

DATE IN 9/8/06	SUSPENSE	ENGINEER M. STOGNER	LOGGED IN 9/11/06	TYPE SD	APP NO. PTD506.25429701
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

**[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]**

- [1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**
 [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☒ SD
- Check One Only for [B] or [C]
 [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
 [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
 [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply**
 [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS T
 OF APPLICATION INDICATED ABOVE.**

- [4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

<u>Ocean Munds-Dry</u> Print or Type Name	<u>Ocean Munds-Dry</u> Signature	<u>Attorney</u> Title	<u>9-8-06</u> Date
		<u>omundsdry@hollandhart.com</u> e-mail Address	



September 8, 2006

HAND-DELIVERED

Mark E. Fesmire, P. E.
Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Application of EOG Resources, Inc. for administrative approval of the simultaneous dedication of the W/2 of Section 23, Township 16 South, Range 24 East, N.M.P.M., Eddy County, New Mexico to its proposed Rio Grande 23 Fed Well No. 4H and the existing Rio Grande 23 Fed Well No. 3H.

Dear Mr. Fesmire:

EOG Resources, Inc. is the operator of a standard 320-acre spacing unit in the Undesignated Cottonwood Creek-Wolfcamp West Gas Pool (**Pool Code 75260**) comprised of the W/2 of Section 23, Township 16 South, Range 24 East, N.M.P.M., Eddy County, New Mexico. This spacing unit is dedicated to EOG's Rio Grande 23 Fed Well No. 3H which has been horizontally drilled and produces from the Wolfcamp formation.

EOG seeks administrative approval of the simultaneous dedication of this standard 320-acre gas spacing unit to the following two horizontal gas wells:

- A. the existing Rio Grande 23 Fed Well No. 3H (**API No. 30-015-34591**) horizontally drilled from a surface location 660 feet from the South line and 1880 feet from the West line to a bottomhole location in the Wolfcamp formation 660 feet from the North line and 1880 feet from the West line of said Section 23; and
- B. the proposed Rio Grande 23 Fed Well No. 4H (**API No. 30-015-34592**) to be horizontally drilled from an unorthodox surface location 660 feet from the South line and 760 feet from the West line to a proposed end point or



bottomhole location 660 feet from the North line and 760 feet from the West line of said Section 23.

The wellbore directional survey of the Rio Grande 23 Fed Well No. 3H has been filed with the Division and shows the path of the wellbore within the Wolfcamp formation to be standard pursuant to Division Rules 104.C (2) (a) and 111.A (7). EOG now intends to horizontally drill and complete its proposed Rio Grande 23 Fed Well No. 4H to be drilled to the targeted subsurface end-point or bottomhole location, 660 feet from the North line and 760 feet from the West line (Unit D) of Section 23. EOG proposes to drill this well in compliance with the set-back requirements of Division Rules 104.C(2) 9b) and 111.A(7) for deep gas wells in southeast New Mexico.

Attached hereto as Exhibit A is a copy of Division Form C-102 for these wells that shows the proposed surface and bottomhole location of the well. Exhibit B is EOG's Planning Report for the well that confirms the projected wellbore deviation.

The simultaneous dedication of the W/2 of said Section 23 to the Rio Grande 23 Fed Well Nos. 3H and 4H will afford EOG the opportunity to efficiently produce the Wolfcamp formation under this spacing unit. EOG's proposed simultaneous dedication of these wells does not exceed the number of wells allowed by Division Rule for this spacing unit nor will either well be closer to the outer boundary of the horizontal well project area than permitted by Division rules. Accordingly, there are no other interest owners who are affected by this application.

Your attention to this application is appreciated.

Sincerely,

A handwritten signature in black ink that reads "Ocean Munds-Dry". The signature is written in a cursive, flowing style.

Ocean Munds-Dry
Attorney for EOG Resources, Inc.

