Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0137	COMS.	DI.
Expires March 31, 2007		

BUREAU	OF LAND	MANAGEMENT	

5. L	ease	Seria	al No.
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SUNDRY NOTICES AND REPOR Do not use this form for proposals to a	drill or to re-enter an 6. If Indian, Allottee or Tribe Name
SUBMIT IN TRIPLICATE - Other instruct	1 (m. 1/2)
Type of Well Oil Well X Gas Well Other	210 FAR; Well Name and No. San Juan 30-4 Unit #33C
2. Name of Operator Energen Resources Corporation 3a. Address	9. API Well No. 3b. Phone No. (include area code)
2198 Bloomfield Hwy, Farmington, NM 87401 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)	30-039-27836 30-039-27836 10. Field and Pool, or Exploratory Area Blanco Mesa Verde/ Gallup
660' fsl, 1800' fwl 3' - 30 N - 4 W	11. County or Parish, State Rio Arriba NM
12. CHECK APPROPRIATE BOX(ES) TO TYPE OF SUBMISSION	TYPE OF ACTION
X Notice of Intent Subsequent Report Final Abandonment Notice Acidize Alter Casir Casing Rep X Change Pla Convert to	air New Construction Recomplete Other Description Temporarily Abandon Description Temporarily Abandon
If the proposal is to deepen directionally or recomplete horizontally, Attach the Bond under which the work will be performed or provide following completion of the involved operations. If the operation retesting has been completed. Final Abandonment Notices shall be find determined that the final site is ready for final inspection.)	It details, including estimated starting date of any proposed work and approximate duration thereofolic give subsurface locations and measured and true vertical depths of all pertinent markers and zones. The Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days sults in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once led only after all requirements, including reclamation, have been completed, and the operator has PD approved total depth (TD) from 7302' and deepen to 8607'.

- NSL -

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Ti	tle		
Nathan Sprith	Drilling Engineer		
1/shall D	ate 1/8/07	,	
THIS SPACE FOR FEDERAL	OR STATE OFFICE USE	1	
Approved by Original Signed: Stephen Mason	Title	Date	JAN 1-7 2007
Conditions of approval, if any, are attached. Approval of this notice 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.	Office		

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

Operations Plan

Revised January 8, 2007

San Juan 30-4 Unit #33C

General Information

Location

660' fsl, 1800' fwl

sesw S31, T30N, R04W

Rio Arriba County, New Mexico

Elevations Total Depth 7302' GL 8607' (MD)

Formation Objective

Blanco Mesa Verde/Gallup

Formation Tops

San Jose	Surface	Lewis Shale	4682'
Nacimiento	2492'	Int Csg Point	4882'
Ojo Alamo Ss	3767'	Huerfanito Bentonite	5342'
Kirtland Sh	3982'	Cliff House	6207'
Fruitland Fm	4162'	Menefee	6517'
Top Coal	4247'	Point Lookout Ss.	6752'
Bottom Coal	4377'	Mancos Shale	7237'
Pictured Cliffs	4377'	Gallup Ss	7817'
		Total Depth	8607

Drilling

The 12 1/4" wellbore will be drilled with a fresh water mud system.

The 8 ¾" wellbore will be drilled with a low solids non-dispersed fresh water mud system. Weighting materials will be drill cuttings and/or Barite as needed. Mud density is expected to range from 8.3 ppg to 8.9 ppg. Air/mist from intermediate setting depth to TD with a hole size being 6 ¼". Blowout Control Specifications:

A 2000 psi minimum double ram or annulus 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 also be used. An upper Kelly Cock valve handle and drill string valve should be available to fit each drill string and be available on the rig floor during drilling operations.

Logging Program:

Open hole logs: From Surface to Intermediate setting depth - None

From Intermediate setting depth to TD – Temp / HRI / CNT, LDT / GR

Mud Logs: None Coring: None

Surveys: Surface and/or every 500' to TD

Tubulars

Casing, Tubing, & Casing Equipment:

String	Interval	Wellbore	Casing	Csg Wt	Grade
Surface	0'-200'	12 ¼"	9 5/8"	32.3 ppf	H-40 ST&C
Intermediate	200'-4882'	8 ¾"	7"	23.0 ppf	J-55 LT&C
Production	4732'-8607'	6 ¼"	4 ½"	11.6 ppf	J-55 LT&C
Tubing	0'-8560'		2 3/8"	4.7 ppf	J-55

Casing Equipment:

Surface Casing: Depending on wellbore conditions, a Texas Pattern Guide Shoe on bottom. Casing centralization with standard bow spring centralizers to achieve optimal standoff.

Intermediate Casing: Depending on wellbore conditions, a cement nose guide shoe on bottom with self fill insert float collar on top of shoe joint and casing centralization with bow spring centralizers to optimize standoff. Two turbolating centralizers at the base of the Ojo Alamo are recommended. Stage tool to be set at 4100'

Production Liner: Depending on wellbore conditions, a cement nose guide shoe on bottom with self fill insert float collar on top of shoe joint and casing centralization with standard bow spring centralizers to optimize standoff. If multistage cementing is required, DV tool will be placed based on formation characteristics.

Wellhead

11" 3000 x 9 5/8" Casing Head, 11" 3000 x 7 1/16" 3000 Christmas Tree.

Cementing

Surface Casing: 110 sks Type V with 2.0 % CaCl₂ and ¼ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 247 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Intermediate Casing: Before cementing, circulate hole at least 1 ½ hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout. Depending on wellbore conditions, cement may consist of:

First Stage - 175 sks 50/50 Poz with 2.0 % CaCl₂, 10 #/sk Gilsonite, and ½ #/sk Flocele (13.5 ppg, 1.30 ft³/sk). (228 ft³ of slurry, 90% excess to circulate off stage tool).

Second Stage – 540 sks 65/35 cement with 6.0 % Bentonite, 2.0 % CaCl₂, 10.0 #/sk Gilsonite, and ½ #/sk Flocele (12.3ppg, 1.93 ft³/sk) and tail in with 50 sks Type V "Neat" cement (15.2 ppg, 1.18 ft³/sk). (1101 ft³ of slurry, 100 % excess to circulate to surface). WOC 12 hours. Pressure test casing to 1200 psi for 30 min.

<u>Production Liner</u>: Depending on wellbore conditions, cement may consist of 395 sks 50/50 with 2.0 % Bentonite, 0.40% Halad-9, 0.10% CFR-3, 5 #/sk Gilsonite, and ¼ #/sk Flocele (13.5 ppg, 1.30 ft³/sk). (513 ft³ of slurry, 90 % excess open hole, no excess in liner lap to circulate off liner top). Use calipers on logs to figure cement volumes.

Other Information

- 1) This well will be cased and the Blanco Mesa Verde/Gallup fracture stimulated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The production string may need to be cemented in multiple stages with a slurry design deviated from that listed above.
- 3) Mesa Verde pore pressure is anticipated to be 1100 psi, the Pictured Cliffs is 900 psi and the Fruitland is 800 psi.
- 4) No abnormal temperatures or pressures are anticipated.
- 5) This gas is dedicated.