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 PE	RMIT TO DRILL O	DR REENTER HECEIVE	1 /1	Lease Serial No. NM-4461			
la. Type of Work X DRILL	REENTER	□ REENTER 203 JM - 3 AM					
1b. Type of Well Oil Well Gas Wel	l Ωther χ			Unit or CA Agreeme	nt Name and No. 7		
2. Name of Operator		UTU T a. Hingiel	1, 1 18:	Lease Name and Wel	l No.		
Energen Resources Corporation 3a. Address		3b. Phone No. (include area cod		Elk Horn 101			
2198 Bloomfield Highway Farmingtor 4. Location of Well (Report location clearly and in ac	New Mexico 87	401 (0 (505) 325-6800			27450		
	WNE	equirements)		Field and Pool, or Ex Basin Fruitlaı	nd Coal		
At proposed prod. zone		AUG 2003			Blk. and Survey or Area RO5W, N.M.P.		
14. Distance in miles and direction from nearest town or	post office*	CANS DAY	12.	County or Parish	13. State		
16 miles	northeast of Got	pernador S	Ric	o Arriba	NM		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any)		via No. of Acres in lease	17. Spacin	Spacing Unit dedicated to this well 320/E2			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 4500'		19. Proposed Depth 3625'	20.BLM/BIA Bond No. on file				
21. Elevations (Show whether DF, KDB, RT, GL, etc.		22. Approximate date work will start*		23. Estimated duration			
6815' GL		06/01/03		5 days			
The following, completed in accordance with the requir		Attachments	41:- 6				
 Well plat certified by a registered surveyor. A Drilling Plan A Surface Use Plan (if the location is on National F SUPO shall be filed with the appropriate Forest Ser 	orest System Lands, the	4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).					
25. Signuature	Na	ame (Printed/Typed)	Date				
		on Graham		5/30/03			
Title							
Production Superintendent							
Approved by (Signautre) Original Signed: Stephen Mason		Name (Printed/Typed)		Data	IG 0 8 2003		
Title		Office					
Application approval does not warrant or certify that conduct operations thereon. Conditions of approval, if any, are attached.	the applicant holds legal	or equitable title to those rights in the	he subject	lease which would o	entitle the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section States any false, fictitious or fraudulent statements or re	on 1212, make it a crime presentations as to any n	for any person knowlingly and willful natter within its jurisdiction.	ly to make	e to any department o	or agency of the United		
*(Instructions on Reverse)				·			

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED *GENERAL REQUIREMENTS*. This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

HOLD C184 FOR NSL

District PO Box 1980, Hobbs, NM 88241-1980

District II • PO Drawer DD, Artesia, NM 88211-0719

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

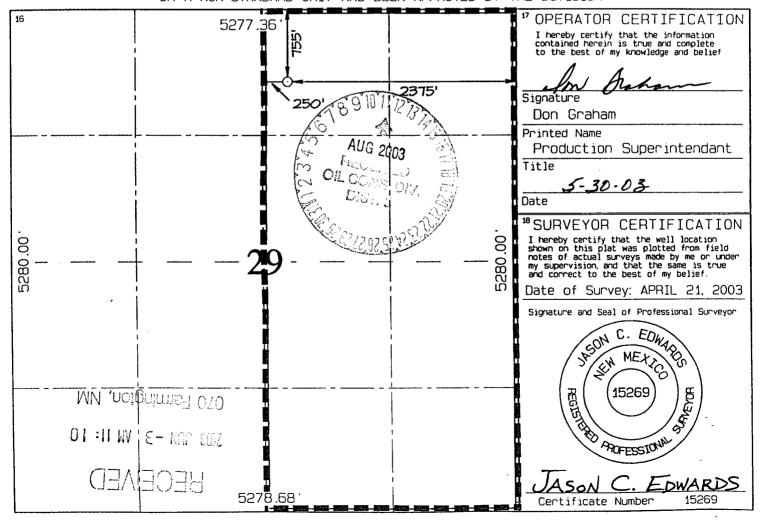
WELL LOCATION AND ACREAGE DEDICATION PLAT

1/4PI Number	² Pool Code 71629	'Pool Name BASIN FRUITLAND	CUVI
'Property Code 35 < 1.1	7 30	ty Name HORN	*Well Number
'0GRID No. 162928	•	or Name CES CORPORATION	*Elevation 6815

¹⁰ Surface Location

00, 1000 20000201									
U. or lot no.	Section 29	Township 32N	Range 5W	Lot Idn	Feet from the	North/South line NORTH	Feet from the 2375	East/West line EAST	County 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		0.0 Acre	s - (E	/2)	¹³ Joint or Infill	³⁴ 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



OPERATIONS PLAN

WELL NAME: Elk Horn #101

<u>LOCATION</u>: 755' FNL, 2375' FEL, Section 29, T32N, R5W, Rio Arriba County, NM FIELD: Basin Fruitland Coal <u>ELEVATION</u>: 6815' GL

FORMATION TOPS:

Surface San Jose
Nacimiento 1510
Ojo Alamo 2835
Kirtland 2945
Fruitland 3360

Total Depth 3625

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None Inter TD to total depth: None

Mud Logs:

Intermediate to total depth

Coring:

None

Natural Gauges:

Every 500' from intermediate TD to total depth

<u>MUD PROGRAM</u>: Fresh water low solids mud from surface to intermediate TD (9.0 PPG). Air/mist from intermediate casing point to total depth.

CASING PROGRAM:

HOLE SIZE	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12 ¼"	200'	9 5/8"	32.3#	H-40- ST&C
8 3/4"	3435'	7"	20#	J-55-ST&C
6 1/4"	3335'-3625'	5 ½"	15.5#	J-55 – LT&C

TUBING PROGRAM:

3550' 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. 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. 3 bow type centralizers spaced throughout the string.

7" intermediate casing – cement with 430 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ½# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ½# flocele/sk. (980 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. 10 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

5 ½" liner – NO CEMENT

OTHER INFORMATION:

- 1) The Basin Fruitland Coal will be completed.
- 2) No abnormal temperatures or pressures are anticipated.
- 3) If lost circulation is encountered sufficient LCM will be added to the mud system to maintain well control.
- 4) This gas is dedicated.
- 5) Anticipated pore pressure for the Fruitland is 700 psi.