

OCD-ARTESIA

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MAR 23 2006

OCD-ARTESIA

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

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

2. Name of Operator

EOG Resources, Inc.

3a. Address

P.O. Box 2267, Midland, TX 79702

3b. Phone No. (include area code)

(432) 686-3642

4. Location of Well (Report location clearly and in accordance with any State requirements.)

At surface 760' FSL & 660' FEL (U/L P)

At proposed prod. Zone 760' FSL & 660' FWL (U/L M)

14. Distance in miles and direction from nearest town or post office\*

11 miles NW from Artesia

15. Distance from proposed\* location to nearest property or lease line, ft.  
(Also to nearest drlg. Unit line, if any)

760'

16. No. of Acres in lease

1,120

17. Spacing Unit dedicated to this well

S/2

18. Distance from proposed location\* to nearest well, drilling, completed applied for, on this lease, ft.

1120'

19. Proposed Depth

4,553' TVD

TMD 8,424'

20. BLM/BIA Bond No. on file

NM2308

21. Elevations (Show whether DF, KDB, RT, GL, etc)

Gr 3647'

22. Approximate date work will start\*

5/1/2006

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

*Donny G. Glanton*

Name (Printed/Typed)

Donny G. Glanton

Date

1/27/2006

Title

Agent

Approved by (Signature)

/s/ James Stovall

Name (Printed/Typed)

/s/ James Stovall

Date

MAR 20 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

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)

CARLSBAD FIELD OFFICE APPROVAL FOR 1 YEAR

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS  
AND SPECIAL STIPULATIONS  
ATTACHED

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

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 <b>75260</b>	Pool Name Undes Cottonwood Creek; Wolfcamp West
Property Code	Property Name <b>COLORADO B 22 FEDERAL</b>	Well Number <b>2H</b>
OGRID No. <b>7377</b>	Operator Name <b>EOG RESOURCES, INC.</b>	Elevation <b>3647'</b>

Surface Location

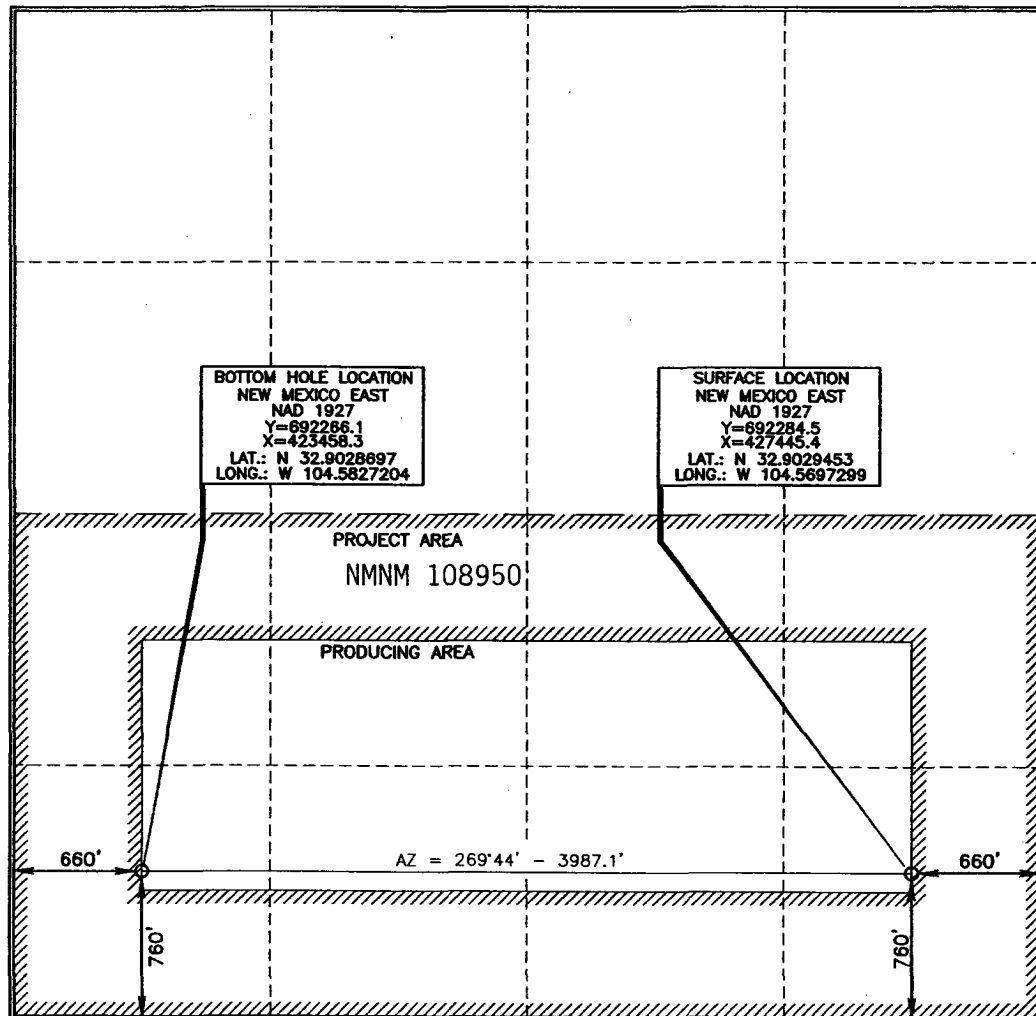
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>P</b>	<b>22</b>	<b>16 SOUTH</b>	<b>24 EAST, N.M.P.M.</b>		<b>760</b>	<b>SOUTH</b>	<b>660</b>	<b>EAST</b>	<b>EDDY</b>