Enclosures

Form 3160-3
(August 1999)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 03 2006

OCU-ARTESIA

FORM APPROVED
OMB No. 1004-0138
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM 108950	
1b. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator EOG Resources, Inc.		7. If Unit or CA Agreement, Name and No.	
3a. Address P.O. Box 2267 Midland, TX 79702		8. Lease Name and Well No. Rio Grande 23 Fed No 3H	
3b. Phone No. (include area code) (432) 686-3714		9. API Well No. 30-015-34591	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 660' FSL & 1880' FWL (U/LN) At proposed prod. Zone 660' FNL & 1880' FWL (U/L C)		10. Field and Pool, or Exploratory Undes Cottonwood Creek; Wolfcamp, West	
14. Distance in miles and direction from nearest town or post office* 4 mi. NW from Artesia		11. Sec., T., R., M., or Bk. And Survey or Area Sed 23 T-16-S; R-24-E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any) 660		12. County or Parish Eddy	
16. No. of Acres in lease 1,120		13. State NM	
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'		20. BLM/BIA Bond No. on file NM2308	
19. Proposed Depth 5400' TVD TMD 8730"			
21. Elevations (Show whether DF, KDB, RT, GL, etc) Gr 3637		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 and Gas Order No. 1, shall be attached to this form:

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

25. Signature <i>Mike Francis</i>	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 rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached

APPROVAL FOR 1 YEAR

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 reverse)

Roswell Controlled Water Basin

WITNESS: 8 3/4" 256 LMT JOB
SD Required To Produce
Drill only

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

EXHIBIT A

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Santa Fe, New Mexico 87505

Fee Lease - 3 copies

☐ **AMENDED REPORT**

Standard 640-use Section

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

(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 03 2006

UCC-ARTESIA

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

35049

1b. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator

EOG Resources, Inc.

7377

3a. Address

P.O. Box 2267 Midland, TX 79702

3b. Phone No. (include area code)

(432) 886-3714

75240

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)

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.

660

(Also to nearest drig. Unit line, if any)

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 and 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 System 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

ACTING

FIELD MANAGER

Office

CARLSBAD FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which the applicant is required to conduct operations thereon.

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 jurisdiction.

*(Instructions on reverse)

Roswell Controlled Water Basin

WITNESS: 8 1/2" CSG CMT JOB

Drill Only

SD required to produce

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

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 75266	3 Pool Name UNdes Cottonwood Creek Wolfcamp, west
4 Property Code	5 Property Name RIO GRANDE "23" FED	6 Well Number 4H
7 OGRID No. 7377	8 Operator Name EOG RESOURCES, INC.	9 Elevation 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 320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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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. Mike Francis Agent 12/19/2005
	18 SURVEYOR CERTIFICATION I hereby certify that the information shown on this plat was plotted from field notes or other reliable data and under my supervision, and that the same are true and correct to the best of my belief. Date of Survey Signature of Professional Surveyor V. A. BEZNER R.P.S. #7020 JOB #108530 / 101 SE / E.U.O.

e Planning Report

Company: eog resources	Date: 12/13/2005	Time: 16:26:11	Page: 1
Field: Thames	Co-ordinate(NE) Reference: Site: Rio Grande 23 Fed #3H Grid North		
Site: Rio Grande 23 Fed #3H	Vertical (TVD) Reference: SITE 3654.0		
Well: Rio Grande 23 Fed #3H	Section (VS) Reference: Well (0.00N,0.00E,0.35Az)		
Wellpath: Rio Grande 23 Fed #3H	Plan: Plan #1		

Field: Thames

Map System: US State Plane Coordinate System 1927
 Geo Datum: NAD27 (Clarke 1866)
 Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
 Coordinate System: Site Centre
 Geomagnetic Model: lgrf2000

Site: Rio Grande 23 Fed #3H

Site Position:	Northing: 692223.00 ft	Latitude: 32 54 10.050 N	
From: Map	Easting: 429984.00 ft	Longitude: 104 33 41.250 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 3637.00 ft		Grid Convergence: -0.12 deg	

Well: Rio Grande 23 Fed #3H

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 692223.00 ft	Latitude: 32 54 10.050 N	
+E/-W 0.00 ft	Easting: 429984.00 ft	Longitude: 104 33 41.250 W	
Position Uncertainty: 0.00 ft			

Wellpath: Rio Grande 23 Fed #3H

Drilled From: Surface	
Tie-on Depth: 0.00 ft	
Above System Datum: Mean Sea Level	
Declination: 9.02 deg	
Mag Dip Angle: 60.87 deg	
+E/-W Direction	
ft deg	
0.00 0.35	

Current Datum: SITE	Height 3654.00 ft
Magnetic Data: 12/13/2005	
Field Strength: 49665 nT	
Vertical Section: Depth From (TVD)	+N/-S
ft	ft
4919.00	0.00

