

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34710	Pool Code 75260	Pool Name Undes Cottonwood Creek; Wolfcamp West
Property Code 35548	Property Name COLORADO A 22 FEDERAL	Well Number 1H
GRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3625'

Surface Location

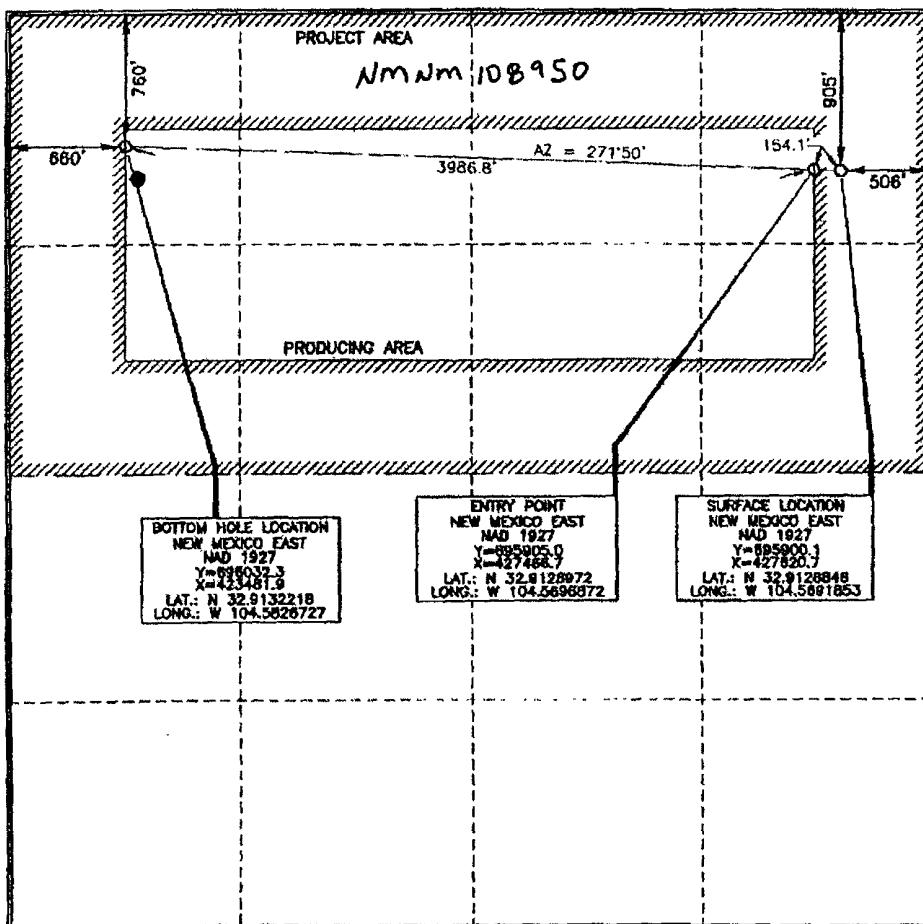
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	16 SOUTH	24 EAST, N.M.P.M.		905	NORTH	506	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	16 SOUTH	24 EAST, N.M.P.M.		896	NORTH	690	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
------------------------	-----------------	--------------------	-----------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Donny G. Glanton 1/26/06
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my ability.

James J. [Signature] 1/27/06
Date of Survey
Signature and Seal of Professional Surveyor
Certificate Number 15078

WOF 051219WL-a (000)

Colorado A 22 Fed #1H Gyro.txt

1400.00	1399.88	11.41	1.00	270.55	1.86	-11.35	0.07
1500.00	1499.87	13.14	0.99	266.21	1.81	-13.09	0.08
1600.00	1599.85	14.90	1.03	268.54	1.73	-14.85	0.06
1700.00	1699.83	16.63	0.97	263.65	1.61	-16.59	0.10
1800.00	1799.82	18.26	0.91	264.91	1.45	-18.22	0.06
1900.00	1899.81	19.75	0.83	257.93	1.23	-19.72	0.13
2000.00	1999.80	21.05	0.70	259.92	0.97	-21.03	0.13
2100.00	2099.79	22.17	0.63	253.36	0.70	-22.16	0.10
2200.00	2199.78	23.36	0.78	279.71	0.66	-23.36	0.35
2300.00	2299.78	24.77	0.85	280.99	0.92	-24.75	0.07
2400.00	2399.76	26.20	0.80	274.87	1.12	-26.18	0.10
2500.00	2499.76	27.58	0.81	286.83	1.38	-27.55	0.17
2600.00	2599.74	29.02	0.94	294.07	1.92	-28.98	0.17
2700.00	2699.73	30.54	0.90	286.56	2.48	-30.48	0.13
2800.00	2799.72	32.02	0.91	296.69	3.06	-31.94	0.16
2900.00	2899.71	33.36	0.85	305.02	3.84	-33.26	0.14
3000.00	2999.70	34.51	0.69	300.60	4.57	-34.38	0.17
3100.00	3099.69	35.62	0.78	303.33	5.25	-35.47	0.10
3200.00	3199.68	36.76	0.71	296.92	5.91	-36.59	0.11
3300.00	3299.68	37.62	0.45	313.64	6.46	-37.43	0.31
3400.00	3399.67	37.85	0.16	26.00	6.86	-37.65	0.43
3500.00	3499.67	37.72	0.36	16.09	7.29	-37.50	0.20
3600.00	3599.67	37.28	0.65	40.41	8.02	-37.05	0.35
3700.00	3699.66	36.67	0.65	28.85	8.95	-36.41	0.13
3800.00	3799.66	36.25	0.58	20.60	9.92	-35.95	0.11
3900.00	3899.65	35.85	0.53	32.65	10.78	-35.53	0.13
4000.00	3999.64	35.16	0.74	47.12	11.61	-34.80	0.26
4100.00	4099.63	33.91	1.10	56.91	12.57	-33.53	0.39
4200.00	4199.61	32.32	1.15	54.74	13.68	-31.90	0.07
4300.00	4299.59	30.70	1.06	65.37	14.64	-30.24	0.22
4400.00	4399.58	29.10	0.97	66.11	15.37	-28.63	0.09
4500.00	4499.57	27.73	0.79	63.82	16.02	-27.23	0.18
4600.00	4599.56	26.72	0.55	60.06	16.56	-26.20	0.24
4700.00	4699.56	26.29	0.23	6.27	17.00	-25.76	0.45
4800.00	4799.56	26.53	0.30	285.59	17.27	-25.99	0.35
4855.00	4854.55	26.82	0.32	258.13	17.28	-26.28	0.27

The Horizontal Displacement (in Feet) at
 Measured Depth 4855.00 is 31.45 in a Direction of 303.32 Degrees
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# Pathfinder Energy

## Survey Report

|                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Company:</b> EOG Resources<br><b>Field:</b> Thames Field<br><b>Site:</b> Colorado A 22 Fed #1H<br><b>Well:</b> Colorado A 22 Fed #1H<br><b>Wellpath:</b> OH | <b>Date:</b> 7/2/2007 <b>Time:</b> 11:27:00 <b>Page:</b> 1<br><b>Co-ordinate(NE) Reference:</b> Well: Colorado A 22 Fed #1H, Grid North<br><b>Vertical (TVD) Reference:</b> SITE 3644.0<br><b>Section (VS) Reference:</b> Well (0.00N,0.00E,271.83Azi)<br><b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

**Site:** Colorado A 22 Fed #1H

|                                      |                               |                                    |
|--------------------------------------|-------------------------------|------------------------------------|
| <b>Site Position:</b>                | <b>Northing:</b> 695900.10 ft | <b>Latitude:</b> 32 54 46.385 N    |
| <b>From:</b> Map                     | <b>Easting:</b> 427620.70 ft  | <b>Longitude:</b> 104 34 9.067 W   |
| <b>Position Uncertainty:</b> 0.00 ft |                               | <b>North Reference:</b> Grid       |
| <b>Ground Level:</b> 3625 00 ft      |                               | <b>Grid Convergence:</b> -0.13 deg |

|                                                                                                   |                                  |
|---------------------------------------------------------------------------------------------------|----------------------------------|
| <b>Well:</b> Colorado A 22 Fed #1H                                                                | <b>Slot Name:</b>                |
| <b>Well Position:</b> +N/-S 0.00 ft <b>Northing:</b> 695900.10 ft <b>Latitude:</b> 32 54 46.385 N | <b>Longitude:</b> 104 34 9.067 W |
| +E/-W 0.00 ft <b>Easting:</b> 427620.70 ft                                                        |                                  |
| <b>Position Uncertainty:</b> 0.00 ft                                                              |                                  |

