

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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  
Energen Resources Corporation

3a. Address  
2198 Bloomfield Highway, Farmington, NM 87401

3b. Phone No. (include area code)  
(505) 325-6800

4. Location of Well (Report location clearly and in accordance with any State requirements)\*  
At surface 1560' FSL, 2340' FEL  
At proposed prod. zone

5. Lease Serial No.  
Jic Cont 96

6. If Indian, Allottee or Tribe Name  
Jicarilla Apache

7. Unit or CA Agreement Name and No.  
21938

8. Lease Name and Well No.  
Jicarilla 96 4Y

9. API Well No.  
30-039-26888

10. Field and Pool, or Exploratory  
Blanco MV: 1/2 21N3W1E Mancos

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec. 1. T26N, R3W, N.M.P.M.

12. County or Parish  
Rio Arriba

13. State  
NM

14. Distance in miles and direction from nearest town or post office\*  
16 miles northwest of Lindrith, New Mexico

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)  
1560'

16. No. of Acres in lease  
2530.72

17. Spacing Unit dedicated to this well  
320/160 E 1/2 MV SE 1/4 Mancos

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
1000'

19. Proposed Depth  
7881'

20. BLM/BIA Bond No. on file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
7143' GL

22. Approximate date work will start\*  
Dec 2001

23. Estimated duration  
14 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:

- 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 shall 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 authorized officer.

25. Signature  
*Don Graham*

Name (Printed/Typed)  
Don Graham

Date  
8/17/01

Title  
Drilling/Completion Foreman

Approved by (Signautre)  
*For Brian W. Davis*

Name (Printed/Typed)

Date  
DEC 19 2001

Title  
*Acting Asst. Field Mgr.*

Office

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.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)

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

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

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

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

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26888		*Pool Code 72319 - 97153	*Pool Name Blanco Mesaverde - WC26N3W14, Mancos (G)
*Property Code 21938	*Property Name JICARILLA 96		*Well Number 4Y
*OGRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION		*Elevation 7143'

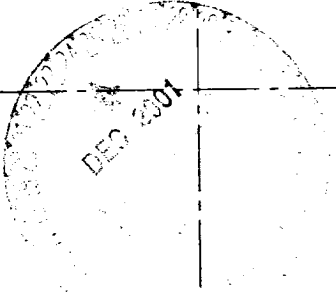
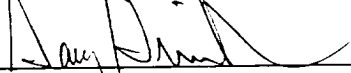


<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	1	26N	3W		1560	SOUTH	2340	EAST	RIO ARRIBA

<sup>11</sup>Bottom Hole Location If Different From Surface

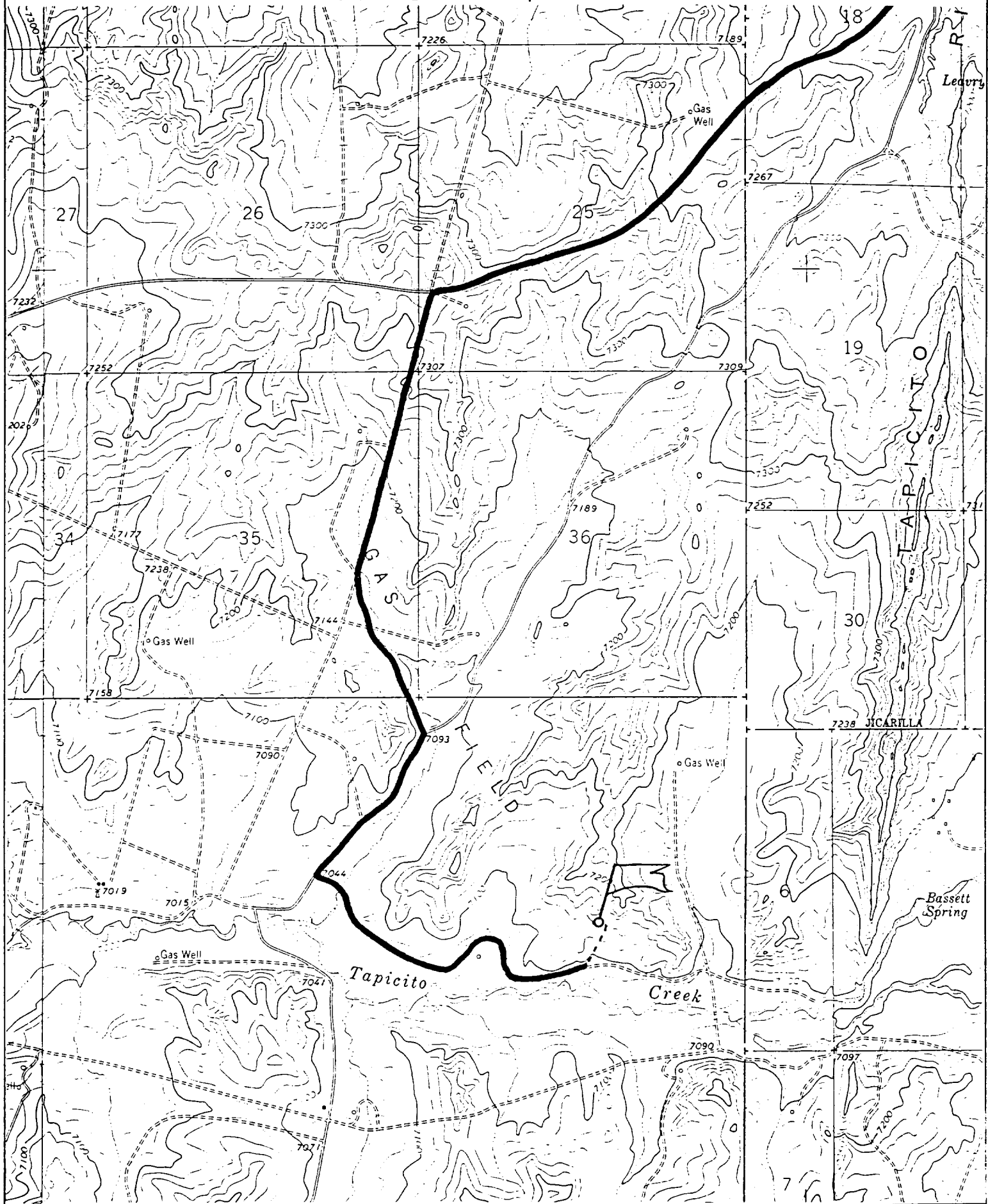
UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres 320/160					<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.		

