Form 3160-3 UNITED STATE (August 4999) DEPARTMENT OF THE	UNITED STATES () () () () () () () () () (FORM APPROVED OMB NO. 1004-0136		
BUREAU OF LAND MAN	DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT			Expires: November 30, 2000		
60	Alexander	2004	5.	Lease Serial No		
APPLICATION FOR PERMIT 10		REENTER		SF-079487-		
la. Type of Work X DRILL	X DRILL REENTER		6.	6. If Indian, Allotee or Tribe Name		
1b. Type of Well Oil Well Gas Well Other	Si 🗆 Si	ngle Zone Multiple Zon			eement Name and	1N ₀ 5
2. Name of Operator Energen Resources Corporation	100 M	100 FARMINGTO	AN INAL	Lease Name and	Well No.	
3a. Address		3b. Phone No. (include area co	42/	Carson 4C		
2198 Bloomfield Highway: Farmington, NM	(505) 325-6800				74	
A. *Location of Well (Report location clearly and in accordance with At surface 660' FNL, v 1795' FWL	any State equi	rements)*	10.	Field and Pool, 6 Blanco Mes	or Exploratory averde	
At proposed prod. zone				11. Sec., T., R., M., or Blk. and Survey or Are		
				∠ Sec. 19, T30N, R04W		
14. Distance in miles and direction from nearest town or post office*				County or Paris		
Seven miles northeast of (<u>o Arriba</u>	NM	
15. Distance from proposed* location to nearest	16.1	No. of Acres in lease	17. Spacin	g Unit dedicate	to this well	
property or lease line, ft. (Also to nearest drg. unit line, if any)		1819.52		W/2		
18. Distance from proposed location*	19.1	Proposed Depth	20.BLM/	BIA Bond No.	on file	
to nearest well, drilling, completed, applied for, on this lease, ft. 1000'		7176'	20.BLM/BIA Bond No. on file 219,52			,52
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22.	22. Approximate date work will start* 23. Estin		23. Estimated	duration	
7469' GL		June 2003	14 days			
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office). 		4. Bond to cover the operatifiem 20 above). 5. Operator certification. 6. Such other site specific in authorized officer.	ions unless	covered by an e	-	
25. Signuature	Name (Printed/Typed)		Da	ite	
						(00
Title Well Wagtay	Vick	i Donaghey			09/23	/02
0 0						
Production Assistant	l Name (Decise d/Tour of		1 5		
Approved by (Signautre)		Name (Printed/Typed)			ate	2004
					FEB 25	2004
Title	Office					
Application approval does not warrant or certify that the applicant had conduct operations thereon. Conditions of approval, if any, are attached.	nolds legal or e	quitable title to those rights in	the subject	lease which wo	ould entitle the a	pplicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations.	it a crime for a as to any matte	any person knowlingly and willfur within its jurisdiction.	illy to make	e to any departn	nent or agency of	the Unite
*(Instructions on Reverse)						
(man actions on neverse)						
				•		

District I PO 60×1980 , Hobbs, NM 88241-1980

District II PO Drawer DD, 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

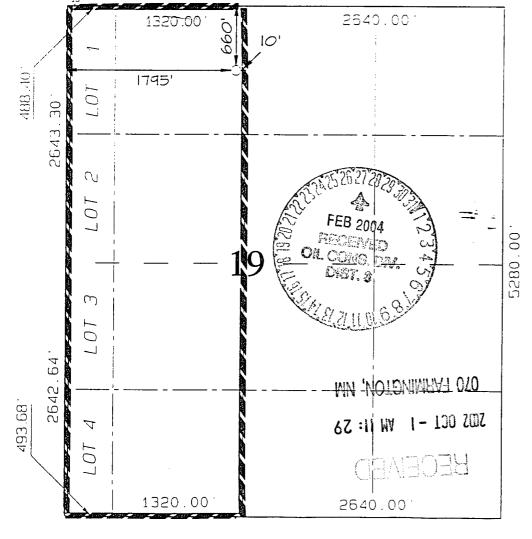
AMENDED REPORT

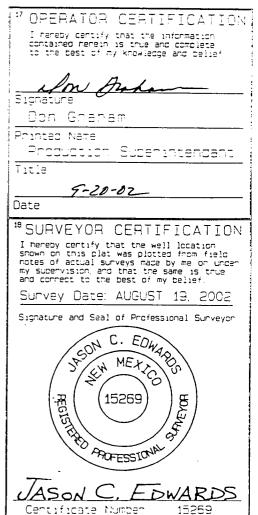
WELL LOCATION AND ACREAGE DEDICATION PLAT

30039-27074	72319	BLANCO MESAVERDE		
Property Code	Property Name CARSON	*Well Number		
70GRID No. 162928	*Operator Name ENERGEN RESOURCES CORPOR	*Elevation 7469		
UL or lot no. Section Township	10 Surface Location Pange Lot Idn Feet from the North/South line	Feet from the East/West line County		

RIÓ 19 \mathbb{C} 30N 4W 660 NORTH 1795 WEST ARRIBA ¹¹ Bottom Hole Different From Surface ocation. tu on lot no Section Township Feet from the Nonth/South line Feet from the County *Codicated Acres Durit on Infill Pagensalization Code 1²⁵ Onder No 219.52 Acres - (W/2)NSP-1791L

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





OPERATIONS PLAN

WELL NAME: Carson #4C

LOCATION: 660' FNL, 1795' FWL, Section 19, T30N, R4W, Rio Arriba County, NM

FIELD: Blanco Mesaverde <u>ELEVATION:</u> 7469' GR

FORMATION TOPS:

Surface	San Jose	Huerfanito Benonite	5216
Nacimiento	2246	Cliff House	6066
Ojo Alamo	3541	Menefee	6416
Kirtland	3771	Point Lookout	6626
Fruitland	4001	Mancos Sh	7086
Pictured Cliffs	4176		
Lewis	4586	Total Depth	7176

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None

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

Mud Logs:

None

Coring:

None

Natural Gauges:

Every 500' from intermediate T. D. to T. D.

<u>MUD PROGRAM:</u> Fresh water low solids mud from surface to intermediate T. D. Air/mist from intermediate casing point to T. D.

CASING PROGRAM:

HOLE SIZE	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	36#	J-55
8 3/4"	4786'	7"	20 & 23#	J-55
6 1/8"	4636'-7124'	4 ½"	10.5#	J-55

TUBING PROGRAM:

7100

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.

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 ½# 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:

Cement with 495 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ¼# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ¼# flocele/sk. (1080 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. Two turbolating centralizers at the base of the Ojo Alamo.

4 1/2" Production Liner

Cement with 280 sks 50/50 poz with 2% gel, 5 PPS gilsonite, .4% halad - 9 and 1/4# flocele/sk (352 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 Blanco Mesa Verde will be completed.
- 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.