

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

ENERGEN RESOURCES CORPORATION

3. ADDRESS AND TELEPHONE NO.

2198 Bloomfield Highway; Farmington, NM 87401

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

At surface

2450' FNL, 1010' FWL

At proposed prod. zone

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

20 Miles Northwest of Lindrith, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 1010'

16. NO. OF ACRES IN LEASE

2587.18

17. NO. OF ACRES ASSIGNED

TO THIS WELL
w/ 329.12

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

1200'

19. PROPOSED DEPTH

8278

20. ROTARY OR CABLE TOOLS

Rotary

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

7081 GL

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
13 3/8	10 3/4	43.5	200	138 cu. ft., circ. surface
9 7/8	7 5/8	26.4	4158	1340 cu. ft., circ. surface
6 3/4	5 1/2	17	8278	516 cu. ft., to intermediate casing

It is intended to selectively preforate and fracture both the Mesaverde and Dakota zones.

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

TITLE

DATE

(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:

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.

District II
PO Drawer 00, Artesia, NM 88211-0719

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

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

☐ AMENDED REPORT

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26324	*Pool Code 72319-71599	*Pool Name Blanco Mesaverde-Basin Dakota
*Property Code 21944	*Property Name JICARILLA 119N	*Well Number 100
*OGRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION	*Elevation 7061'

10 Surface Location

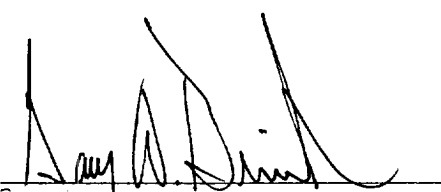
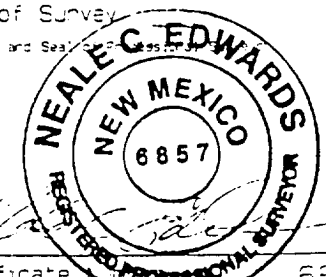
UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County
E	7	26N	4W		2450	NORTH	1010	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 329.12	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.

<p>1405.80' 1320.00' 2640.00'</p> <p>LOT 1</p> <p>2450'</p> <p>LOT 2</p> <p>1010'</p> <p>5280.00'</p> <p>LOT 3</p> <p>LOT 4</p> <p>1384.68' 1320.00' 2640.00'</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p></p> <p>Signature Gary Erickson</p> <p>Printed Name Production Superintendent</p> <p>Title</p> <p>Date 12/20/99</p> <p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>NOVEMBER 16, 1999</p> <p>Date of Survey</p> <p>Signature and Seal </p> <p>Certificate 6857</p>
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OPERATIONS PLAN

WELL NAME: Jicarilla 119N #10C

LOCATION: 2450' FNL, 1010' FWL, Section 7, T26N, R4W, Rio Arriba, New Mexico

FIELD: Blanco Mesaverde/Basin Dakota

ELEVATION: 7081'

FORMATION TOPS:

Surface	San Jose	Cliff House	5443
Ojo Alamo	3233	Menefee	5583
Kirtland	3433	Point Lookout	5928
Fruitland	3608	Gallup	6898
Pictured Cliffs	3783	Greenhorn	7903
Lewis	3958	Graneros	7963
Huerfanito Benonite	4268	Dakota	8058
		Total Depth	8278

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: HRI/SP/GR, CNT/LDT/MLT

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

Mud Logs: 200' 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. 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>
13 3/8"	200'	10 3/4"	43.5#	K-55
9 7/8"	4158'	7 5/8"	26.4#	K-55
6 3/4"	8278'	5 1/2"	17#	K-55

TUBING PROGRAM:

6300'	1 1/2	2.9	J-55
8200'	2 1/16	3.25	J-55

WELLHEAD: 11" 3000 x 9 5/8" casing head. 11" 3000 x 11" 3000 spool. 11" 5000 x 7 1/16" 5000 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:

10 3/4 surface casing - Cement with 120 sxs Class B Cement with 1/4" Flocele/sx and 2% calcium chloride (138 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 5/8" intermediate casing - cement with 630 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. (1340 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.

*TOC - shoe
even
Nacinto*

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.

5 1/2 Production String

Cement with 70 sks 65/35 Class B Poz with 6% gel, 5 PPS gilsonite, and 1/4# flocele/sk. Tail with 300 sks 50/50 Poz with 2% gel, 5 PPS gilsonite, .4% halad-9 and 1/4# flocele/sk (516 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.

OTHER INFORMATION:

- 1) The Blanco Mesaverde and Gallup Dakota will be dual completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) Anticipated pore pressure for the Mesaverde is 1100 and the Dakota is 1500.
- 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 JICARILLA 119N #10C

2450' FNL & 1010' FWL, SECTION 7, T26N, R4W, N.M.P.M.

RIO ARriba COUNTY, NEW MEXICO

