

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

MAR 19 2008

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.

OCD-ARTESIA

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

BOG 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)

1800' FNL & 380' FEL, U/L H

5. Lease Serial No.

NM 100529

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No

Lilano 1 Fed 2H

9. API Well No.

30-015-36060

10. Field and Pool, or Exploratory Area

Rio Penasco; Wolfcamp

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 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.)

2/25/08 TD at 8742' MD

Ran 5-1/2", 17 #, N-80 LTC casing set at 8723'.

Cemented w/ 630 sx 50/50 POZ C, 11.8 ppg, 2.29 yield; 745 sx 50/50 POZ C, 14.2 ppg, 1.30 yield.
Circulated 245 sx to surface.

2/26/08 Released rig.

2/28/08 Perforated from 7915' to 8650', 0.42", 32 holes.

2/29/08 Frac w/ 148 bbls 15% HCL acid, 498 bbls 15 lb XL gel, 79501 lbs 100 mesh sand, 75181 lbs 30/70 sand, 31106 lbs 20/40 sand, 6209 bbls load water.

Perforated from 6910' to 7670', 0.42", 32 holes.

Frac w/ 142 bbls 15% HCL acid, 502 bbls 15 lb XL gel, 90511 lbs 100 mesh sand, 75437 lbs 30/70 sand, 29881 lbs 20/40 sand, 6264 bbls load water.

3/01/08 Perforated from 5965' to 6690', 0.42", 32 holes.

Frac w/ 140 bbls 15% HCL acid, 570 bbls 15 lb XL gel, 88633 lbs 100 mesh sand, 76873 lbs 30/70 sand, 28566 lbs 20/40 sand, 6407 bbls load water.

Perforated from 5000' to 5710', 0.42", 32 holes.

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

Stan Wagner

Title

Regulatory Analyst

Signature

Date 3/04/08

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.

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Lilano 1 Fed 2H

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☐ Alter Casing

☐ Casing Repair

☐ Change Plans

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☐ 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.)

3/01/08 Frac w/ 167 bbls 15% HCL acid, 894 bbls 15 lb XL gel, 58423 lbs 100 mesh sand, 53267 lbs 30/70 sand, 40000 lbs 20/40 sand, 5737 bbls load water. Flowback.

3/03/08 RIH w/ 2-3/8" production tubing set at 5351'.

3/05/08 Turned to sales.

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

Stan Wagner

Title

Regulatory Analyst

Signature

Date **3/05/08**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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EOG Resources, Inc.

Thames

Llano 1 Fed #2H

Llano 1 Fed #2H

Original Hole

Survey: Gyro Survey

Pathfinder Standard X & Y Report

28 February, 2008

WHS

Pathfinder Standard X & Y Report

Company: EOG Resources, Inc.
Project: Thames
Site: Llano 1 Fed #2H
Well: Llano 1 Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Llano 1 Fed #2H
TVD Reference: WELL @ 3879.01ft (Original Well Elev)
MD Reference: WELL @ 3879.01ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project	Thames		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Llano 1 Fed #2H		
Site Position:		Northing:	647,382.600 ft
From:	Map	Easting:	406,529.600 ft
Position Uncertainty:	0 00 ft	Slot Radius:	"
		Latitude:	32° 46' 45.757 N
		Longitude:	104° 38' 14.841 W
		Grid Convergence:	-0.16 °

Well	Llano 1 Fed #2H		
Well Position	+N/-S	0 00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 46' 45 757 N
		Longitude:	104° 38' 14 841 W
		Ground Level:	3,860 00 ft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	2/18/2008	(°)
			8.50
		Dip Angle	(°)
		60.60	
		Field Strength	(nT)
			49,178

Design	Original Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0 00	0.00
		Direction	(°)
			269.03

WHS

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MD Reference: WELL @ 3879.01ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey Program		Date 2/28/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	4,200.00	Gyro Survey (Original Hole)	CB-GYRO-MS	Camera based gyro multishot	
4,237.00	8,742.00	MWD (Original Hole)	MWD	MWD - Standard	

