C-06-22

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction. OCD-ARTESIA

467'

(August 1999) 3/2

RECEIVED
FEB 03 2006
OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: [X] DRILL [ ] REENTER 35049	5. Lease Serial No. NMNM 108950
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: Oil Well [ ] Gas Well [X] Other [ ] Single Zone [ ] Multiple Zone	8. Lease Name and Well No. Rio Grande 23 Fed No.4H
2. Name of Operator EOG Resources, Inc. 7377	9. API Well No. 30-015-34592
3a. Address P.O. Box 2267 Midland, TX 79702	3b. Phone No. (include area code) (432) 686-3714 75240
	10. Field and Pool, or Exploratory Undes Cottonwood Creek; Wolfcamp, West
4. Location of Well (Report location clearly and in accordance with any State requirements.*) SUBJECT TO LIKE APPROVAL BY STATE At surface 660 'FSL & 760' FWL (U/LM) At proposed prod. Zone 660' FNL & 760' FWL (U/LD)	11. Sec., T., R., M., or Blk. And Survey or Area Sed 23 T-16-S; R-24-E
14. Distance in miles and direction from nearest town or post office* 4 mi. NW from Artesia	12. County or Parish Eddy / 13. State NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. Unit line, if any) 660	16. No. of Acres in lease 1,120	17. Spacing Unit dedicated to this well W/2
18. Distance from proposed location* to nearest well, drilling, completed applied for, on this lease, ft. 1120'	19. Proposed Depth 5400' TVD TMD 8737"	20. BLM/BIA Bond No. on file NM2308
21. Elevations (Show whether DF, KDB, RT, GL, etc) Gr 3643	22. Approximate date work will start* 1/20/2006	23. Estimated duration 30 days

24. Attachments

The following completed in accordance with the requirements of Onshore Oil an Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest Sytem Lands, the SUPO shall be filed with the appropriate Forest Service Office)
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above)
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature Mike Francis	Name (Printed/Typed) Mike Francis	Date 12/19/2005
Title Agent		

Approved by (Signature) /s/ Joe G. Lara	Name (Printed/Typed) /s/ Joe G. Lara	Date FEB 02 2006
Title ACTING FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rightes in the subject lease which would entitle the applicant to conduct operations theron. APPROVAL FOR 1 YEAR

Conditions of approval, if any, are attached

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 jurisidiction.

*(Instructions on reverse)

Roswell Controlled Water Basin

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

WITNESS 8 5/8" CSG CMT JOB

Drill Only

3D required to produce

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, and Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 copies
Fee Lease - 3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
	75266	UNdes Cottonwood Creek Wolfcamp, west

4 Property Code	5 Property Name	6 Well Number
	RIO GRANDE "23" FED	4H

7 OGRID No.	8 Operator Name	9 Elevation
7377	EOG RESOURCES, INC.	3643'

10 Surface Location

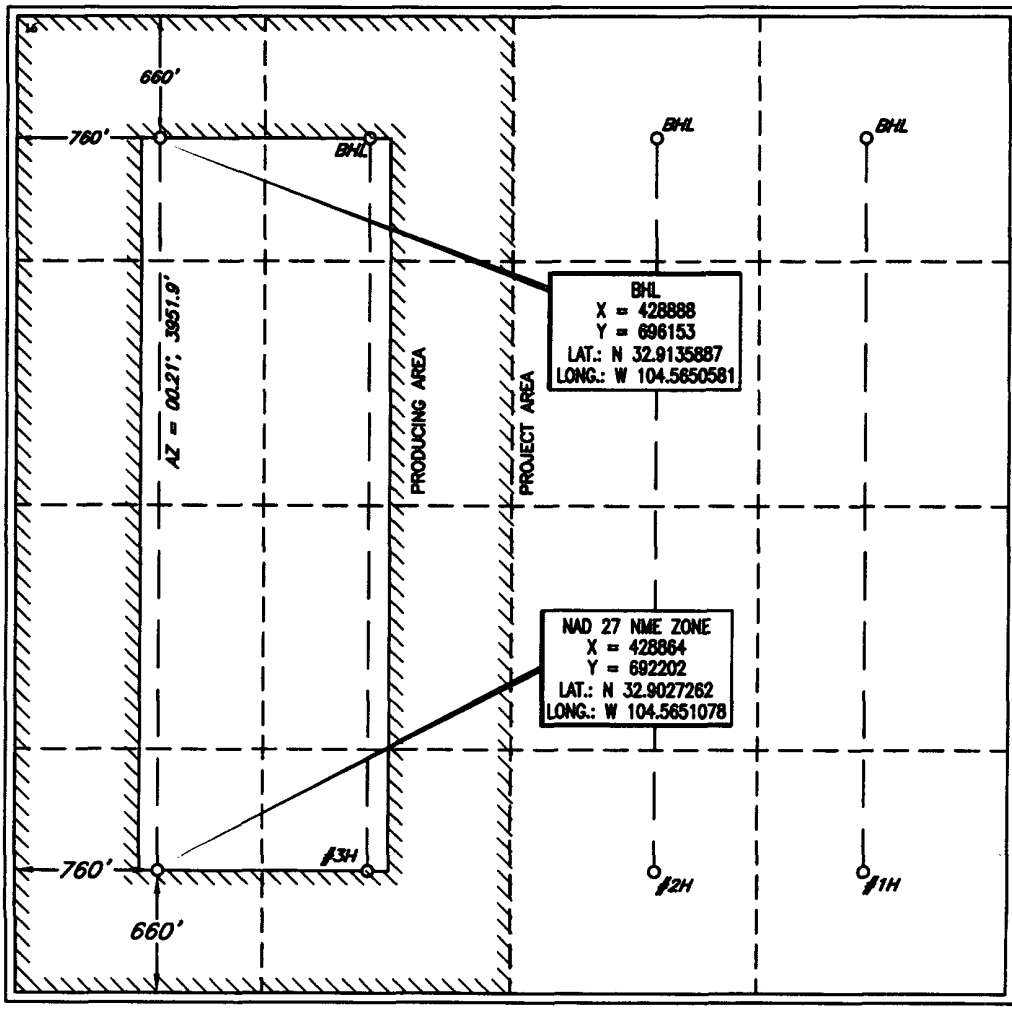
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	16 SOUTH	24 EAST, N.M.P.M.		660'	SOUTH	760'	WEST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	23	16 SOUTH	24 EAST, N.M.P.M.		660'	NORTH	760'	WEST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320			

NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Mike Francis
Printed Name

Agent
Title

12/19/2005
Date

18 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.

NOVEMBER 29, 2005
Date of Survey
Signature and Seal of Professional Surveyor

NEW MEXICO 7920 LICENSED LAND SURVEYOR

Certificate Number

V. L. BEZNER R.P.S. #7920

JOB # 108530 / 101 SE / E.U.O.

