

AUG 13 2007

OCD-ARTESIA

FORM APPROVED
OMB No 1004-0137
Expires: March 31, 2007

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 ☐ Other2. Name of Operator **EOG RESOURCES, INC.**3a. Address
P.O. Box 2267 Midland, Texas 797023b. Phone No. (include area code)
432 686 3642

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

480' FSL & 2180' FEL of Section 23, T17S-R30E, N.M.P.M. (SHL)**936' FSL & 1895' FEL 1 Sec. 23, T17S-R30E, N.M.P.M. (BHL)**

5. Lease Serial No

LC028992E(SHL);NM2748;LC029338A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Oak Lake 23 Fed Com 1

9. API Well No.

30-015-34508

10. Field and Pool, or Exploratory Area

Cedar Lake Morrow

11. County or Parish, State

Eddy

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change Bottomhole
	☒ 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 must 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 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

EOG Resources, Inc. ("EOG") proposes to amend the APD as follows:

1. Change bottom hole to: 936' FSL & 1895' FEL of Section 23, T17S-R30E, N.M.P.M., Eddy County, NM
2. Revise Casing, Cement and Mud Program as described by enclosed documents.
3. Revise drilling plan as described by enclosed documents.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)**Donny G. Glanton**Title **Senior Lease Operations ROW Representative**

Signature

Donny G. Glanton

Date

07/23/2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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.

Title

Date

Office

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

(Instructions on page 2)

APPROVED
AUG 1 2007
FREDERICK WRIGHT
PETROLEUM ENGINEER

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this

form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or

present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

BLM would like you to know that you do not have to respond to this or any other Federal agency sponsored information collection unless it displays a currently valid OMB control number.

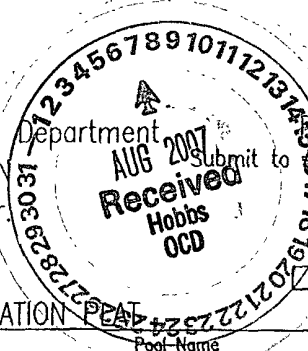
BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington D.C. 20240

(Form 3160-5, page 2)



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

API Number 30-015-34508	Pool Code 74560	Pool Name CEDAR LAKE; MORROW
Property Code 35347	Property Name OAK LAKE 23 FED. COM	Well Number 1
OCRID No. 7377	Operator Name EOG RESOURCES INC.	Elevation 3652'

Surface Location

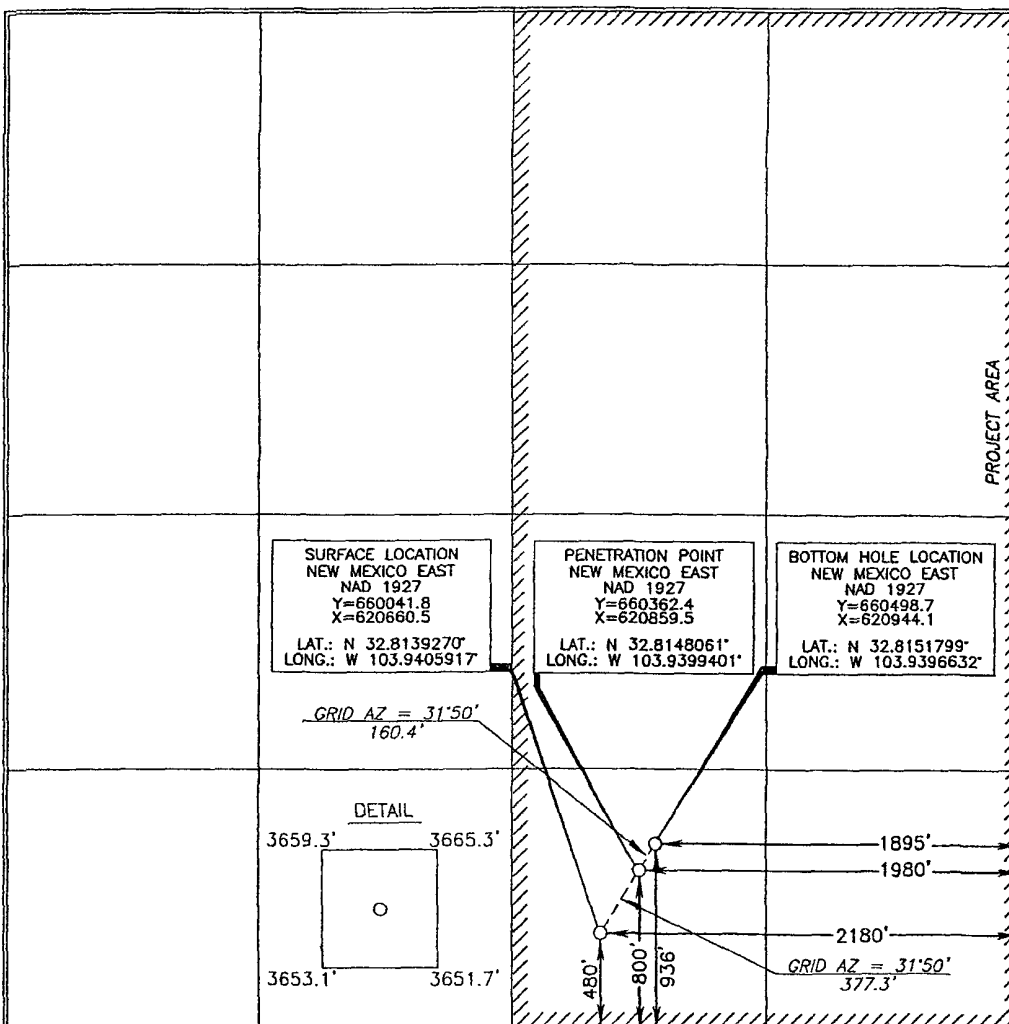
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	23	17 SOUTH	30 EAST, N.M.P.M.		480'	SOUTH	2180'	EAST	EDDY

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
0	23	17 SOUTH	30 EAST, N.M.P.M.		936'	SOUTH	1895'	EAST	EDDY

Dedicated Acres	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.

Donny G. Glanton 7/23/07
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.

15079
DECEMBER 19, 2006
Date of Survey
Signature and Seal of Professional Surveyor
Terry G. Neal 7/20/2007
Certificate Number 15079

Permit Information (Revised 7/19/2007):**Well Name: Oak Lake Fed Com #1****Location:**

SL 480' FSL & 2180' FEL, Section 23, T-17-S, R-30-E, Eddy Co., N.M.