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
0.00	0.00	0.00	0.00	-3,879.01	0.00	0.00	0.00	0.00	0.00
100.00	0.41	125.71	100.00	-3,779.01	-0.21	0.29	-0.29	0.41	125.71
200.00	0.52	150.80	200.00	-3,679.01	-0.81	0.80	-0.79	0.23	74.55
300.00	0.50	123.20	299.99	-3,579.02	-1.45	1.39	-1.36	0.24	-108.36
400.00	0.63	143.37	399.99	-3,479.02	-2.13	2.08	-2.05	0.24	67.19
500.00	0.58	124.28	499.98	-3,379.03	-2.86	2.83	-2.78	0.21	-113.35
600.00	0.51	139.15	599.98	-3,279.03	-3.48	3.54	-3.48	0.16	123.64
700.00	0.51	143.09	699.97	-3,179.04	-4.17	4.10	-4.02	0.04	91.97
800.00	0.33	143.63	799.97	-3,079.04	-4.76	4.53	-4.45	0.18	179.01
900.00	0.47	164.20	899.97	-2,979.04	-5.38	4.82	-4.72	0.20	56.32
1,000.00	0.42	199.50	999.97	-2,879.04	-6.12	4.81	-4.70	0.27	117.66
1,100.00	0.29	185.80	1,099.96	-2,779.05	-6.72	4.66	-4.54	0.15	-153.58
1,200.00	0.39	208.11	1,199.96	-2,679.05	-7.27	4.47	-4.35	0.16	64.44
1,300.00	0.23	194.70	1,299.96	-2,579.05	-7.77	4.26	-4.13	0.17	-162.21
1,400.00	0.27	238.99	1,399.96	-2,479.05	-8.08	4.01	-3.87	0.19	101.02
1,500.00	0.31	240.74	1,499.96	-2,379.05	-8.34	3.57	-3.43	0.04	13.36
1,600.00	0.41	224.84	1,599.96	-2,279.05	-8.72	3.08	-2.93	0.14	-53.11
1,700.00	0.56	260.05	1,699.95	-2,179.06	-9.06	2.35	-2.19	0.33	81.62
1,800.00	0.69	263.66	1,799.95	-2,079.06	-9.21	1.27	-1.11	0.14	18.66
1,900.00	0.72	263.60	1,899.94	-1,979.07	-9.35	0.05	0.11	0.03	-1.44
2,000.00	0.63	259.71	1,999.93	-1,879.08	-9.52	-1.12	1.28	0.10	-154.95

