Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO	1	5. Lease Serial No. SF-079487A				
1a. Type of Work X DRILL I		6. If Indian, Allotee or Tribe Name				
1b. Type of Well Oil Well X Gas Well Othe	e 7.1	7. Unit or CA Agreement Name and No.				
2. Name of Operator	_		8.1	Lease Name and Well		
Energen Resources Corporation		al Di Ai C Lai		Carson 11		
3a. Address		3b. Phone No. (include area co	7.	API Well No.	7/04/	
 2198 Bloomfield Highway Farmington, New Mey Location of Well (Report location clearly and in accordance with 	X1CO 8/401	(505)325-6800	-	<u>30 -034 - 7</u>		
At surface 1680' FNL, 1650' FWL	n any state equi	ements)	11.	Field and Pool, or Exp East Blanco Pi Sec., T., R., M., or B	ctured Cliffs	
At proposed prod. zone	F	Sec. 21, T30N,	R4W, N.M.P.M			
14. Distance in miles and direction from nearest town or post office*	· · · · · · ·	· · · · · · · · · · · · · · · · · · ·			13. State	
10 miles Northesast of G	obernador.	NEw_Mexico	Ri	Rio Arriba NM		
15. Distance from proposed*	1	No. of Acres in lease	17. Spacin	ng Unit dedicated to th	nis well	
location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)		1819.52		160 NW/4		
18. Distance from proposed location*		19. Proposed Depth 2		BIA Bond No. on file	e	
to nearest well, drilling, completed, applied for, on this lease, ft. 2300'		4719'				
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22.	22. Approximate date work will start*		23. Estimated duration		
7522' GL	May 2002			10 Days		
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		4. Bond to cover the operal Item 20 above). 5. Operator certification. 6. Such other site specific is authorized officer.	ions unless	covered by an existin		
25. Signuature	Name	(Printed/Typed)	····	Date		
Now Araham	Don	Don Graham			12/11/01	
Title	•					
Production Superintendent						
Approved by (Signauto)		Name (Printed/Typed)		Date 2/6/02		
Title AFM	Office	FFO				
Application approval does not warrant or certify that the applicant conduct operations thereon. Conditions of approval, if any, are attached.	holds legal or	equitable title to those rights in	the subjec	t lease which would e	entitle the applicant t	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mak States any false, fictitious or fraudulent statements or representations	te it a crime for s as to any matte	any person knowlingly and will er within its jurisdiction.	ully to mak	ce to any department o	or agency of the Unite	
*(Instructions on Reverse)	P /	j	ma Na	2 959 × 10 − 10 − 10 − 10 − 10	-3. 4. 10 At 1	

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

District II PO Drawer DD, Antesia, 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

