

SEP 19 2007  
OCD-ARTESIA

OCD-ARTESIA



Form 3160-3  
(February 2005)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

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

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM 111400(SHL); NM 2346(BHL)
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> 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	3b. Phone No. (include area code) 432-686-3642	8. Lease Name and Well No. ROBINSON HW FED COM 2H
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface 910' FSL & 510' FEL (U/L P) At proposed prod. zone 760' FSL & 660' FWL (U/L M)		9. API Well No. 30-015-35811
14. Distance in miles and direction from nearest town or post office* Approx 9 miles NW of Artesia, NM		10. Field and Pool, or Exploratory Cottonwood Creek; Wolfcamp West
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 510'		11. Sec., T. R. M. or Blk. and Survey or Area Section 24, T16S-R24E, N.M.P.M.
16. No. of acres in lease 320		12. County or Parish Eddy
17. Spacing Unit dedicated to this well S/2 Sec 24, T16S-R24E, N.M.P.M.		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,120'		20. BLM/BIA Bond No. on file NM2308
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL 3,642'		22. Approximate date work will start* 10/15/2007
		23. Estimated duration 24

24. Attachments

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

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature	Name (Printed/Typed) Donny G. Glanton	Date 08/30/2007
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Title  
Sr. Lease Operations ROW Representative

Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed) /s/ Don Peterson	Date SEP 18 2007
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Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE
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Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.  
States any f

\*(Instru

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

y person knowingly and willfully to make to any department or agency of the United er within its jurisdiction.

ROSWELL CONTROLLED WATER BASIN

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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 & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease- 4 Copies  
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 75260	Pool Name Co Honwood Creek ; Wolfcamp West
Property Code 36742	Property Name ROBINSON HW FED. COM	Well Number 2H
OGRID No. 7377	Operator Name EOG RESOURCES, INC.	Elevation 3642'

Surface Location

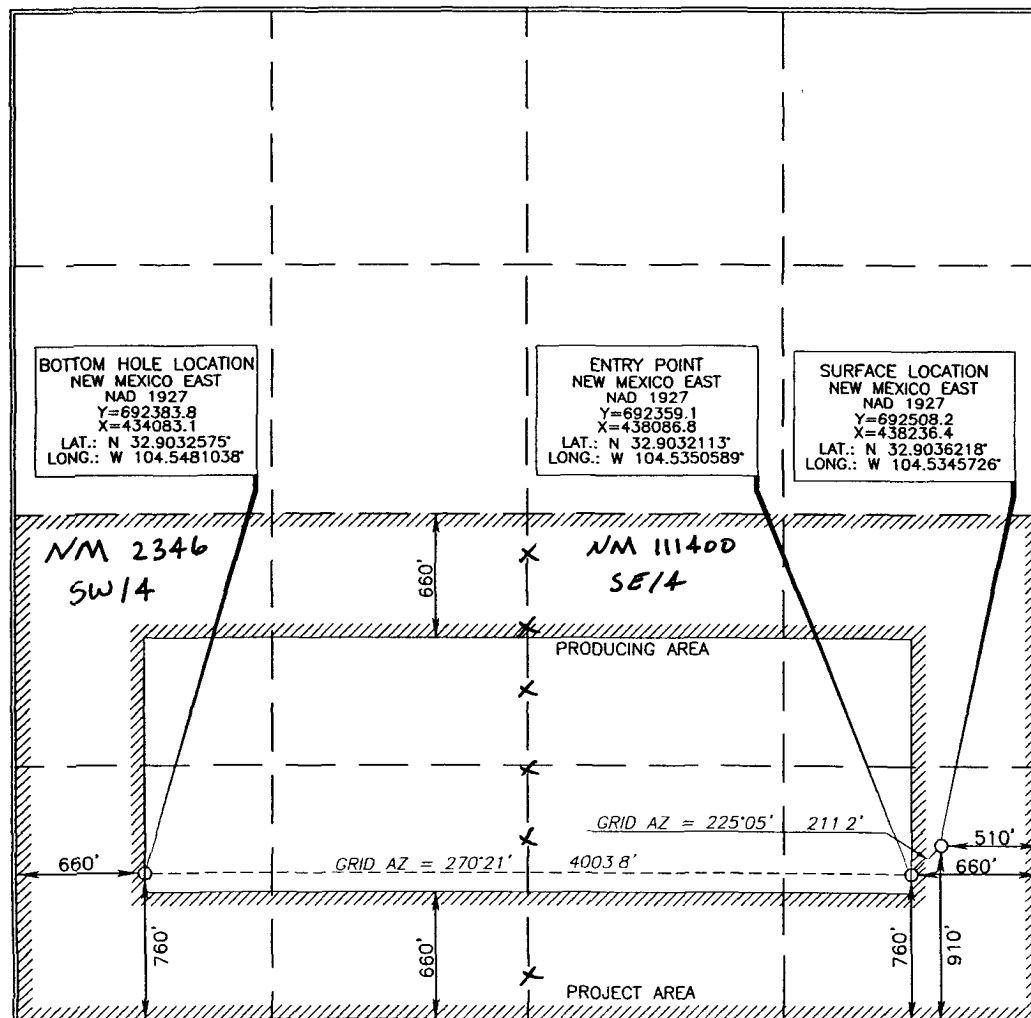
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	16 SOUTH	24 EAST, N.M.P.M.		910'	SOUTH	510'	EAST	EDDY

Bottom Hole Location If Different From Surface

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

Dedicated Acres 32.0	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Donny B. Glanton 8/28/07  
Signature Date

Donny B. Glanton  
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes or actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

15079  
AUGUST 13, 2007  
Date of Survey

Signature and Seal of Professional Surveyor

Jerry D. Paul 8/20/2007  
Certificate Number 15079

WO# 07062OWL-d (REV. A)(JL)

**EOG RESOURCES, INC.**  
**ROBINSON HW FED COM No. 2H**

**DRILLING PROGRAM**

**1. GEOLOGIC NAME OF SURFACE FORMATION:**

Quaternary Alluvium 0-200

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

San Andres	480'
Glorieta	1,750'
Tubb	3,060'
Abo Shale	3,740'
Wolfcamp Pay	4,710'

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

Quaternary Alluvium	0- 200'	Fresh Water
San Andres	480'	Oil
Glorieta	1,750'	Oil/Gas
Tubb	3,050'	Oil/Gas
Abo/Wolfcamp Pay	4,710'	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 8.625" casing at 900' and circulating cement back to surface.

