07	2712.17	5.17	4.37	2.75	
7048.00	92.42	267.80	4543.13	-29.90	-2744.02	2744.13	5.17	4.69	2.19	
7080.00	92.51	267.71	4541.75	-31.15	-2775.97	2776.08	0.40	0.28	-0.28	
7112.00	92.77	267.63	4540.28	-32.45	-2807.91	2808.03	0.85	0.81	-0.25	
7144.00	93.74	268.15	4538.46	-33.63	-2839.83	2839.96	3.44	3.03	1.62	
7176.00	92.77	268.07	4536.64	-34.68	-2871.76	2871.89	3.04	-3.03	-0.25	
7208.00	92.68	267.45	4535.12	-35.93	-2903.70	2903.84	1.96	-0.28	-1.94	
7240.00	92.15	266.57	4533.77	-37.60	-2935.63	2935.77	3.21	-1.66	-2.75	
7272.00	91.45	266.04	4532.77	-39.66	-2967.55	2967.70	2.74	-2.19	-1.66	
7304.00	91.19	265.96	4532.03	-41.89	-2999.46	2999.62	0.85	-0.81	-0.25	
7335.00	91.19	266.31	4531.39	-43.98	-3030.38	3030.55	1.13	0.00	1.13	
7367.00	91.10	267.98	4530.75	-45.57	-3062.34	3062.51	5.23	-0.28	5.22	
7400.00	91.63	268.07	4529.96	-46.71	-3095.31	3095.49	1.63	1.61	0.27	
7431.00	92.15	268.07	4528.94	-47.75	-3126.27	3126.46	1.68	1.68	0.00	
7464.00	92.42	268.24	4527.62	-48.82	-3159.23	3159.42	0.97	0.82	0.52	
7496.00	92.51	268.86	4526.25	-49.63	-3191.19	3191.38	1.96	0.28	1.94	
7528.00	92.68	270.70	4524.80	-49.75	-3223.16	3223.35	5.77	0.53	5.75	
7560.00	93.12	270.53	4523.18	-49.41	-3255.11	3255.31	1.47	1.37	-0.53	
7592.00	93.39	270.79	4521.36	-49.04	-3287.06	3287.25	1.17	0.84	0.81	
7624.00	93.56	270.53	4519.42	-48.67	-3319.00	3319.19	0.97	0.53	-0.81	
7655.00	92.24	268.59	4517.85	-48.91	-3349.95	3350.14	7.56	-4.26	-6.26	
7687.00	91.01	266.75	4516.95	-50.21	-3381.91	3382.11	6.91	-3.84	-5.75	
7718.00	90.92	266.75	4516.42	-51.97	-3412.86	3413.06	0.29	-0.29	0.00	
7750.00	91.45	266.92	4515.76	-53.73	-3444.80	3445.01	1.74	1.66	0.53	
7782.00	92.42	267.54	4514.68	-55.28	-3476.75	3476.97	3.60	3.03	1.94	
7814.00	92.51	267.63	4513.30	-56.62	-3508.69	3508.91	0.40	0.28	0.28	
7846.00	92.86	267.80	4511.81	-57.90	-3540.63	3540.86	1.22	1.09	0.53	
7878.00	91.63	266.04	4510.55	-59.62	-3572.56	3572.79	6.71	-3.84	-5.50	
7910.00	91.01	264.64	4509.81	-62.22	-3604.44	3604.69	4.78	-1.94	-4.37	
7942.00	92.07	264.46	4508.95	-65.25	-3636.28	3636.55	3.36	3.31	-0.56	
7974.00	92.33	265.87	4507.73	-67.95	-3668.15	3668.42	4.48	0.81	4.41	
8006.00	92.59	267.01	4506.35	-69.93	-3700.05	3700.34	3.65	0.81	3.56	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Colorado B 22 Fed #2H Well: Colorado B 22 Fed #2H Wellpath: OH	Date: 5/14/2007 Time: 10:15:39 Page: 4 Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #2H, Grid North. Vertical (TVD) Reference: Adjusted KB 3666.0 Section (VS) Reference: Well (0.00N,0.00E,269.74Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Pathfinder MWD

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
8038.00	92.24	266.75	4505.00	-71.67	-3731.98	3732.27	1.36	-1.09	-0.81	
8068.00	92.59	267.19	4503.74	-73.26	-3761.91	3762.21	1.87	1.17	1.47	
8101.00	91.54	266.66	4502.55	-75.03	-3794.84	3795.15	3.56	-3.18	-1.61	
8123.00	91.45	267.01	4501.98	-76.24	-3816.80	3817.11	1.64	-0.41	1.59	Final MWD Survey
8195.00	91.45	267.01	4500.16	-80.00	-3888.68	3889.01	0.00	0.00	0.00	Straightline Proj. to Bit

Annotation

MD ft	TVD ft	
3400.00	3398.76	Tie-in to Gyro @ 3400' MD
4083.00	4081.69	KOP @ 4083' MD
4840.81	4554.63	EOC @ 4841' MD, 4565' TVD, 90° INC
6340.81	4539.80	Begin Build @ 6341' MD, 3 ° DLS
6406.98	4539.90	EOB @ 6405' MD, 91.99° INC
8123.00	4501.98	Final MWD Survey
8195.00	4500.16	Straightline Proj. to Bit