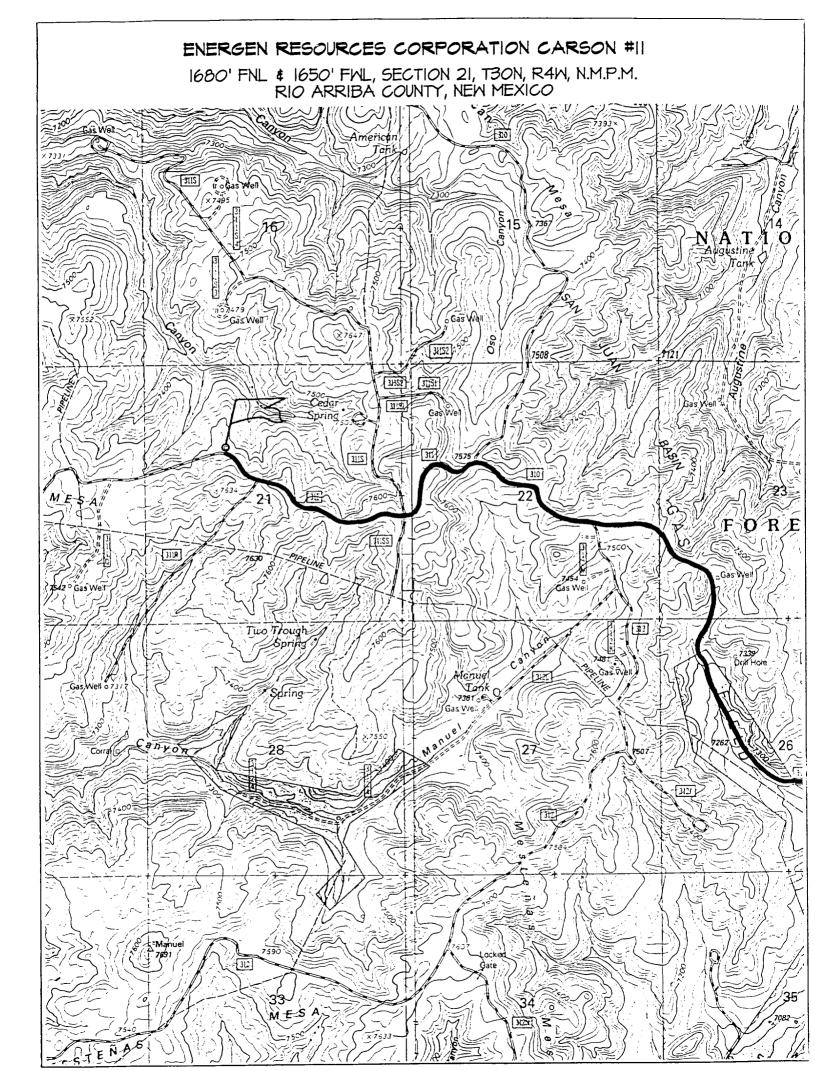
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

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	LOCAT:	ION AND A	CREAGE DED			\			
'API Number 'Pool Code						'Pool Name						
3003	9-26	1886	72400			Pictured Cl	iffs,	East				
'Property Code			· · · · · · · · · · · · · · · · · · ·	Property Name			"Well Number					
21185				CARSON				11				
'OGRID I		-	-			*Operator Name				*Elevation		
16292	28	ENERGEN RESOURCES CORI					ATION 7522					
					¹⁰ Surface		,					
Ut or lot no.	Section	Township	Flange	Lot Idn	Feet from the	North/South line	1	t from the	East/We:		RIO	
F	21	30N	4W		1680	NORTH					ARRIBA	
	,		ottom	Hole L	ocation I	f Different		om Sunfa Etromitre	CE East/he	71 luna	Color	
UL or lot no.	Section	Township quality	Range	Lat Idn	Feet from the	NO UV SCOUT THE		: 11311 5 2	E35C/ME	st Ine	County	
12 0					13 Jaint or Infill	¹⁴ Consolidation Code	15 Orger	- Na				
¹² Dedicated Acres	160)			30.111							
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								/s	ASON CH	MEY	8	
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OPERATIONS PLAN

WELL NAME: Carson 11

LOCATION: 1680' FNL, 1650' FWL, Section 21, T30N, R4W, Rio Arriba County, NM

FIELD: East Blanco Pictured Cliffs ELEVATION: 7522' GL

FORMATION TOPS:

San Jose
2264
3634
3864
4084
4269
4579
4719~

LOGGING PROGRAM:

Open Hole Logs:

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

Mud Logs: None 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	DEPTH	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	32.3#	H-40
7 7/8"	4719'	5 ½"	15.5#	J-55

TUBING PROGRAM:

4600 2 3/8" 4.7# J-55

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

5 1/2" production casing:

First Stage - cement with 155 sks Class B with 2% Calcium Chloride, 10% Gilsonite and ½# flocele/sks (194 cu. ft. of slurry, 50% excess to circulate stage tool @ 4000).

Second Stage - cement with 510 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ¼# flocele/sk. Tail with 50 sks Class B w/2% calcium chloride, 10% gilsonite and ¼# flocele/sk. (1040 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 4000. 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.