N.M. Oil Cons. DIV-Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANGEMENT

RECEIVED
JUN 27 2005
OCD-ARTESIA

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: [X] DRILL [ ] REENTER	5. Lease Serial No. NMNM 108958
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [ ] Single Zone [ ] Multiple Zone	8. Lease Name and Well No. Rhine 13 Fed No.1 34919
2. Name of Operator EOG Resources, Inc. 7377 Undes. Collins Ranch; Wolfcamp, NE	9. API Well No. 30-015-34184
3a. Address P.O. Box 2267 Midland, TX 79702	3b. Phone No. (include area code) (432) 686-3714
	10. Field and Pool, or Exploratory 96623
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 150' FEL & ~~1880~~ 1680' FSL (U/L I) per attached SN dated 5/17/05 SUBJECT TO LIKE APPROVAL BY STATE At proposed prod. Zone 660' FWL & 1880' FSL (U/L L)	11. Sec., T., R., M., or Blk. And Survey or Area Sec.13 T-17-S; R-25-E 24E
14. Distance in miles and direction from nearest town or post office* 4 Mi. SW from Artesia NM	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) 150	16. No. of Acres in lease 1,360 / 17. Spacing Unit dedicated to this well 320 ac. S/2 Sec.13
18. Distance from proposed location* to nearest well, drilling, completed applied for, on this lease, ft. na	19. Proposed Depth TVD 5200 TMD 9702 / 20. BLM/BIA Bond No. on file NM2308
21. Elevations (Show whether DF, KDB, RT, GL, etc) Gr 3666	22. Approximate date work will start* 6/15/2005 / 23. Estimated duration 30 days

RECEIVED
JUN 27 2005
OCD-ARTESIA

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	Name (Printed/Typed)	Date
Mike Francis	Mike Francis	4/7/2005
Title Agent		

Approved by (Signature)	Name (Printed/Typed)	Date
/s/ Joe G. Lara	/s/ Joe G. Lara	JUN 23 2005
Title 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 theron.
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 jurisidiction.

*(Instructions on reverse)

Roswell Controlled Water Basin

WITNESS 9 5/8" SURFACE CSG CEMENT JOB

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
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-144
March 12, 2004

For drilling and production facilities, submit to 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 ☒
Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: EOG Resources, Inc. Telephone: 432 686-3714 e-mail address: mike_francis@eogresources.com
Address: P.O. Box 2267 Midland Texas 79702
Facility or well name: Rhine 13 Fed No 1 API #: 30-015-34184 U/L or Qtr/Qtr I Sec 13 T 17 R 24
County: Eddy Latitude 32.83350 Longitude 104.53341 NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☐ State ☐ Private ☐ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type: Synthetic ☒ Thickness 12 mil Clay ☐ Volume 2000 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	(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	(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	(20 points) (10 points) (0 points)
	Ranking Score (Total Points)	0

RECEIVED
MAY 09 2005
OCD-ARTESIA

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: 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.

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 ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**
Date: 5/6/05
Printed Name/Title Mike Francis Agent Signature Mike Francis

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
Date: MAY 12 2005
Printed Name/Title Field Rep II Signature

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
		Wildcat

4 Property Code	5 Property Name	6 Well Number
	RHINE "13" FED	1H

7 OGRID No.	8 Operator Name	9 Elevation
7377	EOG RESOURCES, INC.	3666'

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
I	13	17 SOUTH	24 EAST, N.M.P.M.		1680'	SOUTH	150'	EAST	EDDY

