

RECEIVED

EXPEDITED

ROW

Form 3160-3  
(September 2001)

2003 FEB 11 AM 11:45

UNITED STATES  
DEPARTMENT OF THE INTERIOR, NM  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>5F065546B</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name NA
2. Name of Operator <b>Koch Exploration Company, LLC</b>		7. If Unit or CA Agreement, Name and No. NA
3a. Address <b>20 East Greenway Plaza Houston, Texas 77046</b>	3b. Phone No. (include area code) <b>713-544-4318</b>	8. Lease Name and Well No. <b>Christina Com 30-1A</b>
4. Location of Well (Report location clearly and in accordance with any State requirements) At surface <b>NW/4 Sec. 30, T28N, R10W, 290' FNL &amp; 865' FWL</b> At proposed prod. zone <b>(Same)</b>		9. API Well No. <b>30045 31393</b>
14. Distance in miles and direction from nearest town or post office* <b>6 miles Southeast of Bloomfield, NM</b>		10. Field and Pool, or Exploratory <b>Basin Fruitland Coal</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>290'</b>	16. No. of Acres in lease <b>564.75</b>	11. Sec., T., R., M., or Blk. and Survey or Area <b>Sec. 30, T28N, R10W</b>
17. Spacing Unit dedicated to this well <b>329.40 w/p</b>	12. County or Parish <b>San Juan</b>	13. State <b>NM</b>
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>4100'</b>	19. Proposed Depth <b>2050'</b>	20. BLM/BIA Bond No. on file <b>400 GH. 0471</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5926' GR</b>	22. Approximate date work will start* <b>available rig</b>	23. Estimated duration <b>30 days</b>

## 24. Attachments

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

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

25. Signature <b>Rolf A. Ornelas</b>	Name (Printed/Typed) <b>Rolf A. Ornelas</b>	Date <b>Feb 07, 03</b>
Title <b>SE Engineer</b>		
Approved by (Signature)	Name (Printed/Typed)	Date
Title	Office	

Application approval does not warrant or certify the 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)

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH ATTACHED  
"GENERAL REQUIREMENTS".

NM, NOTENWUVA 070

HOLD C104 FOR NSL

96:11 NW 11 FEB 00Z

RECEIVED

MAY 03

This action is subject to technical and  
procedural review pursuant to 43 CFR 3165.3  
and appeal pursuant to 43 CFR 3165.4

DISTRICT I  
P.O. Box 1980, Hobbs, N.M. 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

DISTRICT II  
811 South First, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT III  
1000 Rio Brazos Rd., Artec, N.M. 87410

P.O. Box 2088  
Santa Fe, NM 87504-2088

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-31393		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 19342	Property Name CHRISTINA COM 30		Well Number IA
OGHD No. 12807	Operator Name KOCH EXPLORATION		Elevation 5926

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	30	28 N	10 W		290	NORTH	865	WEST	SAN JUAN

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.

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

	<p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature: </p> <p>Printed Name: Lance E. Harmon</p> <p>Title: Vice President - Land</p> <p>Date: 12/11/02</p>	
	<p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey: 10/15/02</p> <p>Signature and Seal of Professional Surveyor: </p>	
	<p>RECEIVED</p>	
	<p>APR 2003</p>	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

*SUBMIT IN TRIPLICATE*

070 Farmington

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

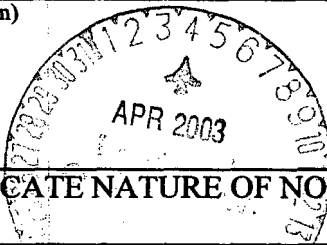
Koch Exploration Company, LLC

3. Address and Telephone No.

20 Greenway Plaza, Houston, Texas 77046 (713) 544-4318

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

S30, T28N, R10W (D)  
290 FNL & 865 FWL



FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

SF065546B

6. If Indian, Allottee or Tribe Name

2: 17

NA

NM

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

Christina Com 30 1A

9. API Well No.

3004531393

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

San Juan County  
New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Supplement to APD  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Compelled Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Additional information to APD Drilling Program (already submitted).

See Attached.

I hereby certify that the foregoing is true and correct

Signed

ROYAOL

Title Senior Engineer

Date

3-26-03

(This space for Federal or State office use)

Approved by

/s/ David J. Mankiewicz

Title

Date

APR - 2 2003

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes 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.

NMOC

See Instruction on Reverse Side

Koch Exploration Company, LLC  
Basin Fruitland Infill Well  
**Christina Com 30-1A**  
S30 - T28N - R10W  
**Sundry Notice APD Supplement**

**Casing Program:**

Hole Size	Grade, size of Casing	Weight per Foot	Setting Depth
12 1/4" Hole	8 5/8" J-55 ST&C	24.0#	150
7 7/8" Hole	4 1/2" J-55 LT&C	10.5#	2,050

Circulate 8-5/8" cement to surface - Volumes to be adjusted to new casing depths  
Circulate 4-1/2" cement to surface - Volumes to be adjusted to new casing depths

100% excess on surface casing  
50% excess on production casing

**Centralizer Program:**

**Surface Casing:** 3 Centralizers will be ran on the bottom 3 joints, starting at the shoe joint

**Production Casing:** 2 Centralizers will be ran on the bottom 2 joints, then every 10th joint thereafter or +/-400', and Centralizers to impact a swirling action will be placed just below and into the base of the Ojo Alamo.

