

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

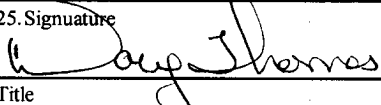
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. Jicarilla Contract 94
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 Jicarilla Apache
2. Name of Operator Energen Resources Corporation		7. Unit or CA Agreement Name and No.
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 5C 21937
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 2540' FNL, 680' FWL At proposed prod. zone		9. API Well No. 30-039-27671
14. Distance in miles and direction from nearest town or post office* 19.5 miles northwest of Lindrith, New Mexico		10. Field and Pool, or Exploratory Blanco Mesaverde
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 680'	16. No. of Acres in lease 2560	11. Sec., T., R., M., or Blk. and Survey or Area E Sec. 23, T27N, R03W, N.M.P.M.
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1500'	19. Proposed Depth 6515'	12. County or Parish Rio Arriba
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7218' GL		13. State NM
22. Approximate date work will start* Feb 04		17. Spacing Unit dedicated to this well 320 W 1/2
23. Estimated duration 10 Days		20. BLM/BIA Bond No. on file

24. Attachments

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

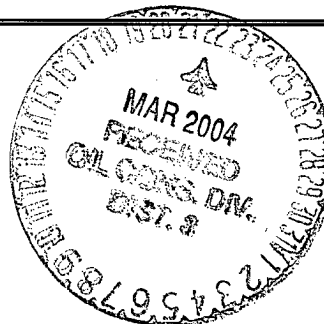
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|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan | 5. Operator certification. |
| 3. A Surface Use Plan (if the location 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 	Name (Printed/Typed) Doug Thomas	Date 12/9/03
Title Drilling & Completion Foreman		
Approved by (Signautre) /s/ David R. Sitzler	Name (Printed/Typed)	Date MAR 17 2004
Title Acting Assistant Field Manager	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 I
PO Box 1980, Hobbs, NM 88241-1980

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

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised February 21, 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

*API Number 30-039-27671		*Pool Code 72319	*Pool Name BLANCO MESAVERDE
*Property Code 21937	*Property Name JICARILLA 94		*Well Number 5C
*GRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION		*Elevation 7218'

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
E	23	27N	3W		2540	NORTH	680	WEST	RIO ARriba

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 320.0 Acres - (W/2)					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

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Don Graham Printed Name Production Superintendent Title 12-8-03 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. Survey Date: OCTOBER 22, 2003 Signature and Seal of Professional Surveyor JASON C. EDWARDS Certificate Number 15269

OPERATIONS PLANWELL NAME: Jicarilla 94 #5CLOCATION: 2540' FNL, 680' FWL, Section 23, T27N, R3W, Rio Arriba, New MexicoFIELD: Blanco MesaverdeELEVATION: 7218'

<u>FORMATION TOPS:</u>		Anticipated W/O/G Zone			Anticipated W/O/G Zone
Surface	San Jose		Huerfano Benonite	4456	
Nacimiento	2345		Cliff House	5705	Water, Oil & Gas
Ojo Alamo	3480	Water	Menefee	5780	Water, Oil & Gas
Kirtland	3635		Point Lookout	6065	Water, Oil & Gas
Fruitland	3735	Water & Gas	Mancos Shale	6325	
Pictured Cliffs	3925	Water, Oil & Gas			
Lewis	4125	Water & Gas	Total Depth	6515	

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None

Inter TD to total depth: GR/Temp/HRI: GR/Spcc Den/Dual Spaced Neutron

Mud Logs: None

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"	32.3#	H-40 ST&C
8-3/4"	4325'	7"	20 & 23#	J-55 ST&C
6-1/4"	4175'-6515'	4-1/2"	10.5#	J-55 ST&C

TUBING PROGRAM:

6450'	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.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 sks 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 575 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. (1235 cu. Ft. of slurry, 90% 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 335 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (427 cu. Ft., 90% 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 neoprene packoff on top.

OTHER INFORMATION:

- 1) The Blanco Mesaverde completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Mesa Verde is 800, Pictured Cliffs is 600 and the Fruitland 500 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.
- 6) No H₂S is anticipated during or in the drilling, completion, or production of this well.