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-14
June 1, 20(

For drilling and production facilities, submit t
appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe
office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No X
Type of action: Registration of a pit or below-grade tank X Closure of a pit or below-grade tank ☐

Operator: EOG Resources, Inc. Telephone: (432) 686-3642 e-mail address: Donny_Glanton@eogresources.com
Address: P.O. Box 2267 Midland, Texas 79702
Facility or well name: RIO GRANDE 23 FED 4H API #: 30-015-34592 U/L or Qtr/Qtr M Sec 23 T16S R24E
County: Eddy Latitude: N32.9027262 Longitude: W104.5651078 NAD: 1927 X 1983 ☐
Surface Owner: Federal ☐ State ☐ Private X Indian ☐

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OCD-ARTESIA

Pit	**Below-grade tank**	
Type: Drilling X Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined X Unlined ☐ Liner type: Synthetic X Thickness 12 mil Clay ☐ Pit Volume 10300 bbl	Volume: _____bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet **100 feet or more X**	(20 points) (10 points) (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes **No X**	(20 points) (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet **1000 feet or more X**	(20 points) (10 points) (0 points)
	Ranking Score (Total Points)	0

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface_____ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines X , a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 2/6/2006
Printed Name/Title: Donny G. Glanton / Agent Signature Donny G. Glanton

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title Gerry Guye Compliance Officer Signature Gerry Guye Date: 2-9-06

Permit Information:

Well Name: Rio Grande 23 Fed #4H

Location:

SL 660' FSL & 760' FWL, Section 23, T-16-S, R-24-E, Eddy Co., N.M.

BHL 660' FNL & 760' FWL, Section 23, T-16-S, R-24-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900'	9-7/8"	7"	26#	J-55	Surface
Production	8,737'	6-1/8"	4 ½"	11.6/ 13.5#	P-110	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	300	Lead: Premium Plus + 2% $CaCl_2$ + 3% Econolite + ¼ pps Flocele
	200	Tail: Premium Plus + 2% $CaCl_2$ + ¼ pps Flocele
8,737'	400	Lead: Interfill C + ¼ pps Flocele
	350	Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 950'	Fresh - Gel	8.6-8.8	28-34	N/c
950' – 4,400'	Cut Brine	8.8-9.2	28-34	N/c
4,400' – 5,100'	Cut Brine	8.8-9.2	28-34	10-15
4,400' – 8,737'	Polymer (Lateral)	9.0-9.4	40-45	10-25

eog resources

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(915) 686-3600

December 12, 2005

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H_2S Contingency Plan for the Rio Grande 23 Fed #4H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H_2S bearing formations during drilling operations.

Sincerely,

Jason LaGrega
Drilling Engineer

e
Planning Report

Company:	eog resources	**Date:**	12/13/2005	**Time:** 16:41:11	**Page:** 1
Field:	Thames	**Co-ordinate(NE) Reference:**	Site: Rio Grande 23 Fed #4H, Grid North		
Site:	Rio Grande 23 Fed #4H	**Vertical (TVD) Reference:**	SITE 3658.0		
Well:	Rio Grande 23 Fed #4H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.35Azi)		
Wellpath:	Rio Grande 23 Fed #4H	**Plan:**	Plan #1		

Field: Thames

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:**	igrf2000

Site: Rio Grande 23 Fed #4H

Site Position:			**Northing:**	692202.00	ft	**Latitude:**	32	54	9.818 N
From:	Map		**Easting:**	428864.00	ft	**Longitude:**	104	33	54.387 W
Position Uncertainty:		0.00 ft				**North Reference:**			Grid
Ground Level:		3643.00 ft				**Grid Convergence:**			-0.13 deg

Well: Rio Grande 23 Fed #4H **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	692202.00	ft	**Latitude:**	32	54	9.818 N
	+E/-W	0.00 ft	**Easting :**	428864.00	ft	**Longitude:**	104	33	54.387 W
Position Uncertainty:		0.00 ft							

Wellpath: Rio Grande 23 Fed #4H

Drilled From:	Surface			
Tie-on Depth:	0.00 ft			
Current Datum:	SITE	**Height** 3658.00 ft	**Above System Datum:**	Mean Sea Level
Magnetic Data:	12/13/2005		**Declination:**	9.02 deg
Field Strength:	49665 nT		**Mag Dip Angle:**	60.87 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	4919.00	0.00	0.00	0.35

Plan:	Plan #1	**Date Composed:**	12/13/2005
		Version:	1
Principal:	Yes	**Tied-to:**	From Surface

Plan Section Information

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4568.00	0.00	0.00	4568.00	0.00	0.00	0.00	0.00	0.00	0.00	
5168.00	90.00	0.35	4949.97	381.96	2.33	15.00	15.00	0.00	0.35	
5184.61	90.50	0.35	4949.90	398.58	2.43	3.00	3.00	-0.01	-0.25	
8737.14	90.50	0.35	4919.00	3950.91	24.00	0.00	0.00	0.00	0.00	
8737.24	90.50	0.35	4919.00	3951.00	24.00	3.00	1.81	2.39	52.86	BHL

Section 1 : Start Hold

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	TFO deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

e
Planning Report

Company:	eog resources	**Date:** 12/13/2005 **Time:** 16:41:11 **Page:** 2	
Field:	Thames	**Co-ordinate(NE) Reference:**	Site: Rio Grande 23 Fed #4H, Grid North
Site:	Rio Grande 23 Fed #4H	**Vertical (TVD) Reference:**	SITE 3658.0
Well:	Rio Grande 23 Fed #4H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.35Azi)
Wellpath:	Rio Grande 23 Fed #4H	**Plan:**	Plan #1

Section 1 : Start Hold

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	TFO deg
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4568.00	0.00	0.00	4568.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Section 2 : Start Build 15.00

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	TFO deg
4575.00	1.05	0.35	4575.00	0.06	0.00	0.06	15.00	15.00	0.00	0.00
4600.00	4.80	0.35	4599.96	1.34	0.01	1.34	15.00	15.00	0.00	0.00
4625.00	8.55	0.35	4624.79	4.24	0.03	4.25	15.00	15.00	0.00	0.00
4650.00	12.30	0.35	4649.37	8.77	0.05	8.77	15.00	15.00	0.00	0.00
4675.00	16.05	0.35	4673.61	14.89	0.09	14.89	15.00	15.00	0.00	0.00
4700.00	19.80	0.35	4697.39	22.58	0.14	22.58	15.00	15.00	0.00	0.00
4725.00	23.55	0.35	4720.62	31.81	0.19	31.81	15.00	15.00	0.00	0.00
4750.00	27.30	0.35	4743.19	42.54	0.26	42.55	15.00	15.00	0.00	0.00
4775.00	31.05	0.35	4765.02	54.73	0.33	54.73	15.00	15.00	0.00	0.00
4800.00	34.80	0.35	4786.00	68.31	0.42	68.32	15.00	15.00	0.00	0.00
4825.00	38.55	0.35	4806.04	83.24	0.51	83.25	15.00	15.00	0.00	0.00
4850.00	42.30	0.35	4825.07	99.45	0.61	99.45	15.00	15.00	0.00	0.00
4875.00	46.05	0.35	4843.00	116.87	0.71	116.87	15.00	15.00	0.00	0.00
4900.00	49.80	0.35	4859.75	135.42	0.83	135.43	15.00	15.00	0.00	0.00
4925.00	53.55	0.35	4875.25	155.03	0.95	155.03	15.00	15.00	0.00	0.00
4950.00	57.30	0.35	4889.43	175.61	1.07	175.62	15.00	15.00	0.00	0.00
4975.00	61.05	0.35	4902.24	197.08	1.20	197.08	15.00	15.00	0.00	0.00
5000.00	64.80	0.35	4913.62	219.33	1.34	219.34	15.00	15.00	0.00	0.00
5025.00	68.55	0.35	4923.52	242.28	1.48	242.29	15.00	15.00	0.00	0.00
5050.00	72.30	0.35	4931.89	265.83	1.62	265.84	15.00	15.00	0.00	0.00
5075.00	76.05	0.35	4938.71	289.88	1.77	289.89	15.00	15.00	0.00	0.00
5100.00	79.80	0.35	4943.94	314.32	1.92	314.33	15.00	15.00	0.00	0.00
5125.00	83.55	0.35	4947.55	339.06	2.07	339.06	15.00	15.00	0.00	0.00
5150.00	87.30	0.35	4949.55	363.97	2.22	363.98	15.00	15.00	0.00	0.00
5168.00	90.00	0.35	4949.97	381.96	2.33	381.97	15.00	15.00	0.00	0.00

