

UNITED STATES **BLM-CARLSBAD FIELD OFFICE**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT **OCD-ARTESIA**

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.

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)

**1880' FSL & 360' FEL, U/L I
Sec 24, T16S, R24E**

CONFIDENTIAL

5 Lease Serial No.

NM 111400

6 If Indian, Allottee or Tribe Name

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

8. Well Name and No

Robinson HW 3H

Fed Com

9. API Well No.

30-015-35812

10. Field and Pool, or Exploratory Area

Cottonwood Creek; WC, West

11 County or Parish, State

Eddy

NM

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.)

10/09/07 TD @ 8735' MD.

Ran 201 jts 5 1/2", 17 #, N-80 casing set at 8709'.

Cemented w/ 600 sx 50/50 POZ C, 11.8 ppg, 2.29 yield; 1000 sx Prem Plus C, 14.2 ppg, 1.30 yield. Circulated 285 sx to surface.

10/10/07 Released rig.

10/23/07 MIRU for completion. Test casing to 3145 psi for 30 min. Test good.

Perforated from 7915' to 8635', 0.42", 32 holes.

Frac w/ 72 bbls 15% HCL acid, 1136 bbls XL gel, 76168 # 100 mesh sand, 76011 lbs 30/50 sand, 30500 lbs 20/40 sand, 6535 bbls load water.

Perforated from 6955' to 7875', 0.42", 32 holes.

Frac w/ 142 bbls 15% HCL acid, 1158 bbls XL gel, 78353 lbs 100 mesh sand, 73095 lbs 30/50 sand, 31147 lbs 20/40 sand, 6203 bbls load water.

10/24/07 Perforated from 6000' to 6750', 0.42", 32 holes.

Frac w/ 142 bbls 15% HCL acid, 1112 bbls XL gel, 80827 lbs 100 mesh sand, 73985 lbs 30/50 sand, 27768 lbs 20/40 sand, 6266 bbls load water.

Perforated from 5050' to 5755', 0.42", 32 holes.

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

Stan Wagner

Title

Regulatory Analyst

Signature

Stan Wagner

Date **11/01/07**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

ACCEPTED FOR RECORD

MAR 30 2008

**BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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APR - 1 2008

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OCD-ARTESIA

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P.O. Box 2267 Midland, Texas 79702

3b. Phone No. (include area code)

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Robinson HW 3H

Fed Com

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- ☐ 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.)

10/24/07 Frac w/ 142 bbls 15% HCL acid, 991 bbls XL gel, 89702 lbs 100 mesh sand, 68442 lbs 30/50 sand, 26910 lbs 20/40 sand, 6247 bbls load water.

Flow back.

10/26/07 Turned to sales.

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

Stan Wagner

Title

Regulatory Analyst

Signature

Stan Wagner

Date 11/01/07

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.