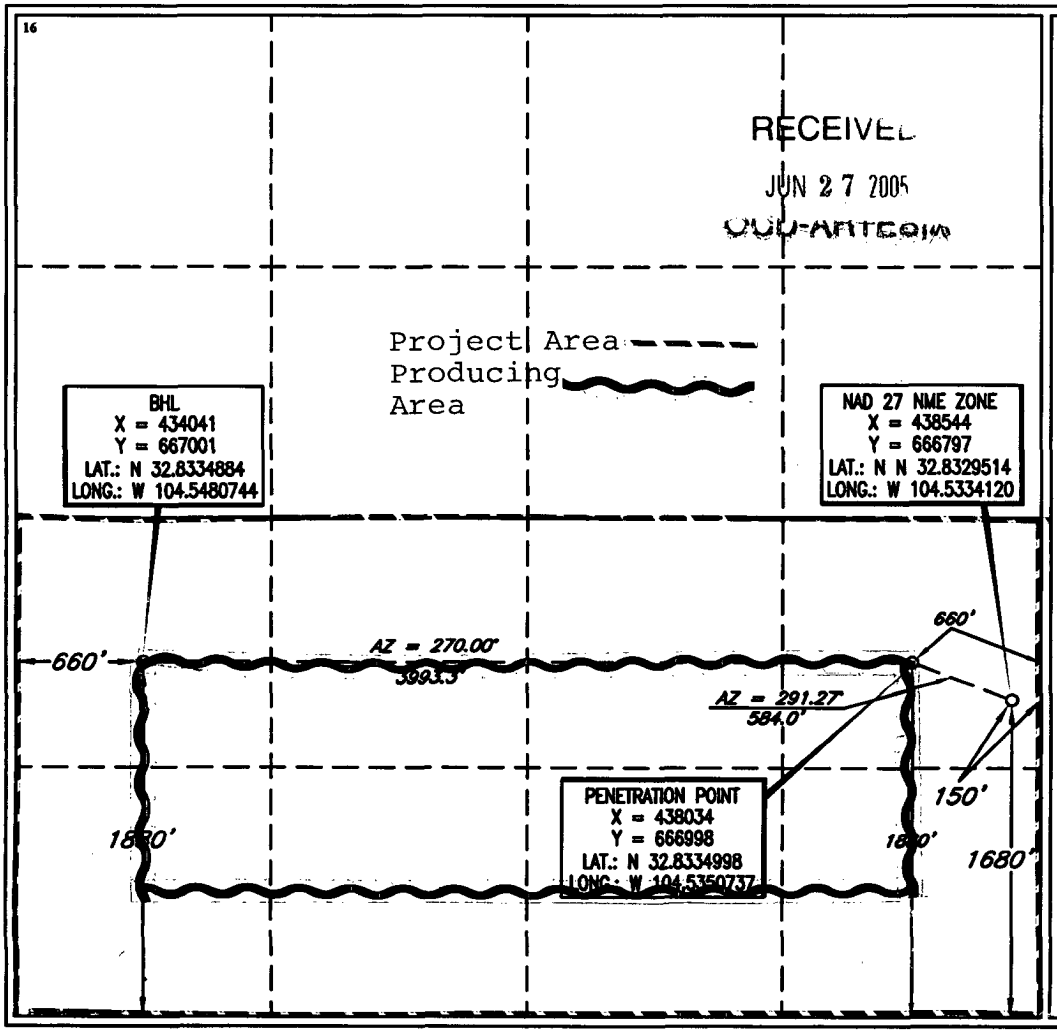
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	13	17 SOUTH	24 EAST, N.M.P.M.		1880'	SOUTH	660'	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

16



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

6/22/2005
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.

