

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE

FORM APPROVED
OMB NO. 1004-0136

EXPEDITED Right-of-Way

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☐ GAS WELL ☒ OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Koch Exploration Company *Burlington Resources 2002*

3. ADDRESS AND TELEPHONE NO.

P.O. Box 489, Aztec, NM (505) 334-9111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface 1235' FNL & 1890' FWL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approx. 7 Miles NE of Aztec, NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

741'

16. NO. OF ACRES IN LEASE

318.86

17. NO. OF ACRES ASSIGNED TO THIS WELL

318.86 W/2

18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THE LEASE, FT.

801'

19. PROPOSED DEPTH

5600'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6153' GR

22. APPROXIMATE DATE WORK WILL START*

11/8/2001

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" J-55 H40	36# 32.3#	200' 220' +/-	188' 13
8 3/4"	7" J-55	28# 20#	310' 210' +/-	245 93' 13
6 1/4"	4 1/2" J-55	10.5#	300' 500' 7600'	220 66' 13

See Attached

This action is subject to technical and procedural review pursuant to 43 CFR 3100.3 and appeal pursuant to 43 CFR 3100.4.

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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24
SIGNED: *[Signature]* TITLE: Operations Manager

DATE: 7/20/01

(This space for Federal or State office use)

APPROVAL DATE:

PERMIT NO.:

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:

Is/ David J. Mankiewicz

APPROVED BY:

TITLE: *AFM*

DATE:

2/7/02

District I
 (N) Box 1980, Hobbs, NM 88241-1980
 District II
 811 South First, Artesia, NM 88210
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

Form C-102
 Revised October 18, 1994
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-045-32744		2. Pool Code 72319/71599		3. Pool Name Blanco Mesaverde/Basin Dakota	
4. Property Code 28917		5. Property Name LAMBE			6. Well Number 1B
7. OGRID No. 14538		8. Operator Name Burlington Resources Oil & Gas Company, LP			9. Elevation 6153'

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
G	21	31N	10W		1235'	NORTH	1890'	WEST	SAN JUAN

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

12. Dedicated Acres W/318.86	13. Joint or Infill I	14. Consolidation Code	15. 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

N89°26'W 5266.09'(M) 5265.48'(R) 4		2638.02' 1235' 3		S88°30'W 2 1		2626.80' 2636.70'	
1890'							
5		6		7		8 N00°05'E	
SECTION 21 NM-03187							
12		11		10		9 2708.64'	
N01°41'50"W(M) N04°43'W(R) 13		14		15		16 N02°34'W	
S88°28'W		2665.74'		N88°38'W		2560.14'	

17 OPERATOR CERTIFICATION
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature: Peggy Cole
 Printed Name: Peggy Cole
 Title: Regulatory Supervisor
 Date: 9-18-01