~~BHL 800' FSL & 1980' FEL, Section 23, T-17-S, R-30-E, Eddy Co., N.M. @ 10,200' tvd~~

BHL 936' FSL & 1895' FEL, Section 23, T-17-S, R-30-E, Eddy Co., N.M. @ 11,500' tvd

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	500'	14-3/4"	11-3/4"	42#	H-40	Surface
Intermediate	4,500'	11"	8-5/8"	32#	J-55/ HCK55	Surface
Production	11,533'	7-7/8"	5-1/2"	17#	HCP-110	500' above Shallowest hydrocarbon bearing zone

Cement Program:

Depth	No. Sacks	Slurries
500'	100	Lead: 10:2 RFC Class A + 5 pps D24 + 1/8 pps D130 (14.2 ppg / 2.26 yld)
	300	Tail: Class C + 2% CaCl ₂ (14.8 ppg / 1.34 yld)
4,500'	900	Lead: 50:50 Poz:C + 5% Salt + 1/8 pps D130 (11.9ppg / 2.47 yld)
	200	Tail: Class C + 1/8 pps D130 (14.8 ppg / 1.33 yld)
11,533'	700	Lead: 50:50 Poz:H + additives (11.9 ppg / 2.39 yld)
	375	Tail: TXI Lightweight + 1.3% Salt + 1.5 gps D600G + 2% D174 (13.0 ppg / 1.44 yld)

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 500'	Fresh - Gel	8.4 – 9.0	28-34	N/c
500' – 4,500'	Brine	9.8 – 10.2	28-30	N/c
4,500' - 10,000'	Cut Brine	8.8- 9.1	28-30	N/c
10,000' – 11,533'	Cut Brine-Polymer	8.6- 9.6	35-40	<12



Pathfinder Energy Planning Report

Company: EOG Resources				Date: 07/23/2007	Time: 10:46:30	Page: 1
Field: Oak Lake				Co-ordinate(N/E) Reference: Site: Oak Lake 23 Fed Com #1, Grid North		
Site: Oak Lake 23 Fed Com #1				Vertical (TVD) Reference: SITE 0.0		
Well: Oak Lake 23 Fed Com #1				Section (VS) Reference: Well (0.00N,0.00E,31.83Azi)		
Wellpath: Original				Plan: Plan #5 7-23-07		

Field: Oak Lake Eddy County, NM			
Map System: US State Plane Coordinate System 1927		Map Zone: New Mexico, Eastern Zone	
Geo Datum: NAD27 (Clarke 1866)		Coordinate System: Site Centre	
Sys Datum: Mean Sea Level		Geomagnetic Model: igrf2005	

Site: Oak Lake 23 Fed Com #1 Eddy County, NM Section 23, T17-S, R30-E			
Site Position:	Northing: 660041.80 ft	Latitude: 32 48 50.137 N	
From: Map	Easting: 620660.50 ft	Longitude: 103 56 26.130 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 3652.00 ft		Grid Convergence: 0.21 deg	

Well: Oak Lake 23 Fed Com #1				Slot Name:			
Well Position:	+N/-S 0.00 ft	Northing: 660041.80 ft	Latitude: 32 48 50.137 N				
	+E/-W 0.00 ft	Easting : 620660.50 ft	Longitude: 103 56 26 130 W				
Position Uncertainty:	0.00 ft						

Wellpath: Original				Drilled From: Surface			
				Tie-on Depth: 0.00 ft			
Current Datum: SITE		Height 0.00 ft		Above System Datum: Mean Sea Level			
Magnetic Data: 07/05/2007				Declination: 8.26 deg			
Field Strength: 49373 nT				Mag Dip Angle: 60.78 deg			
Vertical Section: Depth From (TVD)	+N/-S			+E/-W Direction			
ft	ft			deg			
0.00	0.00			0.00 31.83			

Plan: Plan #5 7-23-07		Date Composed: 07/05/2007	
Principal: No		Version: 1	
		Tied-to: From Surface	

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	32.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6950.00	0.00	32.01	6950.00	0.00	0.00	0.00	0.00	0.00	32.01	
7300.41	7.01	31.83	7299.53	18.18	11 29	2.00	2.00	-0.05	31.83	
11532.49	7.01	31.83	11500.00	456.90	283.60	0.00	0.00	0.00	0.00	PBHL

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	32.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	32.01	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	32.01	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	32.01	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	32.01	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	32.01	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	32.01	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	32.01	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	32.01	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	32.01	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	32.01	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	32.01	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	32.01	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	32.01	1300.00	0.00						

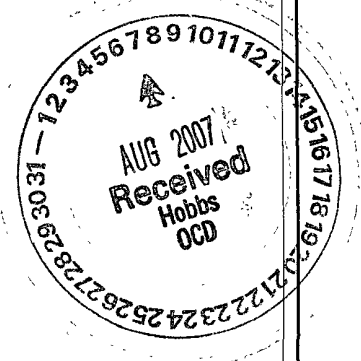
Pathfinder Energy

Planning Report

Company: EOG Resources Field: Oak Lake Site: Oak Lake 23 Fed Com #1 Well: Oak Lake 23 Fed Com #1 Wellpath: Original	Date: 07/23/2007 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Plan:	Time: 10:46:30 Site: Oak Lake 23 Fed Com #1, Grid North SITE 0.0 Well (0.00N,0.00E,31.83Azi) Plan #5 7-23-07	Page: 2
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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
1700.00	0.00	32.01	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	32.01	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	32.01	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	32.01	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	32.01	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	32.01	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	32.01	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	32.01	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	32.01	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	32.01	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	32.01	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	32.01	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	32.01	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	32.01	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	32.01	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	32.01	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	32.01	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	32.01	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	32.01	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	32.01	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	32.01	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	32.01	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	32.01	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	32.01	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	32.01	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	32.01	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	32.01	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	32.01	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	32.01	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4600.00	0.00	32.01	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4700.00	0.00	32.01	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4800.00	0.00	32.01	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	32.01	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	32.01	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	32.01	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	32.01	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	32.01	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	32.01	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	32.01	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	32.01	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5700.00	0.00	32.01	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5800.00	0.00	32.01	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5900.00	0.00	32.01	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	32.01	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6100.00	0.00	32.01	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6200.00	0.00	32.01	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6300.00	0.00	32.01	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6400.00	0.00	32.01	6400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6500.00	0.00	32.01	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6600.00	0.00	32.01	6600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6700.00	0.00	32.01	6700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6800.00	0.00	32.01	6800.00	0.00	0.00	0.00	0.00	0.00	0.00	
6900.00	0.00	32.01	6900.00	0.00	0.00	0.00	0.00	0.00	0.00	