**4. CASING PROGRAM** *(New)*

*per Operator 9/16/07 LWH*

<u>Hole</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Collapse</u> <u>Design</u> <u>Factor</u>	<u>Burst</u> <u>Design</u> <u>Factor</u>	<u>Tension</u> <u>Design</u> <u>Factor</u>
12.250"	0-900'	8.625"	32#	J-55	LT&C	5.41	3.83	10.94
7.875"	0-8,638'	5.5"	17#	N-80	LT&C	2.63	1.99	4.13

**Cementing Program:**

8.625" Surface Casing:

Cement to surface, Lead: 560 sx Light Prem Plus + 5 pps Gilsonite + 2% CaCl<sub>2</sub>, 12.4 ppg, 2.05 yield  
Tail: 370 sx Prem Plus + 2% CaCl<sub>2</sub>, 14.8 ppg, 1.35 yield

5.50" Production:

Cement to surface, Lead: 400sx Interfill C + 0.125 pps Poly-E-Flake, 11.9 ppg, 2.47 yield  
Tail: 800 sx 50:50 Poz Premium + 5% LAP-1 + 0.2% Econolite, 14.4 ppg, 1.25 yield

**EOG RESOURCES, INC.**  
**ROBINSON HW FED COM No. 2H**

**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. for a 3M system.

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.

EOG Resources requests a variance to eliminate the stipulation requiring a BOPE test within 500' of the Wolfcamp. The Wolfcamp is not expected to be abnormally pressured (approx 1,800 lbs.) and the BOPE will be tested to the appropriate pressure requirements as per Onshore Order No. 2 prior to drilling out of the surface casing.

**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:

<u>Depth</u>	<u>Type</u>	Wt	Viscosity		Waterloss
		<u>(PPG)</u>	<u>(sec)</u>	<u>(cc)</u>	
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'-5,200'	Cut Brine	8.8-9.2	28-34	10-15	
4,358'-8,638'	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.

**EOG RESOURCES, INC.**  
**ROBINSON HW FED COM No. 2H**

**8. LOGGING, TESTING AND CORING PROGRAM:**

Electric logging will consist of GR-Dual Laterlog and GR-Compensated Density-Neutron from +/-900' to TVD.

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 2000 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.



10/23/07  
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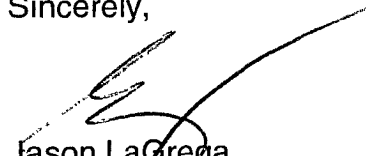
July 23, 2007

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<sub>2</sub>S Contingency Plan for the Robinson HW Fed Com #2H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H<sub>2</sub>S bearing formations during drilling operations.

Sincerely,



Jason LaGrega  
Drilling Engineer

# EOG RESOURCES INC.

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Robinson HW Fed Com #2H
<b>Company:</b>	EOG - Midland (3)	<b>TVD Reference:</b>	WELL @ 3657.00ft (Original Well Elev)
<b>Project:</b>	Thames	<b>MD Reference:</b>	WELL @ 3657.00ft (Original Well Elev)
<b>Site:</b>	Robinson HW Fed Com #2H	<b>North Reference:</b>	Grid
<b>Well:</b>	Robinson HW Fed Com #2H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Robinson HW Fed Com #2H		
<b>Design:</b>	Original Plan		

**Project** Thames

<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	New Mexico East 3001		

**Site** Robinson HW Fed Com #2H

<b>Site Position:</b>	<b>Northing:</b>	692,359.10ft	<b>Latitude:</b>	32° 54' 11.561 N	
<b>From:</b> Map	<b>Easting:</b>	438,086.80ft	<b>Longitude:</b>	104° 32' 6.212 W	
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	-0.11°

**Well** Robinson HW Fed Com #2H

<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	692,359.10 ft	<b>Latitude:</b>	32° 54' 11.561 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	438,086.80 ft	<b>Longitude:</b>	104° 32' 6.212 W
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	3,638.00ft	

**Wellbore** Robinson HW Fed Com #2H

<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	IGRF2005	7/23/2007	8.52	60.72	49,258

**Design** Original Plan

**Audit Notes:**

<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
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<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	270.35

**Plan Sections**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,358.00	0.00	0.00	4,358.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,115.12	90.00	270.35	4,840.00	2.94	-481.99	11.89	11.89	0.00	270.35	
6,115.12	90.00	270.35	4,840.00	9.05	-1,481.97	0.00	0.00	0.00	0.00	
6,181.87	92.00	270.36	4,838.83	9.46	-1,548.70	3.00	3.00	0.01	0.16	
8,638.21	92.00	270.36	4,753.01	24.70	-4,003.50	0.00	0.00	0.00	0.00	
8,638.41	92.00	270.35	4,753.00	24.70	-4,003.70	3.00	-1.17	-2.76	0.00	BHL (Robinson HW)

# EOG RESOURCES INC.

## Planning Report

**Database:** EDM  
**Company:** EOG - Midland (3)  
**Project:** Thames  
**Site:** Robinson HW Fed Com #2H  
**Well:** Robinson HW Fed Com #2H  
**Wellbore:** Robinson HW Fed Com #2H  
**Design:** Original Plan