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

<div>5280.00'</div> <div>5280.00'</div> <div>5280.00'</div> <div>5280.00'</div> <div>2340'</div> <div>1560'</div> <div>5280.00'</div>	<div>5280.00'</div> <div></div>	<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div></div> <div>Signature Gary Brink</div> <div>Printed Name Production Superintendent</div> <div>Title</div> <div>Date 8/24/01</div>
	<div>5280.00'</div> <div>5280.00'</div>	<div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div>Date of Survey: JULY 25, 2001</div> <div>Signature and Seal of Professional Surveyor</div> <div></div> <div></div> <div>Certificate Number 15269</div>

ENERGEN RESOURCES CORPORATION JICARILLA 96 #4Y

1560' FSL & 2340' FEL, SECTION I, T26N, R3W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO



### 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. An upper Kelly Cock valve with handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

### CEMENTING:

9 5/8 surface casing - Cement with 110 sxs Class B Cement with 1/4" Flocele/sx 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 with centralizers on the first three joints.

7" intermediate casing - cement with 430 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. (951 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. 8 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

#### 4 1/2 Production Liner

Cement with 465 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk ( 588 cu. Ft., 50% excess to intermediate casing). WOC 18 hrs prior to completion.

Cement nose guide shoe on bottom with float collar on top of shoe joint. Liner hanger will have a neopreme packoff on top.

### OTHER INFORMATION:

- 1) The Blanco Mesaverde and Gallup Dakota will be completed and downhole commingled.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Gallup is 900, Mesa Verde is 800, Pictured Cliffs is 500 and the Fruitland 400 psi.
- 4) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 5) This gas is dedicated.

## OPERATIONS PLAN

WELL NAME: Jicarilla 96 #4Y

LOCATION: 1560' FSL, 2340' FEL, Section 1, T26N, R3W, Rio Arriba, New Mexico

FIELD: Blanco MV/WC:26N3W1J; Mancos

ELEVATION: 7143'

### FORMATION TOPS:

Surface	San Jose	Huerfanito Benonite	4228
Nacimiento	2181	Cliff House	5317
Ojo Alamo	3113	Menefee	5575
Kirtland	3431	Point Lookout	5844
Fruitland	3526	Gallup	6915
Pictured Cliffs	3688		
Lewis	4016		
		Total Depth	7881

### LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: NONE

Inter TD to total depth: Temp/HRI/CNT, LDT/GR

Mud Logs: 3600' to total depth

Coring: None

Natural Gauges: Every 500' from intermediate TD to total depth

MUD PROGRAM: Fresh water low solids mud from surface to intermediate TD (9.0 – 9.2 PPG).  
Air/mist from intermediate casing point to total depth.

### CASING PROGRAM:

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CSG SIZE</u>	<u>WT.</u>	<u>GRADE</u>
12-1/4"	200'	9-5/8"	36#	J-55
8-3/4"	4216'	7"	20/23#	J-55
6-1/4"	4066'-7881'	4-1/2"	11.6#	J-55

### TUBING PROGRAM:

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

WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 7 1/16" 3000 xmas tree.