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
<b>M</b>	<b>22</b>	<b>16 SOUTH</b>	<b>24 EAST, N.M.P.M.</b>		<b>760</b>	<b>SOUTH</b>	<b>660</b>	<b>WEST</b>	<b>EDDY</b>

Dedicated Acres <b>320</b>	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.

*Don D. Glanton* 1/24/2006  
Signature Date

Donny G. Glanton  
Printed Name

SURVEYOR CERTIFICATION

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

*Terry J. Carl* 1/24/2006  
Date of Survey  
Signature and Seal of Professional Surveyor  
Certificate Number 15079

WO# 051219WL-d (cog)

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-144  
June 1, 2004

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

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) 686-3642 e-mail address: Donny\_Glanton@eogresources.com  
Address: P.O. Box 2267 Midland, Texas 79702  
Facility or well name: Colorado B 22 Fed No. 2H API #: \_\_\_\_\_ U/L or Qtr/Qtr P Sec 22 T16S - R24E  
County: Eddy Latitude: N32.9029453 Longitude: W104.5697299 NAD: 1927 ☒ 1983 ☐  
Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

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<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness <u>12</u> mil Clay <input type="checkbox"/> Pit Volume <u>10,300</u> bbl	<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> 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 (20 points) 50 feet or more, but less than 100 feet (10 points) <u>100 feet or more</u> <input checked="" type="checkbox"/> (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 (20 points) <u>No</u> <input checked="" type="checkbox"/> (0 points)
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet (20 points) 200 feet or more, but less than 1000 feet (10 points) <u>1000 feet or more</u> <input checked="" type="checkbox"/> (0 points)
<b>Ranking Score (Total Points)</b>	

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

Additional Comments:

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

Date: 3/16/2006

Printed Name/Title: Donny G. Glanton / Agent

Signature

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

Approval:

Printed Name/Title

Signature

Date:

MAR 21 2006



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


January 27, 2006

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 Colorado B 22 Fed #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,

  
for Jason LaGrega  
Drilling Engineer

RECEIVED  
JAN 31 2006  
OCD-AMT/ES/A

**Permit Information:**

Well Name: Colorado B 22 Fed #2H

**Location:**

SL 760' FSL &amp; 660' FEL, Section 22, T-16-S, R-24-E, Eddy Co., N.M.

BHL 760' FSL &amp; 660' FWL, Section 22, T-16-S, R-24-E, Eddy Co., N.M.

**Casing Program:**

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	900'	9-7/8"	7"	23#	J-55	Surface
Production	8,424'	6-1/8"	4 1/2"	11.6#	P-110	Surface

**Cement Program:**

Depth	No. Sacks	Slurries:
900'	300	Lead: Premium Plus + 2% CaCl <sub>2</sub> + 3% Econolite + 1/4 pps Flocele
	200	Tail: Premium Plus + 2% CaCl <sub>2</sub> + 1/4 pps Flocele
8,424'	400	Lead: Interfill C + 1/4 pps Flocele
	350	Tail: Premium Cement + 100% Acid Soluble Additive + 0.6% Halad®-344 + 0.8% Econolite + 0.2% HR-55

**Mud Program:**

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 950'	Fresh - Gel	8.6-8.8	28-34	N/c
950' – 4,400'	Cut Brine	8.8-9.2	28-34	N/c
4,400' – 5,100'	Cut Brine	8.8-9.2	28-34	10-15
4,218' – 8,424'	Polymer (Lateral)	9.0-9.4	40-45	10-25

# EOG RESOURCES INC.

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Colorado B 22 Fed #2H
<b>Company:</b>	EOG - Midland (3)	<b>TVD Reference:</b>	WELL @ 3662.0ft (Original Well Elev)
<b>Project:</b>	Thames	<b>MD Reference:</b>	WELL @ 3662.0ft (Original Well Elev)
<b>Site:</b>	Colorado B 22 Fed #2H	<b>North Reference:</b>	Grid
<b>Well:</b>	Colorado B 22 Fed #2H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Colorado B 22 Fed #2H		
<b>Design:</b>	Plan #1		

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

Site		Colorado B 22 Fed #2H			
Site Position:		Northing:	692,284.50ft	Latitude:	32° 54' 10.604 N
From:	Map	Easting:	427,445.40ft	Longitude:	104° 34' 11.028 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	-0.13 °

Well	Colorado B 22 Fed #2H					
Well Position	+N-S	0.0 ft	Northing:	692,284.50 ft	Latitude:	32° 54' 10.604 N
	+E-W	0.0 ft	Easting:	427,445.40 ft	Longitude:	104° 34' 11.028 W
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft	Ground Level:	3,647.0 ft	