e
Planning Report

Company:	eog resources	**Date:** 12/13/2005 **Time:** 16:41:11 **Page:**	3
Field:	Thames	**Co-ordinate(NE) Reference:**	Site: Rio Grande 23 Fed #4H, Grid North
Site:	Rio Grande 23 Fed #4H	**Vertical (TVD) Reference:**	SITE 3658.0
Well:	Rio Grande 23 Fed #4H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.35Azi)
Wellpath:	Rio Grande 23 Fed #4H	**Plan:**	Plan #1

Section 3 : Start DLS 3.00 TFO -0.25

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	TFO deg
5184.61	90.50	0.35	4949.90	398.58	2.43	398.58	3.00	3.00	-0.01	-0.25

Section 4 : Start Hold

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	TFO deg
5200.00	90.50	0.35	4949.77	413.96	2.53	413.97	0.00	0.00	0.00	0.00
5300.00	90.50	0.35	4948.90	513.96	3.13	513.97	0.00	0.00	0.00	0.00
5400.00	90.50	0.35	4948.03	613.95	3.74	613.96	0.00	0.00	0.00	0.00
5500.00	90.50	0.35	4947.16	713.95	4.35	713.96	0.00	0.00	0.00	0.00
5600.00	90.50	0.35	4946.29	813.94	4.96	813.96	0.00	0.00	0.00	0.00
5700.00	90.50	0.35	4945.42	913.94	5.56	913.95	0.00	0.00	0.00	0.00
5800.00	90.50	0.35	4944.55	1013.93	6.17	1013.95	0.00	0.00	0.00	0.00
5900.00	90.50	0.35	4943.68	1113.92	6.78	1113.94	0.00	0.00	0.00	0.00
6000.00	90.50	0.35	4942.81	1213.92	7.38	1213.94	0.00	0.00	0.00	0.00
6100.00	90.50	0.35	4941.94	1313.91	7.99	1313.94	0.00	0.00	0.00	0.00
6200.00	90.50	0.35	4941.07	1413.91	8.60	1413.93	0.00	0.00	0.00	0.00
6300.00	90.50	0.35	4940.20	1513.90	9.21	1513.93	0.00	0.00	0.00	0.00
6400.00	90.50	0.35	4939.33	1613.90	9.81	1613.93	0.00	0.00	0.00	0.00
6500.00	90.50	0.35	4938.46	1713.89	10.42	1713.92	0.00	0.00	0.00	0.00
6600.00	90.50	0.35	4937.59	1813.88	11.03	1813.92	0.00	0.00	0.00	0.00
6700.00	90.50	0.35	4936.72	1913.88	11.63	1913.91	0.00	0.00	0.00	0.00
6800.00	90.50	0.35	4935.85	2013.87	12.24	2013.91	0.00	0.00	0.00	0.00
6900.00	90.50	0.35	4934.98	2113.87	12.85	2113.91	0.00	0.00	0.00	0.00
7000.00	90.50	0.35	4934.11	2213.86	13.45	2213.90	0.00	0.00	0.00	0.00
7100.00	90.50	0.35	4933.24	2313.86	14.06	2313.90	0.00	0.00	0.00	0.00
7200.00	90.50	0.35	4932.37	2413.85	14.67	2413.90	0.00	0.00	0.00	0.00
7300.00	90.50	0.35	4931.50	2513.85	15.28	2513.89	0.00	0.00	0.00	0.00
7400.00	90.50	0.35	4930.63	2613.84	15.88	2613.89	0.00	0.00	0.00	0.00
7500.00	90.50	0.35	4929.76	2713.83	16.49	2713.88	0.00	0.00	0.00	0.00
7600.00	90.50	0.35	4928.89	2813.83	17.10	2813.88	0.00	0.00	0.00	0.00
7700.00	90.50	0.35	4928.02	2913.82	17.70	2913.88	0.00	0.00	0.00	0.00
7800.00	90.50	0.35	4927.15	3013.82	18.31	3013.87	0.00	0.00	0.00	0.00
7900.00	90.50	0.35	4926.28	3113.81	18.92	3113.87	0.00	0.00	0.00	0.00
8000.00	90.50	0.35	4925.41	3213.81	19.52	3213.87	0.00	0.00	0.00	0.00
8100.00	90.50	0.35	4924.54	3313.80	20.13	3313.86	0.00	0.00	0.00	0.00
8200.00	90.50	0.35	4923.67	3413.79	20.74	3413.86	0.00	0.00	0.00	0.00
8300.00	90.50	0.35	4922.80	3513.79	21.35	3513.85	0.00	0.00	0.00	0.00
8400.00	90.50	0.35	4921.93	3613.78	21.95	3613.85	0.00	0.00	0.00	0.00
8500.00	90.50	0.35	4921.06	3713.78	22.56	3713.85	0.00	0.00	0.00	0.00
8600.00	90.50	0.35	4920.19	3813.77	23.17	3813.84	0.00	0.00	0.00	0.00
8700.00	90.50	0.35	4919.32	3913.77	23.77	3913.84	0.00	0.00	0.00	0.00
8737.14	90.50	0.35	4919.00	3950.91	24.00	3950.98	0.00	0.00	0.00	0.00

Section 5 : Start DLS 3.00 TFO 52.86

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	TFO deg
8737.24	90.50	0.35	4919.00	3951.00	24.00	3951.07	3.00	1.81	2.39	52.86

Survey

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

e
Planning Report

Company:	eog resources	**Date:** 12/13/2005	**Time:** 16:41:11	**Page:**	4
Field:	Thames	**Co-ordinate(NE) Reference:**	Site: Rio Grande 23 Fed #4H, Grid North		
Site:	Rio Grande 23 Fed #4H	**Vertical (TVD) Reference:**	SITE 3658.0		
Well:	Rio Grande 23 Fed #4H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.35Azi)		
Wellpath:	Rio Grande 23 Fed #4H	**Plan:**	Plan #1		