WHS

Pathfinder Standard X & Y Report

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Project: Thames
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Well: Llano 1 Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Llano 1 Fed #2H
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MD Reference: WELL @ 3879.01ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
2,100.00	0.49	259.82	2,099.93	-1,779.08	-9.69	-2.08	2.25	0.14	179.62
2,200.00	0.60	264.14	2,199.92	-1,679.09	-9.82	-3.02	3.19	0.12	22.65
2,300.00	0.67	261.36	2,299.92	-1,579.09	-9.96	-4.12	4.29	0.08	-25.15
2,400.00	0.55	246.89	2,399.91	-1,479.10	-10.24	-5.14	5.31	0.19	-135.00
2,500.00	0.35	253.50	2,499.91	-1,379.10	-10.51	-5.88	6.05	0.21	168.74
2,600.00	0.20	233.14	2,599.91	-1,279.10	-10.70	-6.31	6.49	0.18	-156.82
2,700.00	0.16	152.27	2,699.91	-1,179.10	-10.93	-6.38	6.57	0.24	-137.86
2,800.00	0.18	187.66	2,799.91	-1,079.10	-11.21	-6.34	6.53	0.11	97.25
2,900.00	0.14	157.73	2,899.91	-979.10	-11.48	-6.31	6.51	0.09	-130.03
3,000.00	0.32	120.97	2,999.90	-879.11	-11.74	-6.03	6.23	0.22	-58.72
3,100.00	0.40	86.77	3,099.90	-779.11	-11.86	-5.44	5.64	0.23	-87.24
3,200.00	0.20	61.13	3,199.90	-679.11	-11.76	-4.94	5.14	0.24	-158.50
3,300.00	0.42	80.92	3,299.90	-579.11	-11.61	-4.42	4.62	0.24	36.07
3,400.00	0.27	65.37	3,399.90	-479.11	-11.46	-3.85	4.04	0.18	-155.64
3,500.00	0.46	85.98	3,499.90	-379.11	-11.33	-3.23	3.42	0.23	45.24
3,600.00	0.50	76.16	3,599.89	-279.12	-11.20	-2.41	2.60	0.09	-69.03
3,700.00	0.63	66.59	3,699.89	-179.12	-10.88	-1.48	1.67	0.16	-40.82
3,800.00	0.49	59.96	3,799.88	-79.13	-10.44	-0.61	0.78	0.15	-158.45
3,900.00	0.58	65.02	3,899.88	20.87	-10.02	0.22	-0.05	0.10	30.24
4,000.00	1.22	59.56	3,999.87	120.86	-9.26	1.60	-1.44	0.64	-10.37
4,100.00	2.01	64.71	4,099.83	220.82	-7.97	4.10	-3.97	0.80	12.99
4,200.00	2.83	62.67	4,199.74	320.73	-6.09	7.88	-7.78	0.82	-7.02
4,300.00	2.95	60.69	4,299.61	420.60	-3.70	12.32	-12.25	0.16	-40.75
4,400.00	2.97	59.68	4,399.47	520.46	-1.13	16.80	-16.78	0.06	-69.52
4,500.00	2.96	62.09	4,499.34	620.33	1.38	21.32	-21.34	0.13	95.79
4,600.00	2.88	59.98	4,599.21	720.20	3.85	25.77	-25.83	0.13	-127.71
4,700.00	2.70	58.64	4,699.09	820.08	6.33	29.96	-30.06	0.19	-160.75

WHS

Pathfinder Standard X & Y Report

Company: EOG Resources, Inc.
Project: Thames
Site: Llano 1 Fed #2H
Well: Llano 1 Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Llano 1 Fed #2H
TVD Reference: WELL @ 3879.01ft (Original Well Elev)
MD Reference: WELL @ 3879.01ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
4,800.00	2.53	61.36	4,798.99	919.98	8.62	33.91	-34.05	0.21	145.22
4,900.00	2.44	51.55	4,898.90	1,019.89	11.00	37.51	-37.69	0.43	-106.82
4,925.00	2.74	50.21	4,923.87	1,044.86	11.71	38.39	-38.58	1.22	-12.08

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL - survey misses by 4284.70ft at 4456.16ft MD (4455.56 TVD, 0.31 N, 19.32 E) - Point	0.00	360.00	4,651.00	-72.20	-4,260.30	647,310.400	402,269.300	32° 46' 44.919 N	104° 39' 4.740 W

Checked By: _____ Approved By: _____ Date: _____

EOG Resources, Inc.

Thames

Llano 1 Fed #2H

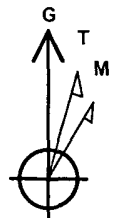
Llano 1 Fed #2H

Original Hole

Survey: MWD

Pathfinder Standard X & Y Report

28 February, 2008



Azimuths to Grid North
 True North: 0.16°
 Magnetic North: 8.66°
 Magnetic Field
 Strength: 49178.3snT
 Dip Angle: 60.60°
 Date: 2/18/2008
 Model: IGRF200510

Project: Thames
 Site: Llano 1 Fed #2H
 Well: Llano 1 Fed #2H
 Wellbore: Original Hole
 Plan: Plan #2 (Llano 1 Fed #2H/Original Hole)

PATHFINDER

ENERGY SERVICES

PROJECT DETAILS: Thames
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001

System Datum: Mean Sea Level
 Local North: Grid

WELL DETAILS: Llano 1 Fed #2H

Ground Elevation: 3860.00
 RKB Elevation: WELL @ 3879.01ft (Original Well Elev)
 Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	647382.600	406529.600	32° 46' 45.757 N	104° 38' 14.841 W	

