

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

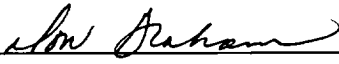
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. Jic Cont 94
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Jicarilla Apache
2. Name of Operator Energen Resources Corporation		7. Unit or CA Agreement Name and No. 21937
3a. Address 2198 Bloomfield Highway Farmington, NM 87401	3b. Phone No. (include area code) (505) 325-6800	8. Lease Name and Well No. Jicarilla 94 4B
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 1980' FSL, 1980' FEL At proposed prod. zone		9. API Well No. 30-039-26887
14. Distance in miles and direction from nearest town or post office* 20 miles northwest of Lindrith, New Mexico		10. Field and Pool, or Exploratory Blanco MV/WC 27N3W234; Mancos
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 1980'		11. Sec., T., R., M., or Blk. and Survey or Area J Sec. 23, T27N, R3W, N.M.P.M.
16. No. of Acres in lease 2560		12. County or Parish Rio Arriba
17. Spacing Unit dedicated to this well 320/140 E1/2MV SE1/4 Mancos		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1200'		20. BLM/BIA Bond No. on file
19. Proposed Depth 7997'		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7164' GR	22. Approximate date work will start* Feb 2002	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 	Name (Printed/Typed) Don Graham	Date 9/28/01
Title Production Superintendent		
Approved by (Signautre) /s/ Brian W. Davis	Name (Printed/Typed)	Date DEC 19 2001
Title for Asst. Field Mgr.		

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 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 00, 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26887	*Pool Code 72319 - 97169	*Pool Name Blanco Mesaverde - W027N3W23; Mancos (G)
*Property Code 21937	*Property Name JICARILLA 94	*Well Number 48
*GRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION	*Elevation 7164'

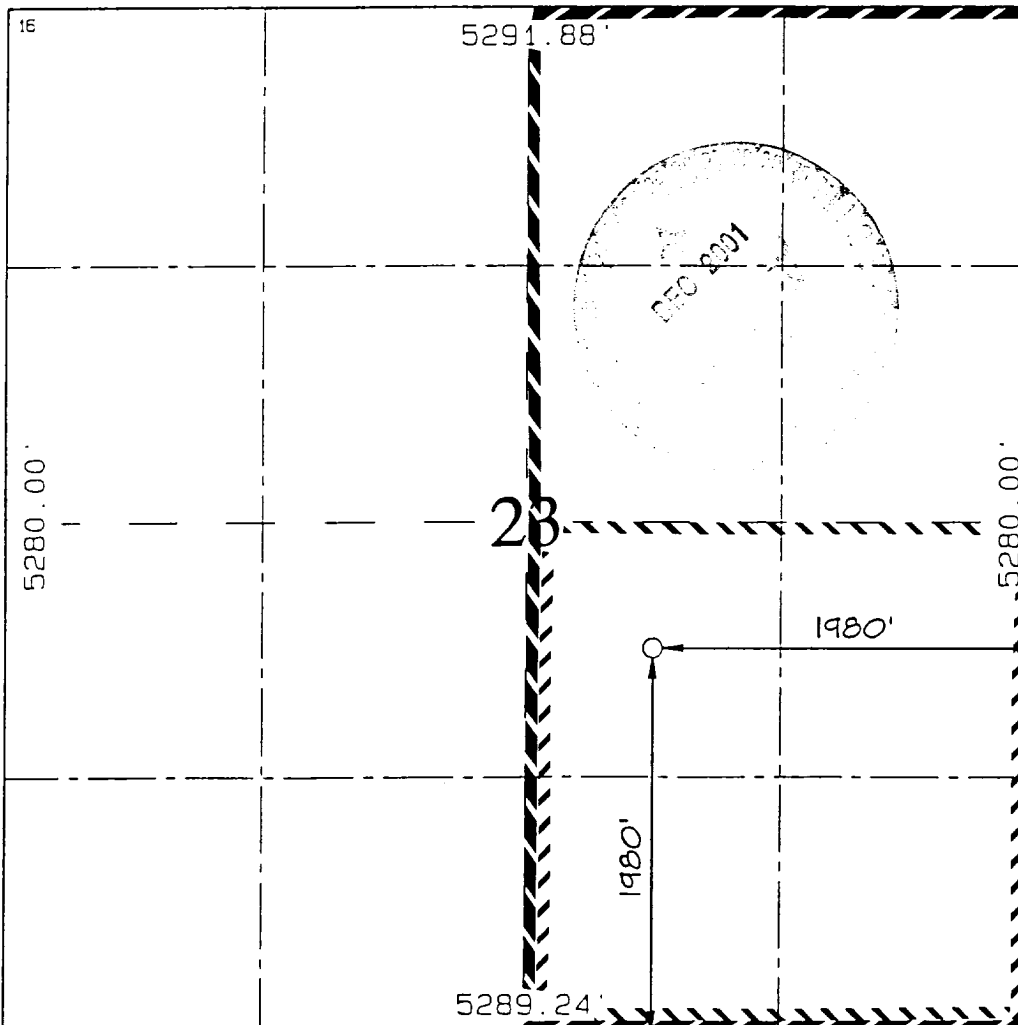
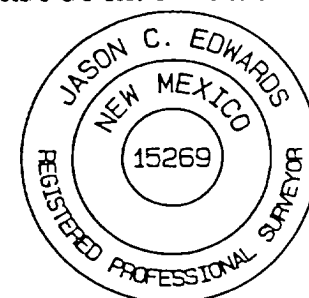
¹⁰ Surface Location