Plan: Plan #1

Date Composed: 12/13/2005
 Version: 1
 Tied-to: From Surface

Principal: Yes

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	
5184.64	90.50	0.35	4949.90	398.61	2.43	3.00	3.00	-0.01	-0.17	
8730.18	90.50	0.35	4919.00	3943.95	24.00	0.00	0.00	0.00	0.00	
8730.24	90.50	0.35	4919.00	3944.00	24.00	3.00	1.22	2.74	65.94	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: 16:26:11	Page: 2
Field: Thames	Co-ordinate(NE) Reference: Site: Rio Grande 23 Fed #3H, Grid: North		
Site: Rio Grande 23 Fed #3H	Vertical (TVD) Reference: SITE 3654.0		
Well: Rio Grande 23 Fed #3H	Section (VS) Reference: Well (0.00N,0.00E,0.35Azi)		
Wellpath: Rio Grande 23 Fed #3H	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

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Company: eog resources Date: 12/13/2005 Time: 16:26:11 Page: 3
Field: Thames Co-ordinate(N/E) Reference: Site: Rio Grande 23 Fed #3H, Grid North
Site: Rio Grande 23 Fed #3H Vertical (TVD) Reference: SITE 3654.0
Well: Rio Grande 23 Fed #3H Section (VS) Reference: Well (0.00N 0.00E/0.35Az)
Wellbath: Rio Grande 23 Fed #3H Plan: Plan #1

Section 3 : Start DLS 3.00 TFO -0.17

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
5184.64	90.50	0.35	4949.90	398.61	2.43	398.62	3.00	3.00	-0.01	-0.17

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	4948.89	513.86	3.14	513.97	0.00	0.00	0.00	0.00
5400.00	90.50	0.35	4948.02	613.95	3.74	613.96	0.00	0.00	0.00	0.00
5500.00	90.50	0.35	4947.15	713.95	4.35	713.96	0.00	0.00	0.00	0.00
5600.00	90.50	0.35	4946.28	813.94	4.96	813.96	0.00	0.00	0.00	0.00
5700.00	90.50	0.35	4945.41	913.94	5.57	913.95	0.00	0.00	0.00	0.00
5800.00	90.50	0.35	4944.54	1013.93	6.18	1013.95	0.00	0.00	0.00	0.00
5900.00	90.50	0.35	4943.67	1113.92	6.79	1113.94	0.00	0.00	0.00	0.00
6000.00	90.50	0.35	4942.79	1213.92	7.39	1213.94	0.00	0.00	0.00	0.00
6100.00	90.50	0.35	4941.92	1313.91	8.00	1313.94	0.00	0.00	0.00	0.00
6200.00	90.50	0.35	4941.05	1413.91	8.61	1413.93	0.00	0.00	0.00	0.00
6300.00	90.50	0.35	4940.18	1513.90	9.22	1513.93	0.00	0.00	0.00	0.00
6400.00	90.50	0.35	4939.31	1613.90	9.83	1613.93	0.00	0.00	0.00	0.00
6500.00	90.50	0.35	4938.44	1713.89	10.44	1713.92	0.00	0.00	0.00	0.00
6600.00	90.50	0.35	4937.56	1813.88	11.04	1813.92	0.00	0.00	0.00	0.00
6700.00	90.50	0.35	4936.69	1913.88	11.65	1913.91	0.00	0.00	0.00	0.00
6800.00	90.50	0.35	4935.82	2013.87	12.26	2013.91	0.00	0.00	0.00	0.00
6900.00	90.50	0.35	4934.95	2113.87	12.87	2113.91	0.00	0.00	0.00	0.00
7000.00	90.50	0.35	4934.08	2213.86	13.48	2213.90	0.00	0.00	0.00	0.00
7100.00	90.50	0.35	4933.21	2313.86	14.08	2313.90	0.00	0.00	0.00	0.00
7200.00	90.50	0.35	4932.34	2413.85	14.69	2413.90	0.00	0.00	0.00	0.00
7300.00	90.50	0.35	4931.46	2513.84	15.30	2513.89	0.00	0.00	0.00	0.00
7400.00	90.50	0.35	4930.59	2613.84	15.91	2613.89	0.00	0.00	0.00	0.00
7500.00	90.50	0.35	4929.72	2713.83	16.52	2713.88	0.00	0.00	0.00	0.00
7600.00	90.50	0.35	4928.85	2813.83	17.13	2813.88	0.00	0.00	0.00	0.00
7700.00	90.50	0.35	4927.98	2913.82	17.73	2913.88	0.00	0.00	0.00	0.00
7800.00	90.50	0.35	4927.11	3013.82	18.34	3013.87	0.00	0.00	0.00	0.00
7900.00	90.50	0.35	4926.24	3113.81	18.95	3113.87	0.00	0.00	0.00	0.00
8000.00	90.50	0.35	4925.36	3213.81	19.56	3213.86	0.00	0.00	0.00	0.00
8100.00	90.50	0.35	4924.49	3313.80	20.17	3313.86	0.00	0.00	0.00	0.00
8200.00	90.50	0.35	4923.62	3413.79	20.77	3413.86	0.00	0.00	0.00	0.00
8300.00	90.50	0.35	4922.75	3513.79	21.38	3513.85	0.00	0.00	0.00	0.00
8400.00	90.50	0.35	4921.88	3613.78	21.99	3613.85	0.00	0.00	0.00	0.00
8500.00	90.50	0.35	4921.01	3713.78	22.60	3713.85	0.00	0.00	0.00	0.00
8600.00	90.50	0.35	4920.13	3813.77	23.21	3813.84	0.00	0.00	0.00	0.00
8700.00	90.50	0.35	4919.26	3913.77	23.82	3913.84	0.00	0.00	0.00	0.00
8730.18	90.50	0.35	4919.00	3943.95	24.00	3944.02	0.00	0.00	0.00	0.00