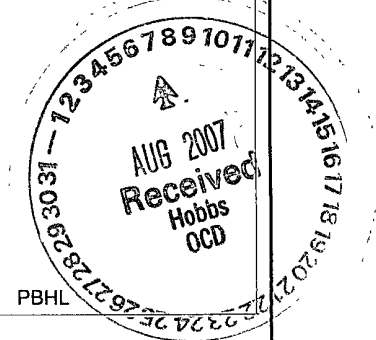
Pathfinder Energy

Planning Report

Company: EOG Resources Field: Oak Lake Site: Oak Lake 23 Fed Com #1 Well: Oak Lake 23 Fed Com #1 Wellpath: Original	Date: 07/23/2007 Co-ordinate(NE) Reference: Site: Oak Lake 23 Fed Com #1, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,31.83Azi) Plan: Plan.#5 7-23-07
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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
6950.00	0.00	32.01	6950.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 6950' MD/TVD, Begin
7000.00	1.00	31.83	7000.00	0.37	0.23	0.44	2.00	2.00	0.00	
7100.00	3.00	31.83	7099.93	3.34	2.07	3.93	2.00	2.00	0.00	
7200.00	5.00	31.83	7199.68	9.26	5.75	10.90	2.00	2.00	0.00	
7300.00	7.00	31.83	7299.13	18.14	11.26	21.35	2.00	2.00	0.00	
7300.41	7.01	31.83	7299.54	18.19	11.29	21.40	1.98	1.98	0.00	EOB @ 7300' MD, 7° INC, H
7400.00	7.01	31.83	7398.38	28.51	17.70	33.55	0.00	0.00	0.00	
7500.00	7.01	31.83	7497.64	38.88	24.13	45.76	0.00	0.00	0.00	
7600.00	7.01	31.83	7596.89	49.24	30.56	57.96	0.00	0.00	0.00	
7700.00	7.01	31.83	7696.14	59.61	37.00	70.16	0.00	0.00	0.00	
7800.00	7.01	31.83	7795.39	69.97	43.43	82.36	0.00	0.00	0.00	
7900.00	7.01	31.83	7894.65	80.34	49.87	94.56	0.00	0.00	0.00	
8000.00	7.01	31.83	7993.90	90.71	56.30	106.76	0.00	0.00	0.00	
8100.00	7.01	31.83	8093.15	101.07	62.74	118.96	0.00	0.00	0.00	
8200.00	7.01	31.83	8192.41	111.44	69.17	131.16	0.00	0.00	0.00	
8300.00	7.01	31.83	8291.66	121.81	75.61	143.36	0.00	0.00	0.00	
8400.00	7.01	31.83	8390.91	132.17	82.04	155.56	0.00	0.00	0.00	
8500.00	7.01	31.83	8490.16	142.54	88.48	167.77	0.00	0.00	0.00	
8600.00	7.01	31.83	8589.42	152.91	94.91	179.97	0.00	0.00	0.00	
8700.00	7.01	31.83	8688.67	163.27	101.34	192.17	0.00	0.00	0.00	
8800.00	7.01	31.83	8787.92	173.64	107.78	204.37	0.00	0.00	0.00	
8900.00	7.01	31.83	8887.18	184.01	114.21	216.57	0.00	0.00	0.00	
9000.00	7.01	31.83	8986.43	194.37	120.65	228.77	0.00	0.00	0.00	
9100.00	7.01	31.83	9085.68	204.74	127.08	240.97	0.00	0.00	0.00	
9200.00	7.01	31.83	9184.93	215.10	133.52	253.17	0.00	0.00	0.00	
9300.00	7.01	31.83	9284.19	225.47	139.95	265.37	0.00	0.00	0.00	
9400.00	7.01	31.83	9383.44	235.84	146.39	277.58	0.00	0.00	0.00	
9500.00	7.01	31.83	9482.69	246.20	152.82	289.78	0.00	0.00	0.00	
9600.00	7.01	31.83	9581.95	256.57	159.25	301.98	0.00	0.00	0.00	
9700.00	7.01	31.83	9681.20	266.94	165.69	314.18	0.00	0.00	0.00	
9800.00	7.01	31.83	9780.45	277.30	172.12	326.38	0.00	0.00	0.00	
9900.00	7.01	31.83	9879.70	287.67	178.56	338.58	0.00	0.00	0.00	
10000.00	7.01	31.83	9978.96	298.04	184.99	350.78	0.00	0.00	0.00	
10100.00	7.01	31.83	10078.21	308.40	191.43	362.98	0.00	0.00	0.00	
10200.00	7.01	31.83	10177.46	318.77	197.86	375.18	0.00	0.00	0.00	
10222.71	7.01	31.83	10200.00	321.12	199.32	377.95	0.00	0.00	0.00	Oak Lake 23 Fed Com #1 Ta
10300.00	7.01	31.83	10276.72	329.13	204.30	387.38	0.00	0.00	0.00	
10400.00	7.01	31.83	10375.97	339.50	210.73	399.59	0.00	0.00	0.00	
10500.00	7.01	31.83	10475.22	349.87	217.16	411.79	0.00	0.00	0.00	
10600.00	7.01	31.83	10574.48	360.23	223.60	423.99	0.00	0.00	0.00	
10700.00	7.01	31.83	10673.73	370.60	230.03	436.19	0.00	0.00	0.00	
10800.00	7.01	31.83	10772.98	380.97	236.47	448.39	0.00	0.00	0.00	
10900.00	7.01	31.83	10872.23	391.33	242.90	460.59	0.00	0.00	0.00	
11000.00	7.01	31.83	10971.49	401.70	249.34	472.79	0.00	0.00	0.00	
11100.00	7.01	31.83	11070.74	412.07	255.77	484.99	0.00	0.00	0.00	
11200.00	7.01	31.83	11169.99	422.43	262.21	497.19	0.00	0.00	0.00	
11300.00	7.01	31.83	11269.25	432.80	268.64	509.39	0.00	0.00	0.00	
11400.00	7.01	31.83	11368.50	443.17	275.07	521.60	0.00	0.00	0.00	
11500.00	7.01	31.83	11467.75	453.53	281.51	533.80	0.00	0.00	0.00	
11532.49	7.01	31.83	11500.00	456.90	283.60	537.76	0.00	0.00	0.00	PBHL



