

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

S

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion. ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr.
Other

2. Name of Operator

EOG Resources Inc.

3. Address

P.O. Box 2267 Midland, Texas 79702

3a. Phone No. (include area code)

432 686 3689

4. Location of Well (Report location clearly and in accordance with Federal requirements)

At surface 1800 FNL & 380 FEL, U/L H

At top prod. interval reported below

At total depth 1861 FNL & 696 FWL, U/L E

14. Date Spudded

2/11/08

15. Date T.D. Reached

2/25/08

16. Date Completed

☐ D & A

☒ Ready to Prod.

3/5/08

18. Total Depth. MD

8742

TVD

4683

19. Plug Back T.D.: MD

8678

TVD

20. Depth Bridge Plug Set: MD

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt (#ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sk. & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
12-1/4	8-5/8	32		1330		945 C, 100 H		surface	
7-7/8	5-1/2	17		8723		1375 POZ C		surface	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Wolfcamp	4744		5000 - 8650	0.42"	128	Producing
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5000 - 8650	Frac w/ 28098 gal 15% HCL acid, 103488 gals 15 # XL gel, 317068 lbs 100 mesh sand, 280758 lbs 30/70 sand, 129553 lbs 20/40 sand, 945756 gals slick water.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
3/5/08	3/18/08	24	→	0	1728	78			Flowing
Choke Size	Tbg Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
38/64	340	620	→					PGW	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

ACCEPTED FOR RECORD
MAR 22 2008
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas Depth
				Glorieta	1695'
				Tubb	3004'
				Abo Shale	3662'
				Abo Carbonate	3824'
				Wolfcamp	4744'

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Stan WagnerTitle Regulatory AnalystSignature Date 3/18/08

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.



EOG Resources, Inc.
4000 North Big Spring, Suite 500
Midland, TX 79705
(915) 686-3600

March 18, 2008

State of New Mexico
Oil Conservation Division
1301 W. Grand Avenue
Artesia, New Mexico 88210

MAR 19 2008
OCD-ARTESIA

Re: Confidentiality Request
Llano 1 Fed 2H

Enclosed please find logs and completion papers for our Llano 1 Fed 2H.
EOG Resources, Inc. respectfully requests confidentiality for the logs and completion papers on this well.

Thank you for your consideration of this request.

Sincerely,

EOG Resources, Inc.

A handwritten signature in black ink, appearing to read "Stan Wagner", written over a horizontal line.

Stan Wagner
Regulatory Analyst
432 686 3689

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-402
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

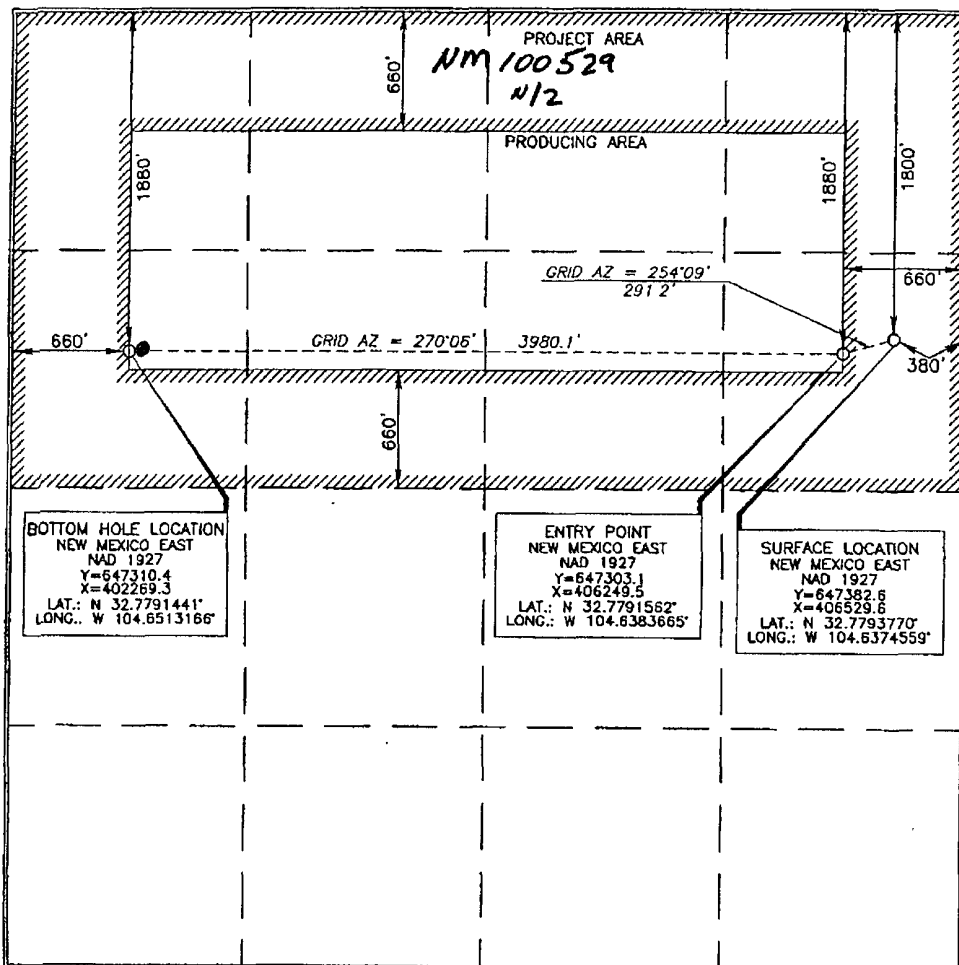
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	1	18 SOUTH	23 EAST, N.M.P.M.		1800'	NORTH	380'	EAST	EDDY