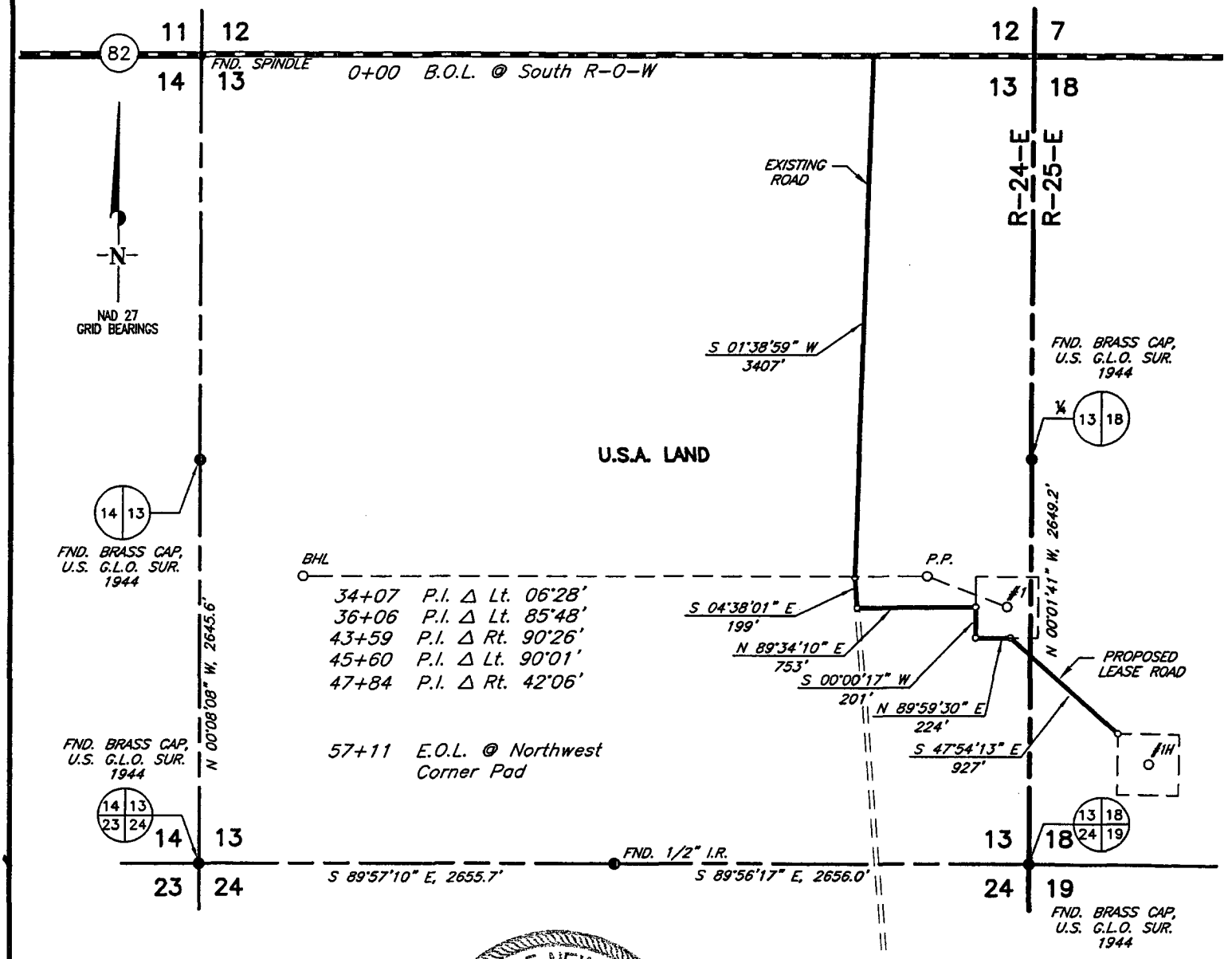
MARCH 8, 2005
Date of Survey
Signature and Seal of Professional Surveyor

STATE OF NEW MEXICO
V. LYNN BEZNER
NO. 7920
PROFESSIONAL LAND SURVEYOR

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

JOB # 101799 / 101 SE / E.U.O.

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 24 EAST, N.M.P.M.,
EDDY COUNTY NEW MEXICO



LEGAL DESCRIPTION

A strip of land 30.0 feet wide 5711 feet or 1.0082 miles in length and being 15.0 feet Left and 15.0 feet Right of the above centerline survey.

STATE OF NEW MEXICO V. LYNN BEZNER NO. 7920 PROFESSIONAL LAND SURVEYOR

I HEREBY CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

V. Lynn Bezner

NO.	REVISION	DATE	BY

SURVEYED BY: J.T.
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: MARCH 8, 2005
JOB NO.: 101799-RD
QUAD NO.: 101SE
SHEET : 1 OF 1

DRILLING PROGRAM

EOG RESOURCES, INC.
Rhine 13 Fed No. 1H
Eddy Co. NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Quaternary Alluvium 0-200

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

San Andres	665'
Glorieta	2,035'
Tubb	3,326'
Abo Shale	4,015'
Wolfcamp Pay	5,065'

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

Quanterary Alluvium	0- 200'	Fresh Water
San Andres	665'	Oil
Glorieta	2,035'	Oil/Gas
Tubb	3,326'	Oil/Gas
Abo/Wolfcamp Pay	5,065'	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'	9-5/8"	40#	J-55	LT&C
8-3/4"	0-5100'	7"	23#	J-55	LT&C
6-1/8"	0-8500'	4-1/2"	11.6#	P-110	BT&C