Pathfinder Energy

Survey Report

Company: EOG Resources	Date: 10/15/2007	Time: 11:29:34	Page: 1							
Field: Thames Field	Co-ordinate(NE) Reference: Well: Robinson HW Fed Com #3H, Grid: Nort									
Site: Robinson HW Fed Com #3H	Vertical (TVD) Reference: RKB 3655.0									
Well: Robinson HW Fed Com #3H	Section (VS) Reference: Well (0.00N,0.00E,270.35Azi)									
Wellpath: OH	Survey Calculation Method: Minimum Curvature Db: Sybase									
Field: Thames Field Eddy, Co. NM USA										
Map System: US State Plane Coordinate System 1927		Map Zone: New Mexico, Eastern Zone								
Geo Datum: NAD27 (Clarke 1866)		Coordinate System: Well Centre								
Sys Datum: Mean Sea Level		Geomagnetic Model: igrf2005								
Site: Robinson HW Fed Com #3H										
Site Position:	Northing: 693477.30 ft	Latitude: 32 54 22.631 N								
From: Map	Easting: 438383.50 ft	Longitude: 104 32 2.757 W								
Position Uncertainty: 0.00 ft		North Reference: Grid								
Ground Level: 3638.00 ft		Grid Convergence: -0.11 deg								
Well: Robinson HW Fed Com #3H Slot Name:										
Well Position: +N/-S 0.00 ft	Northing: 693477.30 ft	Latitude: 32 54 22.631 N								
+E/-W 0.00 ft	Easting : 438383.50 ft	Longitude: 104 32 2.757 W								
Position Uncertainty: 0.00 ft										
Wellpath: OH										
Current Datum: RKB	Height: 3655.00 ft	Drilled From: Surface								
Magnetic Data: 10/04/2007		Tie-on Depth: 0.00 ft								
Field Strength: 49334 nT		Above System Datum: Mean Sea Level								
Vertical Section: Depth From (TVD)	+N/-S	Declination: 8.51 deg								
ft	ft	Mag Dip Angle: 60.75 deg								
		+E/-W	Direction							
		ft	deg							
0.00	0.00	0 00	270.35							
Survey: Gyro Survey Start Date: 10/04/2007										
Company: Pathfinder Energy		Engineer:								
Tool:		Tied-to: From Surface								
Survey: Gyro Survey										
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
0 00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0 00	0.00	
100.00	0.34	7.17	100.00	0.29	0.04	-0.04	0.34	0.34	0.00	
200.00	0.47	3.57	200.00	1.00	0.10	-0.09	0.13	0.13	-3.60	
300 00	0.58	357.82	299.99	1.91	0 11	-0.09	0.12	0 11	-5.75	
400 00	0.69	340.81	399.99	2.99	-0 11	0.13	0 22	0 11	-17.01	
500.00	0.49	317.88	499.98	3.87	-0.60	0.62	0.31	-0.20	-22.93	
600.00	0.44	289.60	599.98	4.32	-1.24	1.27	0.23	-0.05	-28.28	
700 00	0.26	256.17	699.98	4.39	-1.83	1.85	0 27	-0 18	-33.43	
800 00	0.57	278.76	799.97	4.42	-2.54	2.57	0.34	0.31	22.59	
900 00	0.81	283.20	899.97	4.65	-3.72	3.75	0.25	0.24	4.44	
1000.00	0.74	283.24	999.96	4.96	-5.03	5.07	0.07	-0.07	0.04	
1100 00	0.86	285.86	1099.95	5.32	-6.39	6.42	0 13	0 12	2.62	
1200.00	0.80	290.45	1199.94	5.76	-7.76	7.80	0 09	-0.06	4.59	
1300.00	0.75	303.05	1299.93	6.36	-8.96	9.00	0.18	-0.05	12.60	
1400.00	0.69	294.91	1399.92	6.98	-10.06	10.10	0.12	-0.06	-8.14	
1500.00	0.60	317.24	1499.91	7.61	-10.96	11.01	0.26	-0.09	22.33	
1600.00	0.67	318.22	1599.91	8.43	-11.71	11.76	0.07	0.07	0.98	
1700.00	0.71	312.29	1699.90	9.29	-12.55	12.61	0.08	0.04	-5.93	
1800 00	0.73	299.15	1799.89	10.01	-13.57	13 63	0.17	0.02	-13 14	
1900 00	0.90	297.96	1899.88	10.69	-14.82	14.88	0.17	0 17	-1.19	
2000.00	0.79	294.70	1999.87	11.35	-16 14	16.21	0.12	-0.11	-3.26	
2100.00	0.75	302.88	2099.86	11.99	-17.31	17.39	0 12	-0.04	8.18	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Robinson HW Fed Com #3H Well: Robinson HW Fed Com #3H Wellpath: OH	Date: 10/15/2007 Time: 11:29:34 Page: 2 Co-ordinate(NE) Reference: Well: Robinson HW Fed Com #3H, Grid North Vertical (TVD) Reference: RKB 3655.0 Section (VS) Reference: Well (0.00N,0.00E,270.35Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Gyro Survey