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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4568.00	0.00	0.00	4568.00	0.00	0.00	0.00	0.00	0.00	0.00	
4575.00	1.05	0.35	4575.00	0.06	0.00	0.06	15.00	15.00	0.00	
4600.00	4.80	0.35	4599.96	1.34	0.01	1.34	15.00	15.00	0.00	
4625.00	8.55	0.35	4624.79	4.24	0.03	4.25	15.00	15.00	0.00	
4650.00	12.30	0.35	4649.37	8.77	0.05	8.77	15.00	15.00	0.00	
4675.00	16.05	0.35	4673.61	14.89	0.09	14.89	15.00	15.00	0.00	
4700.00	19.80	0.35	4697.39	22.58	0.14	22.58	15.00	15.00	0.00	
4725.00	23.55	0.35	4720.62	31.81	0.19	31.81	15.00	15.00	0.00	
4750.00	27.30	0.35	4743.19	42.54	0.26	42.55	15.00	15.00	0.00	
4775.00	31.05	0.35	4765.02	54.73	0.33	54.73	15.00	15.00	0.00	
4800.00	34.80	0.35	4786.00	68.31	0.42	68.32	15.00	15.00	0.00	
4825.00	38.55	0.35	4806.04	83.24	0.51	83.25	15.00	15.00	0.00	
4850.00	42.30	0.35	4825.07	99.45	0.61	99.45	15.00	15.00	0.00	
4875.00	46.05	0.35	4843.00	116.87	0.71	116.87	15.00	15.00	0.00	
4900.00	49.80	0.35	4859.75	135.42	0.83	135.43	15.00	15.00	0.00	
4925.00	53.55	0.35	4875.25	155.03	0.95	155.03	15.00	15.00	0.00	

e
Planning Report

Company:	eog resources	**Date:** 12/13/2005 **Time:** 16:41:11 **Page:** 5	
Field:	Thames	**Co-ordinate(NE) Reference:**	Site: Rio Grande 23 Fed #4H, Grid North
Site:	Rio Grande 23 Fed #4H	**Vertical (TVD) Reference:**	SITE 3658.0
Well:	Rio Grande 23 Fed #4H	**Section (VS) Reference:**	Well (0.00N,0.00E,0.35Azi)
Wellpath:	Rio Grande 23 Fed #4H	**Plan:**	Plan #1

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
4950.00	57.30	0.35	4889.43	175.61	1.07	175.62	15.00	15.00	0.00	
4975.00	61.05	0.35	4902.24	197.08	1.20	197.08	15.00	15.00	0.00	
5000.00	64.80	0.35	4913.62	219.33	1.34	219.34	15.00	15.00	0.00	
5025.00	68.55	0.35	4923.52	242.28	1.48	242.29	15.00	15.00	0.00	
5050.00	72.30	0.35	4931.89	265.83	1.62	265.84	15.00	15.00	0.00	
5075.00	76.05	0.35	4938.71	289.88	1.77	289.89	15.00	15.00	0.00	
5100.00	79.80	0.35	4943.94	314.32	1.92	314.33	15.00	15.00	0.00	
5125.00	83.55	0.35	4947.55	339.06	2.07	339.06	15.00	15.00	0.00	
5150.00	87.30	0.35	4949.55	363.97	2.22	363.98	15.00	15.00	0.00	
5168.00	90.00	0.35	4949.97	381.96	2.33	381.97	15.00	15.00	0.00	
5184.61	90.50	0.35	4949.90	398.58	2.43	398.58	3.00	3.00	-0.01	
5200.00	90.50	0.35	4949.77	413.96	2.53	413.97	0.00	0.00	0.00	
5300.00	90.50	0.35	4948.90	513.96	3.13	513.97	0.00	0.00	0.00	
5400.00	90.50	0.35	4948.03	613.95	3.74	613.96	0.00	0.00	0.00	
5500.00	90.50	0.35	4947.16	713.95	4.35	713.96	0.00	0.00	0.00	
5600.00	90.50	0.35	4946.29	813.94	4.96	813.96	0.00	0.00	0.00	
5700.00	90.50	0.35	4945.42	913.94	5.56	913.95	0.00	0.00	0.00	
5800.00	90.50	0.35	4944.55	1013.93	6.17	1013.95	0.00	0.00	0.00	
5900.00	90.50	0.35	4943.68	1113.92	6.78	1113.94	0.00	0.00	0.00	
6000.00	90.50	0.35	4942.81	1213.92	7.38	1213.94	0.00	0.00	0.00	
6100.00	90.50	0.35	4941.94	1313.91	7.99	1313.94	0.00	0.00	0.00	
6200.00	90.50	0.35	4941.07	1413.91	8.60	1413.93	0.00	0.00	0.00	
6300.00	90.50	0.35	4940.20	1513.90	9.21	1513.93	0.00	0.00	0.00	
6400.00	90.50	0.35	4939.33	1613.90	9.81	1613.93	0.00	0.00	0.00	
6500.00	90.50	0.35	4938.46	1713.89	10.42	1713.92	0.00	0.00	0.00	
6600.00	90.50	0.35	4937.59	1813.88	11.03	1813.92	0.00	0.00	0.00	
6700.00	90.50	0.35	4936.72	1913.88	11.63	1913.91	0.00	0.00	0.00	
6800.00	90.50	0.35	4935.85	2013.87	12.24	2013.91	0.00	0.00	0.00	
6900.00	90.50	0.35	4934.98	2113.87	12.85	2113.91	0.00	0.00	0.00	
7000.00	90.50	0.35	4934.11	2213.86	13.45	2213.90	0.00	0.00	0.00	
7100.00	90.50	0.35	4933.24	2313.86	14.06	2313.90	0.00	0.00	0.00	
7200.00	90.50	0.35	4932.37	2413.85	14.67	2413.90	0.00	0.00	0.00	
7300.00	90.50	0.35	4931.50	2513.85	15.28	2513.89	0.00	0.00	0.00	
7400.00	90.50	0.35	4930.63	2613.84	15.88	2613.89	0.00	0.00	0.00	
7500.00	90.50	0.35	4929.76	2713.83	16.49	2713.88	0.00	0.00	0.00	
7600.00	90.50	0.35	4928.89	2813.83	17.10	2813.88	0.00	0.00	0.00	
7700.00	90.50	0.35	4928.02	2913.82	17.70	2913.88	0.00	0.00	0.00	
7800.00	90.50	0.35	4927.15	3013.82	18.31	3013.87	0.00	0.00	0.00	
7900.00	90.50	0.35	4926.28	3113.81	18.92	3113.87	0.00	0.00	0.00	
8000.00	90.50	0.35	4925.41	3213.81	19.52	3213.87	0.00	0.00	0.00	
8100.00	90.50	0.35	4924.54	3313.80	20.13	3313.86	0.00	0.00	0.00	
8200.00	90.50	0.35	4923.67	3413.79	20.74	3413.86	0.00	0.00	0.00	
8300.00	90.50	0.35	4922.80	3513.79	21.35	3513.85	0.00	0.00	0.00	
8400.00	90.50	0.35	4921.93	3613.78	21.95	3613.85	0.00	0.00	0.00	
8500.00	90.50	0.35	4921.06	3713.78	22.56	3713.85	0.00	0.00	0.00	
8600.00	90.50	0.35	4920.19	3813.77	23.17	3813.84	0.00	0.00	0.00	
8700.00	90.50	0.35	4919.32	3913.77	23.77	3913.84	0.00	0.00	0.00	
8737.14	90.50	0.35	4919.00	3950.91	24.00	3950.98	0.00	0.00	0.00	
8737.24	90.50	0.35	4919.00	3951.00	24.00	3951.07	3.00	1.81	2.39	