|                                           |                                           |        |
|-------------------------------------------|-------------------------------------------|--------|
| <b>Wellpath:</b> OH                       | <b>Drilled From:</b> Surface              |        |
| <b>Current Datum:</b> SITE                | <b>Tie-on Depth:</b> 0.00 ft              |        |
| <b>Magnetic Data:</b> 6/14/2007           | <b>Above System Datum:</b> Mean Sea Level |        |
| <b>Field Strength:</b> 49363 nT           | <b>Declination:</b> 8.56 deg              |        |
| <b>Vertical Section: Depth From (TVD)</b> | <b>Mag Dip Angle:</b> 60.75 deg           |        |
| ft                                        | +N/-S                                     | +E/-W  |
|                                           | ft                                        | ft     |
| 0.00                                      | 0.00                                      | 0.00   |
|                                           |                                           | 271.83 |
|                                           |                                           | deg    |

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| <b>Survey:</b> Pathfinder MWD     | <b>Start Date:</b> 6/25/2007          |
| <b>Company:</b> Pathfinder Energy | <b>Engineer:</b>                      |
| <b>Tool:</b>                      | <b>Tied-to:</b> From: Definitive Path |

**Survey:** Pathfinder MWD

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment              |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|---------------------------|
| 4000.00  | 0.74        | 47.12       | 3999.65   | 11.61       | -34.80      | 35.16    | 0.00             | 0.00               | 0.00              | Tie-in to Gyro Survey     |
| 4045.00  | 5.54        | 280.54      | 4044.58   | 12.21       | -36.73      | 37.10    | 13.36            | 10.67              | -281.29           |                           |
| 4055.00  | 6.74        | 278.51      | 4054.53   | 12.38       | -37.78      | 38.16    | 12.23            | 12.04              | -20.27            | KOP @ 4055' MD/TVD, Begin |
| 4077.00  | 9.41        | 275.88      | 4076.31   | 12.76       | -40.85      | 41.24    | 12.23            | 12.12              | -11.97            |                           |
| 4109.00  | 13.37       | 275.88      | 4107.67   | 13.40       | -47.14      | 47.54    | 12.37            | 12.37              | 0.00              |                           |
| 4140.00  | 17.24       | 277.37      | 4137.56   | 14.36       | -55.26      | 55.69    | 12.55            | 12.48              | 4.81              |                           |
| 4172.00  | 21.37       | 277.99      | 4167.76   | 15.78       | -65.74      | 66.21    | 12.92            | 12.91              | 1.94              |                           |
| 4204.00  | 25.32       | 276.99      | 4197.13   | 17.42       | -78.31      | 78.83    | 12.41            | 12.34              | -3.12             |                           |
| 4236.00  | 28.93       | 274.56      | 4225.61   | 18.87       | -92.82      | 93.38    | 11.80            | 11.28              | -7.59             |                           |
| 4268.00  | 31.48       | 271.04      | 4253.26   | 19.64       | -108.90     | 109.47   | 9.70             | 7.97               | -11.00            |                           |
| 4299.00  | 34.38       | 271.63      | 4279.28   | 20.04       | -125.74     | 126.32   | 9.41             | 9.35               | 1.90              |                           |
| 4331.00  | 37.55       | 272.73      | 4305.18   | 20.76       | -144.52     | 145.11   | 10.11            | 9.91               | 3.44              |                           |
| 4363.00  | 41.06       | 273.66      | 4329.94   | 21.89       | -164.75     | 165.37   | 11.12            | 10.97              | 2.91              |                           |
| 4395.00  | 44.76       | 272.93      | 4353.37   | 23.14       | -186.50     | 187.14   | 11.67            | 11.56              | -2.28             |                           |
| 4427.00  | 47.92       | 272.52      | 4375.46   | 24.24       | -209.62     | 210.29   | 9.92             | 9.87               | -1.28             |                           |
| 4459.00  | 50.74       | 271.21      | 4396.31   | 25.02       | -233.88     | 234.56   | 9.34             | 8.81               | -4.09             |                           |
| 4491.00  | 53.99       | 270.32      | 4415.85   | 25.36       | -259.21     | 259.89   | 10.39            | 10.16              | -2.78             |                           |
| 4522.00  | 57.16       | 268.04      | 4433.37   | 24.98       | -284.77     | 285.43   | 11.89            | 10.23              | -7.35             |                           |
| 4554.00  | 60.41       | 265.71      | 4449.96   | 23.48       | -312.09     | 312.68   | 11.91            | 10.16              | -7.28             |                           |
| 4559.20  | 61.05       | 265.53      | 4452.50   | 23.13       | -316.62     | 317.20   | 12.74            | 12.36              | -3.54             | PBHL                      |
| 4586.00  | 64.37       | 264.61      | 4464.79   | 21.08       | -340.34     | 340.84   | 12.74            | 12.38              | -3.42             |                           |
| 4618.00  | 67.09       | 264.39      | 4477.94   | 18.29       | -369.38     | 369.77   | 8.52             | 8.50               | -0.69             |                           |
| 4650.00  | 69.73       | 265.07      | 4489.71   | 15.56       | -399.00     | 399.30   | 8.48             | 8.25               | 2.12              |                           |
| 4682.00  | 72.37       | 266.30      | 4500.10   | 13.28       | -429.18     | 429.39   | 9.02             | 8.25               | 3.84              |                           |

# Pathfinder Energy

## Survey Report

|                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Company:</b> EOG Resources<br><b>Field:</b> Thames Field<br><b>Site:</b> Colorado A 22 Fed #1H<br><b>Well:</b> Colorado A 22 Fed #1H<br><b>Wellpath:</b> OH | <b>Date:</b> 7/2/2007 <b>Time:</b> 11:27:00 <b>Page:</b> 2<br><b>Co-ordinate(NE) Reference:</b> Well: Colorado A 22 Fed #1H; Grid North<br><b>Vertical (TVD) Reference:</b> SITE 3644.0<br><b>Section (VS) Reference:</b> Well (0.00N,0.00E,271.83Azi)<br><b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Survey: Pathfinder MWD

| MD<br>ft | Incl<br>deg | Azim<br>deg | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | VS<br>ft | DLS<br>deg/100ft | Build<br>deg/100ft | Turn<br>deg/100ft | Tool/Comment              |
|----------|-------------|-------------|-----------|-------------|-------------|----------|------------------|--------------------|-------------------|---------------------------|
| 4713.00  | 74.13       | 268.40      | 4509.04   | 11.91       | -458.83     | 458.98   | 8.62             | 5.68               | 6.77              |                           |
| 4745.00  | 75.36       | 270.58      | 4517.46   | 11.64       | -489.70     | 489.82   | 7.61             | 3.84               | 6.81              |                           |
| 4777.00  | 76.94       | 270.96      | 4525.12   | 12.06       | -520.76     | 520.88   | 5.07             | 4.94               | 1.19              |                           |
| 4809.00  | 78.44       | 271.87      | 4531.94   | 12.83       | -552.02     | 552.15   | 5.45             | 4.69               | 2.84              |                           |
| 4819.59  | 79.22       | 271.85      | 4533.99   | 13.17       | -562.40     | 562.54   | 7.41             | 7.41               | -0.19             | EOC @ 4820' MD, 4543' TVD |
| 4841.00  | 80.81       | 271.81      | 4537.70   | 13.84       | -583.48     | 583.62   | 7.41             | 7.41               | -0.19             |                           |
| 4873.00  | 84.15       | 270.59      | 4541.89   | 14.50       | -615.19     | 615.34   | 11.10            | 10.44              | -3.81             |                           |
| 4968.00  | 93.03       | 268.89      | 4544.23   | 14.07       | -710.06     | 710.15   | 9.52             | 9.35               | -1.79             |                           |
| 5064.00  | 92.33       | 269.07      | 4539.74   | 12.36       | -805.94     | 805.92   | 0.75             | -0.73              | 0.19              |                           |
| 5159.00  | 92.42       | 269.43      | 4535.80   | 11.12       | -900.85     | 900.75   | 0.39             | 0.09               | 0.38              |                           |
| 5255.00  | 91.36       | 269.59      | 4532.63   | 10.30       | -996.79     | 996.61   | 1.12             | -1.10              | 0.17              |                           |
| 5351.00  | 91.10       | 269.08      | 4530.57   | 9.18        | -1092.76    | 1092.50  | 0.60             | -0.27              | -0.53             |                           |
| 5446.00  | 90.40       | 269.22      | 4529.33   | 7.78        | -1187.74    | 1187.39  | 0.75             | -0.74              | 0.15              |                           |
| 5541.00  | 91.45       | 269.09      | 4527.80   | 6.37        | -1282.72    | 1282.27  | 1.11             | 1.11               | -0.14             |                           |
| 5636.00  | 91.63       | 268.59      | 4525.24   | 4.45        | -1377.67    | 1377.11  | 0.56             | 0.19               | -0.53             |                           |
| 5732.00  | 91.19       | 267.52      | 4522.88   | 1.20        | -1473.58    | 1472.87  | 1.20             | -0.46              | -1.11             |                           |
| 5819.59  | 89.97       | 266.82      | 4521.99   | -3.13       | -1561.06    | 1560.16  | 1.60             | -1.39              | -0.80             | EOH @ 5820' MD, Begin Bit |
| 5827.00  | 89.87       | 266.76      | 4522.00   | -3.54       | -1568.46    | 1567.54  | 1.60             | -1.39              | -0.80             |                           |
| 5886.33  | 91.68       | 266.95      | 4521.20   | -6.80       | -1627.69    | 1626.64  | 3.07             | 3.05               | 0.32              | EOB @ 5886' MD, 92° INC   |
| 5922.00  | 92.77       | 267.06      | 4519.81   | -8.66       | -1663.28    | 1662.16  | 3.07             | 3.05               | 0.32              |                           |
| 6018.00  | 90.31       | 267.84      | 4517.23   | -12.93      | -1759.14    | 1757.83  | 2.69             | -2.56              | 0.81              |                           |
| 6114.00  | 91.45       | 269.49      | 4515.76   | -15.17      | -1855.10    | 1853.67  | 2.09             | 1.19               | 1.72              |                           |
| 6209.00  | 93.39       | 271.91      | 4511.75   | -14.01      | -1950.00    | 1948.56  | 3.26             | 2.04               | 2.55              |                           |
| 6305.00  | 92.62       | 271.97      | 4506.71   | -10.77      | -2045.81    | 2044.42  | 0.80             | -0.80              | 0.06              |                           |
| 6400.00  | 92.86       | 272.59      | 4502.17   | -6.99       | -2140.63    | 2139.31  | 0.70             | 0.25               | 0.65              |                           |
| 6497.00  | 91.80       | 271.89      | 4498.23   | -3.20       | -2237.47    | 2236.23  | 1.31             | -1.09              | -0.72             |                           |
| 6592.00  | 91.80       | 270.54      | 4495.25   | -1.19       | -2332.40    | 2331.17  | 1.42             | 0.00               | -1.42             |                           |
| 6688.00  | 91.89       | 269.95      | 4492.15   | -0.78       | -2428.35    | 2427.09  | 0.62             | 0.09               | -0.61             |                           |
| 6784.00  | 92.07       | 270.13      | 4488.84   | -0.71       | -2524.29    | 2522.98  | 0.27             | 0.19               | 0.19              |                           |
| 6880.00  | 91.10       | 269.70      | 4486.18   | -0.85       | -2620.25    | 2618.89  | 1.11             | -1.01              | -0.45             |                           |
| 6976.00  | 91.19       | 269.20      | 4484.26   | -1.78       | -2716.23    | 2714.79  | 0.53             | 0.09               | -0.52             |                           |
| 7073.00  | 92.33       | 269.79      | 4481.28   | -2.63       | -2813.18    | 2811.66  | 1.32             | 1.18               | 0.61              |                           |
| 7169.00  | 91.98       | 269.78      | 4477.68   | -2.99       | -2909.11    | 2907.53  | 0.36             | -0.36              | -0.01             |                           |
| 7264.00  | 91.89       | 269.96      | 4474.47   | -3.21       | -3004.05    | 3002.42  | 0.21             | -0.09              | 0.19              |                           |
| 7360.00  | 91.45       | 269.47      | 4471.67   | -3.68       | -3100.01    | 3098.31  | 0.69             | -0.46              | -0.51             |                           |
| 7456.00  | 89.69       | 268.64      | 4470.71   | -5.27       | -3195.99    | 3194.19  | 2.03             | -1.83              | -0.86             |                           |
| 7553.00  | 92.68       | 272.29      | 4468.71   | -4.48       | -3292.94    | 3291.12  | 4.86             | 3.08               | 3.76              |                           |
| 7648.00  | 91.10       | 271.69      | 4465.58   | -1.18       | -3387.83    | 3386.06  | 1.78             | -1.66              | -0.63             |                           |
| 7745.00  | 89.94       | 270.53      | 4464.69   | 0.69        | -3484.80    | 3483.05  | 1.69             | -1.20              | -1.20             |                           |
| 7841.00  | 93.03       | 272.75      | 4462.21   | 3.44        | -3580.71    | 3579.00  | 3.96             | 3.22               | 2.31              |                           |
| 7936.00  | 91.10       | 270.76      | 4458.78   | 6.34        | -3675.60    | 3673.92  | 2.92             | -2.03              | -2.09             |                           |
| 8033.00  | 89.96       | 269.15      | 4457.89   | 6.27        | -3772.59    | 3770.86  | 2.03             | -1.18              | -1.66             |                           |
| 8129.00  | 91.36       | 269.61      | 4456.78   | 5.23        | -3868.57    | 3866.77  | 1.54             | 1.46               | 0.48              |                           |
| 8225.00  | 91.10       | 270.64      | 4454.72   | 5.44        | -3964.55    | 3962.70  | 1.11             | -0.27              | 1.07              |                           |
| 8267.00  | 92.42       | 271.56      | 4453.43   | 6.25        | -4006.52    | 4004.68  | 3.83             | 3.14               | 2.19              | Final MWD Survey @ 8267'  |
| 8345.00  | 92.42       | 271.56      | 4450.14   | 8.37        | -4084.42    | 4082.61  | 0.00             | 0.00               | 0.00              | Proj. to Bit @ 8345' MD   |

