

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF-079485-B
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR ENERGEN RESOURCES CORPORATION		7. UNIT AGREEMENT NAME San Juan 30-4 Unit 21994
3. ADDRESS AND TELEPHONE NO. 2198 Bloomfield Highway; Farmington, NM 87401		8. FARM OR LEASE NAME, WELL NO. San Juan 30-4 Unit 43
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' FSL, 140' FWL At proposed prod. zone		9. API WELL NO. 30-039-26319
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Ten (10) Miles NE of Gobernador, New Mexico		10. FIELD AND POOL, OR WILDCAT East Blanco PC/Blanco MV
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 140'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA M Sec. 17, T30N, R4W, N.M.P.M.
16. NO. OF ACRES IN LEASE 2560	17. NO. OF ACRES ASSIGNED TO THIS WELL 160/320	12. COUNTY OR PARISH Rio Arriba
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 950'	19. PROPOSED DEPTH 7154' -	13. STATE NM
20. ROTARY OR CABLE TOOLS Rotary		21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7447' GR
22. APPROX. DATE WORK WILL START*		

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"	32.30#	200'	130 cu. ft., circ. to surface
8 3/4"	7"	20 & 23#	4765'	1075 cu. ft., 2 stages
6 1/8"	4 1/2"	10.5#	4615-7154'	360 cu. ft., circ. to intermediate

An application to dual complete is being submitted to NMOCD.  
Selectively perforate and sand water fracture the Pictured Cliffs and Mesaverde Formations.  
This gas is dedicated.  
A Williams Field Service Pipeline ROW Plat is attached.

THIS IS AN EXPIDITED APD.

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

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 Production Superintendent DATE 1/19/00

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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:

/s/ Jim Lovato

NEW 10 2000

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

\*See Instructions On Reverse Side

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.

OK [Signature] NMOC

District I  
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised February 21, 1994

District II  
PO Drawer CD, Artesia, NM 88211-0719

Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

200 JUN 23 PM 1:27

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26319	*Pool Code 72400-72319	*Pool Name East Blanco Pictured Cliffs-Blanco Mesaverde
*Property Code 21994	*Property Name SAN JUAN 30-4 UNIT	*Well Number 43
*OGRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION	*Elevation 7447'

10 Surface Location

UL or lot no. M	Section 17	Township 30N	Range 4W	Lot Idn	Feet from the	North/South line SOUTH	Feet from the	East/West line WEST	County RIO ARriba
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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
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12 Dedicated Acres 160/320 $5\frac{1}{4}$ - $\frac{1}{2}$	13 Joint or Infill	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

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature: Printed Name: Gary Brink Title: Production Superintendent Date: 1/19/00
	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.  NOVEMBER 15, 1999 Date of Survey Signature and Seal of Surveyor: Certificate: NEALE C. EDWARDS NEW MEXICO 6857 6857

### BOP SPECIFICATIONS:

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used.

### CEMENTING:

9 5/8" surface casing - Cement with 110 sks Class B Cement with 1/4# flocele/sk and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

Texas Pattern Guide Shoe on bottom. 3 bow type centralizers spaced throughout the string.

#### 7" intermediate casing:

First Stage – cement with 190 sks Class B with 2% Calcium Chloride, 10% gilsonite and 1/4# flocele/sks (240 cu. ft. of slurry, 50% excess to circulate stage tool @ 3700).

Second Stage - cement with 370 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and 1/4# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and 1/4# flocele/sk. (835 cu. ft. of slurry, 50% excess to circulate to surface). WOC 12 hrs. If cement does not circulate, run temperature survey in 8 hrs. to determine TOC. Test casing to 1200 psi for 30 minutes.

Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 10 bow spring centralizers spaced every 3rd joint off bottom. One bow spring centralizer below and eight above stage tool at 3700. Two turbolating centralizers at the base of the Ojo Alamo.

#### 4 1/2" Production Liner

Cement with 285 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (360 cu. ft., 50% excess to tie into intermediate casing string). WOC 18 hrs prior to completion.

Cement nose guide shoe on bottom with float collar on top of shoe joint.

### OTHER INFORMATION:

- 1) The Pictured Cliffs and Blanco Mesaverde will be completed as a dual.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Fruitland Coal is 800, Pictured Cliffs 900 and the Mesaverde is 1100.
- 4) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 5) This gas is dedicated.

# ENERGEN RESOURCES CORPORATION SAN JUAN 30-4 UNIT #43

660' FSL & 140' FWL, SECTION 17, T30N, R4W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO