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
2400.00	0.46	323.32	2399.85	14.01	-19.37	19.46	0.04	-0.02	3.79	
2500.00	0.40	332.38	2499.85	14.64	-19.78	19.87	0.09	-0.06	9.06	
2600.00	0.43	325.48	2599.84	15.26	-20.15	20.24	0.06	0.03	-6.90	
2700.00	0.50	316.92	2699.84	15.89	-20.66	20.76	0.10	0.07	-8.56	
2800.00	0.48	327.92	2799.84	16.56	-21.18	21.28	0.10	-0.02	11.00	
2900.00	0.40	321.06	2899.83	17.19	-21.62	21.73	0.10	-0.08	-6.86	
3000.00	0.46	323.03	2999.83	17.78	-22.08	22.19	0.06	0.06	1.97	
3100.00	0.39	316.99	3099.83	18.35	-22.56	22.67	0.08	-0.07	-6.04	
3200.00	0.25	278.58	3199.83	18.63	-23.01	23.12	0.25	-0.14	-38.41	
3300.00	0.25	256.21	3299.82	18.61	-23.43	23.55	0.10	0.00	-22.37	
3400.00	0.27	268.65	3399.82	18.55	-23.88	23.99	0.06	0.02	12.44	
3500.00	0.11	123.37	3499.82	18.50	-24.04	24.15	0.37	-0.16	-145.28	
3600.00	0.29	122.40	3599.82	18.31	-23.74	23.85	0.18	0.18	-0.97	
3700.00	0.30	121.18	3699.82	18.04	-23.30	23.42	0.01	0.01	-1.22	
3800.00	1.08	99.94	3799.81	17.74	-22.15	22.26	0.81	0.78	-21.24	
3900.00	0.98	111.31	3899.80	17.27	-20.43	20.53	0.23	-0.10	11.37	
4000.00	0.68	121.24	3999.79	16.65	-19.12	19.23	0.33	-0.30	9.93	
4100.00	0.91	115.67	4099.78	15.99	-17.90	18.00	0.24	0.23	-5.57	
4107.00	0.92	116.98	4106.78	15.95	-17.80	17.90	0.33	0.14	18.71	Tie in to Gyro @ 4170' MD

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->		
PBHL			4723.00	26.50	-4297.50	693503.80	434086.00	32	54	22.809 N	104	32	53.167 W
Interp HL Xing			4735.00	12.00	-300.00	693489.30	438083.50	32	54	22.744 N	104	32	6.276 W

Annotation

MD ft	TVD ft	
4107.00	4106.78	Tie in to Gyro @ 4170' MD
4250.00	0.00	KOP @ 4250' MD, Begin Build @ 10 56"/100'
5109.90	0.00	EOC @ 5110' MD, 4800' TVD, Begin Hold
6609.90	0.00	EOH @ 6610' MD, Begin Build @ 3"/100'
6676.56	0.00	EOB @ 6677' MD, 92" INC, Hold to TD
8657.00	0.00	Final MWD Survey @ 8657' MD
8735.00	0.00	Proj. to Bit @ 8735' MD

Pathfinder Energy

Survey Report

Company: EOG Resources		Date: 10/15/2007		Time: 11:27:07		Page: 1	
Field: Thames Field		Co-ordinate(NE) Reference: Well: Robinson HW Fed Com #3H, Grid North					
Site: Robinson HW Fed Com #3H		Vertical (TVD) Reference: RKB 3655.0					
Well: Robinson HW Fed Com #3H		Section (VS) Reference: Well (0.00N, 0.00E, 270.35Azi)					
Wellpath: OH		Survey Calculation Method: Minimum Curvature Db: Sybase					

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

Site: Robinson HW Fed Com #3H					
Site Position:		Northing: 693477.30 ft	Latitude: 32 54 22.631 N		
From: Map		Easting: 438383.50 ft	Longitude: 104 32 2.757 W		
Position Uncertainty: 0.00 ft		North Reference: Grid			
Ground Level: 3638.00 ft		Grid Convergence: -0.11 deg			

Well: Robinson HW Fed Com #3H				Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 693477.30 ft	Latitude: 32 54 22.631 N			
+E/-W 0.00 ft	Easting: 438383.50 ft	Longitude: 104 32 2.757 W			
Position Uncertainty: 0.00 ft					

Wellpath: OH		Drilled From: Surface	
Current Datum: RKB		Tie-on Depth: 0.00 ft	
Magnetic Data: 10/04/2007		Above System Datum: Mean Sea Level	
Field Strength: 49334 nT		Declination: 8.51 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 60.75 deg	
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	270.35

