Forn: 3160-3 (July 1992)

# **UNITED STA IES**

SUBMIT IN TRIPLICATE\* (Other instructions on reverse side)

FORM APPROVED

OMB I	NO. 100	94-013	6
Expires:	Februa	гу 28,	199

5. LEASE DESIGNATION AND SERIAL NO.
SF-079486

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	SF-079486

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BUREAU OF LAND MANAGEMENT						6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
APPLI	CATION FOR P	ERMIT TO	DRI	LL OR DEEPE	N 1- 119	7. UNIT AGREEMENT NAME		
14. TYPE OF WORK	L X	DEEPEN [		070 F1713835			31185	
b. TYPE OF WELL OIL C	GAS X OTHER		SI	NGLE X MULTIPI	LE _ ']	8. FARM OR LEASE NAME, Carson	WELL NO. 9	
2. NAME OF OPERATOR				1077				
ENERGEN RESOURCES				(1) 3 3 5 0 V		9. API WELL NO. 30 - 039 - 266	26	
3. ADDRESS AND TELEPHONE	NO.	NM 87401			<b>,</b>	10 FIFLD AND POOL, OR W	VILDCAT	
2198 Bloomfield Hi	ighway: Farmington, t location clearly and in accordan	ce with any State 1	eathemen	IS. T) OCT 2004	٦ ١	East Blanco Pi	ctured Cliffs	
4. LOCATION OF WELL (Repor At surface	t location clearly and in accordan		13	RECEIVED S	뒥 !			
1295' FNL, 1035' F	FWL			OF CON DIV		11. SEC., T., R., M., OR BLI AND SURVEY OR AREA	<b>K</b> .	
At proposed prod. zone			Fui.	DIST A	3	Dsec. 34, T30N,		
	DIRECTION FROM NEAREST TOWN	OR POST OFFICE*	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ý	12. COUNTY OR PARISH Rio Arriba	13. STATE NM	
10 miles NE of Go	bernador, NM		14 10	ACRES IN LEASE	17. NO. OF	ACRES ASSIGNED		
15. DISTANCE FROM PROPOSE LOCATION TO NEAREST			1	The state of the same	TO THIS			
PROPERTY OR LEASE LINE (Also to nearest drlg, unit	line if any) 1035			7.49	20 BOTAR	Y OR CABLE TOOLS		
18. DISTANCE FROM PROPOSE	ING. COMPLETED.			POSED DEPTH	Rota			
			477	3	NOCE	22. APPROX. DATE WOR	RK WILL START*	
21. ELEVATIONS (Show wheth	her DF,RT, GR, etc.)							
7606' GR							-	
23.	P	ROPOSED CASING	G AND CI	EMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FO	от	SETTING DEPTH	<del>                                     </del>	QUANTITY OF CEN	MENT	
12 1/4	9 5/8	36 <del>#</del>		200'		u. ft., circ.		
7 7/8	4 1/2	10.5#		4773'		cu. ft., 2 stage:		
This action is subject procedural review p	pt to technical and process to 49 CSR 316 it to 43 CSR 3473 6.	5 3			' &ಟ್ವಿಚ	<mark>ing operations</mark> But to sufficient Bunal Beleviewes	SE WITH ATTACH	

Selectively perforate and sandwater fracture the Pictured Cliffs. This gas is dedicated.

A Williams Field Service Pipeline ROW Plat is attached.

THIS IS AN EXPEDITED APD.

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.

en directionally, give perchent data on substitute versions	
SIGNED Naham	TITLE Drilling & Completion Foreman DATE 12-8-50
(This space for Federal or State office use)	APPROVAL DATE 10/(/01
	quitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:	TITLE AFM (minerals) DATE 18/1/81
APPROVED BY S	ee 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. ALS AND TO

District I PO Box 1980, Hobbs, NM 88241-1980

Olstrict 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 Energy, Munerals & Natural Resources Department