Pathfinder Energy

Planning Report

Company: EOG Resources Field: Oak Lake Site: Oak Lake 23 Fed Com #1 Well: Oak Lake 23 Fed Com #1 Wellpath: Original	Date: 07/23/2007 Time: 10:46:30 Page: 4 Co-ordinate(NE) Reference: Site: Oak Lake 23 Fed Com #1, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,31.83Azi) Plan: Plan #5 7-23-07
--	---

Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
								Deg	Min	Sec	Deg	Min	Sec		
Oak Lake 23 Fed	Com #1 Target		10200.00	320.60	199.00	660362.40	620859.50	32	48	53.302	N	103	56	23.784	W
-Plan hit target															
PBHL			11500.00	456.90	283.60	660498.70	620944.10	32	48	54.648	N	103	56	22.787	W
-Plan hit target															

Annotation

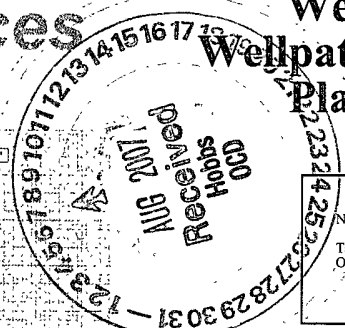
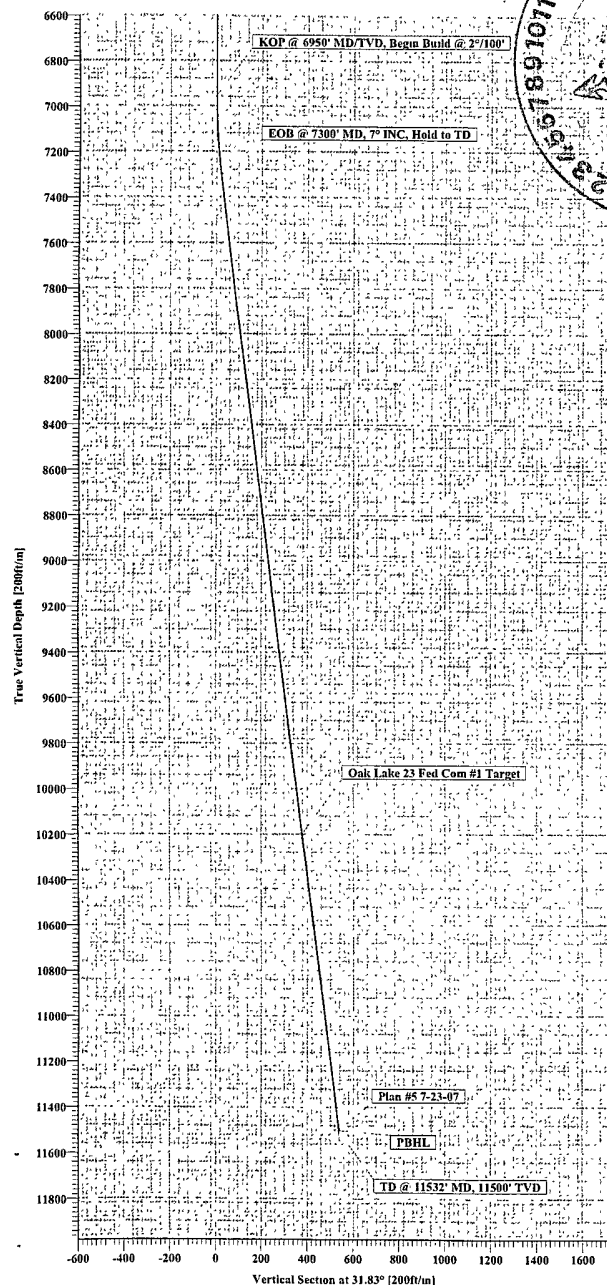
MD ft	TVD ft	
6950.00	6950.00	KOP @ 6950' MD/TVD, Begin Build @ 2°/100'
7300.41	7299.54	EOB @ 7300' MD, 7° INC, Hold to TD
11532.49	11500.00	TD @ 11532' MD, 11500' TVD





Field: Oak Lake
 Site: Oak Lake 23 Fed Com #1
 Well: Oak Lake 23 Fed Com #1
 Wellpath: Original
 Plan: Plan #4 7-19-07

PATHFINDER

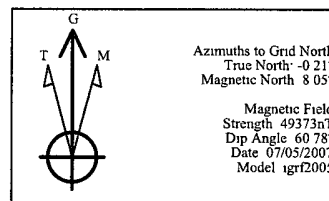


TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
Target #1	10200.00	323.20	979.00	Point
Oak Lake 23 Fed Com #1 Target	10200.00	320.00	200.00	Point

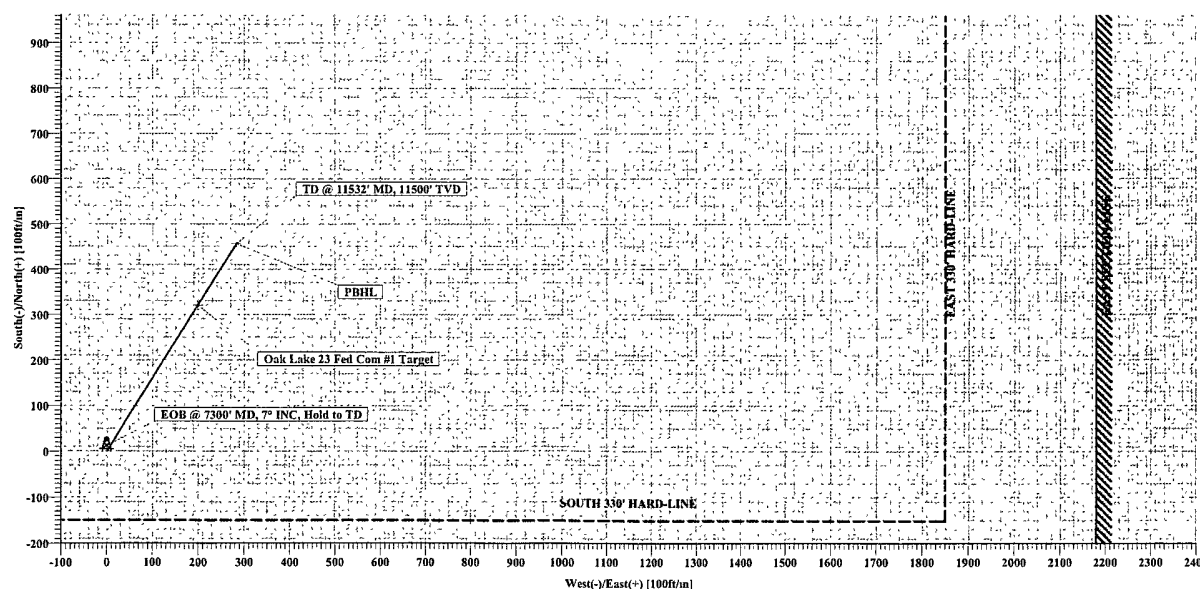
SITE DETAILS	
Oak Lake 23 Fed Com #1	
Eddy County, NM	
Section 23, T17-S, R30-E	
Site Centre Northing	660041.80
Easting	620660.50
Ground Level	3652.00
Positional Uncertainty	0.00
Convergence	0.21