Wellbore		Colorado B 22 Fed #2H			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2000	12/31/2004	9.08	60.87	49,708

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	4,553.0	0.0	0.0	269.74	

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,218.0	0.00	0.00	4,218.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,818.0	90.00	269.73	4,600.0	-1.8	-382.0	15.00	15.00	0.00	269.73	
4,843.0	90.75	269.74	4,599.8	-1.9	-406.9	3.00	3.00	0.02	0.47	
8,423.3	90.75	269.74	4,553.0	-18.4	-3,987.0	0.00	0.00	0.00	0.00	
8,423.5	90.75	269.74	4,553.0	-18.4	-3,987.1	3.00	0.72	2.91	76.09	BHL (Colorado B 22)

# EOG RESOURCES INC.

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Colorado B 22 Fed #2H
<b>Company:</b>	EOG - Midland (3)	<b>TVD Reference:</b>	WELL @ 3662.0ft (Original Well Elev)
<b>Project:</b>	Thames	<b>MD Reference:</b>	WELL @ 3662.0ft (Original Well Elev)
<b>Site:</b>	Colorado B 22 Fed #2H	<b>North Reference:</b>	Grid
<b>Well:</b>	Colorado B 22 Fed #2H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Colorado B 22 Fed #2H		
<b>Design:</b>	Plan #1		

### 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,218.0	0.00	0.00	4,218.0	0.0	0.0	0.0	0.00	0.00	0.00
4,225.0	1.05	269.73	4,225.0	0.0	-0.1	0.1	15.00	15.00	0.00
4,250.0	4.80	269.73	4,250.0	0.0	-1.3	1.3	15.00	15.00	0.00
4,275.0	8.55	269.73	4,274.8	0.0	-4.2	4.2	15.00	15.00	0.00
4,300.0	12.30	269.73	4,299.4	0.0	-8.8	8.8	15.00	15.00	0.00
4,325.0	16.05	269.73	4,323.6	-0.1	-14.9	14.9	15.00	15.00	0.00
4,350.0	19.80	269.73	4,347.4	-0.1	-22.6	22.6	15.00	15.00	0.00
4,375.0	23.55	269.73	4,370.6	-0.1	-31.8	31.8	15.00	15.00	0.00
4,400.0	27.30	269.73	4,393.2	-0.2	-42.5	42.5	15.00	15.00	0.00
4,425.0	31.05	269.73	4,415.0	-0.3	-54.7	54.7	15.00	15.00	0.00
4,450.0	34.80	269.73	4,436.0	-0.3	-68.3	68.3	15.00	15.00	0.00

# EOG RESOURCES INC.

## Planning Report

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<b>Well:</b>	Colorado B 22 Fed #2H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Colorado B 22 Fed #2H		
<b>Design:</b>	Plan #1		