Survey: Pathfinder MWD		Start Date: 10/08/2007	
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
4107.00	0.92	116.98	4106.78	15.95	-17.80	17.90	0.00	0.00	0.00	Tie in to Gyro @ 4170' MD
4173.00	1.23	106.52	4172.76	15.50	-16.65	16.74	0.55	0.47	-15.85	
4237.00	1.06	114.43	4236.75	15.06	-15.45	15.54	0.36	-0.27	12.36	
4250.00	0.70	179.41	4249.75	14.93	-15.34	15.43	7.63	-2.79	499.85	KOP @ 4250' MD, Begin Bui
4269.00	1.76	232.32	4268.75	14.64	-15.57	15.66	7.63	5.59	278.47	
4300.00	5.72	253.49	4299.68	13.91	-17.43	17.51	13.32	12.77	68.29	
4332.00	9.32	259.15	4331.40	12.97	-21.50	21.58	11.47	11.25	17.69	
4364.00	14.25	262.70	4362.71	11.98	-27.96	28.03	15.56	15.41	11.09	
4395.00	18.03	269.36	4392.49	11.44	-36.55	36.62	13.56	12.19	21.48	
4427.00	21.81	276.25	4422.57	12.03	-47.41	47.49	13.89	11.81	21.53	
4459.00	25.76	279.20	4451.85	13.79	-60.19	60.27	12.89	12.34	9.22	
4491.00	28.67	277.44	4480.30	15.90	-74.67	74.77	9.43	9.09	-5.50	
4522.00	30.95	274.83	4507.20	17.53	-89.99	90.10	8.46	7.35	-8.42	
4554.00	33.41	273.41	4534.28	18.75	-106.99	107.10	8.04	7.69	-4.44	
4586.00	35.96	272.75	4560.59	19.73	-125.17	125.29	8.05	7.97	-2.06	
4617.00	39.39	272.51	4585.13	20.59	-144.09	144.22	11.07	11.06	-0.77	
4649.00	43.70	272.62	4609.07	21.54	-165.29	165.42	13.47	13.47	0.34	
4681.00	47.40	270.99	4631.48	22.25	-188.12	188.25	12.12	11.56	-5.09	
4712.00	50.12	269.17	4651.91	22.28	-211.42	211.56	9.82	8.77	-5.87	
4744.00	52.06	268.39	4672.01	21.75	-236.32	236.45	6.35	6.06	-2.44	
4776.00	55.31	268.24	4690.96	20.99	-262.09	262.21	10.16	10.16	-0.47	
4807.00	59.09	267.82	4707.75	20.09	-288.12	288.24	12.25	12.19	-1.35	
4838.74	63.45	268.18	4723.00	19.12	-315.93	316.04	13.79	13.75	1.13	PBHL
4839.00	63.49	268.18	4723.12	19.11	-316.16	316.28	13.79	13.75	1.08	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Robinson HW Fed Com #3H Well: Robinson HW Fed Com #3H Wellpath: OH	Date: 10/15/2007 Time: 11:27:07 Page: 2 Co-ordinate(NE) Reference: Well: Robinson HW Fed Com #3H, Grid Nort Vertical (TVD) Reference: RKB 3655.0 Section (VS) Reference: Well (0.00N,0.00E,270.35Azi) 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
4867.16	66.59	268.00	4735.00	18.26	-341.68	341.78	11.01	11.00	-0.63	Interp. HL Xing
4871.00	67.01	267.98	4736.51	18.14	-345.20	345.31	11.01	11.00	-0.61	
4903.00	69.64	268.38	4748.33	17.19	-374.92	375.02	8.30	8.22	1.25	
4934.00	71.93	268.38	4758.53	16.37	-404.18	404.28	7.39	7.39	0.00	
4966.00	74.83	268.61	4767.68	15.56	-434.83	434.92	9.09	9.06	0.72	
4998.00	78.08	268.68	4775.18	14.83	-465.93	466.01	10.16	10.16	0.22	