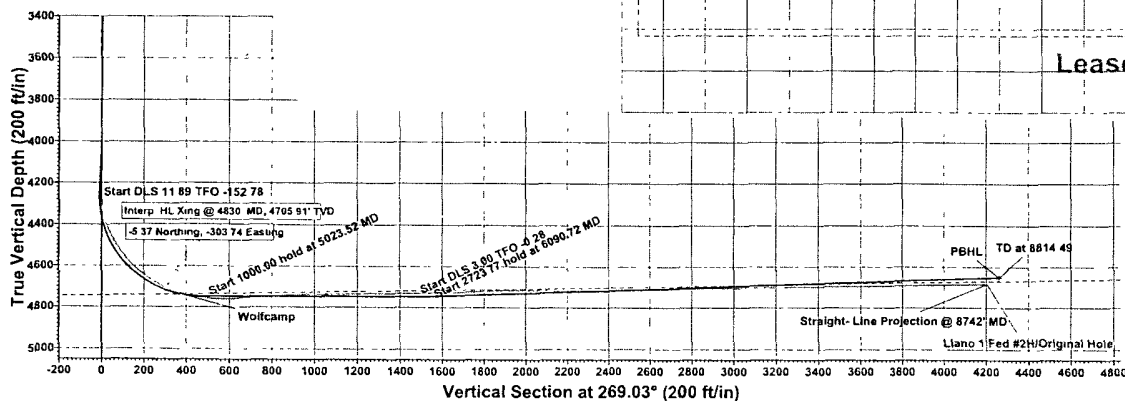
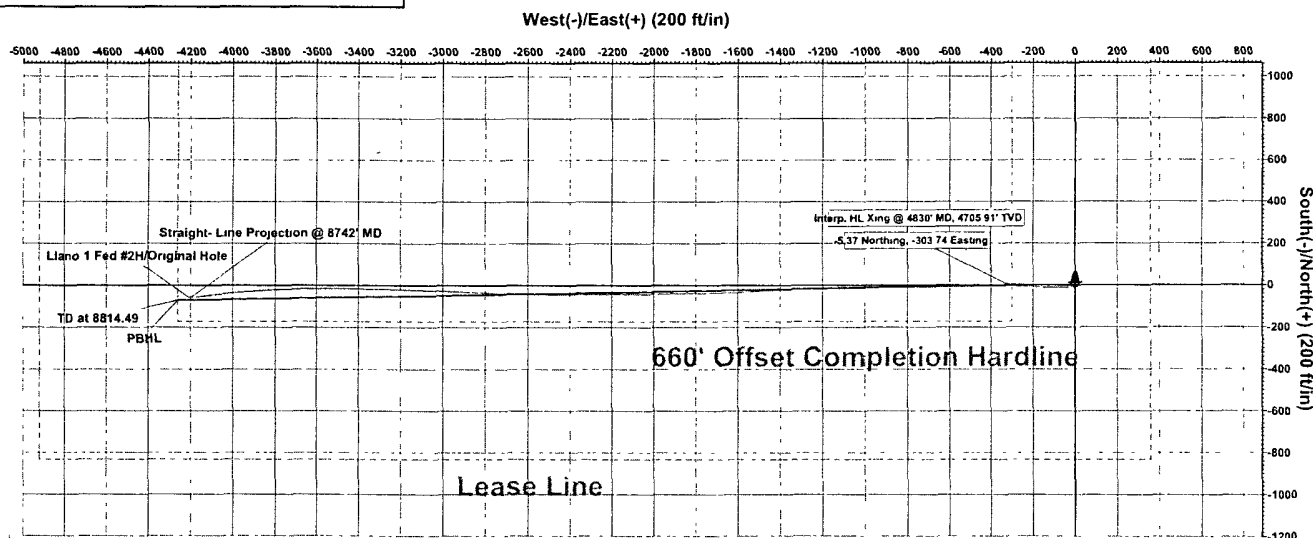
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	4245.00	2.88	61.76	4244.68	-5.05	9.87	0.00	0.00	-9.78	
2	5023.52	90.00	268.95	4748.00	-2.28	-471.67	11.89	-152.78	471.64	
3	6023.52	90.00	268.95	4748.00	-20.61	-1471.50	0.00	0.00	1471.64	
4	6090.72	92.02	268.94	4746.82	-21.85	-1538.68	3.00	-0.28	1538.83	
5	8814.49	92.02	268.94	4651.00	-72.20	-4260.30	0.00	0.00	4260.91	PBHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	4651.00	-72.20	-4260.30	647310.400	402269.300	Point