### 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)
4,475.0	38.55	269.73	4,456.0	-0.4	-83.2	83.2	15.00	15.00	0.00
4,500.0	42.30	269.73	4,475.1	-0.5	-99.5	99.5	15.00	15.00	0.00
4,525.0	46.05	269.73	4,493.0	-0.6	-116.9	116.9	15.00	15.00	0.00
4,550.0	49.80	269.73	4,509.7	-0.6	-135.4	135.4	15.00	15.00	0.00
4,575.0	53.55	269.73	4,525.2	-0.7	-155.0	155.0	15.00	15.00	0.00
4,600.0	57.30	269.73	4,539.4	-0.8	-175.6	175.6	15.00	15.00	0.00
4,625.0	61.05	269.73	4,552.2	-0.9	-197.1	197.1	15.00	15.00	0.00
4,650.0	64.80	269.73	4,563.6	-1.0	-219.3	219.3	15.00	15.00	0.00
4,675.0	68.55	269.73	4,573.5	-1.1	-242.3	242.3	15.00	15.00	0.00
4,700.0	72.30	269.73	4,581.9	-1.3	-265.8	265.8	15.00	15.00	0.00
4,725.0	76.05	269.73	4,588.7	-1.4	-289.9	289.9	15.00	15.00	0.00
4,750.0	79.80	269.73	4,593.9	-1.5	-314.3	314.3	15.00	15.00	0.00
4,775.0	83.55	269.73	4,597.6	-1.6	-339.1	339.1	15.00	15.00	0.00
4,800.0	87.30	269.73	4,599.5	-1.7	-364.0	364.0	15.00	15.00	0.00
4,818.0	90.00	269.73	4,600.0	-1.8	-382.0	382.0	15.00	15.00	0.00
4,843.0	90.75	269.74	4,599.8	-1.9	-406.9	406.9	3.00	3.00	0.02
4,900.0	90.75	269.74	4,599.1	-2.2	-464.0	464.0	0.00	0.00	0.00
5,000.0	90.75	269.74	4,597.8	-2.6	-564.0	564.0	0.00	0.00	0.00
5,100.0	90.75	269.74	4,596.4	-3.1	-663.9	663.9	0.00	0.00	0.00
5,200.0	90.75	269.74	4,595.1	-3.6	-763.9	763.9	0.00	0.00	0.00
5,300.0	90.75	269.74	4,593.8	-4.0	-863.9	863.9	0.00	0.00	0.00
5,400.0	90.75	269.74	4,592.5	-4.5	-963.9	963.9	0.00	0.00	0.00
5,500.0	90.75	269.74	4,591.2	-4.9	-1,063.9	1,063.9	0.00	0.00	0.00
5,600.0	90.75	269.74	4,589.9	-5.4	-1,163.9	1,163.9	0.00	0.00	0.00
5,700.0	90.75	269.74	4,588.6	-5.9	-1,263.9	1,263.9	0.00	0.00	0.00
5,800.0	90.75	269.74	4,587.3	-6.3	-1,363.9	1,363.9	0.00	0.00	0.00
5,900.0	90.75	269.74	4,586.0	-6.8	-1,463.9	1,463.9	0.00	0.00	0.00
6,000.0	90.75	269.74	4,584.7	-7.2	-1,563.9	1,563.9	0.00	0.00	0.00
6,100.0	90.75	269.74	4,583.4	-7.7	-1,663.8	1,663.9	0.00	0.00	0.00
6,200.0	90.75	269.74	4,582.1	-8.2	-1,763.8	1,763.9	0.00	0.00	0.00
6,300.0	90.75	269.74	4,580.8	-8.6	-1,863.8	1,863.8	0.00	0.00	0.00
6,400.0	90.75	269.74	4,579.5	-9.1	-1,963.8	1,963.8	0.00	0.00	0.00
6,500.0	90.75	269.74	4,578.1	-9.5	-2,063.8	2,063.8	0.00	0.00	0.00
6,600.0	90.75	269.74	4,576.8	-10.0	-2,163.8	2,163.8	0.00	0.00	0.00
6,700.0	90.75	269.74	4,575.5	-10.5	-2,263.8	2,263.8	0.00	0.00	0.00
6,800.0	90.75	269.74	4,574.2	-10.9	-2,363.8	2,363.8	0.00	0.00	0.00
6,900.0	90.75	269.74	4,572.9	-11.4	-2,463.8	2,463.8	0.00	0.00	0.00
7,000.0	90.75	269.74	4,571.6	-11.8	-2,563.8	2,563.8	0.00	0.00	0.00
7,100.0	90.75	269.74	4,570.3	-12.3	-2,663.7	2,663.8	0.00	0.00	0.00
7,200.0	90.75	269.74	4,569.0	-12.8	-2,763.7	2,763.8	0.00	0.00	0.00
7,300.0	90.75	269.74	4,567.7	-13.2	-2,863.7	2,863.8	0.00	0.00	0.00
7,400.0	90.75	269.74	4,566.4	-13.7	-2,963.7	2,963.8	0.00	0.00	0.00
7,500.0	90.75	269.74	4,565.1	-14.1	-3,063.7	3,063.7	0.00	0.00	0.00
7,600.0	90.75	269.74	4,563.8	-14.6	-3,163.7	3,163.7	0.00	0.00	0.00
7,700.0	90.75	269.74	4,562.5	-15.1	-3,263.7	3,263.7	0.00	0.00	0.00
7,800.0	90.75	269.74	4,561.2	-15.5	-3,363.7	3,363.7	0.00	0.00	0.00
7,900.0	90.75	269.74	4,559.8	-16.0	-3,463.7	3,463.7	0.00	0.00	0.00
8,000.0	90.75	269.74	4,558.5	-16.5	-3,563.7	3,563.7	0.00	0.00	0.00
8,100.0	90.75	269.74	4,557.2	-16.9	-3,663.7	3,663.7	0.00	0.00	0.00
8,200.0	90.75	269.74	4,555.9	-17.4	-3,763.6	3,763.7	0.00	0.00	0.00
8,300.0	90.75	269.74	4,554.6	-17.8	-3,863.6	3,863.7	0.00	0.00	0.00
8,400.0	90.75	269.74	4,553.3	-18.3	-3,963.6	3,963.7	0.00	0.00	0.00
8,423.3	90.75	269.74	4,553.0	-18.4	-3,987.0	3,987.0	0.00	0.00	0.00

# EOG RESOURCES INC.

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Well Colorado B 22 Fed #2H
<b>Company:</b>	EOG - Midland (3)	<b>TVD Reference:</b>	WELL @ 3662.0ft (Original Well Elev)
<b>Project:</b>	Thames	<b>MD Reference:</b>	WELL @ 3662.0ft (Original Well Elev)
<b>Site:</b>	Colorado B 22 Fed #2H	<b>North Reference:</b>	Grid
<b>Well:</b>	Colorado B 22 Fed #2H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Colorado B 22 Fed #2H		
<b>Design:</b>	Plan #1		

### 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)
8,423.5	90.75	269.74	4,553.0	-18.4	-3,987.1	3,987.1	3.00	0.72	2.91
BHL (Colorado B 22 Fed #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 (Colorado B 22 F	0.00	0.00	4,553.0	-18.4	-3,987.1	692,266.10	423,458.30	32° 54' 10.331 N	104° 34' 57.794 W
- plan hits target									
- Point									