Cementing Program:

9-5/8" 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
7" Intermediate:	Cement to surface with 300 sx Interfill C, .25#/sx flocele;300 sx Premium Plus, 1% Calcium Chloride
4-1/2" Production	Cement w350sx Interfill C,+ .25#sx Flocele;250 sx premium Cement,100% Acid soluble Additive,.6% Halad-344 +.8% Econolite+.2% HR-55. .

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

DRILLING PROGRAM

EOG RESOURCES, INC.
Rhine 13 Fed No. 1H
Eddy Co. NM

(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~~ 5000 psi and the annular to 3500/~~5000~~ 1000-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'-8,500'	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.
Rhine 13 Fed No. 1H
Eddy Co. NM

SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS:

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

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:

Upgraded existing Ranch Road, build 2489'of new road. See Exhibit 2

No turnouts necessary.

No culverts, cattleguards, gates, 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, the flowline would also be located on the drill-pad site and no additional disturbance will occur.

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.

DRILLING PROGRAM

EOG RESOURCES, INC.
Rhine 13 Fed No. 1H
Eddy Co. NM

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 Larrega
Division Drilling Engineer

DATE 4/12/2005

DRILLING PROGRAM

EOG RESOURCES, INC.
Rhine 13 Fed No. 1H
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.

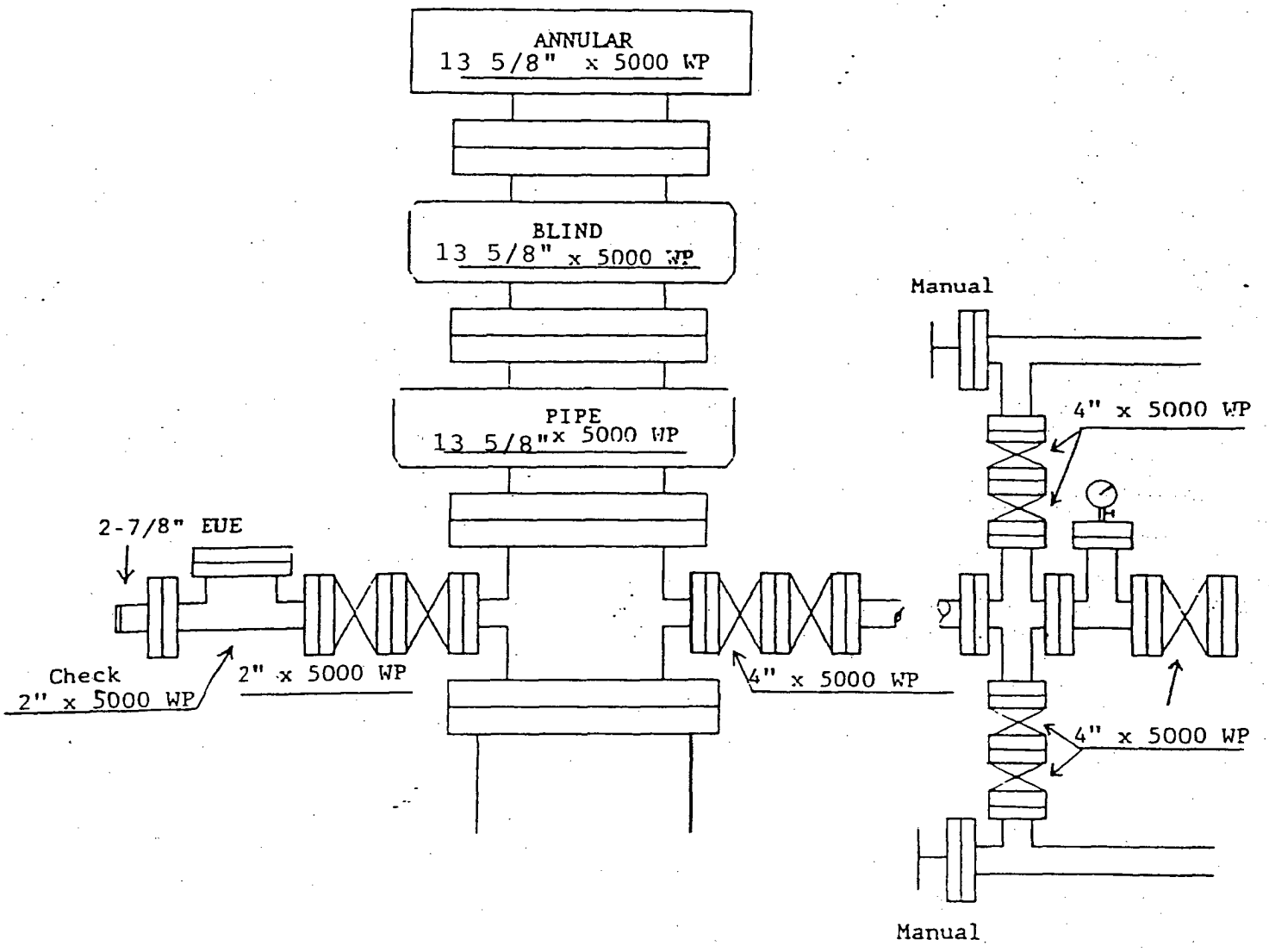


Exhibit 1

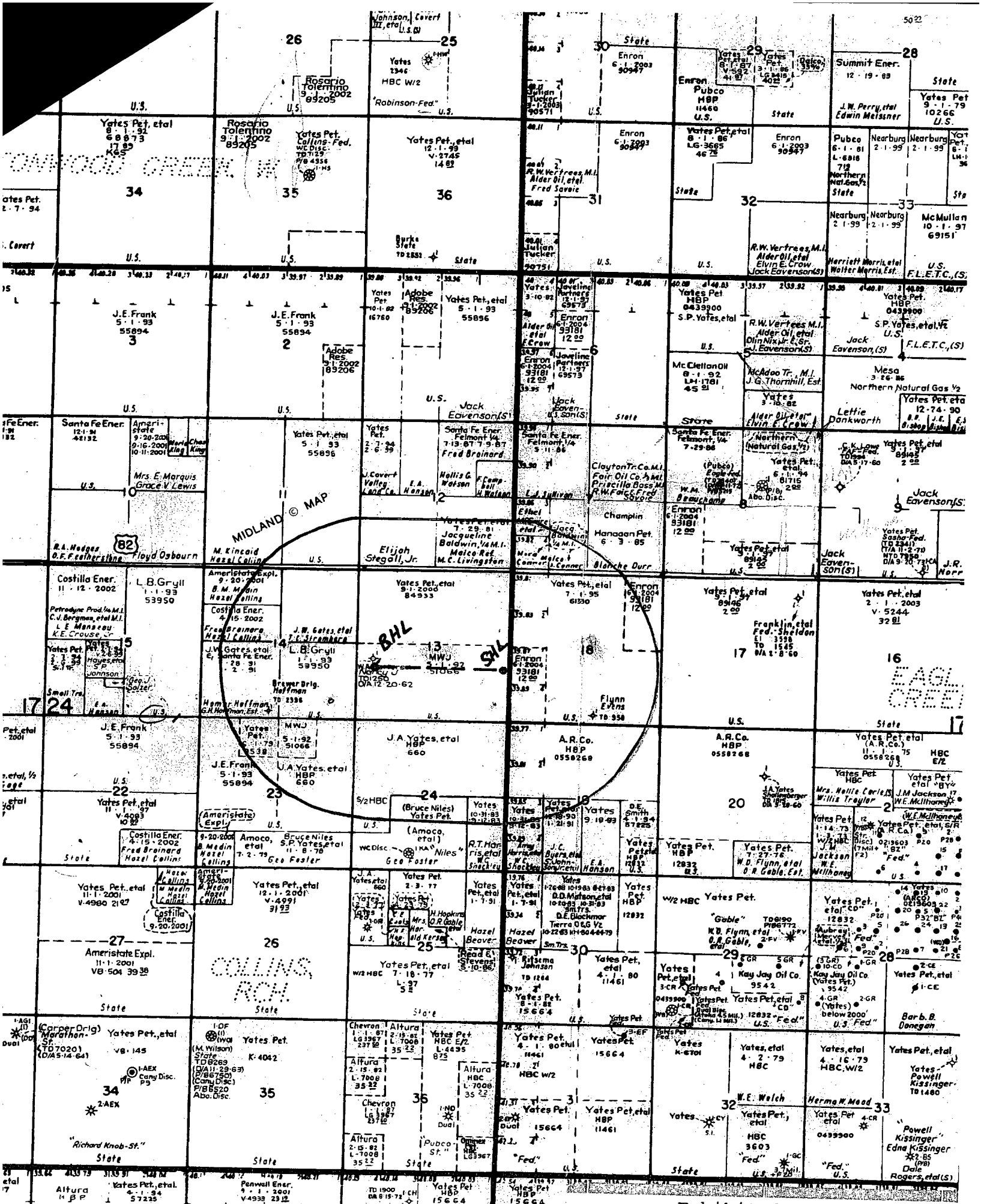


Exhibit 3
Wells within One (1) mile

Statement Accepting Responsibility For Operations

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.: NM NM 108958

Legal Description of Land: S/2 Sec.13 T-17-S; R-~~25~~ 24 E (EH)
Eddy Co. NM **Formation(s) (if applicable):**

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

BLM Bond File No.: NM2308 with endorsement to State of NM

Authorized Signature: Mike Francis

Title: Agent

Date 4/12/2005

eog resources

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

June 1, 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 Rhine 13 Fed #1H. 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

Permit Information:

Well Name: Rhine 13 Fed #1H

Location:

SL 2080' FSL & 660' FEL, Section 13, T-17-S, R-24-E, Eddy Co., N.M.

BHL 1880' FSL & 660' FWL, Section 13, T-17-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'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,500'	7-7/8"	5 ½"	17#	P-110	Surface

Cement Program:

Depth	No. Sacks	Slurries:
900'	150	Lead: Premium Plus + 2% $CaCl_2$ + 3% Econolite + ¼ pps Flocele
	175	Tail: Premium Plus + 2% $CaCl_2$ + ¼ pps Flocele
8,500'	350	Lead: Interfill C + ¼ pps Flocele