EOW



FORMATION TOP DETAILS
 TVDPath MDPath Formation
 4737.51 4922.80 Wolfcamp

Plan: Plan #2 (Llano 1 Fed #2H/Original Hole)

Created By: Mark Freeman Date: 10/27, February 28, 2008
 Checked: _____ Date: _____

WHS

Pathfinder Standard X & Y Report

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Project: Thames
Site: Llano 1 Fed #2H
Well: Llano 1 Fed #2H
Wellbore: Original Hole
Design: Original Hole

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Project	Thames
Map System:	US State Plane 1927 (Exact solution)
Geo Datum:	NAD 1927 (NADCON CONUS)
Map Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

Site		Llano 1 Fed #2H			
Site Position:		Northing:	647,382.600 ft	Latitude:	32° 46' 45.757 N
From:	Map	Easting:	406,529.600 ft	Longitude:	104° 38' 14.841 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0 16 °

Well	Llano 1 Fed #2H					
Well Position	+N/-S	0.00 ft	Northing:	647,382.600 ft	Latitude:	32° 46' 45.757 N
	+E/-W	0.00 ft	Easting:	406,529.600 ft	Longitude:	104° 38' 14.841 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,860.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	2/18/2008	8.50	60.60	49,178

Design	Original Hole			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	269.03

WHS

Pathfinder Standard X & Y Report

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Project: Thames
Site: Llano 1 Fed #2H
Well: Llano 1 Fed #2H
Wellbore: Original Hole
Design: Original Hole

Local Co-ordinate Reference: Well Llano 1 Fed #2H
TVD Reference: WELL @ 3879.01ft (Original Well Elev)
MD Reference: WELL @ 3879.01ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey Program		Date 2/28/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	4,200.00	Gyro Survey (Original Hole)	CB-GYRO-MS	Camera based gyro multishot
4,237.00	8,742.00	MWD (Original Hole)	MWD	MWD - Standard

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
4,200.00	2.83	62.67	4,199.74	320.73	-6.09	7.88	-7.78	0.00	0.00
4,237.00	0.97	316.42	4,236.72	357.71	-5.45	8.48	-8.38	8.75	-163.28
4,268.00	4.13	259.77	4,267.69	388.68	-5.45	7.20	-7.10	11.89	-69.33
4,300.00	8.18	256.50	4,299.50	420.49	-6.19	3.85	-3.74	12.70	-6.58
4,332.00	12.57	258.49	4,330.97	451.96	-7.42	-1.78	1.91	13.76	5.65
4,364.00	16.88	260.76	4,361.91	482.90	-8.86	-9.78	9.93	13.59	8.73
4,395.00	20.49	263.54	4,391.27	512.26	-10.19	-19.62	19.79	11.99	15.18
4,427.00	23.48	266.32	4,420.94	541.93	-11.23	-31.55	31.73	9.89	20.49
4,459.00	26.29	268.31	4,449.97	570.96	-11.85	-45.00	45.19	9.16	17.50
4,491.00	29.81	269.70	4,478.20	599.19	-12.10	-60.04	60.24	11.19	11.14
4,522.00	32.89	270.30	4,504.68	625.67	-12.10	-76.17	76.36	9.99	6.04
4,554.00	35.88	270.39	4,531.08	652.07	-11.99	-94.24	94.42	9.35	1.01
4,586.00	39.04	270.90	4,556.48	677.47	-11.77	-113.69	113.88	9.92	5.81
4,618.00	42.12	271.69	4,580.78	701.77	-11.29	-134.50	134.67	9.76	9.77
4,649.00	45.64	271.82	4,603.12	724.11	-10.63	-155.98	156.13	11.36	1.51
4,681.00	48.72	271.95	4,624.87	745.86	-9.86	-179.43	179.57	9.63	1.82
4,713.00	52.23	271.94	4,645.23	766.22	-9.02	-204.10	204.22	10.97	-0.13
4,744.00	55.31	272.08	4,663.55	784.54	-8.14	-229.09	229.19	9.94	2.14
4,776.00	59.18	272.13	4,680.86	801.85	-7.16	-255.97	256.06	12.09	0.64
4,808.00	62.78	272.32	4,696.38	817.37	-6.07	-283.93	283.99	11.26	2.69