### Targets

| Name | Description<br>Dip. Dir. | TVD<br>ft | +N/-S<br>ft | +E/-W<br>ft | Map<br>Northing<br>ft | Map<br>Easting<br>ft | <---- Latitude ----><---- Longitude ----> |    |                          |
|------|--------------------------|-----------|-------------|-------------|-----------------------|----------------------|-------------------------------------------|----|--------------------------|
| PBHL |                          | 4452.50   | 132.20      | -4138.80    | 696032.30             | 423481.90            | 32                                        | 54 | 47.599 N 104 34 57.622 W |

# Pathfinder Energy

## Survey Report

**Company:** EOG Resources  
**Field:** Thames Field  
**Site:** Colorado A 22 Fed #1H  
**Well:** Colorado A 22 Fed #1H  
**Wellpath:** OH

**Date:** 7/2/2007      **Time:** 11:27:00      **Page:** 3  
**Co-ordinate(NE) Reference:** Well: Colorado A 22 Fed #1H, Grid North  
**Vertical (TVD) Reference:** SITE 3644.0  
**Section (VS) Reference:** Well (0.00N,0.00E,271.83Azi)  
**Survey Calculation Method:** Minimum Curvature      **Db:** Sybase

### Annotation

| MD<br>ft. | TVD<br>ft. |                                               |
|-----------|------------|-----------------------------------------------|
| 4000.00   | 3999.65    | Tie-in to Gyro Survey                         |
| 4055.00   | 4054.53    | KOP @ 4055' MD/TVD, Begin Build @ 11.84°/100' |
| 4819.59   | 4533.99    | EOC @ 4820' MD, 4543' TVD, Begin Hold         |
| 5819.59   | 4521.99    | EOH @ 5820' MD, Begin Build @ 3°/100'         |
| 5886.33   | 4521.20    | EOB @ 5886' MD, 92° INC                       |
| 8267.00   | 4453.43    | Final MWD Survey @ 8267' MD                   |
| 8345.00   | 4450.14    | Proj. to Bit @ 8345' MD                       |