SITE DETAILS

Rio Grande 23 Fed #4H

Site Centre Northing: 692202.00
Easting: 428864.00

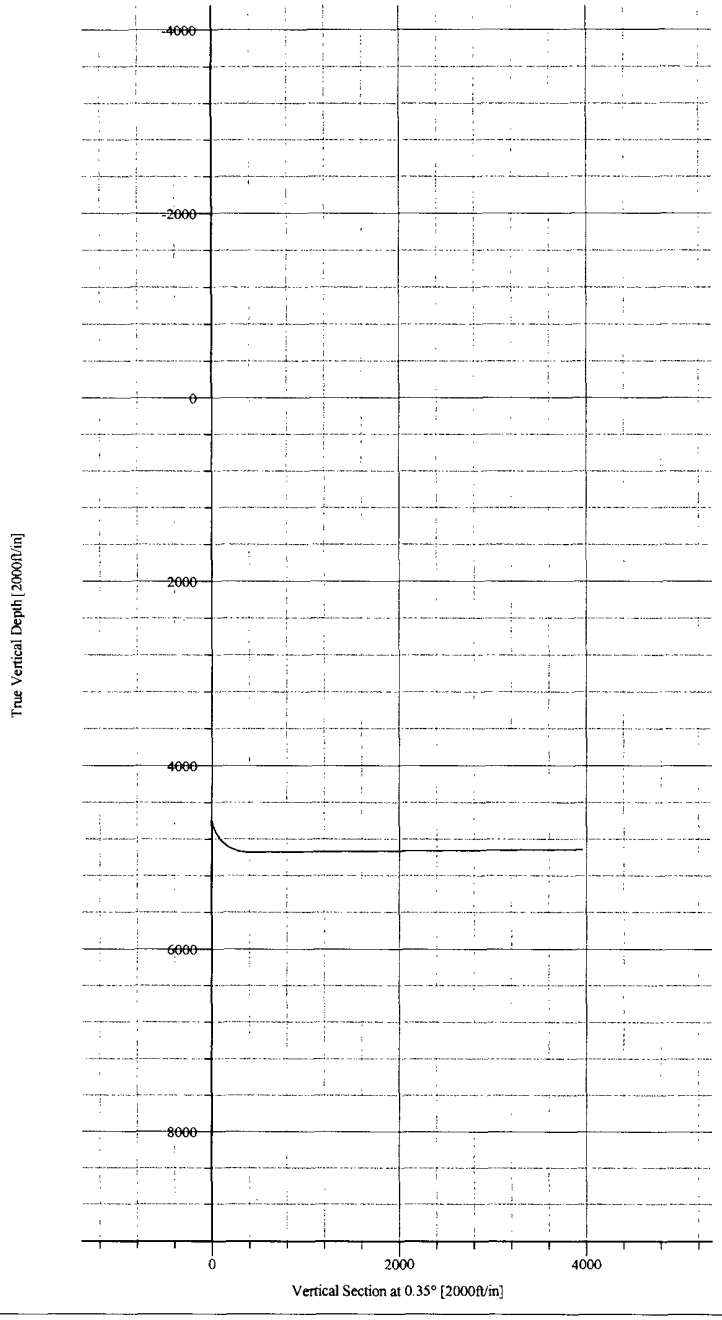
Ground Level: 3643.00
Positional Uncertainty: 0.00
Convergence: -0.13

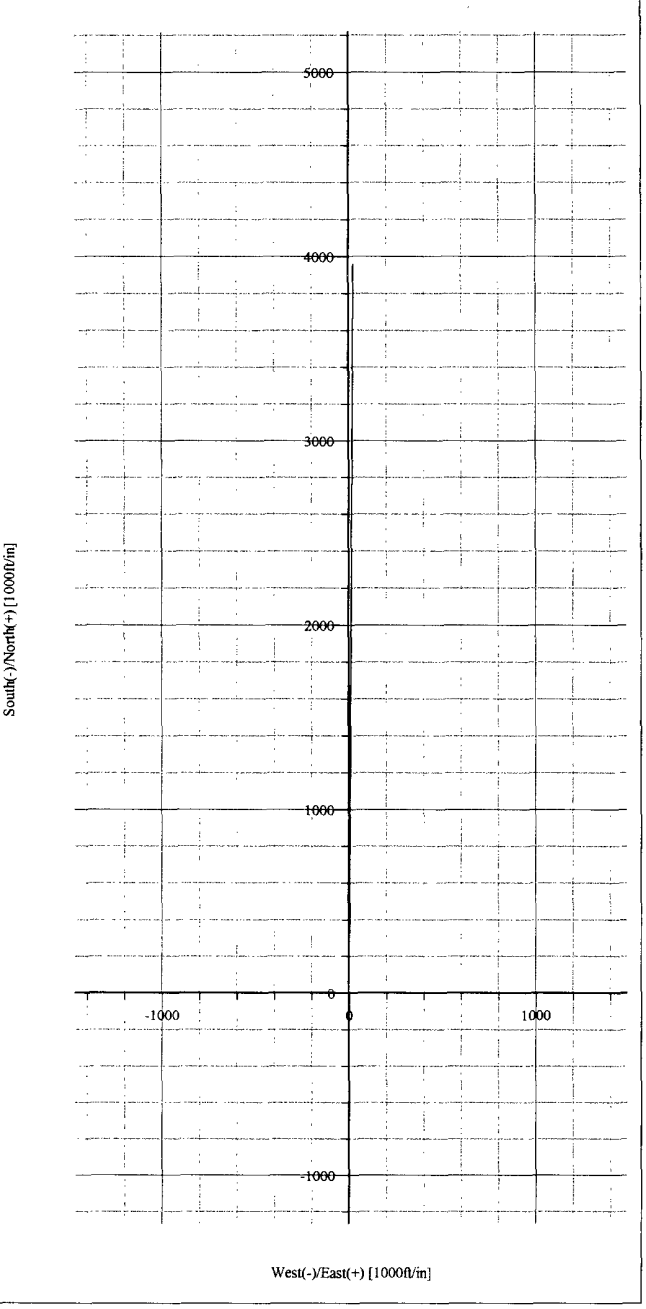
WELLPATH DETAILS

Rio Grande 23 Fed #4H

Rig:
Ref. Datum: SITE 3658.00ft

V.Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
0.35°	0.00	0.00	4919.00





DRILLING PROGRAM

EOG RESOURCES, INC.
Rio Grande 23 Fed No. 4H
Eddy Co. NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Quaternary Alluvium 0-200

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

San Andres	406'
Glorieta	1,727'
Tubb	3,038'
Abo Shale	3,671'
Wolfcamp Pay	4,706'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Quanterary Alluvium	0- 200'	Fresh Water
San Andres	406'	Oil
Glorieta	1,727'	Oil/Gas
Tubb	3,038'	Oil/Gas
Abo/Wolfcamp Pay	4,732'	Gas

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 9-5/8" casing at 900' and circulating cement back to surface.

