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	5. Lease Serial No. NMSF - 079011-A			
Type of Work X DRILL REENTER		6. If Indian, Allotee or Tribe Name		
1b. Type of Well Oil Well X Gas Well Oth	ner Single Zone Multiple Zon	7. Unit or CA Agreement Name and No. San Juan 32-5 Unit		
2. Name of Operator	070 70 1	8. Lease Name and Well No. 1085		
Energen Resources Corporation  3a Address	3b. Phone No. (include area co	San Juan 32-5 Unit 109		
2198 Bloomfield Highway Farmington, New M	exico 87401 (505)325-6800	30 -039 - 2690 6		
<ol> <li>Location of Well (Report location clearly and in accordance with At surface 700 ' ESI 1360 ' EFI</li> </ol>	ith any State equirements)* MAR 2	10. Field and Pool, or Exploratory Basin Fruitland Coal		
At surface 700' FSL, 1360' FEL  At proposed prod. zone		11. Sec. T., R., M., or Blk. and Survey or Are		
14. Distance in miles and direction from nearest town or post office*		12 County or Parish 13. State		
16 miles North of Gol	X 600	Rio Arriba NM		
15. Distance from proposed*	16.No. of Acres in lease	17 Spacing Unit dedicated to this well		
location to nearest property or lease line, ft. 700' (Also to nearest drg. unit line, if any)	240	320Ac E/2		
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. 220	2907			
21. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will sta	art* 23.Estimated duration		
6132' GL	August 2002	5 days		
	24. Attachments			
The following, completed in accordance with the requirements of O	nshore Oil and Gas Order No. 1, shall be attache	d to this form:		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office)</li> </ol>	Item 20 above).  5. Operator certification.  6. Such other site specific in	<ul><li>5. Operator certification.</li><li>6. Such other site specific information and/or plans as may be required by the</li></ul>		
	authorized officer.			
25. Signuature	Name (Printed/Typed)	Date		
- for Jahan	Don Graham	1/21/02		
Title				
Production Superintendent				
Approved by (Signanting) Approved J. Markiewicz	Name (Printed/Typed)	MAR 2 9 2004		
Title	Office .			
Application approval does not warrant or certify that the applican conduct operations thereon.  Conditions of approval, if any, are attached.	I at holds legal or equitable title to those rights in	the subject lease which would entitle the applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mas States any false, fictitious or fraudulent statements or representation	ake it a crime for any person knowlingly and will ns as to any matter within its jurisdiction.	fully to make to any department or agency of the Unite		
*(Instructions on Reverse)				

This action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3166.4

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

State of New Mexico District I PO Box 1980, Hobbs, NM 88241-1980 Form C-132 Revised February 21, 1994 Energy, Minerals & Natural Pasources Department Instructions on back Submit to Appropriate District Office District II PO Drawer DD, Artesia, NM 88211-0719 State Lease - 4 Copies OTL CONSERVATION DIVISION Fee Lease - 3 Copies PO Box 2088 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe. NM 87504-2088 AMENDED REPORT District IV PO Box 2088, Santa Fe, NM 87504-2088 2002 1/11/23 21/2: 34 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Name Pool Code 'API Number 7690h 71629 Basin Fruitland Coal Code Property Name \*Well Number SAN JUAN 32-5 UNIT 1085 OGRID No. \*Operator Name \*Elevation 162928 ENERGEN RESOURCES CORPORATION 6132 <sup>10</sup> Surface Location Feet from the Ul oc lot no Aange North/South line Section Township Lot Idn Feet from the East/West line County RIO Р 27 32N 6W 700 SOUTH 1360 EAST ARRIBA <sup>11</sup> Bottom Hole Different From Surface Location UL or lot no Month/South line Feet from the Section Township Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill 14 Corsolidation Code CCCEC NO. 320 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 OPERATOR CERTIFICATION 2681.58 2683.56 I hereby centify that the information contained herein is true and complete to the best of my knowledge and belief Con Granat Printed Name Production Superintendant MAR 2004 Title NAME OF THE 1-21-02 il considi Date 18 SURVEYOR CERTIFICATION 64 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 5348. V Survey Date: DECEMBER 5, 2001 Signature and Seal of Professional Surveyor JASON C. EDWARDS SEN MEXIC ACCIONAL PROFESSIONAL 1360'

2845.26

2663.10

**LDWARDS** 

15269

Centificate Number

# **OPERATIONS PLAN**

WELL NAME: San Juan 32-5 Unit #108 5

LOCATION: 700' FSL, 1360' FEL, Section 27, T32N, R6W, Rio Arriba County, NM

FIELD: Basin Fruitland Coal

# **FORMATION TOPS:**

Surface San Jose
Nacimiento 782
Ojo Alamo 2107
Kirtland 2222
Fruitland 2577

Total Depth

2907

## **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:**

<b>HOLE SIZE</b>	<b>DEPTH</b>	<b>CSG SIZE</b>	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	32.3#	J-55 – ST&C
8 3/4"	2747'	7"	20#	J-55 – ST&C
6 1/4"	2907'			

#### **TUBING PROGRAM:**

2800' 2 3/8"

4.7# J-55

ELEVATION: 6132' GL

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 260 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. (620 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 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

## **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.