# SITE DETAILS: Colorado B 22 Fed #2H

Site Centre Northing: 692284.50  
Easting: 427445.40

Positional Uncertainty: 0.0  
Convergence: -0.13  
Local North: Grid

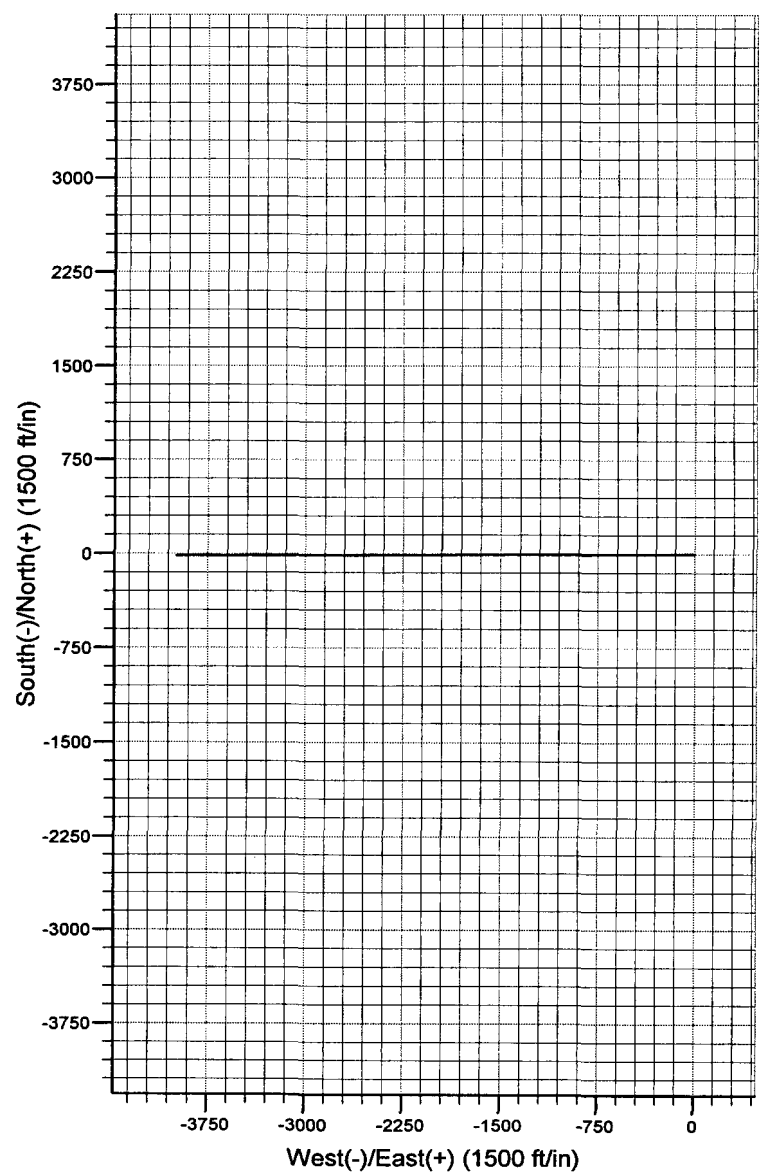
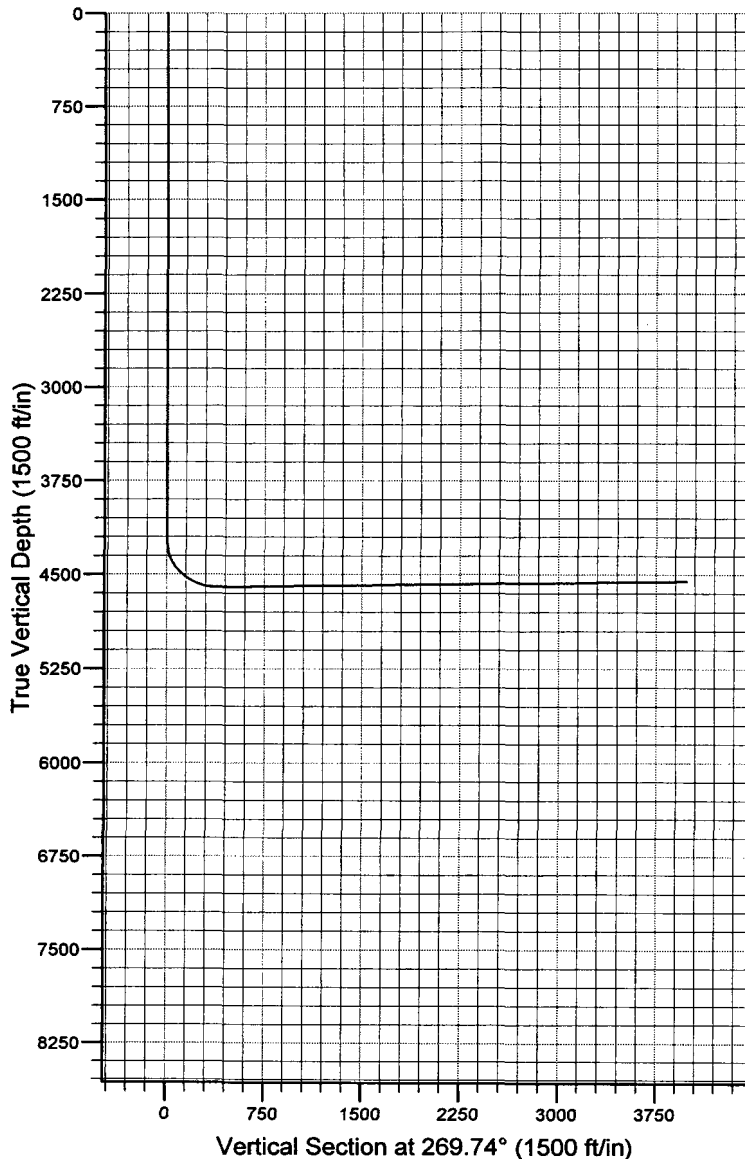
## PROJECT DETAILS: Thames

Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001

System Datum: Mean Sea Level

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
4218.0	0.00	0.00	4218.0	0.0	0.0	0.00	0.00	0.0	
4818.0	90.00	269.73	4600.0	-1.8	-382.0	15.00	269.73	382.0	
4843.0	90.75	269.74	4599.8	-1.9	-406.9	3.00	0.47	406.9	
8423.3	90.75	269.74	4553.0	-18.4	-3987.0	0.00	0.00	3987.0	
8423.5	90.75	269.74	4553.0	-18.4	-3987.1	3.00	76.09	3987.1	BHL (Colorado B 22 Fed #2H)



## DRILLING PROGRAM

EOG RESOURCES, INC.  
Colorado B22 Fed No. 2H  
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:

Quaternary 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 7" casing at 900' and circulating cement back to surface.

### 4. CASING PROGRAM

<u>Hole Size</u>	<u>Interval</u>	<u>OD Casing</u>	<u>Weight</u>	<u>Grade</u>	<u>Jt. Conn. Type</u>
9.875"	0-900'	7"	26#	J-55	LT&C
6.125"	0-8,424'	4.5"	11.6#	P-110	LT&C

#### Cementing Program:

7" Surface Casing:

Cement to surface with 300 sx Prem Plus, 3% Econolite 1/4 pps Flocele, 2% Calcium Chloride, 200 sx Prem Plus, 2% Calcium Chloride, .25#/sx Flocele

4-1/2" Production

Cement with 400sx Interfill C, + 0.25#/sx Flocele; 350 sx Premium Cement, 100% Acid Soluble Additive, + 0.6% Halad-344 + 0.8% Econolite + 0.2% HR-55.

### 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

(SEE EXHIBIT #1)

## **DRILLING PROGRAM**

**EOG RESOURCES, INC.**  
**Colorado B22 Fed No. 2H**  
**Eddy Co. NM**

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.

### **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	Viscosit	Waterloss
		<u>(PPG)</u>	<u>(sec)</u>	<u>(cc)</u>
0-950'	Fresh – Gel	8.6-8.8	28-34	N/c
950'-4400'	Cut Brine	8.8-9.2	28-34	N/c
4,400'-5,100'	Cut Brine (Pilot Hole)	8.8-9.2	28-34	10-15
4,218'-8,424'	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.

### **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.

**DRILLING PROGRAM**

**EOG RESOURCES, INC.**  
**Colorado B22 Fed No. 2H**  
**Eddy Co. NM**

**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.  
Colorado B22 Fed No. 2H  
Eddy Co. NM**

### **SURFACE USE AND OPERATIONS PLAN**

**Surface is owned by the BLM**

**Directions to Well Site: From the Intersection of U.S. Hwy 82 & U.S. Hwy 285, Go west on Hwy 82 for 11.3 miles, Thence north on County Road No. 95 (Joy Road) for 4.2 miles, Thence east on County Road No. 75 for 0.7 miles, Thence north 0.1 miles to the proposed location.**

#### **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:**

518.9' of new road is required See Exhibit 2a

No turnouts necessary.

No culverts, cattle guards or culverts are necessary No 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 will be built to the nearest pipeline.

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

## **DRILLING PROGRAM**

**EOG RESOURCES, INC.**  
**Colorado B22 Fed No. 2H**  
**Eddy Co. NM**

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. and by temporary water supply lines

### **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**

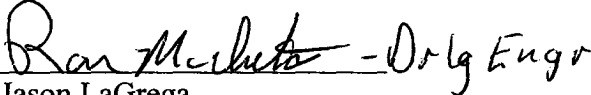
**EOG RESOURCES, INC.**  
**Colorado B22 Fed No. 2H**  
**Eddy Co. NM**

**OTHER INFORMATION:**

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

**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.

for  - Div Eng'r  
Jason LaGrega  
Division Drilling Engineer

DATE 1/26/2006

**DRILLING PROGRAM**

**EOG RESOURCES, INC.  
Colorado B22 Fed No. 2H  
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, 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.

EOG Resources, Inc.