4. CASING PROGRAM

Hole Size	Interval	OD Casing	Weight	Grade	Jt. Conn. Type
12 1/4"	0-900'	8-5/8"	32#	J-55	LT&C
7-7/8"	0-8737'	4-1/2"	11.6/13.5#	P-110	LT&C

Cementing Program:

8-5/8" Surface Casing:	Cement to surface with 150 sx Prem Plus, 3% Econolite, 2% Calcium Chloride, 0.25#/sx Flocele; 175 sx Prem Plus, 2% Calcium Chloride,025#/sx Flocele
:4-1/2" Production	Cement w350sx Interfill C,+ .25#sx Flocele;400 sx premium Cement,100% Acid soluble Additive,.6% Halad-344 +.8% Econolite+.2% HR-55. This cement slurry is designed to bring cement to surface

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000-psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All BOP's and accessory equipment will be tested in accordance with Onshore Oil & Gas order No. 2. EOG request authorization to use a 2M system, providing for an annular preventer to be used prior to drilling the surface casing shoe before drilling out of surface casing. Before drilling out of 1st intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/1000 psi and the annular to 3500/5000-psig pressure.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer mud system. The applicable depths and properties of this system are as follows:

Depth	Type	Wt (PPG)	Viscosit (sec)	Waterloss (cc)
0-900'	Fresh Water (Spud Mud)	8.6-8.8	28-34	N/c
900'-4400'	Cut Brine	8.8-9.2	28-34	N/c
4,400'-5,100'	Cut Brine	8.8-9.2	28-34	10-15
4,400'-8737'	Polymer (Lateral)	9.0-9.4	40-45	10-25

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

(C) A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 5000' to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Electric logging will consist of GR-Dual Laterlog-MSFL and GR-Compensated Density-Neutron from TD to intermediate casing with a GR- Compensated Neutron ran from Intermediate casing to surface..

Possible sidewall cores based on shows.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom hole temperature (BHT) at TD is 125 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 5000 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

DRILLING PROGRAM

EOG RESOURCES, INC.
Rio Grande 23 Fed No. 4H
Eddy Co. NM

SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS:

Access to location will be made as shown on Exhibit #2a,2b

Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. PROPOSED ACCESS ROAD:

467' new road construction (see exhibit 2a,2b

No turnouts necessary.

No gates, cattle guards of low water crossings are necessary

Surfacing material consists of native caliche to be obtained from the nearest BLM-approved caliche pit. Any additional materials required will be purchased from the dirt contractor.

3. LOCATION OF EXISTING WELLS:

Exhibit #3 shows all existing wells within a one-mile radius of this well.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

There are no existing production facilities. If production is encountered, a temporary facility will be established on the drill pad, and if warranted, a production facility would be built at a later date in the immediate area of the drill pad location. If the well is productive, gas pipeline will be constructed to nearest tie in point.

5. LOCATION AND TYPE OF WATER SUPPLY:

Fresh water and brine water for drilling will come from commercial sources and transported to the well site over the roads as shown on Exhibit #2.

6. PLANS FOR RESTORATION OF THE SURFACE:

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Location will be cleaned of all trash and junk to leave the well in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluid will be fenced until they are dry and back filled.

After abandonment of the well, surface restoration will be in accordance with current federal laws and regulations. Location will be cleaned, and the well pad removed to promote vegetation and disposal of human waste will be complied with. Trash, waste paper, garbage and junk will be hauled to an approved disposal site in an enclosed trash trailer.

All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

ANCILLARY FACILITIES:

No airstrip, campsite, or other facilities will be built.

WELL SITE LAYOUT:

Exhibit #4 shows the relative location and dimensions of the well pad.

OTHER INFORMATION:

The area around the well site is grassland and the topsoil is and sandy. The vegetation is native scrub grasses .

CERTIFICATION:

I HEREBY CERTIFY that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Jason LaGrega
Division Drilling Engineer

Date: 12/19/2005

DRILLING PROGRAM

EOG RESOURCES, INC.
Rio Grande 23 Fed No. 4H
Eddy Co. NM

ATTACHMENT TO EXHIBIT #1

1. Wear ring to be properly installed in head.

2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.

3. All fittings to be flanged

4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.

5. All choke and fill lines to be securely anchored especially ends of choke lines.

6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.

7. Kelly cock on kelly.

8. Extension wrenches and hand wheels to be properly installed.

9. Blow out preventer control to be located as close to driller's position as feasible.

10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

EOG Resources, Inc.