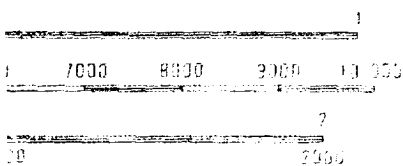
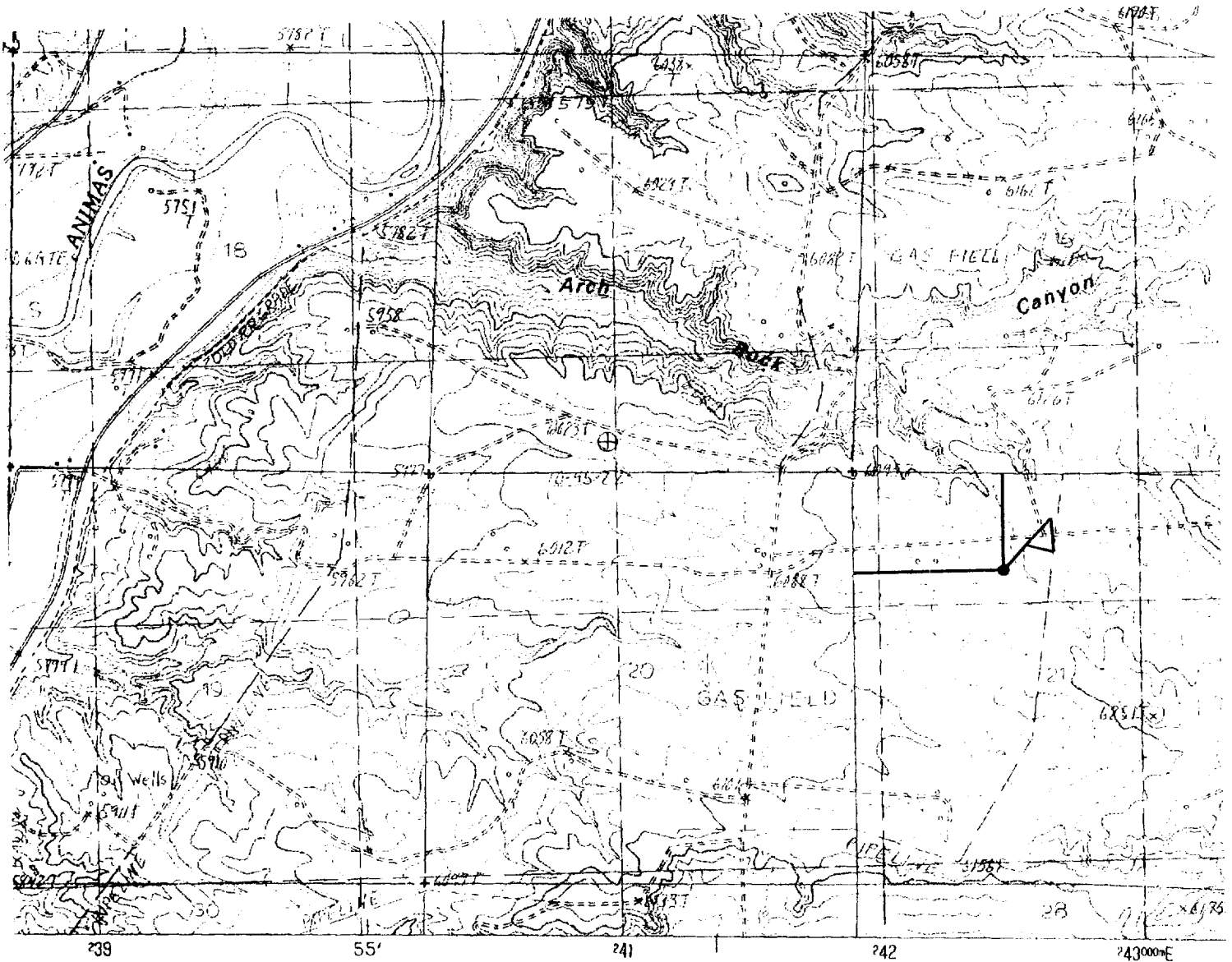
18 SURVEYOR CERTIFICATION
 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 04/17/01
 Signature and Seal of Professional Surveyor: [Signature]
 Certificate Number: 11273

KOCH EXPLORATION CO.

LAMBE #1B

1235' FNL, 1890' FWL, EL. 6153
SECTION 21, T-31-N, R-10-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO



ROAD LEG

Improved Road
Unimproved Road
Trail

○ Interstate Route ○ U.S. R.

CEDAR HILL,
PROVISIONAL

ACY STANDARDS
COLORADO 80225

1	2	3	1 Pinkerton Mesa
			2 Long Mountain
4		5	3 Hooded Hill
			4 Adobe Downs Ranch
			5 Mount Nabo
6	7	8	6 Flora Vista
			7 Artec
			8 Turley

ADJOINING 75' QUADRANGLE NAMES

EXHIBIT A

361071

CEDAR HILL - N.M., COLO.

submitted in lieu of Form 3160-5

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1235' FNL, 1890' FWL, Sec. 21, T-31-N, R-10-W, NMPM

5. Lease Number
NM-03187

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

8. Well Name & Number
Lambe #1B

9. API Well No.
30-045- 30744

10. Field and Pool
Blanco MV/Basin DK

11. County and State
San Juan Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

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

13. Describe Proposed or Completed Operations

It is intended to add the Dakota formation to the subject well. The operations plan will be altered according to the attached.

