Form 3160-3 (August 1999)

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

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APPLICATION FOR PERMIT TO D		5. Lease Serial No. NM 59704			
'la. Type of Work V DRILL R	REENTER			dian, Allotee or	Tribe Name
Ta. Type of Work	CEENIER	200 JUN 16 MM 11:		, 1 Me 100 01	THEOTYLINE
1b. Type of Well Oil Well Gas Well Other	Xs	Single Zone Multiple Zone	CT TT '4	or CA Agreem	ent Name and No.
2. Name of Operator		U/U rainington, N	8. Leas	se Name and W	ell No.
Energen Resources Corporation 3a. Address	······	3b. Phone No. (include area coo		rracas Cang Well No.	on Unit 36 AV5
2198 Bloomfield Highway Farmington, New Mex	rico 8740	(505) 325 - 6800	. 1	30 03	9 27454
4. Location of Well (Report location clearly and in accordance with	any State eq	uirements)*	10. Field	d and Pool, or E	·
At surface 1270' FNL, 980' FWL		FER T	Bas	sin Fruitla	and Coal
		All and all all all all all all all all all al	11. Sec.	., T., R., M., or	Blk. and Survey or Are
At proposed prod. zone			□ D Sec	c. 36, T32I	N, R5W, N.M.P.M
14. Distance in miles and direction from nearest town or post office*		The Royal Market	12. Cou	nty or Parish	13. State
18 miles North of Gober	rnador. N	lew Mexico	Rio A	Arriba	l _{NM}
15. Distance from proposed*		No. of Acres in lease	A 1 1 1 1	nit dedicated to	this well
location to nearest		December 1988		W.)_
property or lease line, ft. 980'		1760	11	ALC MIN	710
(Also to nearest drg. unit line, if any)			3	574L-1-1	200
18. Distance from proposed location*	19	.Proposed Depth	20.BLM/BIA	Bond No. on	file
to nearest well, drilling, completed, applied for, on this lease, ft.					
applied for, on this lease, it. 50'		3833'			
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22	22. Approximate date work will start* 23. Estimated dur			
6955' GL		August 2003			Dave
0933 dE		August 2003			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). 	ands, the	 Bond to cover the operation of the second of		·	- ,
		authorized officer.		Date	
25. Signuature	1	Name (Printed/Typed)			
for John	Don	Don Graham			5/30/03
Title				-	
Production Superintendent					
Approved by (Signautre)	Name	(Printed/Typed)		Date	
,		/s/ David J. Me	nkiewicz	- I	- 0 0 1
					10 2004
Title	Office			EFR	10 2004
Application approval does not warrant or certify that the applicant h conduct operations thereon. Conditions of approval, if any, are attached.					
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 a	it a crime for as to any mati	any person knowlingly and willfuler within its jurisdiction.	illy to make to	any department	or agency of the Unite
*(Instructions on Reverse)	DED ATIONS	AUTHORIZED ARE			
	PERATIONS A COMPLIAN REQUIREMEN			,	<i>4.</i> —

HOLD C104 FOR States Change to #5

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

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

District III 1000 Rip 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

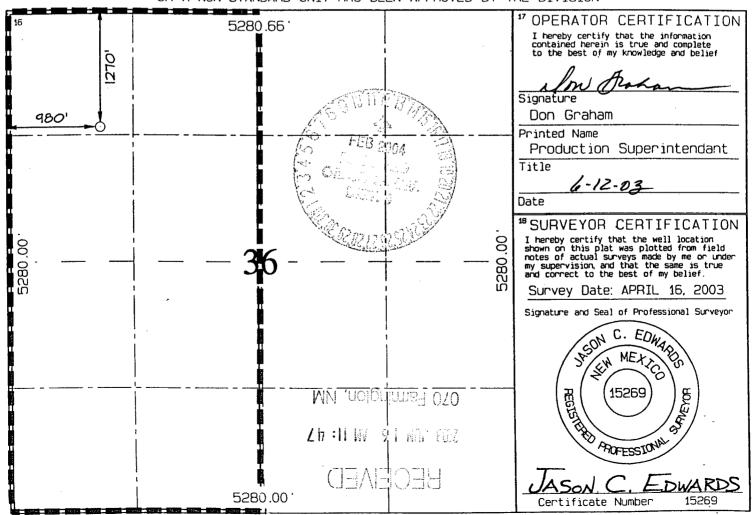
WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-2	7454 71629	Pool Name BASIN FRUITLAND C	COAL
Property Code 32971		Property Name AS CANYON UNIT	°Well Number 36A–5R
'0GRID No. 162928		Operator Name SOURCES CORPORATION	°Elevation 6955 '

¹⁰ Surface Location

UL or lot no.	Section 36	Township 32N	Range 5W	Lot Idn	Feet from the 1270	North/South line NORTH	Feet from the 980	East/West line WEST	RIO ARRIBA
		11 E	ottom	Hole L	ocation I	f Different	From Surf	ace	
UL or lot no.	Sect ion	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		,
	320	0.0 Acre	s – (W	/2)					

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

ELEVATION: 6955' GL

WELL NAME: Carracas Canyon Unit 36A #5R

LOCATION: 1270' FNL, 980' FWL, Section 36, T32N, R5W, Rio Arriba County, NM

FIELD: Basin Fruitland Coal

FORMATION TOPS:

Surface San Jose
Nacimiento 1998
Ojo Alamo 3118
Kirtland 3228
Fruitland 3498

Total Depth 3833

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	$\underline{\text{WT.}}$	<u>GRADE</u>
12 ¼"	200'	9 5/8"	32.3#	H-40-ST&C
8 3/4"	3666'	7"	23#	J-55 – LT&C
6 1/4"	3566'-3833'	5 ½"	15.5#	J-55 – LT&C

TUBING PROGRAM:

3750' 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 1/4" 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 420 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. (965 cu. ft. of slurry, 75% 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.