Section 5 : Start DLS 3.00 TFO 65.94

MD ft	Incl deg	Azim deg	TVD ft	+N/S ft	+E/W ft	VS ft	DLS deg/100ft	Bulld deg/100ft	Turn deg/100ft	TFO deg
8730.24	90.50	0.35	4919.00	3944.00	24.00	3944.07	3.00	1.22	2.74	65.94

Survey

[illegible]

e Planning Report

Company: eog resources	Date: 12/13/2005	Time: 16:26:11	Page: 4
Field: Thames	Co-ordinate(NE) Reference: Site: Rio Grande 23 Fed #3H	Grid: North	
Site: Rio Grande 23 Fed #3H	Vertical (TVD) Reference: SITE 3654.0		
Well: Rio Grande 23 Fed #3H	Section (VS) Reference: Well (0.00N:0.00E:0.35Az)		
Wellpath: Rio Grande 23 Fed #3H	Plan: Plan #1		

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Bulld 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: 16:26:11	Page: 5
Field: Thames	Co-ordinate(NE) Reference: Site: Rio Grande 23 Fed #3H, Grid North		
Site: Rio Grande 23 Fed #3H	Vertical (FVD) Reference: SITE 3654.0		
Well: Rio Grande 23 Fed #3H	Section (VS) Reference: Well (0.00N:0.00E:0.35Azi)		
Wellpath: Rio Grande 23 Fed #3H	Plan: Plan #1		