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.
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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. Muth 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 of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Terry J. Ouel 8/10/2007
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Ouel 8/10/2007
Certificate Number 15079

WO# 070614WL-c (4)

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	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

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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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Well: Llano 1 Fed #2H
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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

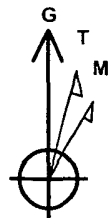
Llano 1 Fed #2H

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)



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	

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: Gnd

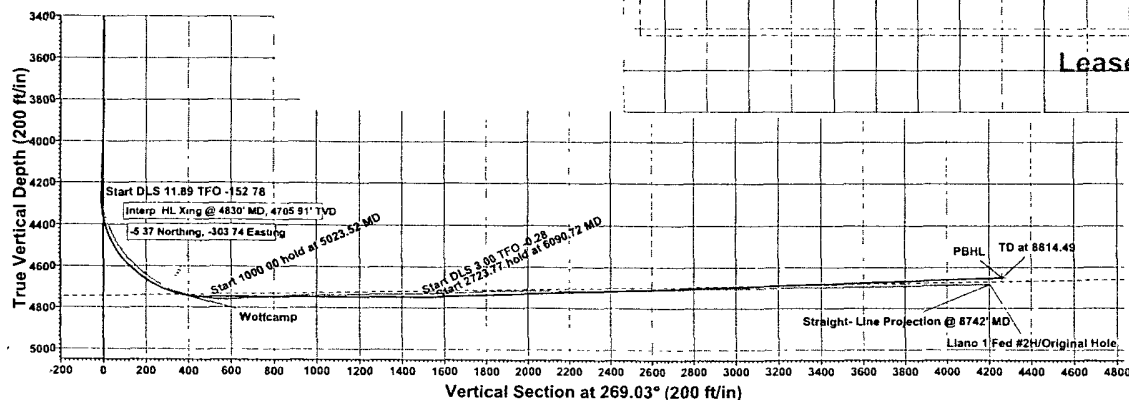
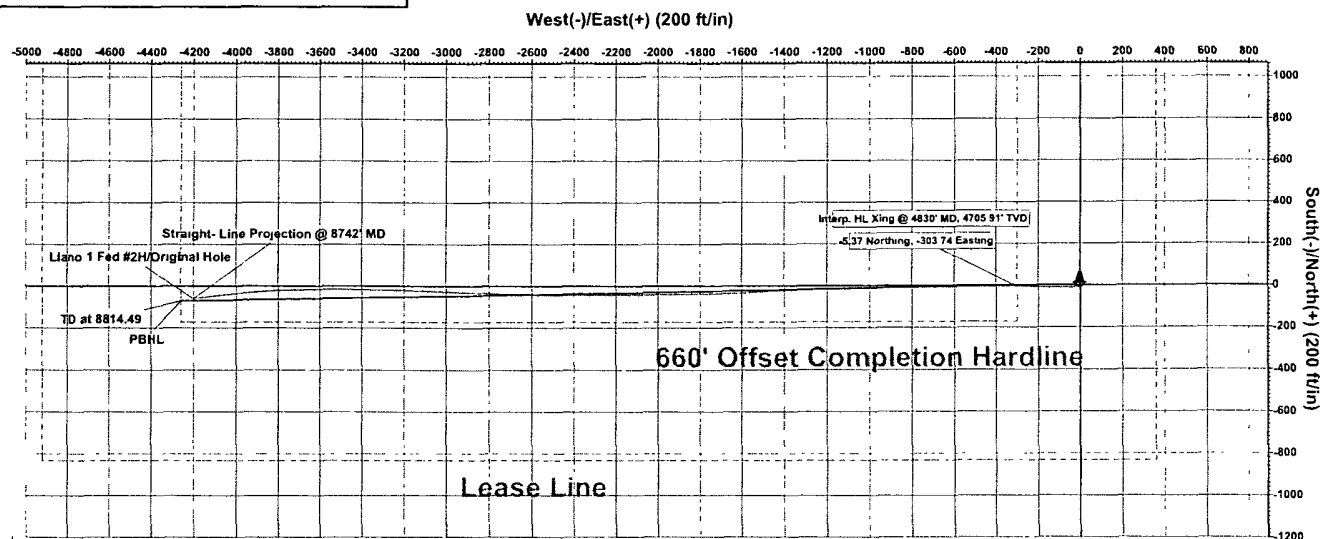
SECTION DETAILS

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 Woffcamp

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

Created By: Mark Freeman Date: 10.27, February 26 2008

Checked: _____ Date: _____

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

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Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

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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:		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

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 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

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 (°)	
4,830.00	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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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 (°)
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
Design: Original Hole

Local Co-ordinate Reference: Well Llano 1 Fed #2H
TVD Reference: WELL @ 3879.01ft (Original Well Elev)
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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: _____