	400	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 – 900'	Fresh - Gel	8.6-8.8	28-34	N/c
900' – 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' – 8,500'	Polymer (Lateral)	9.0-9.4	40-45	10-25

EOG Resources Inc
Planning Report

Company:	EOG Resources	**Date:**	6/1/2005	**Time:** 11:10:16	**Page:** 1
Field:	Thames	**Co-ordinate(NE) Reference:**	Site: Rhine 13 Fed #1H, Grid North		
Site:	Rhine 13 Fed #1H	**Vertical (TVD) Reference:**	SITE 3684.0		
Well:	Rhine 13 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,267.19Azi)		
Wellpath:	Lateral	**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: Rhine 13 Fed #1H

Site Position:		**Northing:**	667197.00 ft	**Latitude:**	32	50	2.573	N
From:	Map	**Easting:**	438034.00 ft	**Longitude:**	104	32	6.268	W
Position Uncertainty:	0.00 ft			**North Reference:**			Grid	
Ground Level:	3666.00 ft			**Grid Convergence:**			-0.11	deg

Well: Rhine 13 Fed #1H **Slot Name:**

Well Position:	+N/-S	0.00 ft	**Northing:**	667197.00 ft	**Latitude:**	32	50	2.573 N
	+E/-W	0.00 ft	**Easting :**	438034.00 ft	**Longitude:**	104	32	6.268 W
Position Uncertainty:		0.00 ft						

Wellpath: Lateral **Drilled From:** Surface

Tie-on Depth: 0.00 ft

Current Datum:	SITE	**Height** 3684.00 ft	**Above System Datum:** Mean Sea Level
Magnetic Data:	6/1/2005		**Declination:** 9.03 deg
Field Strength:	49668 nT		**Mag Dip Angle:** 60.82 deg