Survey

MD ft	Incl deg	Azim deg	FVD 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	
5184.64	90.50	0.35	4949.90	398.61	2.43	398.62	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	4948.89	513.96	3.14	513.97	0.00	0.00	0.00	
5400.00	90.50	0.35	4948.02	613.95	3.74	613.96	0.00	0.00	0.00	
5500.00	90.50	0.35	4947.15	713.95	4.35	713.96	0.00	0.00	0.00	
5600.00	90.50	0.35	4946.28	813.94	4.96	813.96	0.00	0.00	0.00	
5700.00	90.50	0.35	4945.41	913.94	5.57	913.95	0.00	0.00	0.00	
5800.00	90.50	0.35	4944.54	1013.93	6.18	1013.95	0.00	0.00	0.00	
5900.00	90.50	0.35	4943.67	1113.92	6.79	1113.94	0.00	0.00	0.00	
6000.00	90.50	0.35	4942.79	1213.92	7.39	1213.94	0.00	0.00	0.00	
6100.00	90.50	0.35	4941.92	1313.91	8.00	1313.94	0.00	0.00	0.00	
6200.00	90.50	0.35	4941.05	1413.91	8.61	1413.93	0.00	0.00	0.00	
6300.00	90.50	0.35	4940.18	1513.90	9.22	1513.93	0.00	0.00	0.00	
6400.00	90.50	0.35	4939.31	1613.90	9.83	1613.93	0.00	0.00	0.00	
6500.00	90.50	0.35	4938.44	1713.89	10.44	1713.92	0.00	0.00	0.00	
6600.00	90.50	0.35	4937.56	1813.88	11.04	1813.92	0.00	0.00	0.00	
6700.00	90.50	0.35	4936.69	1913.88	11.65	1913.91	0.00	0.00	0.00	
6800.00	90.50	0.35	4935.82	2013.87	12.26	2013.91	0.00	0.00	0.00	
6900.00	90.50	0.35	4934.95	2113.87	12.87	2113.91	0.00	0.00	0.00	
7000.00	90.50	0.35	4934.08	2213.86	13.48	2213.90	0.00	0.00	0.00	
7100.00	90.50	0.35	4933.21	2313.86	14.08	2313.90	0.00	0.00	0.00	
7200.00	90.50	0.35	4932.34	2413.85	14.69	2413.90	0.00	0.00	0.00	
7300.00	90.50	0.35	4931.46	2513.84	15.30	2513.89	0.00	0.00	0.00	
7400.00	90.50	0.35	4930.59	2613.84	15.91	2613.89	0.00	0.00	0.00	
7500.00	90.50	0.35	4929.72	2713.83	16.52	2713.88	0.00	0.00	0.00	
7600.00	90.50	0.35	4928.85	2813.83	17.13	2813.88	0.00	0.00	0.00	
7700.00	90.50	0.35	4927.98	2913.82	17.73	2913.88	0.00	0.00	0.00	
7800.00	90.50	0.35	4927.11	3013.82	18.34	3013.87	0.00	0.00	0.00	
7900.00	90.50	0.35	4926.24	3113.81	18.95	3113.87	0.00	0.00	0.00	
8000.00	90.50	0.35	4925.36	3213.81	19.56	3213.86	0.00	0.00	0.00	
8100.00	90.50	0.35	4924.49	3313.80	20.17	3313.86	0.00	0.00	0.00	
8200.00	90.50	0.35	4923.62	3413.79	20.77	3413.86	0.00	0.00	0.00	
8300.00	90.50	0.35	4922.75	3513.79	21.38	3513.85	0.00	0.00	0.00	
8400.00	90.50	0.35	4921.88	3613.78	21.99	3613.85	0.00	0.00	0.00	
8500.00	90.50	0.35	4921.01	3713.78	22.60	3713.85	0.00	0.00	0.00	
8600.00	90.50	0.35	4920.13	3813.77	23.21	3813.84	0.00	0.00	0.00	
8700.00	90.50	0.35	4919.26	3913.77	23.82	3913.84	0.00	0.00	0.00	
8730.18	90.50	0.35	4919.00	3943.95	24.00	3944.02	0.00	0.00	0.00	
8730.24	90.50	0.35	4919.00	3944.00	24.00	3944.07	3.00	1.22	2.74	

SITE DETAILS

Rio Grande 23 Fed #3H

Site Centre Northing: 692223.00
Easting: 429984.00

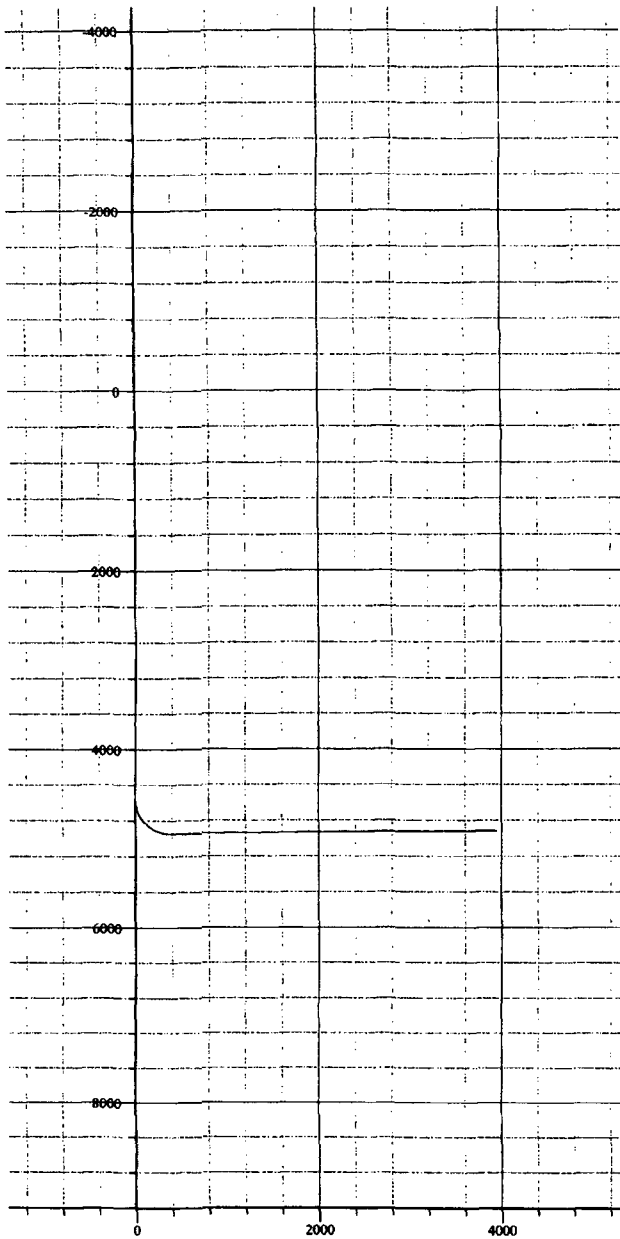
Ground Level: 3637.00
Positional Uncertainty: 0.00
Convergence: -0.12