5029.00	80.90	269.59	4780.83	14.37	-496.40	496.48	9.54	9.10	2.94	
5061.00	83.45	269.66	4785.19	14.16	-528.10	528.18	7.97	7.97	0.22	
5109.90	86.35	269.27	4789.54	13.71	-576.80	576.87	5.98	5.93	-0.79	EOC @ 5110' MD, 4800' TVD
5156.00	89.08	268.91	4791.37	12.98	-622.85	622.92	5.98	5.93	-0.79	
5251.00	90.22	269.16	4791.95	11.38	-717.84	717.89	1.23	1.20	0.26	
5347.00	91.98	269.91	4790.11	10.60	-813.81	813.86	1.99	1.83	0.78	
5442.00	91.36	270.22	4787.34	10.70	-908.77	908.82	0.73	-0.65	0.33	
5474.00	91.45	269.94	4786.56	10.75	-940.76	940.81	0.92	0.28	-0.87	
5569.00	89.78	269.88	4785.54	10.60	-1035.75	1035.80	1.76	-1.76	-0.06	
5696.00	89.08	270.11	4786.80	10.59	-1162.74	1162.79	0.58	-0.55	0.18	
5791.00	89.60	269.63	4787.90	10.37	-1257.74	1257.78	0.74	0.55	-0.51	
5918.00	89.60	270.42	4788.78	10.43	-1384.73	1384.77	0.62	0.00	0.62	
6043.00	90.31	270.58	4788.88	11.52	-1509.73	1509.77	0.58	0.57	0.13	
6169.00	91.89	272.55	4786.46	14.96	-1635.65	1635.71	2.00	1.25	1.56	
6292.00	89.78	271.32	4784.67	19.11	-1758.55	1758.64	1.99	-1.72	-1.00	
6416.00	91.54	272.90	4783.24	23.68	-1882.45	1882.56	1.91	1.42	1.27	
6541.00	94.00	271.29	4777.20	28.24	-2007.21	2007.35	2.35	1.97	-1.29	
6609.90	94.10	271.60	4772.33	29.98	-2075.92	2076.06	0.48	0.15	0.46	EOH @ 6610' MD, Begin Bui
6664.00	94.18	271.85	4768.43	31.60	-2129.85	2130.01	0.48	0.15	0.46	
6676.56	94.05	271.78	4767.53	32.00	-2142.37	2142.53	1.19	-1.06	-0.54	EOB @ 6677' MD, 92° INC,
6789.00	92.86	271.17	4760.75	34.89	-2254.57	2254.74	1.19	-1.06	-0.54	
6916.00	91.89	269.21	4755.49	35.31	-2381.45	2381.62	1.72	-0.76	-1.54	
7039.00	91.89	268.13	4751.43	32.46	-2504.35	2504.50	0.88	0.00	-0.88	
7164.00	91.19	267.49	4748.07	27.68	-2629.21	2629.33	0.76	-0.56	-0.51	
7288.00	92.33	268.24	4744.27	23.06	-2753.06	2753.15	1.10	0.92	0.60	
7412.00	91.54	267.05	4740.08	17.97	-2876.88	2876.94	1.15	-0.64	-0.96	
7569.00	91.19	265.92	4736.34	8.35	-3033.54	3033.54	0.75	-0.22	-0.72	
7725.00	91.10	265.86	4733.22	-2.83	-3189.11	3189.03	0.07	-0.06	-0.04	
7880.00	92.15	265.92	4728.83	-13.93	-3343.65	3343.50	0.68	0.68	0.04	
8038.00	90.92	265.04	4724.59	-26.38	-3501.09	3500.87	0.96	-0.78	-0.56	
8193.00	90.75	264.48	4722.33	-40.54	-3655.43	3655.11	0.38	-0.11	-0.36	
8348.00	90.48	264.41	4720.67	-55.54	-3809.69	3809.28	0.18	-0.17	-0.05	
8504.00	90.31	264.98	4719.60	-69.96	-3965.02	3964.51	0.38	-0.11	0.37	
8657.00	90.66	264.91	4718.30	-83.44	-4117.42	4116.83	0.23	0.23	-0.05	Final MWD Survey @ 8657'
8735.00	90.66	264.91	4717.40	-90.36	-4195.11	4194.47	0.00	0.00	0.00	Proj. to Bit @ 8735' MD