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease – 4 Copies

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

AMENDED REPORT

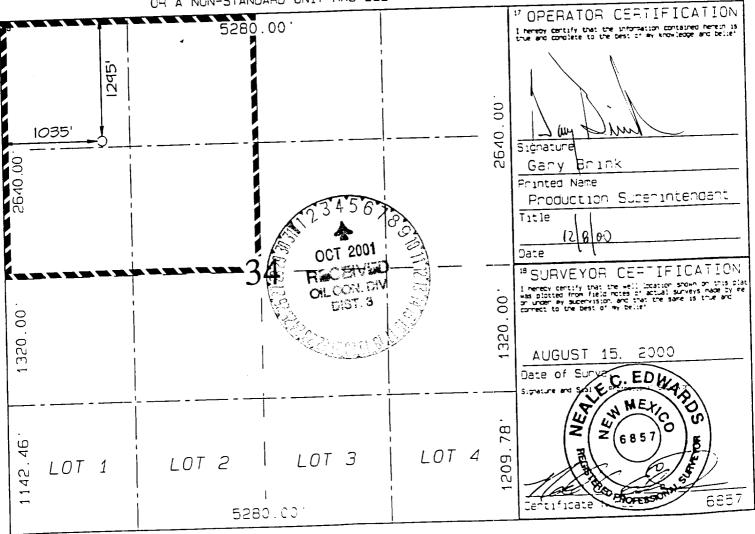
Fee Lease - 3 Cooles

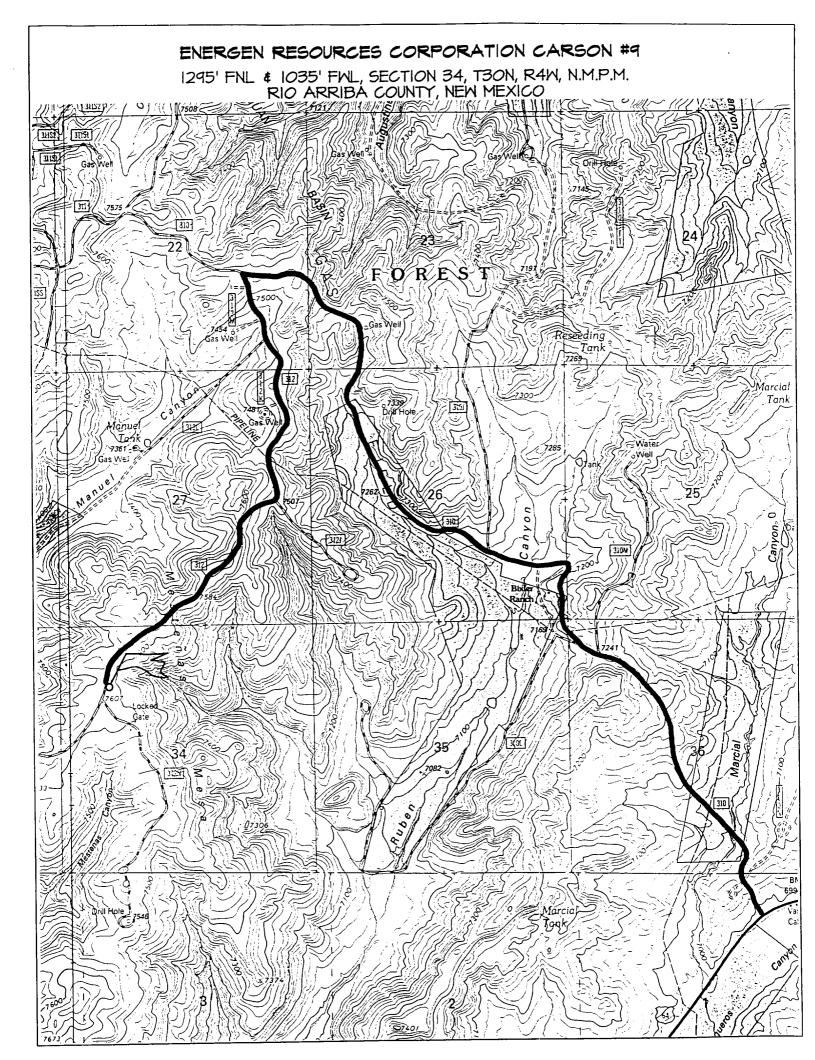
250 CEC | 1 PM 1: 47

	WELL LOCATION AND	) ACREAGE DEDI	CATION (PL	AT <sub>1</sub>	
30-039-26606	*Pool Code		Pool Name	ured Cliffs	
Property Code	,,,	perty Name ARSON			11 Number 9
70GAID No. 162928	•ooe ENERGEN RESO	rator Name JRCES CORPORAT	TION	· · · · · · · · · · · · · · · · · · ·	levation 7606
102323		ce Location	Feet from the	East/West line	Causi,

UL or lot no.	Section 34	70m/ns=10 30N	Fange 4W	Lot Ion	Feet from the 1295	NORTH	Feet from the	East/Hest Time WEST	RIO ARRIBA
u. or lot no.	Section	11 C	Sottom Range	Hole L	Ocation I	f Different North/South line	From Sunt	East/nest line	Carty
<sup>12</sup> Oedicated Acres	160			<u> </u>	Upint or Infi			HAVE BEEN CO	

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 9

LOCATION: 1295' FNL, 1035' FWL, Section 34, T30N, R4W, Rio Arriba County, NM

ELEVATION: 7606' GL FIELD: East Blanco Pictured Cliffs

## FORMATION TOPS:

Surface	San Jose
Nacimiento	2548
Ojo Alamo	3843
Kirtland	3963
Fruitland	4133
Pictured Cliffs	4323
Lewis	4668
Total Depth	4773

## LOGGING PROGRAM:

Open Hole Logs:

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

Mud Logs:

200' above Ojo Alamo to total depth

Coring:

None

Natural Gauges:

None

MUD PROGRAM: Fresh water low solids mud from surface to T. D. 9.0-9.2 PPG.

#### 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
7 7/8"	4773'	4- 1/2"	10.5#	J-55

#### **TUBING PROGRAM:**

J-55 4.7# 2-3/8" 4700

WELLHEAD: 9 5/8" 2000 x 4 1/2" Larkin Fig. 92 casing head. 4 1/2" 2000 x 2" tubing head.

# **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 ¼# 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.

## 4 ½" production casing:

First Stage - cement with 180 sks Class B with 2% Calcium Chloride, 10% Gilsonite and 1/4# flocele/sks (230 cu. ft. of slurry, 50% excess to circulate stage tool @ 4100).

Second Stage - cement with 730 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and  $\frac{1}{4}$  flocele/sk. Tail with 50 sks Class B w/2% calcium chloride, 10% gilsonite and  $\frac{1}{4}$  flocele/sk. (1401 cu. ft. of slurry, 50% excess to circulate to surface). WOC 12 hrs.

Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 8 bow spring centralizers spaced every 3rd joint off bottom. One bow spring centralizer below and eight above stage tool at 3700. Two turbolating centralizers at the base of the Ojo Alamo.

## **OTHER INFORMATION:**

- 1) No abnormal temperatures or pressures are anticipated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
- 3) This gas is dedicated.
- 4) Anticipated pore pressure for the Fruitland is 900 psi and the Pictured Cliffs is 1000 psi.