**Estimated Formation Tops:**

San Jose	Surface
Ojo	888'
Kirtland Shale	923'
Fruitland Coal	1,608
Pictured Cliff	1,928
TD	2,050

**Estimated Formation Pressures:**

Fruitland Coal	600 psi
Bottom Hole	200 psi

**Estimated depths of useable water, salt water and oil/gas bearing formations:**

Fresh/Useable Water	0' to 923'
Salt Water	923' to 1,608'
Oil and Gas	1,608' to 2,050'

CHRISTINA COM 30-1A  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease SF 065546B

## **Drilling Program**

### **1) Geological name of surface formation -**

Estimated tops of important geological markers:

San Jose	Surface
Ojo	888'
Kirtland Shale	923'
Fruitland Coal	1608'
Pict. Cliffs	1913'
TD	2050'

### **2) Estimated depths at which oil, gas, water, and mineral bearing formation will be found:**

Fresh Water	0' to 200'
Salt Water	201' to 1608'
Oil and Gas	1608' to 2050'

### **3) Pressure Control Equipment:**

- a. 10-inch 900 series or 3,000 psi test double gate hydraulic with 4-1/2" pipe rams and 10-inch series 900 hydril above 10-inch series casinghead and cross spool with flanged outlets. See BOP diagram at **Exhibit F-1** for drawing of choke lines, kill lines and choke manifold. Procedures will include waiting on cement 12 hours, nipple up blowout preventer (BOP) assembly and test to 70% of yield of casing or 3,000 psi maximum. The production casinghead pressure rating will be 3,000 psi.
- b. Type of BOP rams: Blind rams and pipe rams are used as shown on the BOP diagram at **Exhibit F-1**. Occasionally, the position of the rams is reversed depending on the drilling contractor's methods.
- c. The choke manifold and header will have 2-inch choke outlets, a 2-inch straight through the line with 2-inch adjustable chokes installed. The inlet line will be a 2-inch line. All of the above are rated at 3,000 psi working pressure (WP). The choke manifold and header system will have manual control valves; no hydraulic valves will be installed. Casing testing procedure – Surface casing will be tested at 750 psi with 1,000 psi maximum after cementing in place and before drilling out of shoe. Intermediate and production casing will be tested to 3,000 psi after cementing in place and after drilling to the required depth.
- d. Hydraulic controls to close the BOPs are located on the rig floor; the hydraulic remote control is located in the bottom doghouse. There will be no manual controls on the BOP.

CHRISTINA COM 30-1A  
Sec. 30, T28N, R10W, 290' FNL & 865' FWL  
San Juan Co., New Mexico  
Lease SF 065546B

e. BOP testing procedures and frequency:

1. Hydril (3,000WP) will be tested to 70% of yield of casing or 3,000 psi maximum.
  2. Double ram BOPs will be tested to 70% of yield of casing or 3,000 psi maximum.
  3. BOPs will be tested upon installation, after casing is run and on each bit trip.
- f. Casinghead connections will be 2-inch; these outlets will usually be bull plugged during drilling operations. No pumping through these connections is allowed except in emergency to keep from wearing out the head.
- g. The drilling spool will be a series 900 3,000 psi WP with a 2-inch kill line and a 2-inch outlet.

**4) Proposed Casing Program:**

Surface Casing Program:

Surface Casing	8 5/8"	24.0#	J-55 STC	New
Production Casing	4 1/2"	10.5#	J-55 LTC	New

Proposed setting depth, amount and type of cement including additives:

8 5/8" Surface Casing – Surface to 150' – Cement with 100 sks type III (14.6 ppg, slurry yield 1.39 cf/sk) Cement + 2% bwoc Calcium Chloride + .25 lbs/sk Cello Flake + 59.2% Fresh Water. Volume: 138.1 cf., includes 100% excess.

4 1/2" Production Casing – Surface to 2050' –

Lead with 248 sks Premium Lite FM (12.1 ppg, slurry Yield 2.15 cf/sk) + 3% bwoc Calcium Chloride + .25 lb/sk Cello Flake + .4% bwoc FL-52 + 8% bwoc Bentonite + .4% bwoc Sodium Metasilicate + 3 lb/sk Pheno Seal + 116.1 % Fresh Water. Volume: 532.6 cf., includes 50% excess.

Tail with 110 sks Type III Cement (14.0 ppg, slurry Yield 1.54 cf/sk) + 2% bwoc Calcium Chloride + .25 lb/sk Cello Flake + .2% bwoc FL-52 + 68.9% Fresh Water. Volume: 157.4 cf., includes 50% excess

**5) Mud Program:**

0' – 150' – Spud mud and water treated with gel lime.

150' – 2050' – Lime mud, water and polymer.