ANNOTATIONS			
No	TVD	MD	Annotation
1	6950.00	6950.00	KOP @ 6950' MD/TVD, Begin Build @ 2°/100'
2	7299.54	7300.41	EOB @ 7300' MD, 7° INC, Hold to TD
3	11500.00	11532.49	TD @ 11532' MD, 11500' TVD

WELLPATH DETAILS			
Original			
Rig	SITE 0.00ft		
Ref Datum	Origin	Origin	Starting
V Section	+N/-S	+E/-W	From TVD
Angle			
32.01°	0.00	0.00	0.00



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
1	0.00	0.00	32.01	0.00	0.00	0.00	0.00	0.00	0.00	
2	6950.00	0.00	32.01	6950.00	0.00	0.00	0.00	32.01	0.00	
3	7300.41	7.01	31.83	7299.53	18.18	11.29	2.00	31.83	21.40	
4	11532.49	7.01	31.83	11500.00	456.90	283.60	0.00	0.00	537.76	PBHL





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Pathfinder Energy
Planning Report

Company: EOG Resources
Time: 10:54:05
Field: Oak Lake
ReferenceSite: Oak Lake 23 Fed Com #1, Grid North
Site: Oak Lake 23 Fed Com #1
ReferenceSITE 0.0
Well: Oak Lake 23 Fed Com #1
Reference: Well (0.00N,0.00E,31.83Azi)
Wellpath: Original
Plan #5 7-23-07

Date: 07/23/2007

Co-ordinate(NE)

Vertical (TVD)

Section (VS)

Plan:

Field: Oak Lake
Eddy County, NM

Map System:US State Plane Coordinate System 1927
New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)
Site Centre
Sys Datum: Mean Sea Level
igrf2005

Map Zone:

Coordinate System:

Geomagnetic Model:

Site: Oak Lake 23 Fed Com #1
Eddy County, NM
Section 23, T17-S, R30-E

Site Position:
32 48 50.137 N
From: Map
103 56 26.130 W
Position Uncertainty: 0.00 ft
Grid
Ground Level: 3652.00 ft
0.21 deg

Northing: 660041.80 ft

Latitude:

Easting: 620660.50 ft

Longitude:

North Reference:

Grid Convergence:

Well: Oak Lake 23 Fed Com #1

Slot Name:

Well Position: +N/-S 0.00 ft
32 48 50.137 N
+E/-W 0.00 ft
103 56 26.130 W
Position Uncertainty: 0.00 ft

Northing: 660041.80 ft

Latitude:

Easting : 620660.50 ft

Longitude:

Wellpath: Original
Surface

Drilled From:

Tie-on Depth:

0.00 ft
Current Datum: SITE
Datum: Mean Sea Level
Magnetic Data: 07/05/2007
8.26 deg
Field strength: 49373 nT
60.78 deg
Vertical Section:Depth From (TVD)
Direction
deg

Height 0.00 ft

Above System

Declination:

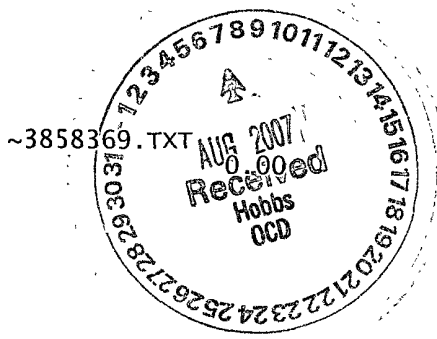
Mag Dip Angle:

+N/-S

+E/-W

ft

ft



31.83 0.00

Plan: Plan #5 7-23-07
07/05/2007

1
Principal: No
From Surface

0.00

Date Composed:

Version:

Tied-to:

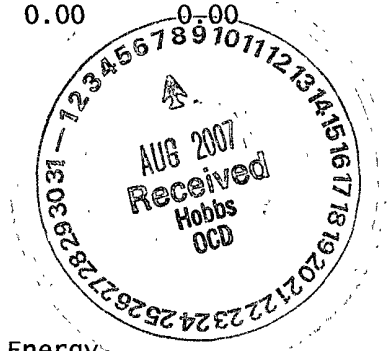
Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build
Turn	TFO	Target					
ft	deg	deg	ft	ft	ft		
deg/100ft	deg/100ft	deg/100ft	deg				
0.00	0.00	32.01	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
6950.00	0.00	32.01	6950.00	0.00	0.00	0.00	0.00
0.00	32.01						
7300.41	7.01	31.83	7299.53	18.18	11.29	2.00	2.00
-0.05	31.83						
11532.49	7.01	31.83	11500.00	456.90	283.60	0.00	0.00
0.00	0.00	PBHL					
Survey							

MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS
Build	Turn	Tool/Comment					
ft	deg	deg	ft	ft	ft	ft	
deg/100ft	deg/100ft	deg/100ft					
0.00	0.00	32.01	0.00	0.00	0.00	0.00	0.00
0.00	0.00						
100.00	0.00	32.01	100.00	0.00	0.00	0.00	0.00
0.00	0.00						
200.00	0.00	32.01	200.00	0.00	0.00	0.00	0.00
0.00	0.00						
300.00	0.00	32.01	300.00	0.00	0.00	0.00	0.00
0.00	0.00						
400.00	0.00	32.01	400.00	0.00	0.00	0.00	0.00
0.00	0.00						
500.00	0.00	32.01	500.00	0.00	0.00	0.00	0.00
0.00	0.00						
600.00	0.00	32.01	600.00	0.00	0.00	0.00	0.00
0.00	0.00						
700.00	0.00	32.01	700.00	0.00	0.00	0.00	0.00
0.00	0.00						
800.00	0.00	32.01	800.00	0.00	0.00	0.00	0.00
0.00	0.00						
900.00	0.00	32.01	900.00	0.00	0.00	0.00	0.00
0.00	0.00						
1000.00	0.00	32.01	1000.00	0.00	0.00	0.00	0.00
0.00	0.00						
1100.00	0.00	32.01	1100.00	0.00	0.00	0.00	0.00
0.00	0.00						
1200.00	0.00	32.01	1200.00	0.00	0.00	0.00	0.00
0.00	0.00						
1300.00	0.00	32.01	1300.00	0.00	0.00	0.00	0.00
0.00	0.00						
1400.00	0.00	32.01	1400.00	0.00	0.00	0.00	0.00
0.00	0.00						

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1500.00	0.00	32.01	1500.00	0.00	0.00	0.00	0.00
0.00	0.00						
1600.00	0.00	32.01	1600.00	0.00	0.00	0.00	0.00
0.00	0.00						
1700.00	0.00	32.01	1700.00	0.00	0.00	0.00	0.00
0.00	0.00						

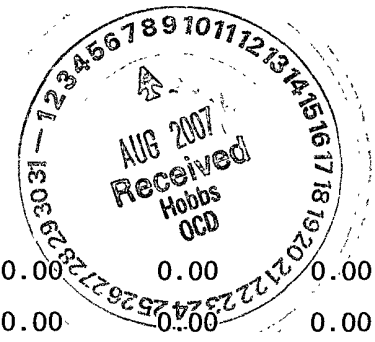


Pathfinder Energy
Planning Report

Company: EOG Resources
Time: 10:54:05 Page: 2
Field: Oak Lake
ReferenceSite: Oak Lake 23 Fed Com #1, Grid North
Site: Oak Lake 23 Fed Com #1
ReferenceSITE 0.0
Well: Oak Lake 23 Fed Com #1
Reference: well (0.00N,0.00E,31.83Azi)
Wellpath: Original
Plan #5 7-23-07

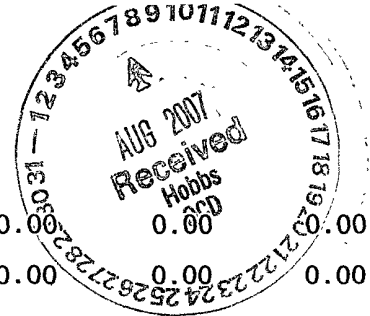
Date: 07/23/2007
Co-ordinate(NE)
Vertical (TVD)
Section (VS)
Plan:

Survey MD Build	Incl Turn	Azim Tool/Comment	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS
deg/100ft	deg/100ft	deg/100ft					
1800.00	0.00	32.01	1800.00	0.00	0.00	0.00	0.00
0.00	0.00						
1900.00	0.00	32.01	1900.00	0.00	0.00	0.00	0.00
0.00	0.00						
2000.00	0.00	32.01	2000.00	0.00	0.00	0.00	0.00
0.00	0.00						
2100.00	0.00	32.01	2100.00	0.00	0.00	0.00	0.00
0.00	0.00						
2200.00	0.00	32.01	2200.00	0.00	0.00	0.00	0.00
0.00	0.00						
2300.00	0.00	32.01	2300.00	0.00	0.00	0.00	0.00
0.00	0.00						
2400.00	0.00	32.01	2400.00	0.00	0.00	0.00	0.00
0.00	0.00						
2500.00	0.00	32.01	2500.00	0.00	0.00	0.00	0.00
0.00	0.00						
2600.00	0.00	32.01	2600.00	0.00	0.00	0.00	0.00
0.00	0.00						
2700.00	0.00	32.01	2700.00	0.00	0.00	0.00	0.00
0.00	0.00						
2800.00	0.00	32.01	2800.00	0.00	0.00	0.00	0.00
0.00	0.00						
2900.00	0.00	32.01	2900.00	0.00	0.00	0.00	0.00



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0.00	0.00						
3000.00	0.00	32.01	3000.00	0.00	0.00	0.00	0.00
0.00	0.00						
3100.00	0.00	32.01	3100.00	0.00	0.00	0.00	0.00
0.00	0.00						
3200.00	0.00	32.01	3200.00	0.00	0.00	0.00	0.00
0.00	0.00						
3300.00	0.00	32.01	3300.00	0.00	0.00	0.00	0.00
0.00	0.00						
3400.00	0.00	32.01	3400.00	0.00	0.00	0.00	0.00
0.00	0.00						
3500.00	0.00	32.01	3500.00	0.00	0.00	0.00	0.00
0.00	0.00						
3600.00	0.00	32.01	3600.00	0.00	0.00	0.00	0.00
0.00	0.00						
3700.00	0.00	32.01	3700.00	0.00	0.00	0.00	0.00
0.00	0.00						
3800.00	0.00	32.01	3800.00	0.00	0.00	0.00	0.00
0.00	0.00						
3900.00	0.00	32.01	3900.00	0.00	0.00	0.00	0.00
0.00	0.00						
4000.00	0.00	32.01	4000.00	0.00	0.00	0.00	0.00
0.00	0.00						
4100.00	0.00	32.01	4100.00	0.00	0.00	0.00	0.00
0.00	0.00						
4200.00	0.00	32.01	4200.00	0.00	0.00	0.00	0.00
0.00	0.00						
4300.00	0.00	32.01	4300.00	0.00	0.00	0.00	0.00
0.00	0.00						
4400.00	0.00	32.01	4400.00	0.00	0.00	0.00	0.00
0.00	0.00						
4500.00	0.00	32.01	4500.00	0.00	0.00	0.00	0.00
0.00	0.00						
4600.00	0.00	32.01	4600.00	0.00	0.00	0.00	0.00
0.00	0.00						
4700.00	0.00	32.01	4700.00	0.00	0.00	0.00	0.00
0.00	0.00						
4800.00	0.00	32.01	4800.00	0.00	0.00	0.00	0.00
0.00	0.00						
4900.00	0.00	32.01	4900.00	0.00	0.00	0.00	0.00
0.00	0.00						
5000.00	0.00	32.01	5000.00	0.00	0.00	0.00	0.00
0.00	0.00						
5100.00	0.00	32.01	5100.00	0.00	0.00	0.00	0.00
0.00	0.00						
5200.00	0.00	32.01	5200.00	0.00	0.00	0.00	0.00
0.00	0.00						
5300.00	0.00	32.01	5300.00	0.00	0.00	0.00	0.00
0.00	0.00						
5400.00	0.00	32.01	5400.00	0.00	0.00	0.00	0.00
0.00	0.00						
5500.00	0.00	32.01	5500.00	0.00	0.00	0.00	0.00
0.00	0.00						
5600.00	0.00	32.01	5600.00	0.00	0.00	0.00	0.00
0.00	0.00						
5700.00	0.00	32.01	5700.00	0.00	0.00	0.00	0.00
0.00	0.00						