UL or lot no. J	Section 23	Township 27N	Range 3W	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 1980	East/West line EAST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

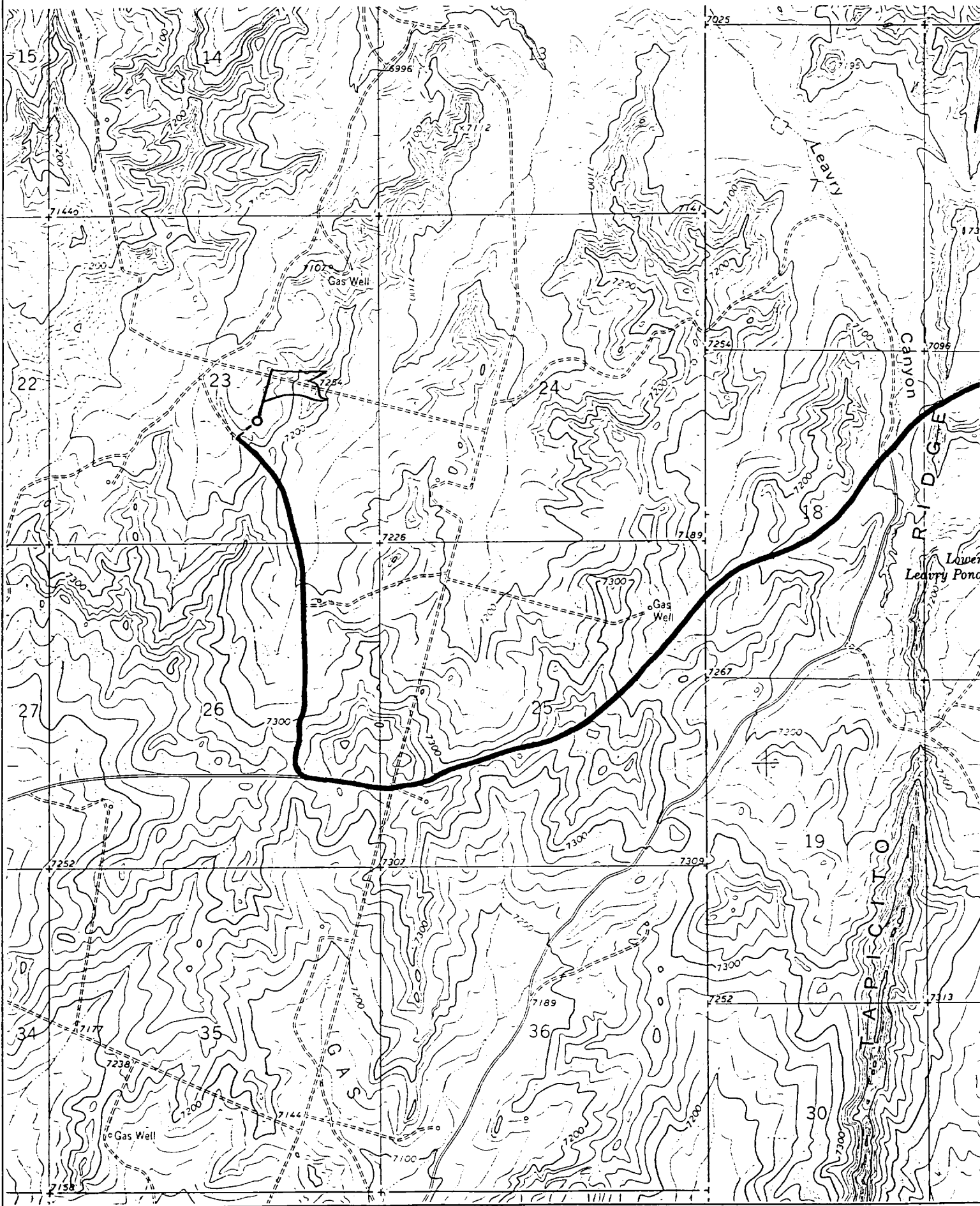
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320/160					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		

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

¹⁶ 	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Don Graham</i> Signature Don Graham Printed Name Production Superintendent Title 9-28-01 Date
	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: AUGUST 15, 2001 Signature and Seal of Professional Surveyor  <i>JASON C. EDWARDS</i> Certificate Number 15269

ENERGEN RESOURCES CORPORATION JICARILLA 94 #4B

1980' FSL & 1980' FEL, SECTION 23, T27N, 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. (952 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 480 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (605 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 94 #4B

LOCATION: 1980' FSL, 1980' FEL, Section 23, T27N, R3W, Rio Arriba, New Mexico

FIELD: Blanco MV/WC:27N3W23J; Mancos

ELEVATION: 7164'

FORMATION TOPS:

Surface	San Jose	Cliff House	5427
<i>Menefee</i> Ojo Alamo	3234 <i>1550'</i>	Menefee	5691
Kirtland	3581	Point Lookout	5956
Fruitland	3676	Gallup	7042
Pictured Cliffs	3814		
Lewis	4021		
Huerfanito Benonite	4351		
		Total Depth	7997

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"	4221'	7"	20/23#	J-55
6-1/4"	4071'-7997'	4-1/2"	11.6#	J-55

TUBING PROGRAM:

7800'	2 3/8	4.7#	J-55
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WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 7 1/16" 3000 xmas tree.