14. I hereby certify that the foregoing is true and correct.

Signed Deanna Cole Title Regulatory Supervisor Date 9/17/01

TLW

(This space for Federal or State Office use)

APPROVED BY David J. Mankiewicz Title AEM Date 2/7/02

CONDITION 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.

NMOCD

OPERATIONS PLAN

Well Name: Lambe #1B
Location: 1235' FNL, 1890' FWL, Sec 21, T-31-N, R-10-W
San Juan County, NM
Latitude 36° 53.17, Longitude 107° 53.25
Formation: Blanco Mesaverde/Basin Dakota
Elevation: 6153' GL

<u>Formation Tops:</u>	<u>Top</u>	<u>Bottom</u>	<u>Contents</u>
Surface	San Jose	1350'	
Ojo Alamo	1350'	1420'	aquifer
Kirtland	1420'	2245'	gas
Fruitland	2245'	2900'	gas
Pictured Cliffs	2900'	3000'	gas
Lewis	3000'	3610'	gas
Intermediate TD	3100'		
Mesa Verde	3610'	3975'	gas
Chacra	3975'	4625'	gas
Massive Cliff House	4625'	4725'	gas
Menefee	4725'	5125'	gas
Massive Point Lookout	5125'	5525'	gas
Mancos	5525'	6440'	gas
Gallup	6440'	7139'	gas
Greenhorn	7139'	7200'	gas
Graneros	7200'	7252'	gas
Dakota	7252'	7556'	gas
Morrison	7556'		
TD	7600'		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface
Open hole - DIL/GR, Density & Neutron Porosity, Bulk Density/
Correction, Microlog, Temp - TD to minimum operations depth
Mudlog - 6800' to TD
Cores - none

Mud Program:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Vis.</u>	<u>Fluid Loss</u>
0- 200'	Spud	8.4-9.0	40-50	no control
200- 3100'	LSND	8.4-9.0	30-60	no control
3100- 7202'	Air/N2	n/a	n/a	n/a
7202- 7600'	LSND	8.4-9.0	30-60	no control

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

<u>Hole Size</u>	<u>Depth Interval</u>	<u>Csg. Size</u>	<u>Wt.</u>	<u>Grade</u>
12 1/4"	0' - 200'	9 5/8"	32.3#	H-40
8 3/4"	0' - 3100'	7"	20.0#	J-55
6 1/4"	3000' - 7600'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7600' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1).
After nipple-up prior to drilling out surface casing, rams and
casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1).
After nipple-up prior to drilling out intermediate casing, rams
and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling crew.
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# celloflake/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

7" intermediate casing -

Lead w/317 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent (931 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 2145'. First stage: cement with 224 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent. Second stage: 250 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (931 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 1420'. Two turbolating centralizers at the base of the Ojo Alamo at 1420'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

4 1/2" Production Casing -

Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead with 459 sx 50/50 Class "G" Poz with 5% gel, 0.25# celloflake/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid loss additive, 0.15% dispersant, 0.1% antifoam agent (661 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a minimum of 18 hrs prior to completing.

4 1/2" production casing alternative: Lead w/185 sx 9.5 PPG Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/168 sx Class G 50/50 poz w/5% gel, 0.25 pps celloflake, 5 pps gilsonite, 0.25% fluid loss, 0.15% dispersant, 0.1% retarder, 0.1% antifoam (707 cu.ft., 50% excess to cement 4 1/2" x 7" overlap).

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement float shoe on bottom with float collar spaced on top of float shoe.

Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.

- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.