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5800.00	0.00	32.01	5800.00	0.00	0.00	0.00	0.00
0.00	0.00						
5900.00	0.00	32.01	5900.00	0.00	0.00	0.00	0.00
0.00	0.00						
6000.00	0.00	32.01	6000.00	0.00	0.00	0.00	0.00
0.00	0.00						
6100.00	0.00	32.01	6100.00	0.00	0.00	0.00	0.00
0.00	0.00						
6200.00	0.00	32.01	6200.00	0.00	0.00	0.00	0.00
0.00	0.00						
6300.00	0.00	32.01	6300.00	0.00	0.00	0.00	0.00
0.00	0.00						
6400.00	0.00	32.01	6400.00	0.00	0.00	0.00	0.00
0.00	0.00						
6500.00	0.00	32.01	6500.00	0.00	0.00	0.00	0.00
0.00	0.00						
6600.00	0.00	32.01	6600.00	0.00	0.00	0.00	0.00
0.00	0.00						
6700.00	0.00	32.01	6700.00	0.00	0.00	0.00	0.00
0.00	0.00						
6800.00	0.00	32.01	6800.00	0.00	0.00	0.00	0.00
0.00	0.00						
6900.00	0.00	32.01	6900.00	0.00	0.00	0.00	0.00
0.00	0.00						
6950.00	0.00	32.01	6950.00	0.00	0.00	0.00	0.00
0.00	0.00	KOP @ 6950'	MD/TVD, Begin				

Pathfinder Energy Planning Report

Company: EOG Resources
 Time: 10:54:05 Page: 3
 Field: Oak Lake
 ReferenceSite: Oak Lake 23 Fed Com #1, Grid North
 Site: Oak Lake 23 Fed Com #1
 ReferenceSITE 0.0
 Well: Oak Lake 23 Fed Com #1
 Reference: Well (0.00N,0.00E,31.83Azi)
 Wellpath: Original
 Plan #5 7-23-07

Date: 07/23/2007

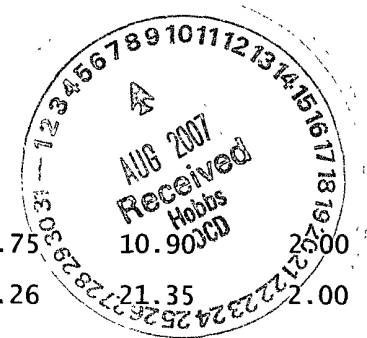
Co-ordinate(NE)

Vertical (TVD)

Section (VS)

Plan:

Survey	MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS
Build	Turn	Tool/Comment						
ft	deg	deg	ft	ft	ft	ft	ft	
deg/100ft	deg/100ft	deg/100ft						
7000.00	1.00	31.83	7000.00	0.37	0.23	0.44	2.00	
2.00	0.00							
7100.00	3.00	31.83	7099.93	3.34	2.07	3.93	2.00	



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2.00	0.00						
7200.00	5.00	31.83	7199.68	9.26	5.75		
2.00	0.00						
7300.00	7.00	31.83	7299.13	18.14	11.26		
2.00	0.00						
7300.41	7.01	31.83	7299.54	18.19	11.29	21.40	1.98
1.98	0.00	EOB @ 7300'	MD, 7° INC, H				
7400.00	7.01	31.83	7398.38	28.51	17.70	33.55	0.00
0.00	0.00						
7500.00	7.01	31.83	7497.64	38.88	24.13	45.76	0.00
0.00	0.00						
7600.00	7.01	31.83	7596.89	49.24	30.56	57.96	0.00
0.00	0.00						
7700.00	7.01	31.83	7696.14	59.61	37.00	70.16	0.00
0.00	0.00						
7800.00	7.01	31.83	7795.39	69.97	43.43	82.36	0.00
0.00	0.00						
7900.00	7.01	31.83	7894.65	80.34	49.87	94.56	0.00
0.00	0.00						
8000.00	7.01	31.83	7993.90	90.71	56.30	106.76	0.00
0.00	0.00						
8100.00	7.01	31.83	8093.15	101.07	62.74	118.96	0.00
0.00	0.00						
8200.00	7.01	31.83	8192.41	111.44	69.17	131.16	0.00
0.00	0.00						
8300.00	7.01	31.83	8291.66	121.81	75.61	143.36	0.00
0.00	0.00						
8400.00	7.01	31.83	8390.91	132.17	82.04	155.56	0.00
0.00	0.00						
8500.00	7.01	31.83	8490.16	142.54	88.48	167.77	0.00
0.00	0.00						
8600.00	7.01	31.83	8589.42	152.91	94.91	179.97	0.00
0.00	0.00						
8700.00	7.01	31.83	8688.67	163.27	101.34	192.17	0.00
0.00	0.00						
8800.00	7.01	31.83	8787.92	173.64	107.78	204.37	0.00
0.00	0.00						
8900.00	7.01	31.83	8887.18	184.01	114.21	216.57	0.00
0.00	0.00						
9000.00	7.01	31.83	8986.43	194.37	120.65	228.77	0.00
0.00	0.00						
9100.00	7.01	31.83	9085.68	204.74	127.08	240.97	0.00
0.00	0.00						
9200.00	7.01	31.83	9184.93	215.10	133.52	253.17	0.00
0.00	0.00						
9300.00	7.01	31.83	9284.19	225.47	139.95	265.37	0.00
0.00	0.00						
9400.00	7.01	31.83	9383.44	235.84	146.39	277.58	0.00
0.00	0.00						
9500.00	7.01	31.83	9482.69	246.20	152.82	289.78	0.00
0.00	0.00						
9600.00	7.01	31.83	9581.95	256.57	159.25	301.98	0.00
0.00	0.00						
9700.00	7.01	31.83	9681.20	266.94	165.69	314.18	0.00
0.00	0.00						
9800.00	7.01	31.83	9780.45	277.30	172.12	326.38	0.00
0.00	0.00						