Rio Grande 23 Fed No.4H

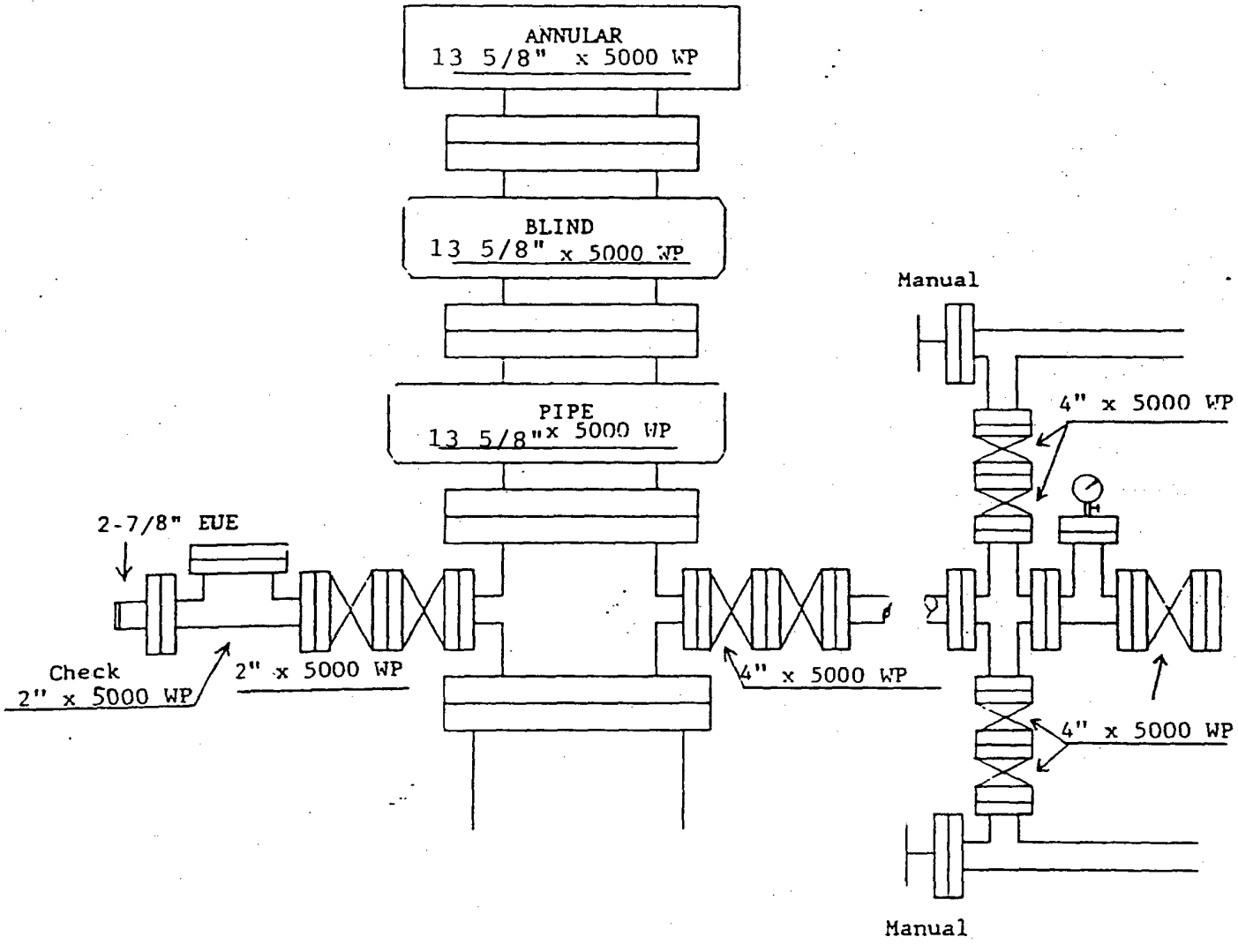
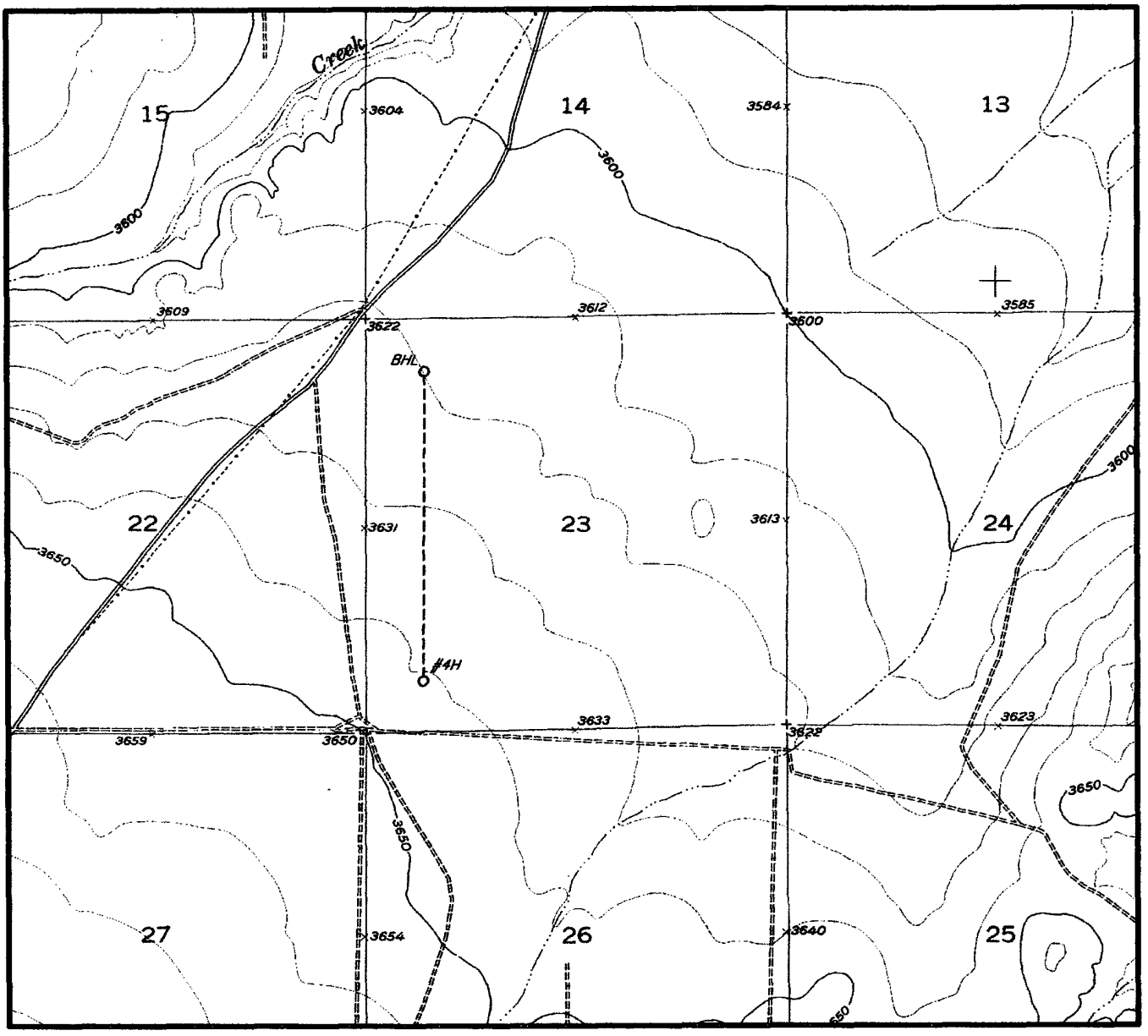


Exhibit 1

LOCATION & ELEVATION VERIFICATION MAP



SCALE : 1" = 2000' CONTOUR INTERVAL 5 FEET

Exhibit 2

SECTION 23 TWP 16-S RGE 24-E
SURVEY NEW MEXICO PRINCIPAL MERIDIAN
COUNTY EDDY STATE NM
DESCRIPTION 660' FSL & 760' FWL
ELEVATION 3643'

OPERATOR EOG RESOURCES INC.
LEASE RIO GRANDE "23" FED #4H

U.S.G.S. TOPOGRAPHIC MAP
HOPE SE, NEW MEXICO
LAT. LAT.: N 32.9027262
LONG. LONG.: W 104.5651078

-N-

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

Review this plat and notify us immediately of any possible discrepancy.