**Local Co-ordinate Reference:** Well Robinson HW Fed Com #2H  
**TVD Reference:** WELL @ 3657.00ft (Original Well Elev)  
**MD Reference:** WELL @ 3657.00ft (Original Well Elev)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,358.00	0.00	0.00	4,358.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	4.99	270.35	4,399.95	0.01	-1.83	1.83	11.89	11.89	0.00
4,500.00	16.88	270.35	4,497.95	0.13	-20.77	20.77	11.89	11.89	0.00
4,600.00	28.77	270.35	4,589.96	0.36	-59.48	59.49	11.89	11.89	0.00
4,700.00	40.65	270.35	4,672.02	0.71	-116.32	116.33	11.89	11.89	0.00
4,800.00	52.54	270.35	4,740.61	1.15	-188.85	188.85	11.89	11.89	0.00
4,900.00	64.43	270.35	4,792.79	1.67	-273.94	273.95	11.89	11.89	0.00
5,000.00	76.32	270.35	4,826.32	2.25	-367.96	367.97	11.89	11.89	0.00
5,100.00	88.20	270.35	4,839.76	2.85	-466.87	466.88	11.89	11.89	0.00
5,115.12	90.00	270.35	4,840.00	2.94	-481.99	482.00	11.89	11.89	0.00



# EOG RESOURCES INC.

## Planning Report

**Database:** EDM  
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**Project:** Thames  
**Site:** Robinson HW Fed Com #2H  
**Well:** Robinson HW Fed Com #2H  
**Wellbore:** Robinson HW Fed Com #2H  
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**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,200.00	90.00	270.35	4,840.00	3.46	-566.87	566.88	0.00	0.00	0.00
5,300.00	90.00	270.35	4,840.00	4.07	-666.86	666.88	0.00	0.00	0.00
5,400.00	90.00	270.35	4,840.00	4.68	-766.86	766.88	0.00	0.00	0.00
5,500.00	90.00	270.35	4,840.00	5.30	-866.86	866.88	0.00	0.00	0.00
5,600.00	90.00	270.35	4,840.00	5.91	-966.86	966.88	0.00	0.00	0.00
5,700.00	90.00	270.35	4,840.00	6.52	-1,066.86	1,066.88	0.00	0.00	0.00
5,800.00	90.00	270.35	4,840.00	7.13	-1,166.85	1,166.88	0.00	0.00	0.00
5,900.00	90.00	270.35	4,840.00	7.74	-1,266.85	1,266.88	0.00	0.00	0.00
6,000.00	90.00	270.35	4,840.00	8.35	-1,366.85	1,366.88	0.00	0.00	0.00
6,100.00	90.00	270.35	4,840.00	8.96	-1,466.85	1,466.88	0.00	0.00	0.00
6,115.12	90.00	270.35	4,840.00	9.05	-1,481.97	1,482.00	0.00	0.00	0.00
6,181.87	92.00	270.36	4,838.83	9.46	-1,548.70	1,548.73	3.00	3.00	0.01
6,200.00	92.00	270.36	4,838.20	9.58	-1,566.82	1,566.85	0.00	0.00	0.00
6,300.00	92.00	270.36	4,834.71	10.20	-1,666.76	1,666.79	0.00	0.00	0.00
6,400.00	92.00	270.36	4,831.21	10.82	-1,766.70	1,766.73	0.00	0.00	0.00
6,500.00	92.00	270.36	4,827.72	11.44	-1,866.63	1,866.67	0.00	0.00	0.00
6,600.00	92.00	270.36	4,824.22	12.06	-1,966.57	1,966.61	0.00	0.00	0.00
6,700.00	92.00	270.36	4,820.73	12.68	-2,066.51	2,066.55	0.00	0.00	0.00
6,800.00	92.00	270.36	4,817.24	13.30	-2,166.44	2,166.49	0.00	0.00	0.00
6,900.00	92.00	270.36	4,813.74	13.92	-2,266.38	2,266.42	0.00	0.00	0.00
7,000.00	92.00	270.36	4,810.25	14.54	-2,366.32	2,366.36	0.00	0.00	0.00
7,100.00	92.00	270.36	4,806.75	15.16	-2,466.26	2,466.30	0.00	0.00	0.00
7,200.00	92.00	270.36	4,803.26	15.78	-2,566.19	2,566.24	0.00	0.00	0.00
7,300.00	92.00	270.36	4,799.77	16.40	-2,666.13	2,666.18	0.00	0.00	0.00
7,400.00	92.00	270.36	4,796.27	17.02	-2,766.07	2,766.12	0.00	0.00	0.00
7,500.00	92.00	270.36	4,792.78	17.64	-2,866.00	2,866.06	0.00	0.00	0.00
7,600.00	92.00	270.36	4,789.28	18.26	-2,965.94	2,966.00	0.00	0.00	0.00
7,700.00	92.00	270.36	4,785.79	18.88	-3,065.88	3,065.94	0.00	0.00	0.00
7,800.00	92.00	270.36	4,782.29	19.50	-3,165.81	3,165.87	0.00	0.00	0.00
7,900.00	92.00	270.36	4,778.80	20.12	-3,265.75	3,265.81	0.00	0.00	0.00
8,000.00	92.00	270.36	4,775.31	20.74	-3,365.69	3,365.75	0.00	0.00	0.00
8,100.00	92.00	270.36	4,771.81	21.36	-3,465.63	3,465.69	0.00	0.00	0.00
8,200.00	92.00	270.36	4,768.32	21.98	-3,565.56	3,565.63	0.00	0.00	0.00
8,300.00	92.00	270.36	4,764.82	22.60	-3,665.50	3,665.57	0.00	0.00	0.00
8,400.00	92.00	270.36	4,761.33	23.22	-3,765.44	3,765.51	0.00	0.00	0.00
8,500.00	92.00	270.36	4,757.84	23.84	-3,865.37	3,865.45	0.00	0.00	0.00
8,600.00	92.00	270.36	4,754.34	24.46	-3,965.31	3,965.39	0.00	0.00	0.00
8,638.21	92.00	270.36	4,753.01	24.70	-4,003.50	4,003.57	0.00	0.00	0.00
8,638.41	92.00	270.35	4,753.00	24.70	-4,003.70	4,003.78	3.00	-1.17	-2.76