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9900.00	7.01	31.83	9879.70	287.67	178.56	338.58	0.00
0.00	0.00						
10000.00	7.01	31.83	9978.96	298.04	184.99	350.78	0.00
0.00	0.00						
10100.00	7.01	31.83	10078.21	308.40	191.43	362.98	0.00
0.00	0.00						
10200.00	7.01	31.83	10177.46	318.77	197.86	375.18	0.00
0.00	0.00						
10222.71	7.01	31.83	10200.00	321.12	199.32	377.95	0.00
0.00	0.00						
10300.00	7.01	31.83	10276.72	329.13	204.30	387.38	0.00
0.00	0.00						
10400.00	7.01	31.83	10375.97	339.50	210.73	399.59	0.00
0.00	0.00						
10500.00	7.01	31.83	10475.22	349.87	217.16	411.79	0.00
0.00	0.00						
10600.00	7.01	31.83	10574.48	360.23	223.60	423.99	0.00
0.00	0.00						
10700.00	7.01	31.83	10673.73	370.60	230.03	436.19	0.00
0.00	0.00						
10800.00	7.01	31.83	10772.98	380.97	236.47	448.39	0.00
0.00	0.00						
10900.00	7.01	31.83	10872.23	391.33	242.90	460.59	0.00
0.00	0.00						
11000.00	7.01	31.83	10971.49	401.70	249.34	472.79	0.00
0.00	0.00						
11100.00	7.01	31.83	11070.74	412.07	255.77	484.99	0.00
0.00	0.00						
11200.00	7.01	31.83	11169.99	422.43	262.21	497.19	0.00
0.00	0.00						
11300.00	7.01	31.83	11269.25	432.80	268.64	509.39	0.00
0.00	0.00						
11400.00	7.01	31.83	11368.50	443.17	275.07	521.60	0.00
0.00	0.00						
11500.00	7.01	31.83	11467.75	453.53	281.51	533.80	0.00
0.00	0.00						
11532.49	7.01	31.83	11500.00	456.90	283.60	537.76	0.00
0.00	0.00	PBHL					



Pathfinder Energy
Planning Report

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Field: Oak Lake
 ReferenceSite: Oak Lake 23 Fed Com #1, Grid North
 Site: Oak Lake 23 Fed Com #1
 ReferenceSITE 0.0
 Well: Oak Lake 23 Fed Com #1
 Reference: well (0.00N,0.00E,31.83Azi)
 Wellpath: Original
 Plan #5 7-23-07

Co-ordinate(NE)
 Vertical (TVD)
 Section (VS)
 Plan:

Targets

Map	Name	Description	Latitude	Longitude	TVD	+N/-S	+E/-W	Map Northing
Easting	Deg	Min	Sec	Deg	Min	Sec	ft	ft
620859.50	32	48	53.302 N	103	56	23.784 W	10200.00	320.60
							11500.00	199.00
								660362.40
								660498.70

Annotation

MD	TVD	
ft	ft	
6950.00	6950.00	KOP @ 6950' MD/TVD, Begin Build @ 2°/100'
7300.41	7299.54	EOB @ 7300' MD, 7° INC, Hold to TD
11532.49	11500.00	TD @ 11532' MD, 11500' TVD

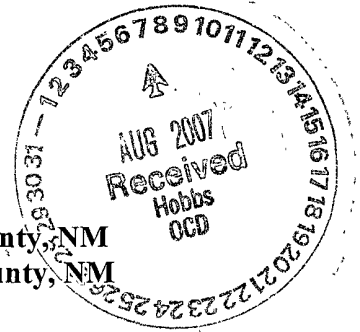


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CONDITIONS OF APPROVAL - DRILLING

Operator's Name: EOG Resources, Inc.
Well Name & No. Oak Lake 23 Fed Com # 1
Location: 480'FSL, 2180'FEL, SEC23, T17S, R30E, Eddy County, NM
BHL: 936'FSL, 1985'FEL, SEC23, T17S, R30E, Eddy County, NM
Lease: LC-028992E (SHL), NM-27481, LC-029338A



I. DRILLING OPERATIONS REQUIREMENTS:

- A. The Bureau of Land Management (BLM) is to be notified a minimum of 4 hours in advance for a representative to witness:
1. Spudding well
 2. Setting and/or Cementing of all casing strings
 3. BOPE tests
- Eddy County call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 361-2822
- B. A Hydrogen Sulfide (H₂S) Drilling Plan should be activated 500 feet prior to drilling into the Queen formation.
- C. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- D. If floor controls are required, (3M or Greater) controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

II. CASING:

- A. The 11.75 inch surface casing shall be set at 500 feet and cemented to the surface.
1. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
 2. Wait on cement (WOC) time for a primary cement job will be a minimum of 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compression strength, whichever is greater. (This is to include the lead cement)
 3. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compression strength, whichever is greater.
 4. If cement falls back, remedial action will be done prior to drilling out that string.
- B. The minimum required fill of cement behind the 8.625 inch intermediate casing is circulating cement to the surface. If cement does not circulate see A.1 thru 4.

- C. The minimum required fill of cement behind the 5.5 inch production casing is circulating cement to 200 feet above the shoe of the 8.625 intermediate casing.
- D. If hardband drill pipe is rotated inside casing; returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

III. PRESSURE CONTROL:

- A. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2.
- B. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 psi.
- C. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8.625 Intermediate casing shoe shall be 5000 psi.
- D. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
1. The tests shall be done by an independent service company.
 2. The results of the test shall be reported to the appropriate BLM office.
 3. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 4. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi in accordance with API RP 53, section 17. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
 5. The formation below the shoe of the 8.625 inch casing will be tested as per Onshore Order # 2.III.B.1.i.

IV. Hazards:

1. Our geologist has indicated that there is potential for lost circulation in the Grayburg and San Andres formations.
2. Our geologist has indicated that there is potential for flows in the Salado and Artesia groups.

Engineering can be reached at 505-706-2779 for variances.

FWright 8/2/07