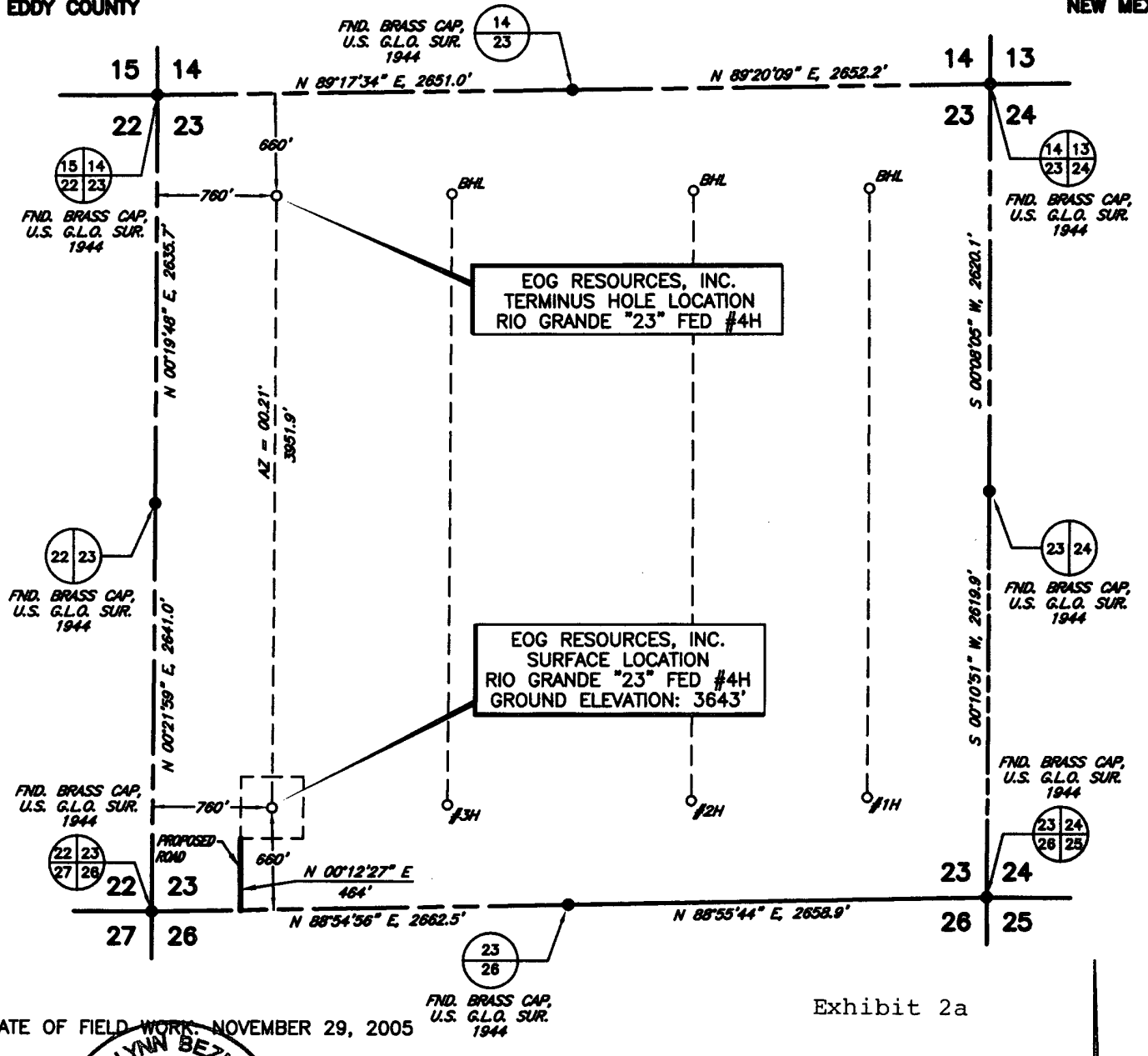
1307 N. HOBART
PAMPA, TX. 79065
(800) 658-6382

6709 N. CLASSEN BLVD.
OKLAHOMA CITY, OK. 73116
(800) 654-3219

2903 N. BIG SPRING
MIDLAND, TX. 79705
(800) 767-1653

SECTION 23, TOWNSHIP 16 SOUTH, RANGE 24 EAST, N.M.P.M.

EDDY COUNTY NEW MEXICO



DATE OF FIELD WORK: NOVEMBER 29, 2005

Exhibit 2a

I, V. L. BEZNER, A PROFESSIONAL SURVEYOR IN THE STATE OF NEW MEXICO AND AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, HEREBY CERTIFY THIS PLAT TO BE A TRUE REPRESENTATION OF A SURVEY PERFORMED IN THE FIELD UNDER MY SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT THIS PLAT AND FIELD SURVEY UPON WHICH IT IS BASED MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO. (RULE 500.6 EASEMENT SURVEYING)

V. L. BEZNER, P.S. NO. 7920

N

0 1000

1" = 1000'

BEARINGS AND COORDINATES BASED ON NEW MEXICO STATE PLANE GRID – EAST ZONE, NAD 27

NO.	REVISION	DATE	BY

SURVEYED BY: R.M.
DRAWN BY: E.U.O.
APPROVED BY: V.L.B.

EOG RESOURCES, INC.

SURVEYING AND MAPPING BY
TOPOGRAPHIC LAND SURVEYORS
MIDLAND, TEXAS

SCALE: 1" = 1000'
DATE: NOVEMBER 29, 2005
JOB NO.: 108530-F
QUAD NO.: 101 SE
SHEET : 1 OF 2

Statement Accepting Responsibility For Operations
Rio Grande 23 Fed. No.4H

Operator Name: EOG Resources, Inc.
Street or Box: P.O. Box 2267
City, State: Midland, TX
Zip Code: 79702

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.: NMNM 108950

Legal Description of Land W/2 Sec.23 T-16-S; R-24-E Eddy Co. NM **Formation(s) (if applicable)**:

Bond Coverage: (*State if individually bonded or another's bond*) ~~Individually~~ NATIONWIDE (EAH)

BLM Bond File No.: NM2308

Authorized Signature: Mike Francis

Title: Agent

Date 1/27/2006

CONDITIONS OF APPROVAL - DRILLING

Operator's Name:	**EOG RESOURCES, INC.**
Well Name & No.	**4H – RIO GRANDE 23 FEDERAL**
Location:	**660' FSL & 760' FWL – SEC 23 – T16S – R24E – EDDY COUNTY (SHL)**
	660' FNL & 760' FWL – SEC 23 – T16S – R24E – EDDY COUNTY (BHL)
Lease:	**NM-108950**

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at the Roswell Field Office, 2909 West Second St., Roswell NM 88201, (505) 627-0272 for wells in Chaves and Roosevelt Counties; the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (505) 234-5909 or (505) 361-2822 (After hours) - for wells in Eddy County; and the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (505) 393-3612 for wells in Lea County, in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: **8-5/8** inch **4-1/2** inch

C. BOP tests

2 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.

3. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

4. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

II. CASING:

1. The **8-5/8** inch surface casing shall be set at **900 feet**, below usable water and cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the **4-1/2** inch production casing is **cement shall extend upward a minimum of 500 feet above the uppermost hydrocarbon bearing interval.** CIRCULATE TO SURFACE. (SL)

III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the **8-5/8** inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling the surface shall be **2000** psi. Minimum working pressure of the blowout preventer and related equipment (BOPE) required for drilling below the **8-5/8** inch casing shall be ~~3000~~ 2000 psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the tests.
- The tests shall be done by an independent service company.
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in a safe workman-like manner. Hard line connections shall be required.
- BOPE must be tested prior to drilling into the **Wolfcamp** Formation by an independent service company.

IV. DRILLING MUD:

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** Formation, and shall be used until production casing is run and cemented. Monitoring equipment shall consist of the following:

1. Recording pit level indicator to indicate volume gains and losses.
2. Mud measuring device for accurately determining the mud volumes necessary to fill the hole during trips.
3. Flow-sensor on the flow line to warn of abnormal mud returns from the well.