BHL (Robinson HW Fed Com #2H)

### Targets

Target Name	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (Robinson HW F	0.00	0.00	4,753.00	24.70	-4,003.70	692,383.80	434,083.10	32° 54' 11.727 N	104° 32' 53.174 W
- plan hits target									
- Point									

# WELL DETAILS: Robinson HW Fed Com #2H

+N/-S	+E/-W	Northing	Ground Level: 3638.00	Easting	Latitude	Longitude	Slot
0.00	0.00	692359.10		438086.80	32° 54' 11.561 N	104° 32' 6.212 W	

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFac	Target	Sec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4358.00	0.00	0.00	4358.00	0.00	0.00	0.00	0.00	0.00	
3	5115.12	90.00	270.35	4840.00	2.94	-481.99	11.89	270.35	482.00	
4	6115.12	90.00	270.35	4840.00	9.05	-1481.97	0.00	0.00	1482.00	
5	6181.87	92.00	270.36	4838.83	9.46	-1548.70	3.00	0.16	1548.73	
6	8638.21	92.00	270.36	4753.01	24.70	-4003.50	0.00	0.00	4003.57	
7	8638.41	92.00	270.35	4753.00	24.70	-4003.50	0.00	0.00	4003.78	

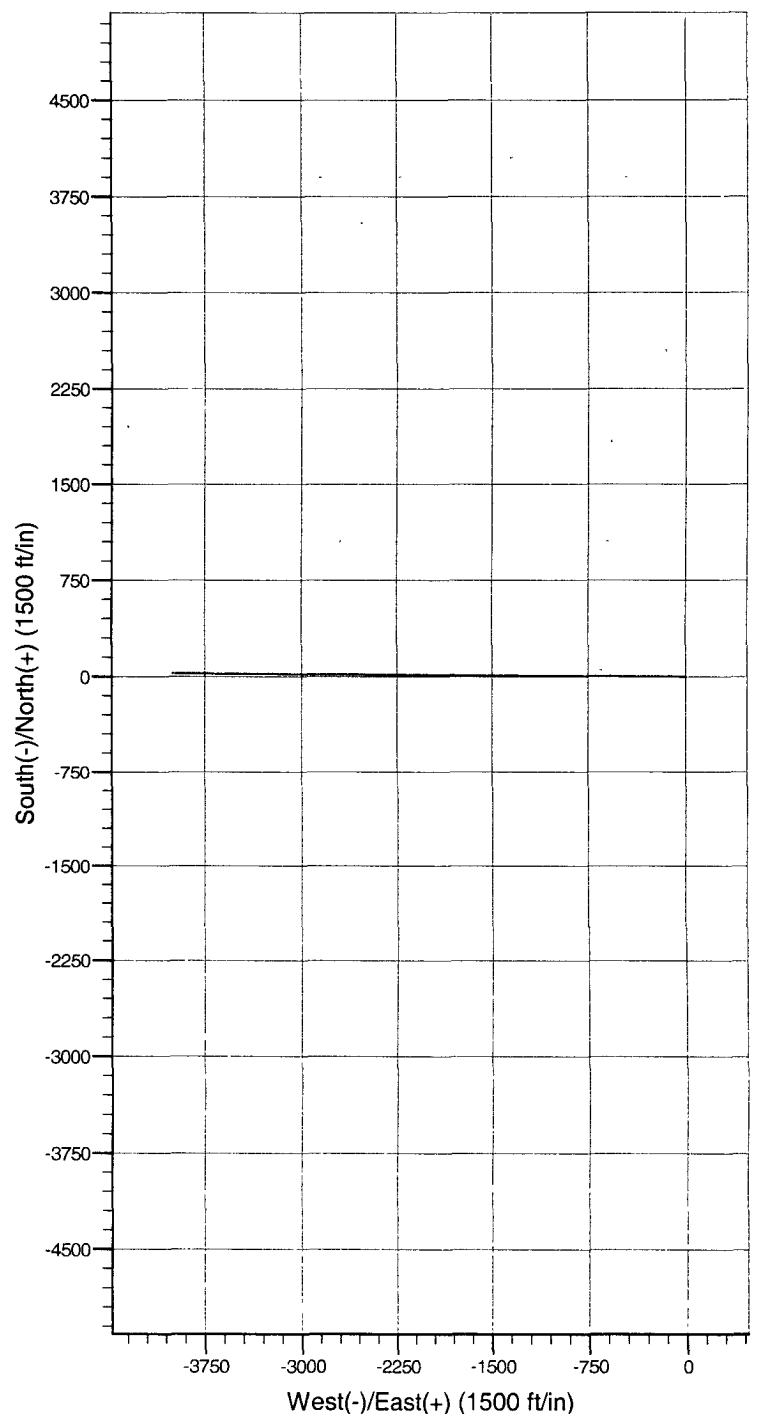
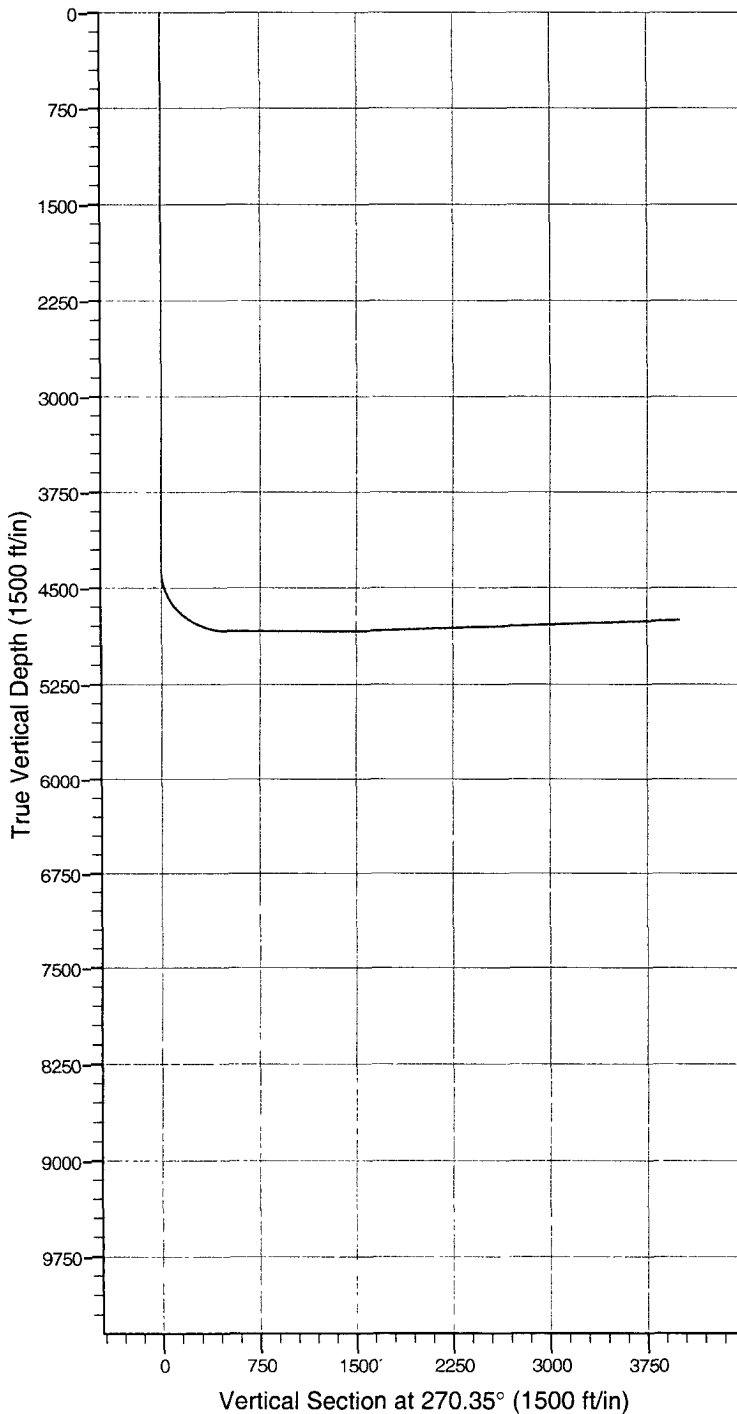
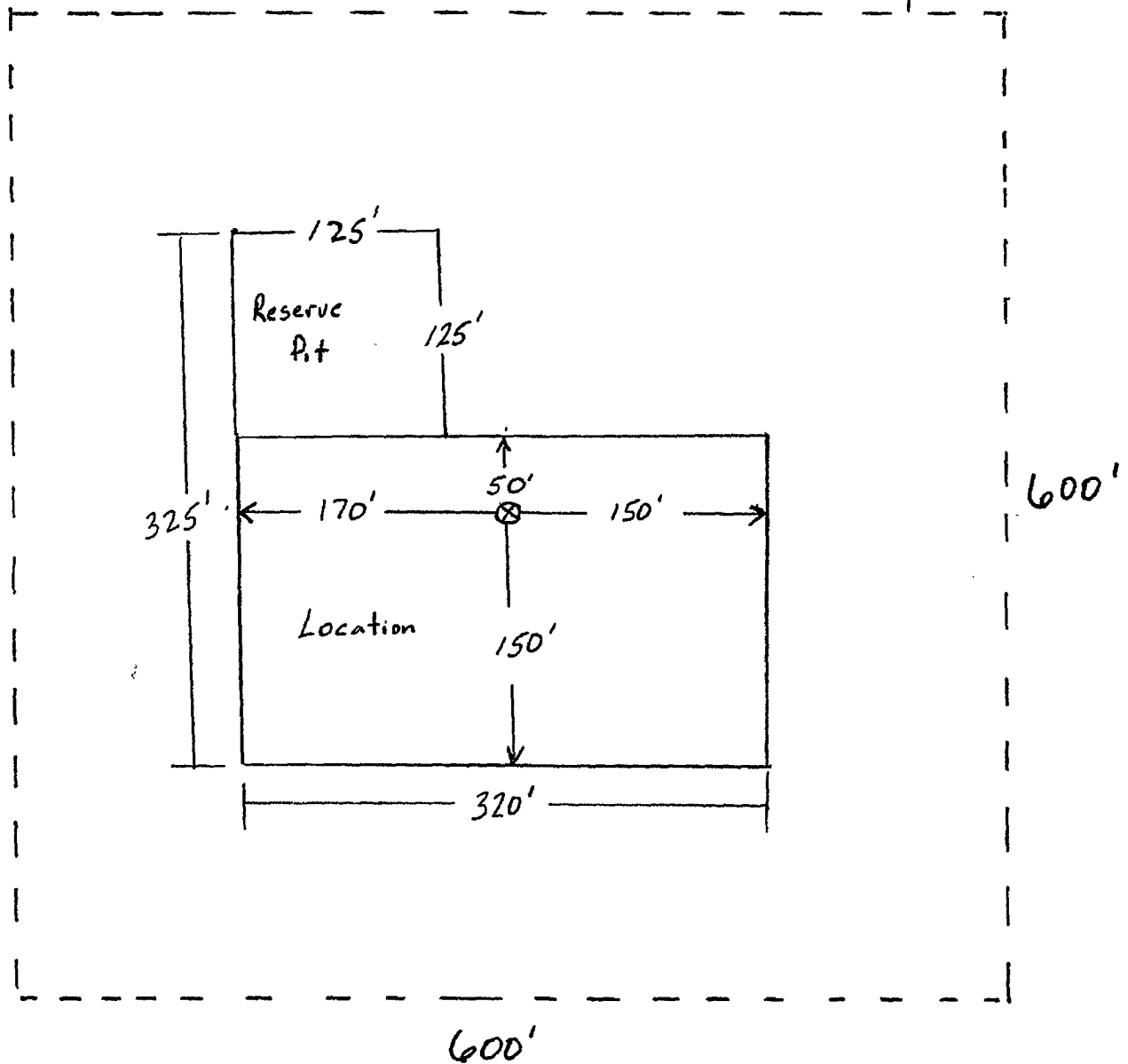


EXHIBIT "4"

~~See COA~~  
~~Pto South~~



EOG Resources, Inc.