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	4850.00	0.00	0.00	267.19

Plan: Plan #1 **Date Composed:** 6/1/2005

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	
4468.00	0.00	0.00	4468.00	0.00	0.00	0.00	0.00	0.00	0.00	
4468.03	0.00	0.00	4468.03	0.00	0.00	0.00	0.00	0.00	0.00	
5068.03	90.00	267.19	4850.00	-18.73	-381.51	15.00	15.00	-15.47	267.19	LP
5068.03	90.00	267.19	4850.00	-18.73	-381.52	3.00	0.00	-3.00	-90.00	
8683.86	90.00	267.19	4850.00	-196.00	-3992.99	0.00	0.00	0.00	0.00	
8683.86	90.00	267.19	4850.00	-196.00	-3993.00	3.00	-0.01	3.00	90.25	BHL

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	Keeper Cone
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone

EOG Resources Inc
Planning Report

Company:	EOG Resources	**Date:** 6/1/2005	**Time:** 11:10:16	**Page:**	2
Field:	Thames	**Co-ordinate(NE) Reference:**	Site: Rhine 13 Fed #1H, Grid North		
Site:	Rhine 13 Fed #1H	**Vertical (TVD) Reference:**	SITE 3684.0		
Well:	Rhine 13 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,267.19Azi)		
Wellpath:	Lateral	**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
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4468.00	0.00	0.00	4468.00	0.00	0.00	0.00	0.00	0.00	0.00	Keeper Cone
4500.00	4.80	267.19	4499.96	-0.07	-1.34	1.34	14.99	14.99	0.00	Keeper Cone
4600.00	19.80	267.19	4597.39	-1.11	-22.55	22.57	15.00	15.00	0.00	Keeper Cone
4700.00	34.80	267.19	4686.00	-3.35	-68.22	68.30	15.00	15.00	0.00	Keeper Cone
4800.00	49.80	267.19	4759.76	-6.64	-135.24	135.40	15.00	15.00	0.00	Keeper Cone
4900.00	64.80	267.19	4813.63	-10.75	-219.05	219.31	15.00	15.00	0.00	Keeper Cone
5000.00	79.80	267.19	4843.96	-15.41	-313.92	314.30	15.00	15.00	0.00	Keeper Cone
5068.03	90.00	267.19	4850.00	-18.73	-381.51	381.97	15.00	15.00	0.00	Keeper Cone
5100.00	90.00	267.19	4850.00	-20.29	-413.45	413.94	0.00	0.00	0.00	Keeper Cone
5200.00	90.00	267.19	4850.00	-25.20	-513.33	513.94	0.00	0.00	0.00	Keeper Cone
5300.00	90.00	267.19	4850.00	-30.10	-613.21	613.94	0.00	0.00	0.00	Keeper Cone
5400.00	90.00	267.19	4850.00	-35.00	-713.09	713.94	0.00	0.00	0.00	Keeper Cone
5500.00	90.00	267.19	4850.00	-39.90	-812.96	813.94	0.00	0.00	0.00	Keeper Cone
5600.00	90.00	267.19	4850.00	-44.81	-912.84	913.94	0.00	0.00	0.00	Keeper Cone
5700.00	90.00	267.19	4850.00	-49.71	-1012.72	1013.94	0.00	0.00	0.00	Keeper Cone
5800.00	90.00	267.19	4850.00	-54.61	-1112.60	1113.94	0.00	0.00	0.00	Keeper Cone
5900.00	90.00	267.19	4850.00	-59.52	-1212.48	1213.94	0.00	0.00	0.00	Keeper Cone
6000.00	90.00	267.19	4850.00	-64.42	-1312.36	1313.94	0.00	0.00	0.00	Keeper Cone
6100.00	90.00	267.19	4850.00	-69.32	-1412.24	1413.94	0.00	0.00	0.00	Keeper Cone
6200.00	90.00	267.19	4850.00	-74.22	-1512.12	1513.94	0.00	0.00	0.00	Keeper Cone
6300.00	90.00	267.19	4850.00	-79.13	-1612.00	1613.94	0.00	0.00	0.00	Keeper Cone
6400.00	90.00	267.19	4850.00	-84.03	-1711.88	1713.94	0.00	0.00	0.00	Keeper Cone
6500.00	90.00	267.19	4850.00	-88.93	-1811.76	1813.94	0.00	0.00	0.00	Keeper Cone