WHS

Pathfinder Standard X & Y Report

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Project: Thames
Site: Llano 1 Fed #2H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
4,830.00	65.87	271.70	4,705.91	826.90	-5.37	-303.74	303.79	14.26	-10.38
Interp. HL Xing @ 4830' MD, 4705.91' TVD - -5.37 Northing, -303.74 Easting									
4,840.00	67.27	271.43	4,709.89	830.88	-5.12	-312.91	312.96	14.26	-10.11
4,872.00	70.96	269.98	4,721.30	842.29	-4.76	-342.80	342.84	12.28	-20.42
4,903.00	73.42	269.39	4,730.78	851.77	-4.92	-372.32	372.35	8.14	-12.95
4,935.00	75.89	269.55	4,739.24	860.23	-5.21	-403.17	403.20	7.73	3.60
4,967.00	78.79	268.89	4,746.26	867.25	-5.64	-434.39	434.42	9.28	-12.59
4,999.00	80.37	269.41	4,752.04	873.03	-6.10	-465.85	465.89	5.19	17.98
5,030.00	83.19	268.98	4,756.48	877.47	-6.53	-496.53	496.57	9.20	-8.61
5,062.00	85.82	269.18	4,759.54	880.53	-7.04	-528.38	528.42	8.24	4.34
5,094.00	89.16	269.46	4,760.94	881.93	-7.42	-560.34	560.38	10.47	4.79
5,126.00	91.98	269.42	4,760.62	881.61	-7.74	-592.33	592.38	8.81	-0.81
5,157.00	94.26	269.53	4,758.94	879.93	-8.02	-623.28	623.33	7.36	2.76
5,189.00	94.35	269.43	4,756.53	877.52	-8.31	-655.19	655.24	0.42	-47.93
5,284.00	93.65	269.51	4,749.91	870.90	-9.19	-749.95	750.00	0.74	173.49
5,380.00	94.09	270.06	4,743.43	864.42	-9.55	-845.73	845.77	0.73	51.26
5,475.00	92.33	269.91	4,738.11	859.10	-9.57	-940.58	940.61	1.86	-175.13
5,570.00	89.16	267.96	4,736.87	857.86	-11.34	-1,035.54	1,035.58	3.92	-148.39
5,665.00	91.28	269.26	4,736.51	857.50	-13.64	-1,130.50	1,130.57	2.62	31.52
5,760.00	90.57	268.75	4,734.97	855.96	-15.29	-1,225.48	1,225.56	0.92	-144.31
5,856.00	90.75	267.53	4,733.87	854.86	-18.41	-1,321.42	1,321.54	1.28	-81.60
5,951.00	90.75	266.46	4,732.63	853.62	-23.39	-1,416.28	1,416.47	1.13	-89.99
6,046.00	91.54	266.16	4,730.73	851.72	-29.50	-1,511.06	1,511.34	0.89	-20.79
6,142.00	90.92	267.72	4,728.67	849.66	-34.62	-1,606.90	1,607.25	1.75	111.66
6,236.00	93.03	269.43	4,725.43	846.42	-36.96	-1,700.80	1,701.19	2.89	38.98
6,332.00	92.77	269.08	4,720.57	841.56	-38.21	-1,796.67	1,797.06	0.45	-126.63
6,428.00	91.98	268.70	4,716.59	837.58	-40.06	-1,892.57	1,892.98	0.91	-154.32

