Form 3160-3 (August 1999)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

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APPLICATION FOR PERMIT TO DR	ILL C	OR REENTER LUEIVE		5. Lease Serial No. SF - 079011		
la. Type of Work X DRILL REI	O 10 1	If Indian, Allotee	e or Tribe Name			
1b. Type of Well Oil Well 🔲 Other	X	Single Zone Multiple Zon	e 7	_	eement Name and No.	
2. Name of Operator		070 Farmingtor	7, NV	San Juan 3		
Energen Resources Corporation		*we*	.   8	Lease Name and	- 3	
3a. Address		3b. Phone No. (include area co	de)	API Well No.	2-5 Unit 100S 🗸	
2198 Bloomfield Highway Farmington, New Mexic	co 87	401 (505)325-6800	1	70-03	39-27270	
4. Location of Well (Report location clearly and in accordance with an	ıy State	equirements)*	10	). Field and Pool, o	or Exploratory	
At surface 2385 FNL, 2460 FWL - SENW	1	Basin Fruitland Coal 11, Sec., T., R., M., or Blk. and Survey or Area				
At proposed prod. zone			32N, R06W, N.M.P.N			
14. Distance in miles and direction from nearest town or post office*			12	12. County or Parish 13. State		
16 miles northeast o	of Go			Rio Arriba NM		
15. Distance from proposed*		16. No. of Acres in lease	17.Spac	pacing Unit dedicated to this well		
location to nearest property or lease line, ft. 2385		1400			320 W/2	
(Also to nearest drg. unit line, if any)		1480	320 /٧/ 2			
18. Distance from proposed location*		19. Proposed Depth	20.BLN	20.BLM/BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft.						
Tappined for, on this lease, it. 100'		3148'				
21. Elevations (Show whether DF, KDB, RT, GL, etc.		22. Approximate date work will start* 23.		23. Estimated	23. Estimated duration	
6388 GL	05/01/03			10 days		
This action is subject to technical and				DRILLING OPERATIONS AUTHORIZED ARE		
and appeal pursuant to 43 CFR 3165.4 24. Attachments SU				BJECT TO COMPLIANCE WITH ATTACHED		
The following, completed in accordance with the requirements of Onshor	re Oil a	nd Gas Order No. 1, shall be attached	to this f	orm:		
Well plat certified by a registered surveyor.		4. Bond to cover the operat	ions unles	s covered by an e	xisting bond on file (see	
2. A Drilling Plan		Item 20 above).				
3. A Surface Use Plan (if the location is on National Forest System Lar	nds, the					
SUPO shall be filed with the appropriate Forest Service Office).	6. Such other site specific in authorized officer.	te specific information and/or plans as may be required by the				
25. Signuature \	- 1	Name (Printed/Typed)			te	
1 Jour Homes	D	oug Thomas		12/20/02		
Title					•	
Drilling & Completion Foreman						
Approved by (Signautre David J. Mankiewicz	N	ame (Printed/Typed)		Da	ate MAV o	
TO DESCRIBE MA DALLES					MAY - 9 2003	
Title	0	ffice		•		
Application approval does not warrant or certify that the applicant hole	ds lega	l or equitable title to those rights in	the subje	ct lease which wo	ould 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 States any false, fictitious or fraudulent statements or representations as			ully to ma	ke to any departm	nent or agency of the United	
*(Instructions on Reverse)				2714157	577	
			·	WAY 2003	* 11 B 70	
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			18	Mic		

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

District II PO Drawer DD. Antesia. NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District\_IV PO Box 2088, Santa Fe, NM 87504-2088

API Number

320.0 Acres - (W/2)

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

Pool Name

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

30-03	34-6	121	0	71629	)	Basin Fruitland Coal					
Property 2199		*Property Name SAN JUAN 32-5 UNIT						• 1	Vell Number 1005		
'0GRID 16292			{	ENERGE	•	*Elevation 6388 '					
<sup>10</sup> Surface Location											
u, or lot no.	Section 23	32N	Alange 6W	Lot Ion	Feet from the 2385	NORTH	Feet from the 2460	WEST	RIO ARRIBA		
<sup>11</sup> Bottom Hole Location If Different From Surface											
ut or lot no.	Sect ion	Townshap	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	Canty		

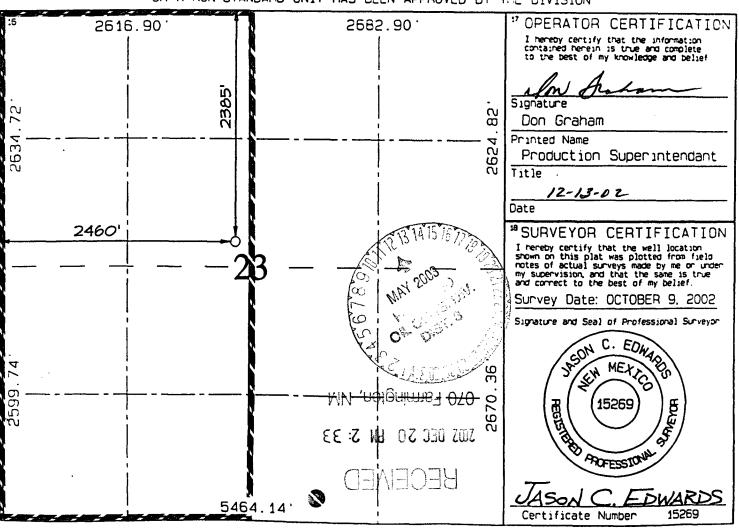
Pool Code

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

Coreclidation Code

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Joint or Infill



## **OPERATIONS PLAN**

ELEVATION: 6388' GL

WELL NAME: San Juan 32-5 #100S

LOCATION: 2385' FNL, 2460' FWL, Section 23, T32N, R6W, Rio Arriba County, NM

FIELD: Basin Fruitland Coal

# **FORMATION TOPS:**

San JoseSurfaceNacimiento1068Ojo Alamo2293Kirtland2408Fruitland2883

Total Depth

3148'

# **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>	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	32.3#	1-40 <u>1-55-</u> ST&C
8 3/4"	2948'	7"	20#	J-55 – ST&C
6 1/4"	2848-'3148	5 ½"	15.5#	J-55 – LT&C

#### **TUBING PROGRAM:**

3000' 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 345 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ¼# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ¼# flocele/sk. (665 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.

5 1/2" 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.