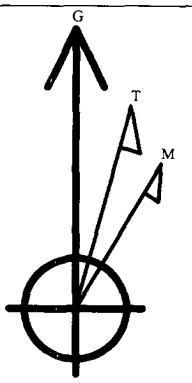
EOG Resources Inc
Planning Report

Company:	EOG Resources	**Date:**	6/1/2005	**Time:** 11:10:16	**Page:** 3
Field:	Thames	**Co-ordinate(NE) Reference:**	Site: Rhine 13 Fed #1H, Grid North		
Site:	Rhine 13 Fed #1H	**Vertical (TVD) Reference:**	SITE 3684.0		
Well:	Rhine 13 Fed #1H	**Section (VS) Reference:**	Well (0.00N,0.00E,267.19Azi)		
Wellpath:	Lateral	**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
6600.00	90.00	267.19	4850.00	-93.83	-1911.64	1913.94	0.00	0.00	0.00	Keeper Cone
6700.00	90.00	267.19	4850.00	-98.74	-2011.52	2013.94	0.00	0.00	0.00	Keeper Cone
6800.00	90.00	267.19	4850.00	-103.64	-2111.40	2113.94	0.00	0.00	0.00	Keeper Cone
6900.00	90.00	267.19	4850.00	-108.54	-2211.28	2213.94	0.00	0.00	0.00	Keeper Cone
7000.00	90.00	267.19	4850.00	-113.44	-2311.16	2313.94	0.00	0.00	0.00	Keeper Cone
7100.00	90.00	267.19	4850.00	-118.35	-2411.04	2413.94	0.00	0.00	0.00	Keeper Cone
7200.00	90.00	267.19	4850.00	-123.25	-2510.92	2513.94	0.00	0.00	0.00	Keeper Cone
7300.00	90.00	267.19	4850.00	-128.15	-2610.80	2613.94	0.00	0.00	0.00	Keeper Cone
7400.00	90.00	267.19	4850.00	-133.06	-2710.68	2713.94	0.00	0.00	0.00	Keeper Cone
7500.00	90.00	267.19	4850.00	-137.96	-2810.56	2813.94	0.00	0.00	0.00	Keeper Cone
7600.00	90.00	267.19	4850.00	-142.86	-2910.44	2913.94	0.00	0.00	0.00	Keeper Cone
7700.00	90.00	267.19	4850.00	-147.76	-3010.32	3013.94	0.00	0.00	0.00	Keeper Cone
7800.00	90.00	267.19	4850.00	-152.67	-3110.20	3113.94	0.00	0.00	0.00	Keeper Cone
7900.00	90.00	267.19	4850.00	-157.57	-3210.08	3213.94	0.00	0.00	0.00	Keeper Cone
8000.00	90.00	267.19	4850.00	-162.47	-3309.96	3313.94	0.00	0.00	0.00	Keeper Cone
8100.00	90.00	267.19	4850.00	-167.37	-3409.84	3413.94	0.00	0.00	0.00	Keeper Cone
8200.00	90.00	267.19	4850.00	-172.28	-3509.72	3513.94	0.00	0.00	0.00	Keeper Cone
8300.00	90.00	267.19	4850.00	-177.18	-3609.60	3613.94	0.00	0.00	0.00	Keeper Cone
8400.00	90.00	267.19	4850.00	-182.08	-3709.48	3713.94	0.00	0.00	0.00	Keeper Cone
8500.00	90.00	267.19	4850.00	-186.99	-3809.36	3813.94	0.00	0.00	0.00	Keeper Cone
8600.00	90.00	267.19	4850.00	-191.89	-3909.24	3913.94	0.00	0.00	0.00	Keeper Cone
8683.86	90.00	267.19	4850.00	-196.00	-3993.00	3997.81	0.00	0.00	0.00	Keeper Cone

Field: Thames
Site: Rhine 13 Fed #1H
Well: Rhine 13 Fed #1H
Wellpath: Lateral
Plan: Plan #1



Azimuths to Grid North
True North: 0.11°
Magnetic North: 9.14°

Magnetic Field
Strength: 49668nT
Dip Angle: 60.82°
Date: 6/1/2005
Model: igrf2000