WHS

Pathfinder Standard X & Y Report

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Site: Llano 1 Fed #2H
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Local Co-ordinate Reference: Well Llano 1 Fed #2H
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Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	TFace (°)
6,524.00	89.25	269.22	4,715.56	836.55	-41.81	-1,988.54	1,988.96	2.89	169.21
6,620.00	90.48	269.77	4,715.79	836.78	-42.65	-2,084.54	2,084.96	1.40	24.09
6,714.00	89.69	269.33	4,715.65	836.64	-43.39	-2,178.53	2,178.95	0.96	-150.88
6,811.00	89.78	269.71	4,716.10	837.09	-44.20	-2,275.53	2,275.95	0.40	76.68
6,905.00	89.16	269.58	4,716.97	837.96	-44.78	-2,369.52	2,369.94	0.67	-168.16
7,000.00	91.71	270.92	4,716.24	837.23	-44.37	-2,464.51	2,464.90	3.03	27.72
7,096.00	92.77	271.31	4,712.49	833.48	-42.50	-2,560.41	2,560.77	1.18	20.18
7,193.00	91.45	271.70	4,708.92	829.91	-39.96	-2,657.31	2,657.61	1.42	163.54
7,289.00	90.92	272.08	4,706.94	827.93	-36.79	-2,753.24	2,753.47	0.68	144.36
7,385.00	90.22	271.95	4,705.98	826.97	-33.42	-2,849.17	2,849.33	0.74	-169.48
7,481.00	89.69	272.20	4,706.06	827.05	-29.94	-2,945.11	2,945.20	0.61	154.75
7,577.00	91.98	272.47	4,704.66	825.65	-26.03	-3,041.01	3,041.02	2.40	6.72
7,673.00	91.19	271.07	4,702.00	822.99	-23.07	-3,136.93	3,136.87	1.67	-119.42
7,769.00	91.54	272.15	4,699.72	820.71	-20.37	-3,232.86	3,232.74	1.18	72.03
7,866.00	90.31	270.06	4,698.15	819.14	-18.50	-3,329.82	3,329.66	2.50	-120.46
7,961.00	90.75	271.67	4,697.27	818.26	-17.07	-3,424.81	3,424.60	1.76	74.71
8,057.00	90.84	269.43	4,695.94	816.93	-16.15	-3,520.79	3,520.55	2.33	-87.68
8,152.00	90.57	269.48	4,694.77	815.76	-17.05	-3,615.77	3,615.54	0.29	169.51
8,248.00	91.01	268.53	4,693.45	814.44	-18.72	-3,711.75	3,711.53	1.09	-65.14
8,344.00	91.28	266.84	4,691.53	812.52	-22.59	-3,807.65	3,807.49	1.78	-80.90
8,441.00	91.45	265.76	4,689.22	810.21	-28.85	-3,904.42	3,904.35	1.13	-81.04
8,537.00	90.84	264.79	4,687.30	808.29	-36.76	-4,000.07	4,000.12	1.19	-122.16
8,633.00	90.92	262.74	4,685.82	806.81	-47.18	-4,095.49	4,095.70	2.14	-87.75
8,665.00	91.45	262.18	4,685.16	806.15	-51.38	-4,127.20	4,127.48	2.41	-46.56
8,742.00	91.45	262.18	4,683.21	804.20	-61.85	-4,203.46	4,203.91	0.00	0.00

Straight- Line Projection @ 8742' MD

WHS

Pathfinder Standard X & Y Report

Company: EOG Resources, Inc.
Project: Thames
Site: Llano 1 Fed #2H
Well: Llano 1 Fed #2H
Wellbore: Original Hole
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 16 Single User Db

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL	0.00	360.00	4,651.00	-72.20	-4,260.30	647,310.400	402,269.300	32° 46' 44.919 N	104° 39' 4.740 W
- survey misses by 66.15ft at 8742.00ft MD (4683.21 TVD, -61.85 N, -4203.46 E)									
- Point									