COLORADO B22 FED No. 2H

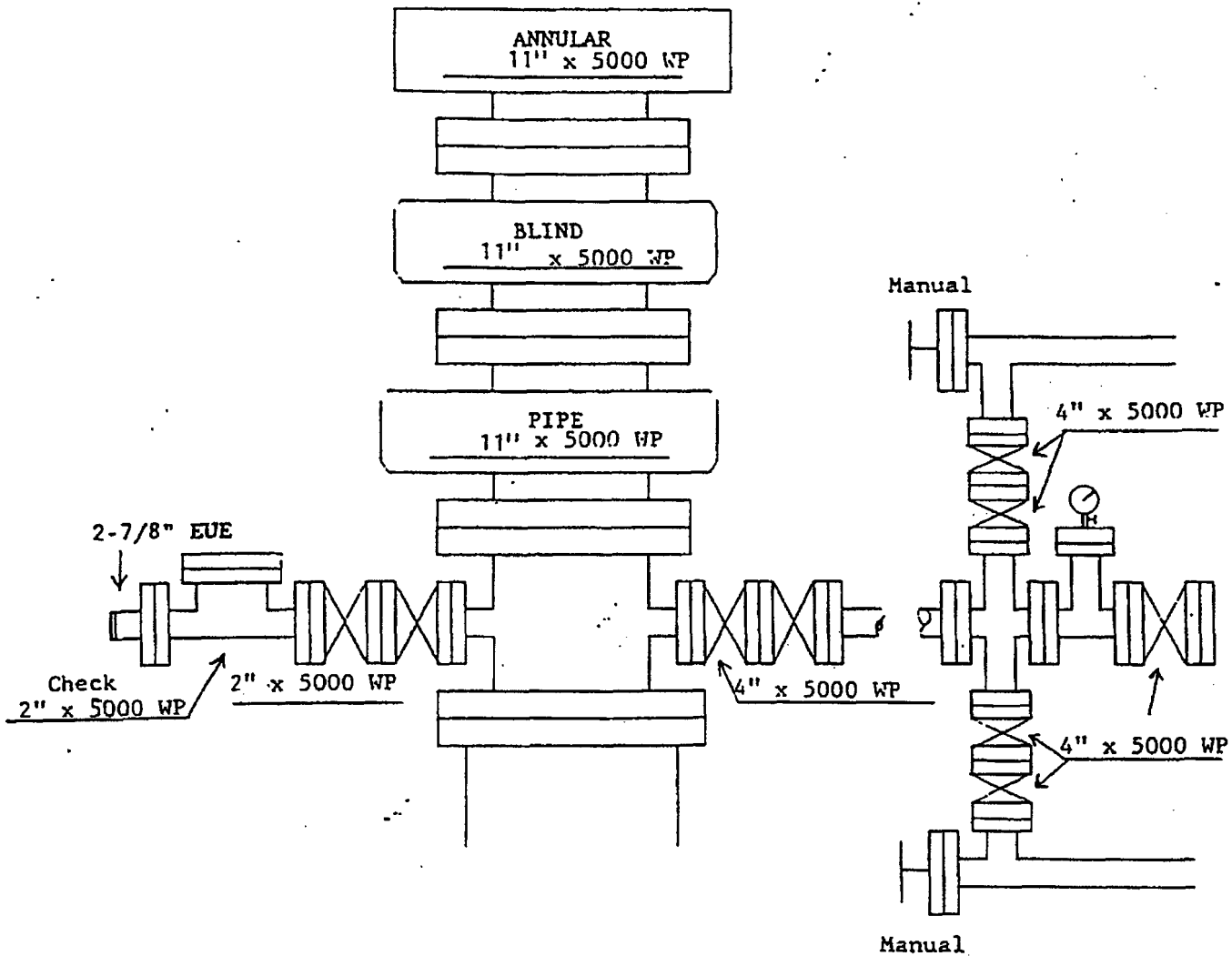
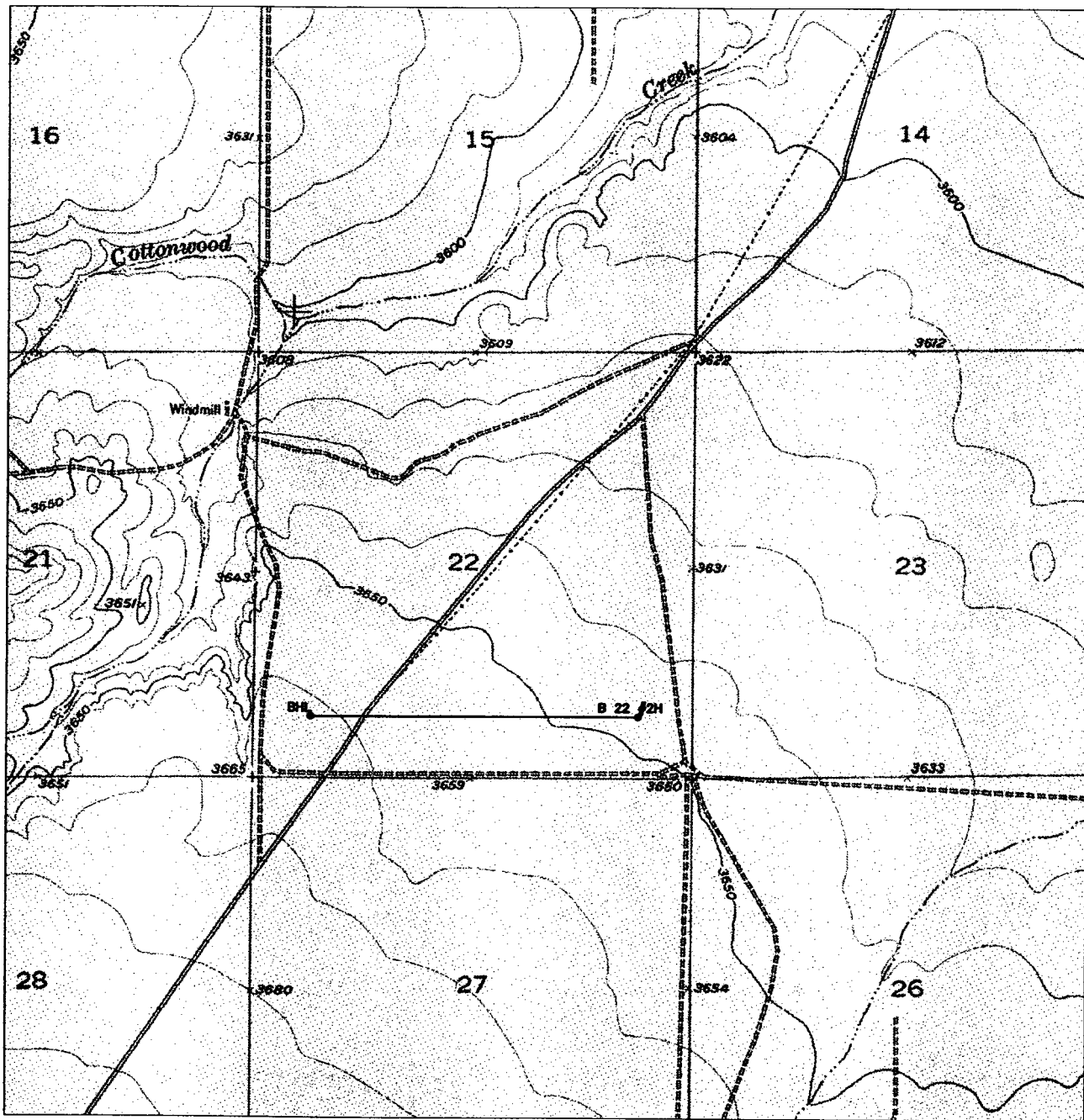


