FORM APPROVED Form 3160-3 OMB No. 1004-0136 (August 1999) Expires November 30, 2000 DEPARTMENT OF THE INTERIOR O FAITHINGTON, NIM 5. Lease Serial No. BUREAU OF LAND MANAGEMENT SF-077875 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. la. Type of Work: X DRILL REENTER 8. Lease Name and Well No b. Type of Well: Oil Well Y Gas Well X Single Zone Multiple Zone Rowley #155S 2. Name of Operator 9. API Well No. 3004 **ENERGEN RESOURCES CORPORATION** 3A. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory (505) 327-4892 **Basin Fruitland Coal** c/o Walsh Engineering,7415 E. Main, Farmington, NM 87402 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Blk, and Survey or Area 1785' FNL and 1490' FWL Sec. 17, T27N, R10W At proposed prod. Zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 9 miles south of Bloomfield, NM NM San Juan Distance from proposed' 16. No. of Acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1490' 320+ 320 acres (West half) Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 20. BLM/BIA Bond No. on file 850" 1865' +/-21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 5924' GL June 15, 2003 1 week Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, th Operator certification. SUPO shall be filed with the appropriate Forest Service Office. Such other site specific information and/or plans as may be required by the authorized office. 25. Signature Name (Printed/Typed) Date Paul C. Thompson, P.E. 5/8/03 Title Approved by (Signature) David J. Mankiewicz Title Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to 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 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.

*(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

PO Box 1980, Hobbs, NM 88241-1980

District 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

State of New Mexico Energy, Minerals & Natural Resources Departi

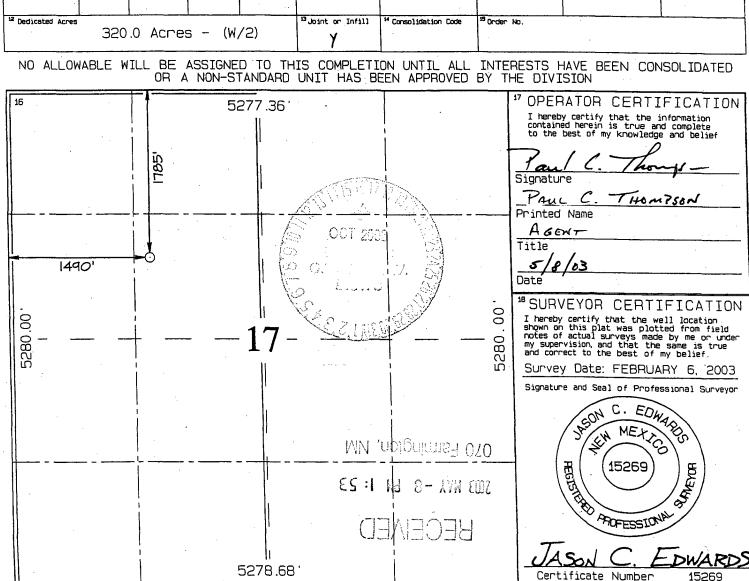
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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

'API Number				*Pool Code		. Pool Name						
30-045-31678				71629			BASIN FRUITLAND COAL					
'Property Code				*Property Name						*Well Number		
21377			ROWLEY							155S		
'OGRID N	*Operator Name								*Elevation			
¹ 16292	•	ENERGEN RESOURCES CORPORATION							5924			
¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/West line		County	
F	17	27N	10W		1785	5	NORTH	1490	WEST		SAN JUAN	
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/W	est line	County	
.!	ļ											
12 Dedicated Acres					¹³ Joint on In	ıfill	¹⁴ Consolidation Code	¹⁵ Order No.				
320.0 Acres - (W/2)				Υ								
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												



ENERGEN RESOURCES CORP. OPERATIONS PLAN Rowley #155S

I. Location: 1785' FNL & 1490' FWL

Date: May 8, 2003

Sec 17 T27N R10W San Juan County, NM

Field: Basin Fruitland Coal

Elev: GL 5924'

Surface: Bureau of Land Management

Minerals: Federal SF 077875

II. Geology: Surface formation _ Nacimiento

Α.	Formation Tops	Depths
	OjO Alamo	706′
	Kirtland	816′
	Fruitland	1461'
	Pictured Cliffs	1716'
	Total Depth	1865′

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 1461' and 1716'.

- B. Logging Program: Induction/GR and density logs at TD.
- C. No over pressured zones are expected in this well. No H₂S zones will be penetrated in this well. Max. BHP = 600 psig.

III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.5 ppg.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibit #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

Rowley #155S Operations Plan Pg #2

C. Cont.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
8-3/4"	120'	7 •	20# K-55
6-1/4"	1865 ′	4-1/2"	10.5# K-55

- B. Float Equipment:
- a) Surface Casing: None
- b) Production Casing: 4-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every other joint from the top of the well.

V. Cementing:

Surface casing: 7" - Use 50 sx (59 cu. ft.) of Cl "B" with $\frac{1}{4}$ #/sk celloflake and 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. **Lead** with 130 sx (268 cu.ft) of Cl "B" with 2% metasilicate and $\frac{1}{4}$ */sk celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). **Tail** with 100 sx (118 cu.ft.) of Cl "B" with $\frac{1}{4}$ */sk celloflake (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). Total cement volume is 386 cu.ft. (100% excess to circulate cement to surface).

Paul C. Thompson, P.E.