

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

JUN 18 2007
OCD-ARTESIA

5. Lease Serial No.

NMM 108950

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Colorado B 22 2H

Federal

9. API Well No.

30-015-34713

10. Field and Pool, or Exploratory Area

Cottonwood Creek; WC, West

11. County or Parish, State

Eddy NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

EOG Resources Inc.

3a. Address

P.O. Box 2267 Midland, Texas 79702

3b. Phone No. (include area code)

432 686 3689

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**760' FSL & 660' FEL U/L P SL
Sec 22, T16S, R24E**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other

completion

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

5/13/07 TD @ 8195'

5/14/07 Ran 185 jts 5 1/2". 17 #, N-80 production casing set @ 8145'.

Cemented w/ 530 sx 50:50 POZ, 11.9 ppg, 2.34 yield; 735 sx 50:50 POZ, 14.2 ppg, 1.37 yield.
Circulated 163 sx to surface.

5/15/07 Released rig.

5/19/07 MIRU for completion. Step rate tested 5 1/2" casing to 7020 psi for 30 min. Test good.

5/20/07 Perforated from 7486' to 8025', 0.48", 30 holes.

5/21/07 Frac w/ 72 bbls 15% HCL, 615 bbls XL gel, 92500 lbs 30/70 sand, 38500 lbs 16/30 sand, 4352 bbls load water.

5/22/07 Perforated from 6700' to 7250', 0.54", 30 holes.

Frac w/ 72 bbls 15% HCL, 645 bbls XL gel, 88322 lbs 30/70 sand, 42798 lbs 16/30 sand, 4326 bbls load water.

Perforated from 6100' to 6375', 0.54", 30 holes.

Frac w/ 72 bbls 15% HCL, 1081 bbls XL gel, 90000 lbs 30/70 sand, 36000 lbs 16/30 sand, 4981 bbls load water.

5/23/07 Perforated from 5000' to 5550', 0.54", 30 holes.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Stan Wagner

Title

Regulatory Analyst

Signature

Date **5/30/07**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

MM 108950

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Colorado B 22 2H

Federal

9. API Well No.

30-015-34713

10. Field and Pool, or Exploratory Area

Cottonwood Creek; WC, West

11. County or Parish, State

Eddy NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

JUN 18 2007
OCD-ARTESIA

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

EOG Resources Inc.

3a. Address

P.O. Box 2267 Midland, Texas 79702

3b. Phone No. (include area code)

432 686 3689

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

760' FSL & 660' FEL U/L P SL

Sec 22, T16S, R24E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other <u>completion</u> |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

5/23/07 Frac w/ 142 bbls 15% HCL, 735 bbls XL gel, 93023 lbs 30/70 sand, 54463 lbs 16/30 sand, 4649 bbls load water. Flow back.

5/24/07 Ran 177 jts 2 3/8" production tubing set @ 5681'. Flow back.

5/26/07 Turned to sales.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Stan Wagner

Title

Regulatory Analyst

Signature

Date **5/30/07**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Outrun Survey
for
E.O.G.

[illegible]

JUN 18 2007
OCD-ARTESP

0

Pathfinder Energy

Survey Report



JUN 18 2007

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 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:	Northing: 692284.50 ft	Latitude: 32 54 10.604 N	
From: Map	Easting: 427445.40 ft	Longitude: 104 34 11.028 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 3647.00 ft		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	Longitude: 104 34 11.028 W
+E/-W 0.00 ft Easting: 427445.40 ft	
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) ft	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 ft Direction deg
0.00 0.00 0.00	269.74

Survey: Pathfinder MWD	Start Date: 5/10/2007
Company: Pathfinder Energy	Engineer:
Tool:	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	KOP @ 4083' MD
4083.00	2.49	295.64	4081.69	-38.71	-35.72	35.90	10.71	5.42	-402.51	
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(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
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

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



Field: Thames Field
Site: Colorado B 22 Fed #2H
Well: Colorado B 22 Fed #2H
Wellpath: OH
Survey: Pathfinder MWD

PATHFINDER

Survey Pathfinder MWD (Colorado B 22 Fed #2H/OH)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
120	7814.00	92.51	267.63	4513.30	-56.62	-3508.69	0.40	44.97	3508.91
121	7846.00	92.86	267.80	4511.81	-57.90	-3540.63	1.22	25.88	3540.86
122	7878.00	91.63	266.04	4510.55	-59.62	-3572.56	6.71	-124.93	3572.79
123	7910.00	91.01	264.64	4509.81	-62.22	-3604.44	4.78	-113.87	3604.69
124	7942.00	92.07	264.46	4508.95	-65.25	-3636.28	3.36	-9.63	3636.55
125	7974.00	92.33	265.87	4507.73	-67.95	-3668.15	4.48	79.52	3668.42
126	8006.00	92.59	267.01	4506.35	-69.93	-3700.05	3.65	77.12	3700.34
127	8038.00	92.24	266.75	4505.00	-71.67	-3731.98	1.36	-143.41	3732.27
128	8068.00	92.59	267.19	4503.74	-73.26	-3761.91	1.87	51.47	3762.21
129	8101.00	91.54	266.66	4502.55	-75.03	-3794.84	3.56	-153.22	3795.15
130	8123.00	91.45	267.01	4501.98	-76.24	-3816.80	1.64	104.42	3817.11
131	8195.00	91.45	267.01	4500.16	-80.00	-3888.68	0.00	0.00	3889.01

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Colorado B 22 Fed #2H	0.00	0.00	692284.50	427445.40	32°54'10.604N	104°34'11.028W

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	Adjusted KB	3666.00ft	
Ref Datum	Origin	Origin	Starting
V Section	+N/-S	+E/-W	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	Begin 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