Exhibit 1

# EXHIBIT "2"

## LOCATION VERIFICATION MAP



SEC. 22 TWP. 16-S RGE. 24-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 760' FSL & 660' FEL

ELEVATION 3647'

OPERATOR EOG RESOURCES, INC

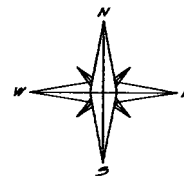
LEASE COLORADO B 22 FED. #2H

U.S.G.S. TOPOGRAPHIC MAP

HOPE NE, NM

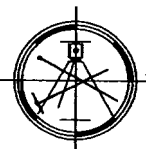
CONTOUR INTERVAL = 10 FEET

SCALE 1" = 2000'



Asel Surveying  
& Consulting

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



**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.:** NMNM 108950

**Legal Description of Land:** S/2 Sec.22 T-16-S; R-24-E, N.M.P.M., Eddy Co. NM  
**Formation(s) (if applicable):**

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

Individually  
nationwide *AD*

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

**Authorized Signature:** *Donny G. Glanton*

Donny G. Glanton

**Title:** Agent

**Date:** 1/26/2006

## CONDITIONS OF APPROVAL - DRILLING

Operator's Name: EOG Resources Incorporated

Well Name & No: Colorado B 22 Fed No.02-H

Location: Surface: 760' FSL & 660' FEL, Sec.22, T. 16 S. R. 24 E.

BHL: 760' FSL & 660' FWL, Sec.22, T. 16 S., R. 24 E.

Lease: NMNM 108950 Eddy County, New Mexico

.....

### I. DRILLING OPERATIONS REQUIREMENTS:

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

A. Spudding

B. Cementing casing: 7 inch; 4 1/2 inch;

C. BOP Tests

2. A Hydrogen Sulfide (H2S) Drilling Plan is not required for this well bore.

3. 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.

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

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

6. A Communitization Agreement shall be filed and approved by this office prior to any sales from this well.

### II. CASING:

1. The 7 inch shall be set at 900 Feet with cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. The minimum required fill of cement behind the 4 1/2 inch Production casing is to place TOC at least 200 feet above the Top of the Wolfcamp.

### III. PRESSURE CONTROL:

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2. The BOP and related equipment shall be installed and operational before drilling below the 13 3/4 inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be 2 M psi. The Operator chooses to utilize a 5 M BOPE system and test it under a 3M rated system, - Approved.

### III. (Pressure Control Con't.)

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the test.

- The test shall be done by an independent service company
- The results of the test shall be reported to the appropriate BLM office.
- Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures.
- Use of drilling mud for testing is not permitted since it can mask small leaks.
- Testing must be done in safe workman-like manner. Hard line connections shall be required.
- Both low pressure and high pressure testing of BOPE is required.