Robinson 4W Fed Com 2H

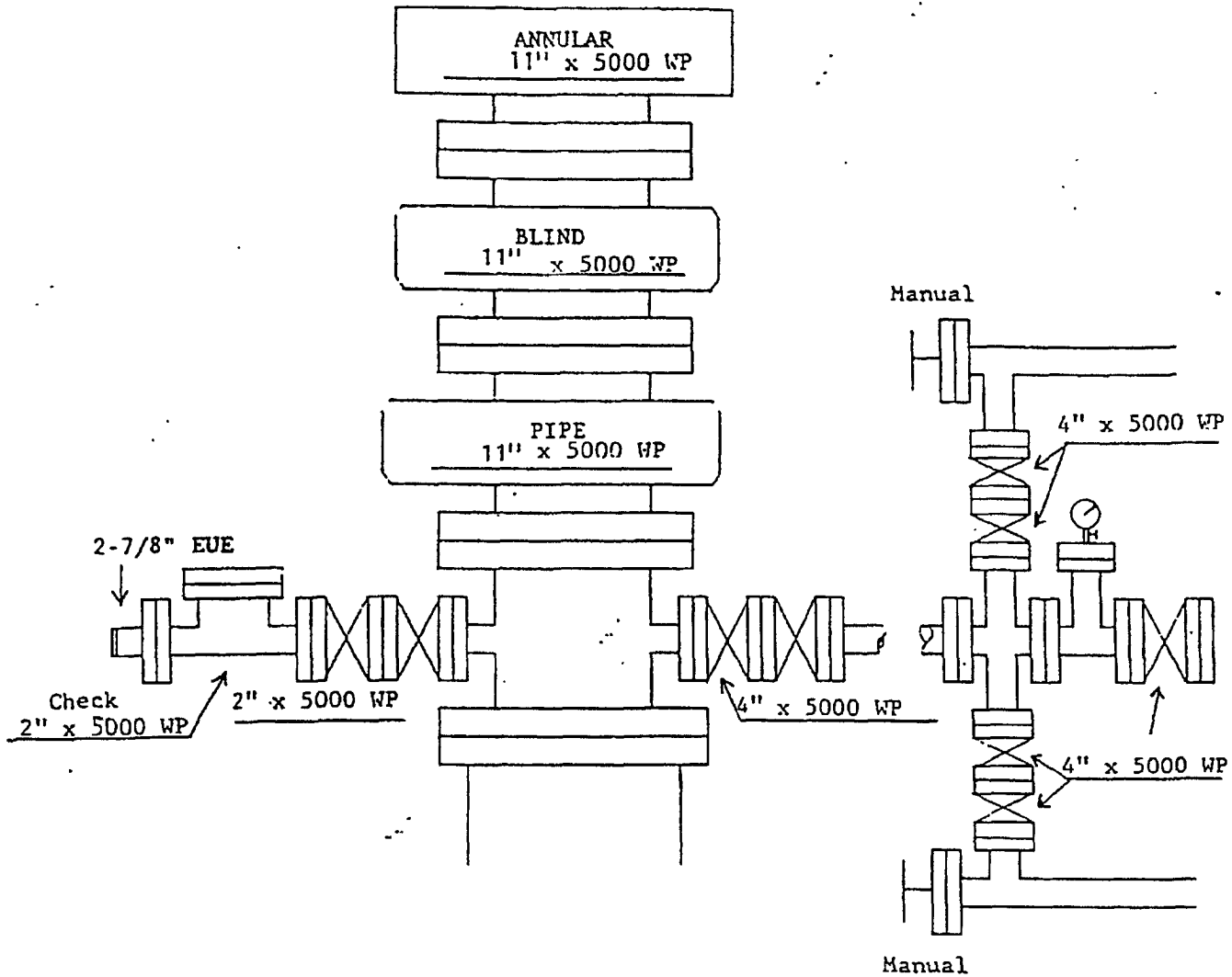


Exhibit 1

**EOG RESOURCES, INC.**  
**ROBINSON HW FED COM No. 2H**

**SURFACE USE PLAN OF OPERATION**

**SHL: 910' FSL & 510' FEL, Unit P, Section 24, T16S-R24E, N.M.P.M., Eddy, NM**

**BHL: 760' FSL & 660' FWL, Unit M, Section 24, T16S-R24E, N.M.P.M., Eddy, NM**

**1. EXISTING ROADS:**

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by Terry Asel, RPL 15079.
- b. All roads into the location are depicted on Exhibit 2 & 2a.
- c. Directions to Locations: Beginning in Artesia, NM, Go west on Hwy 82 for approx 11.4 miles, Turn north on CR 95 (Joy Road) for 6.9 miles, Turn east on CR133 (Bittersweet Rd) for 0.5 miles, Turn south on lease road for 1.1 miles, Turn east on lease road for 0.8 miles, Turn south on lease road for 0.8 miles to location.