Targets

Name	Description Dip.	Dir.	TVD ft	+N-S ft	+E-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec			Longitude Deg Min Sec		
PBHL			4723.00	26.50	-4297.50	693503.80	434086.00	32	54	22.809 N	104	32	53.167 W
Interp. HL Xing			4735.00	12.00	-300.00	693489.30	438083.50	32	54	22.744 N	104	32	6.276 W

Pathfinder Energy

Survey Report

Company: EOG Resources	Date: 10/15/2007	Time: 11:27:07	Page: 3
Field: Thames Field	Co-ordinate(NE) Reference: Well: Robinson HW Fed Com #3H, Grid.Nort		
Site: Robinson HW Fed Com #3H	Vertical (TVD) Reference: RKB 3655.0		
Well: Robinson HW Fed Com #3H	Section (VS) Reference: Well (0.00N,0.00E,270.35Azi)		
Wellpath: OH	Survey Calculation Method: Minimum Curvature		Db: Sybase

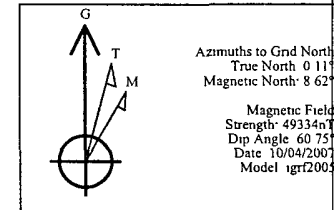
Annotation

MD ft	TVD ft	
4107.00	4106.78	Tie in to Gyro @ 4170' MD
4250.00	4249.75	KOP @ 4250' MD, Begin Build @ 10.56°/100'
5109.90	4789.54	EOC @ 5110' MD, 4800' TVD, Begin Hold
6609.90	4772.33	EOH @ 6610' MD, Begin Build @ 3°/100'
6676.56	4767.53	EOB @ 6677' MD, 92° INC, Hold to TD
8657.00	4718.30	Final MWD Survey @ 8657' MD
8735.00	4717.40	Proj. to Bit @ 8735' MD

Field: Thames Field
 Site: Robinson HW Fed Com #3H
 Well: Robinson HW Fed Com #3H
 Wellpath: OH
 Survey: Pathfinder MWD

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Robinson HW Fed Com #3H	0 00	0 00	693477 30	438383 50	32°54'22.631N	104°32'02.757W
						N/A

Survey Pathfinder MWD (Robinson HW Fed Com #3H/OH)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
51	7569.00	91.19	265.92	4736.34	8.35	-3033.54	0.75	-107.20	3033.54
52	7725.00	91.10	265.86	4733.22	-2.83	-3189.11	0.07	-146.31	3189.03
53	7880.00	92.15	265.92	4728.83	-13.93	-3343.65	0.68	3.27	3343.50
54	8038.00	90.92	265.04	4724.59	-26.38	-3501.09	0.96	-144.42	3500.87
55	8193.00	90.75	264.48	4722.33	-40.54	-3655.43	0.38	-106.88	3655.11
56	8348.00	90.48	264.41	4720.67	-55.54	-3809.69	0.18	-165.47	3809.28
57	8504.00	90.31	264.98	4719.60	-69.96	-3965.02	0.38	106.61	3964.51
58	8657.00	90.66	264.91	4718.30	-83.44	-4117.42	0.23	-11.31	4116.83
59	8735.00	90.66	264.91	4717.40	-90.36	-4195.11	0.00	0.00	4194.47



TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
PBHL	4723.00	26.50	-4297.50	Point
Interp HL Xing	4735.00	12.00	-300.00	Point

SITE DETAILS				
Robinson HW Fed Com #3H				
Site Centre Northing	693477.30			
Easting	438383.50			
Ground Level	3638.00			
Positional Uncertainty	0.00			
Convergence	-0.11			

FIELD DETAILS	
Thames Field Eddy, Co NM USA	
Geodetic System	US State Plane Coordinate System 1927
Ellipsoid	NAD27 (Clarke 1866)
Zone	New Mexico, Eastern Zone
Magnetic Model	igr2005
System Datum	Mean Sea Level
Local North	Grid North

ANNOTATIONS			
No	TVD	MD	Annotation
1	4106.78	4107.00	Tie in to Gyro @ 4170' MD
2	4249.75	4250.00	KOP @ 4250' MD, Begin Build @ 10.56°/100'
3	4789.54	5109.90	EOC @ 5110' MD, 4800' TVD, Begin Hold
4	4772.33	6609.90	EOH @ 6610' MD, Begin Build @ 3°/100'
5	4767.53	6676.56	EOB @ 6677' MD, 92° INC, Hold to TD
6	4718.30	8657.00	Final MWD Survey @ 8657' MD
7	4717.40	8735.00	Proj to Bit @ 8735' MD

LEGEND	
—	Robinson HW Fed Com #3H, OH, Post Gyro Plan
—	Shuns 29 Static #111 (OII)
—	CH
—	Pathfinder MWD