Survey Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
4,830.00	4,705.91	-5.37	-303.74	Interp. HL Xing @ 4830' MD, 4705.91' TVD
4,830.00	4,705.91	-5.37	-303.74	-5.37 Northing, -303 74 Easting
8,742.00	4,683.21	-61.85	-4,203.46	Straight- Line Projection @ 8742' MD

Checked By: _____ Approved By: _____ Date: _____

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
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36060	Pool Code 97512	Pool Name Rio Penasco; Wolfcamp
Property Code 36958	Property Name LLANO 1 FED.	Well Number 2H
OGRID No. 1377	Operator Name EOG RESOURCES, INC.	Elevation 3860'

Surface Location

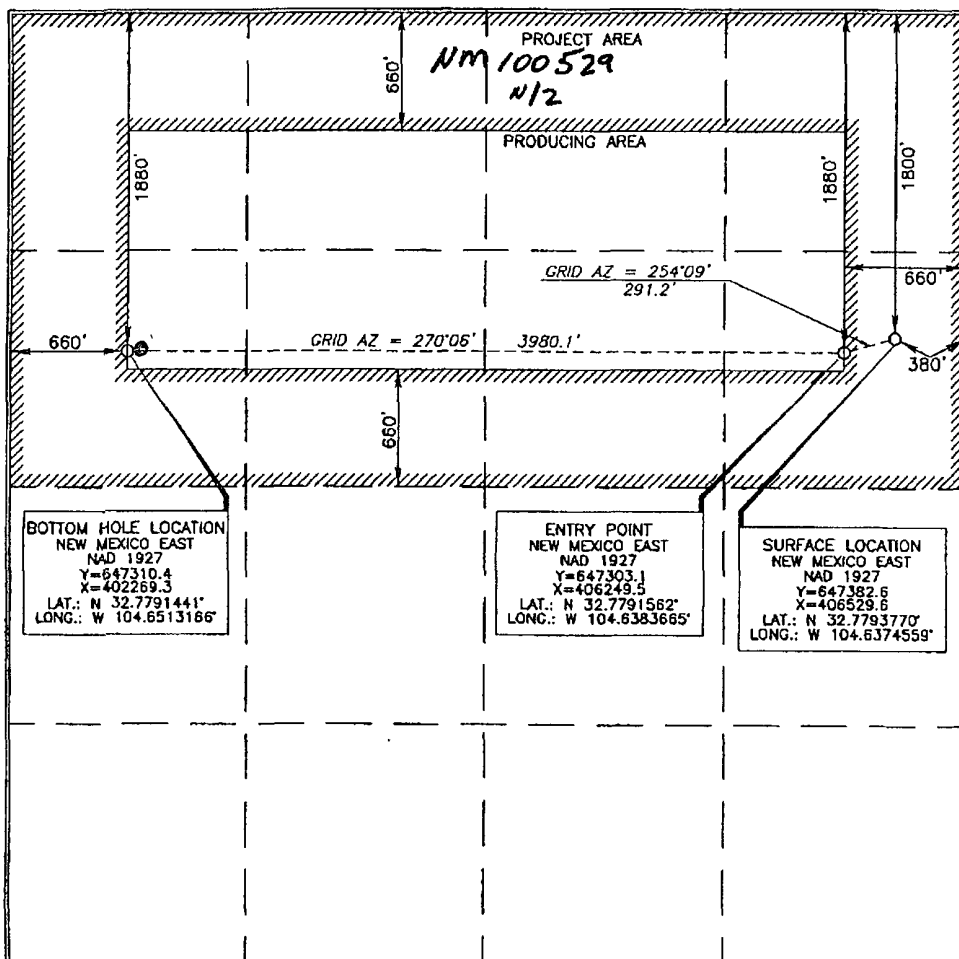
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	1	18 SOUTH	23 EAST, N.M.P.M.		1800'	NORTH	380'	EAST	EDDY

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
E	1	18 SOUTH	23 EAST, N.M.P.M.		1861	NORTH	696	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.

Don D. Mott 8/16/2007
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 belief.

June 14, 2007
Date of Survey

Signature and Seal of Professional Surveyor

Ferry J. Asel 8/10/2007
Certificate Number 15079

WO# 070614WL-c (JL)