**2. NEW OR RECONSTRUCTED ACCESS ROAD:**

- a. The well site layout, Exhibit 2b shows the layout. The proposed access road, begins on paved CR 133 (Bittersweet Road) and trends SE to the NE corner of the well pad. (See 1c above for driving directions).
- b. The maximum width of the road will be 15'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent soil erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattleguards, gates or fence cuts will be required. No turnouts are planned.

**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 PRODUCTION FACILITIES:**

- a. In the event the well is found to be productive, the Robinson HW Fed Com 2H tank battery would be utilized and the necessary production equipment will be installed at the well site. See Production Facilities Layout diagram.
- b. As a proposed gas well, we do not anticipate the need for electrical service.
- c. All flow lines will adhere to API standards.
- d. As a proposed gas well, we do not anticipate the need for electrical service.
- e. If the well is productive, rehabilitation plans are as follows:
  - i. The reserve pit will be back filled after the contents of the pit are dry (within 120 days after completion, weather permitting).

**EOG RESOURCES, INC.**  
**ROBINSON HW FED COM No. 2H**

- ii. The original topsoil from the well site will be returned to the location. The drill site will be contoured as close as possible to the original state.

**5. LOCATION AND TYPE OF WATER SUPPLY:**

This location will be drilled using a combination of water mud systems (outlined in the drilling program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using existing and proposed roads shown in Exhibit 2. On occasion, water will be obtained from existing water wells. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If poly pipeline is used to transport fresh water to the location, proper authorization will be secured by the contractor.

**6. CONSTRUCTION MATERIALS**

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM approved pit or from prevailing deposits found under the location. All roads will be constructed of rolled and compacted caliche. Will use BLM recommended use of extra caliche from other locations close by roads, if available.

**7. METHODS OF HANDLING WASTE MATERIALS**

- a. Drill cuttings will be disposed of in the reserve pit.
- b. All trash, junk, and other waste material will be contained in trash cages or trash bins to prevent scattering. When a job is completed, all contents will be removed and disposed of in an approved landfill.
- c. The supplier, including broken sacks, will pick up salts remaining after completion of well.
- d. If necessary, a porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken for further drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approved disposal site. Later pits will be broken out to speed dry. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
  - i. RGB TRUCKING
  - ii. LOBO TRUCKING
  - iii. I & W TRUCKING
  - iv. CRANE HOT OIL & TRANSPORT
  - v. \_\_\_\_\_

**EOG RESOURCES, INC.**  
**ROBINSON HW FED COM No. 2H**

**8. ANCILLARY FACILITIES:**

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

**9. WELL SITE LAYOUT:**

- a. Exhibit 4 shows the proposed well site layout with dimensions of the pad layout.
- b. Exhibit 5 shows proposed location of reserve and sump pits and living facilities.
- c. Mud pits in the active circulating system will be steel pits and the reserve pits will be lined.
- d. If needed, the reserve pit is to be lined with polyethylene. The pit liner will be 12 mils thick. Pit liner will extend a minimum of two feet (2') over the reserve pit's dykes where the liner will be anchored down.
- e. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down after the pit contents have dried. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

**10. PLANS FOR SURFACE RECLAMATION:**

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. The reserve pit area will be broken out and leveled after drying to a condition where these are feasible. The original top soil will again be returned to the pad and contoured, as close as possible, to the original topography. The pit will be closed per OCD compliance regulations.
- b. The pit lining will be buried or hauled away in order to return the location and road to their pristine nature. All pits will be filled and the location leveled, weather permitting, within 120 days after abandonment.
- c. The location and road will be rehabilitated as recommended by the BLM.
- d. The reserve pit will be fenced on three sides throughout drilling operations. After the rotary rig is removed, the reserve pit will be fenced on the fourth side to preclude endangering wildlife. The fencing will be in place until the pit is reclaimed.
- e. If the well is deemed commercially productive, the reserve pit will be restored as described in 10(A) within 120 days subsequent to the completion date. Caliche from areas of the pad site not required for operations will be reclaimed. The original top soil will be returned to the area of the drill pad not necessary to

**EOG RESOURCES, INC.**  
**ROBINSON HW FED COM No. 2H**

operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography.

**11. SURFACE OWNERSHIP**

The surface ownership is owned by the US Government and is administered by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas. The proposed road routes and surface location will be restored as directed by the BLM.

**12. OTHER INFORMATION:**

- a. The area surrounding the well is grassland. The topsoil is very sandy in nature. The vegetation is moderately sparse with native prairie grass, some mesquite bushes, yucca and shinnery oak. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents transverse the area.
- b. There are not dwellings within 2 miles of location.
- c. There is permanent or live water within 0.4 miles of the location.
- d. A Cultural Resources Examination will be completed by 9/1/2007 and forwarded to the BLM office in Carlsbad, New Mexico.

**13. BOND COVERAGE:**

- a. Bond Coverage is Nationwide; Bond No. NM 2308



**EOG RESOURCES, INC.  
ROBINSON HW FED COM No. 2H**

**COMPANY REPRESENTATIVES:**

Representatives responsible for ensuring compliance of the surface use plan are listed below:

**Permitting & Land**

Mr. Donny G. Glanton  
Senior Lease Operations ROW Representative  
EOG Resources, Inc.  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3642 Office  
(432) 770-0602 Cell

**Drilling**

Mr. Jason LaGrega  
Division Drilling Engineer  
EOG Resources, Inc.  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3633 Office  
(432) 894-1217 Cell

**Operations**

Mr. Howard Kemp  
Production Manager  
EOG Resources, Inc.  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3704 Office  
(432) 634-1001 Cell

**EOG RESOURCES, INC.**  
**ROBINSON HW FED COM No. 2H**

**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, 3000 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 3000 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.