WELLPATH DETAILS

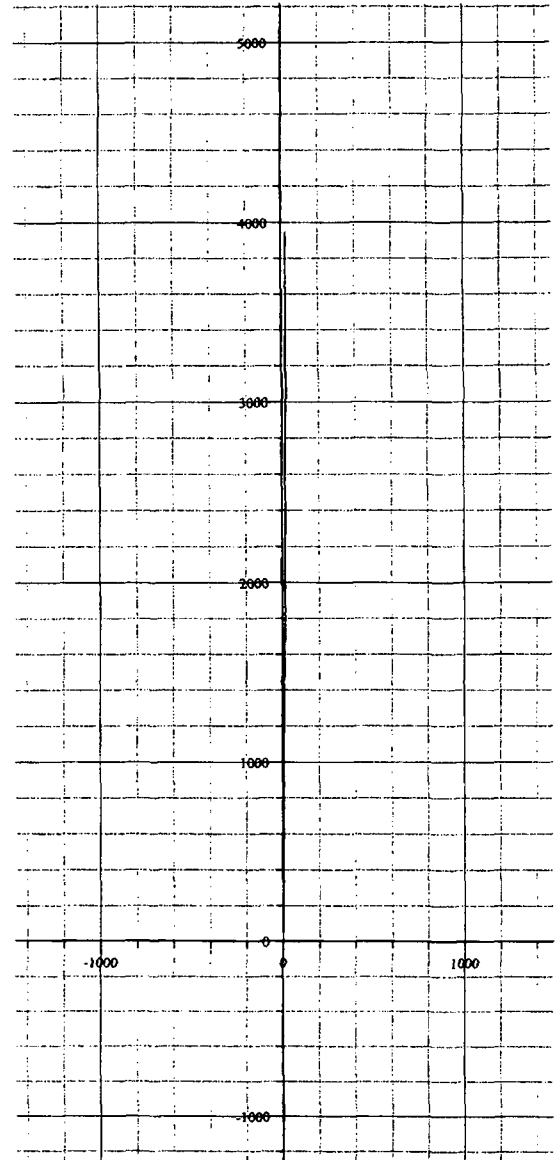
Rio Grande 23 Fed #3H

Rig:	SITE 3654.00ft		
Ref. Datum:	Origin +N/-S	Origin +E/-W	Starting From TVD
V. Section Angle	0.35°	0.00	4919.00

True Vertical Depth (2000ft/in)



South(-)/North(+) (1000ft/in)



West(-)/East(+) (1000ft/in)