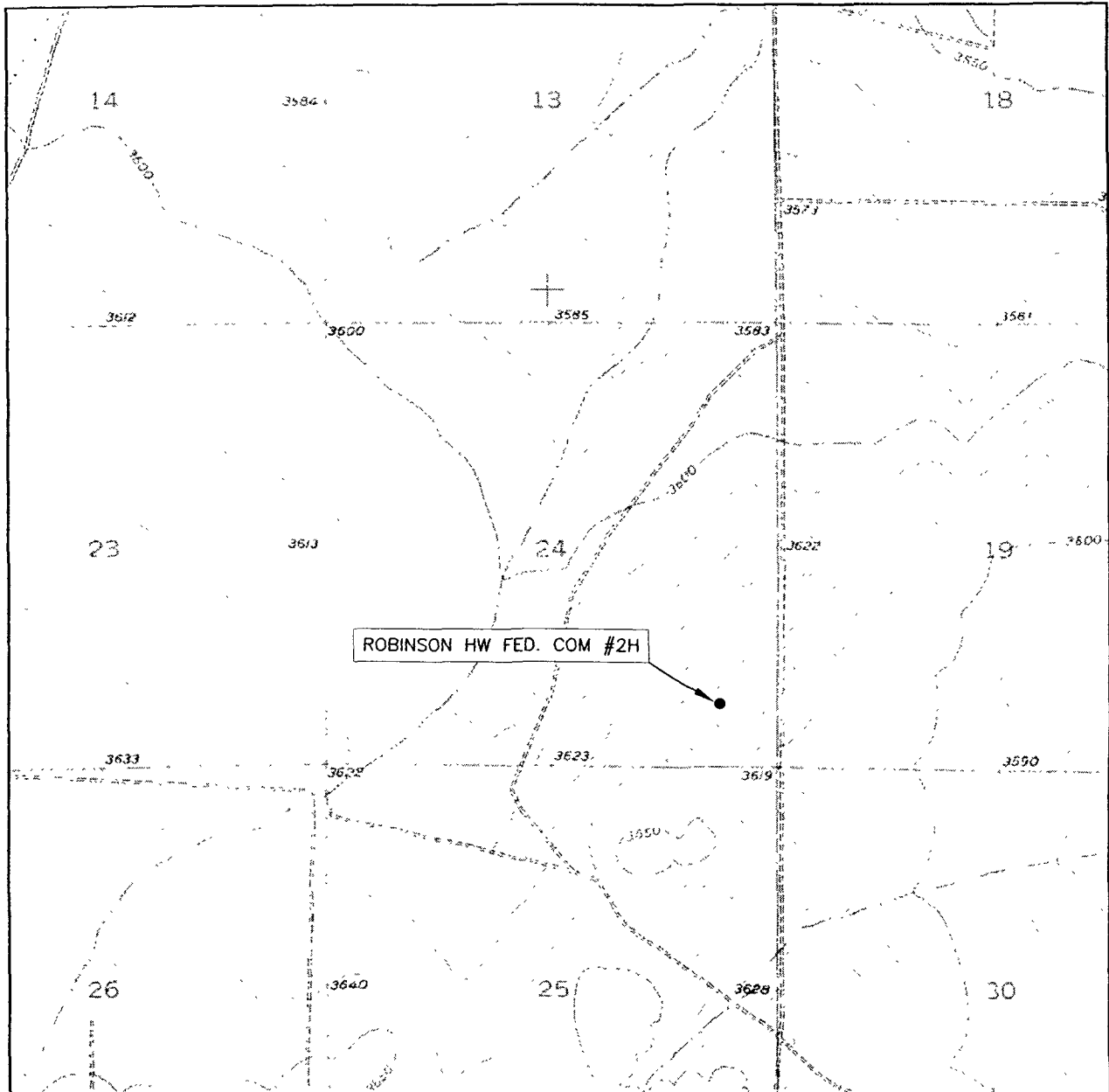
### OPERATOR CERTIFICATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 30<sup>th</sup> day of August, 2007.

*Donny G. Glanton*

Name: Donny G. Glanton  
Position: Sr. Lease Operations ROW Representative  
Address: P.O. BOX 2267 Midland, TX 79705  
Telephone: 432-686-3642  
Field Representative (if not above signatory): \_\_\_\_\_  
Address (if different from above): \_\_\_\_\_  
Telephone (if different from above): \_\_\_\_\_  
E-mail (optional): donny\_glanton@eogresources.com

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 24 TWP. 16-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 910' FSL & 510' FEL

ELEVATION 3642'

OPERATOR EOG RESOURCES INC.

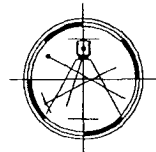
LEASE ROBINSON HW FED. COM #2H

U.S.G.S. TOPOGRAPHIC MAP

HOPE N.E., N.M.

Asel Surveying  
& Consulting

P.O. BOX 393 - 310 W. TAYLOR  
HOBBS, NEW MEXICO - 505-393-9146



## VII. DRILLING

### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 2 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(505) 361-2822

1. **Although no Hydrogen Sulfide has been reported in this Township, it is always a potential hazard.**
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. When floor controls are required, (3M or Greater) controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

### B. CASING

1. The **8-5/8** inch surface casing shall be set at **approximately 900** feet and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with a surface log readout will be used or a cement bond log shall be run to verify the top of the cement.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial action will be done prior to drilling out that string.

**Possible lost circulation in the Grayburg and San Andres formations.**

**Possible high pressure gas bursts in the Wolfcamp formation.**

- 2. The minimum required fill of cement behind the 5-1/2 inch production casing is:

☒ Cement to surface. If cement does not circulate, contact the appropriate BLM office.

- 4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

### **C. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. The appropriate BLM office shall be notified a minimum of 2 hours in advance for a representative to witness the tests.
  - a. The tests shall be done by an independent service company.
  - b. The results of the test shall be reported to the appropriate BLM office.
  - c. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
  - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation **if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days**. This test does not exclude the test prior to drilling out the casing shoe as per Onshore

Order No. 2.

**D. 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.

**Engineer on call phone (after hours):      Carlsbad: (505) 706-2779**

**WWI 091307**