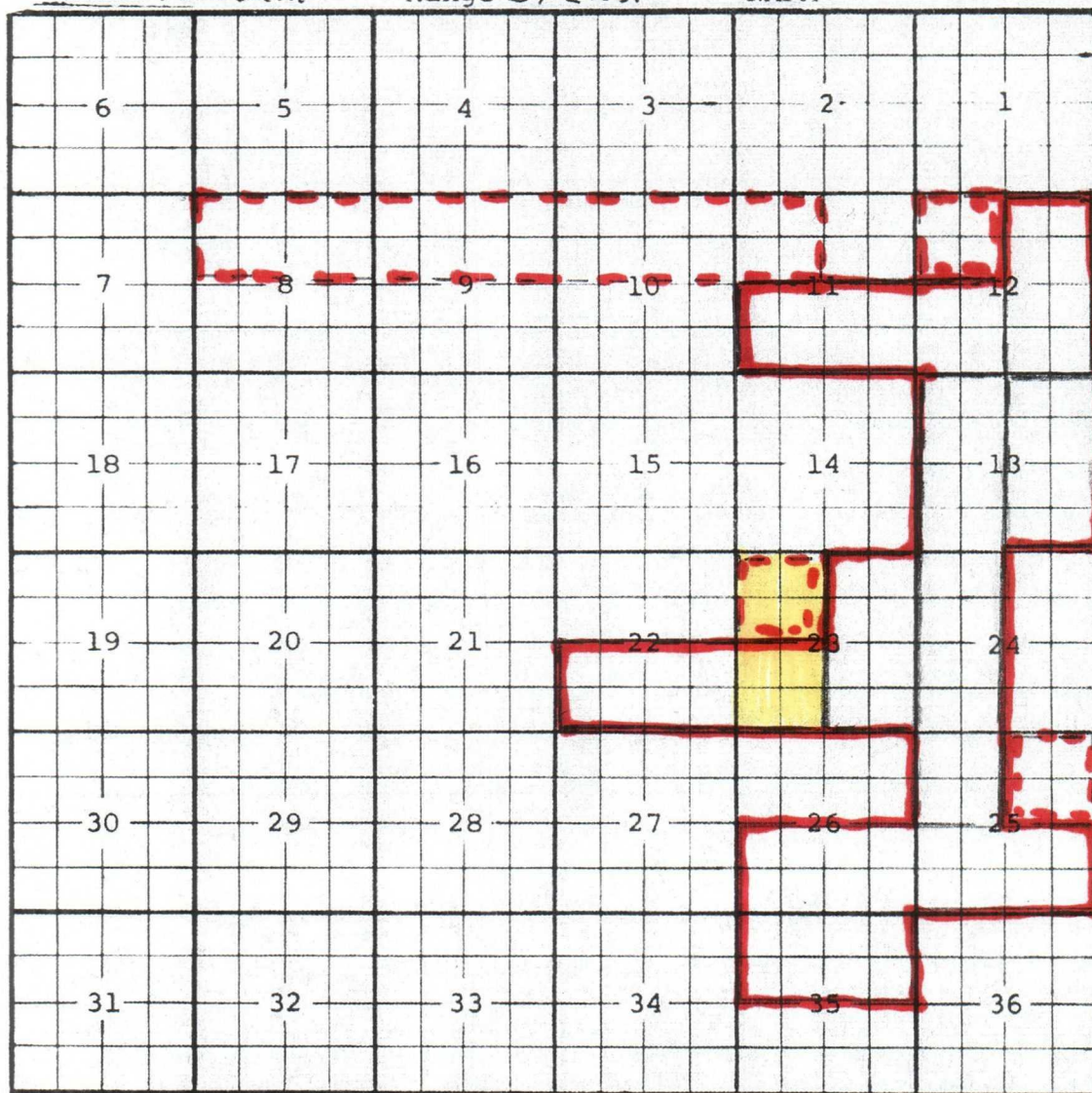
County Eddy

Pool West Cottonwood Creek-Wolfcamp Gas

TOWNSHIP 16 South

Range 24 East

NMPM



Description: $\frac{1}{2}$ Sec 25, $\frac{1}{2}$ Sec 26, $\frac{1}{2}$ Sec 35 (R-5609, 1-1-78)

Ext: $\frac{1}{2}$ Sec. 13, $\frac{1}{2}$ Sec. 24, $\frac{1}{4}$ Sec. 25 (R-12458, 11-21-05)

Ext: $\frac{1}{2}$ Sec. 23 (R-12502, 2-13-06) Ext: $\frac{1}{2}$ Sec. 13 (R-12530, 3-30-06)

Ext: $\frac{1}{2}$ Sec. 12 (R-12574, 6-23-06) Ext: $\frac{1}{2}$ Sec. 11, $\frac{1}{4}$ Sec. 12 (R-12619, 8-22-06)

Ext: $\frac{1}{2}$ Sec. 22, $\frac{1}{4}$ Sec. 23 (R-12638, 9-20-06)