Form 3160-5 (April 2004)

# **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

-			
5.	Lease	Seria	No.

12021	30586
NININI	31 1つべり

Do not use this form for abandoned well. Use For	proposals to drill or to m 3160-3 (APD) for su ເພື່ອງ	o re-enter an ch proposals. JUN 22	8 50	6. If Indian, Alle	ottee or Tribe Name
SUBMIT IN TRIPLICATE -	Other instructions on	reverse side RECEIVED		7. If Unit or CA	/Agreement, Name and/or No
1. Type of Well Oil Well X Gas Well Other 2. Name of Operator	07	O FARMINGTO	N IIM	8. Well Name at Carracas 24	
Energen Resources Corporation		- KOROGO			<u> </u>
3a. Address	3b.	Phone No. (include at	ea code)	9. API Well No 30-039-275	
2198 Bloomfield Highway, Farmington	i	505: 325: 6800	260		ool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey	Description)	Ris	(15°) a)	Basin Fruit	land Coal
2630' FSL, 980' FWL, Sec. 24, T NW/SW	32N, RO5W, N.M.P.M			11. County or	•
				Rio Arriba	
12. CHECK APPROPRIATE	BOX(ES) TO INDICA	ATE NATURE OF	NOTICE, REP	ORT, OR OTH	ER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION		
X Notice of Intent	Acidize	Deepen	Production	(Start/Resume)	Water Shut-Off
KT =	Alter Casing	Fracture Treat	Reclamatio	` .	Well Integrity
Subsequent Report	Casing Repair	New Construction	Recomplet	1	Other
	Change Plans	Plug and Abandon		υ ly Abandon	
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disp	•	_
determined that the final site is ready for final insperiment of the second of the cement with 580 sks of lead follow.  * Change the 5-1/2" production 1: (TVD), 5815' (MD).	the following chang lan to a horizontal e 7" intermediate s lowed by 125 sks of	drill plan as tring from 3946 tail (1292 cu. 6#, J-55 LT&C p	indicated or (TVD) to 39 ft.)	n the attach	4300' (MD) and
14. I hereby certify that the foregoing is true and correct Name (Printed Typed)  Vicki Donaghey		Title Regula	atory Analys	t	
Wiki Donagky		Date 06/03/0	5		
, () () () () () ()	S SPACE FOR FEDER	AL OR STATE OF	FICE USE		
Approved by drien brunly Conditions of approval, if any, are attached. Approval	of this notice does not warra	Title Pet E	ing	Da	te 4/23/05
certify that the applicant holds legal or equitable title to which would entitle the applicant to conduct operations	those rights in the subject	lease FF	2		

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

# State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT III

OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, N.M. 87410
DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87605

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2040 South Pacheco Santa Fe. NM 87505 2005 JUN 22

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	*Pool Code 71629	070 FARMINASIN FRUITLAND COAL		
*Property Code	Property Name		• Well Number	
	CARRAC	24A-12		
OGRID No.	* O	* Elevation		
162928	ENERGEN RES	OURCES CORPORATION	7371'	

<sup>10</sup> Surface Location

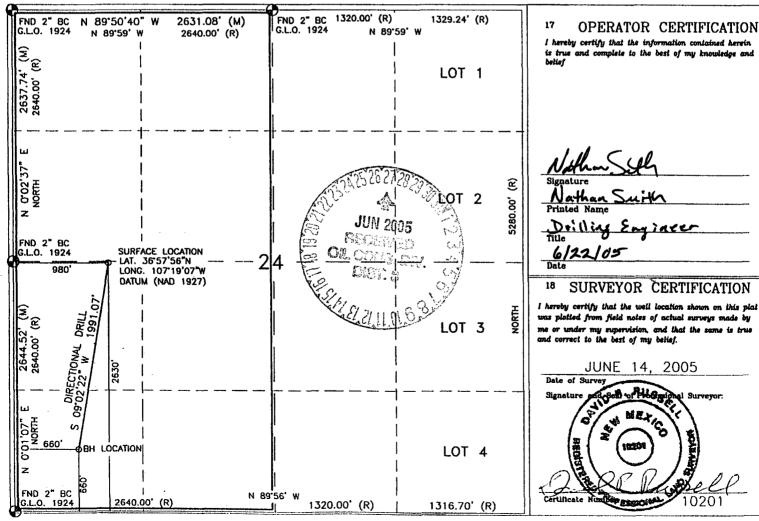
L L	24	32N	5W	rot ian	2630'	SOUTH	380,	WEST III.6	RIO ARRIBA	1
11 Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	

 M
 24
 32N
 5W
 660'
 SOUTH
 660'
 WEST
 RIO ARRIBA

 \*\* Dedicated Acres
 \*\* Joint or Intill
 \*\* Consolidation Code
 \*\* Order No.

 320.00 Acres - (W/2)
 \*\* Order No.

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** Revised June 2, 2005

#### Carracas 24A #12

#### **General Information**

2630' fsl. 980' fwl Location

nwsw S24, T32N, R5W

Rio Arriba County, New Mexico

**Elevations** 7371' GL

5815' (MD), 3995' (TVD) **Total Depth Basin Fruitland Coal Formation Objective** 

# **Formation Tops**

San Jose Surface Nacimiento 2036' (TVD) Ojo Alamo Ss 3351' (TVD) Kirtland Sh 3471' (TVD) 3876' (TVD), 3905' (MD) Fruitland Fm Top Coal 3986' (TVD), 4149' (MD) **Bottom Coal** 4001' (TVD), 4225' (MD) 3995' (TVD), 5815' (MD) **Total Depth** 

Pictured Cliffs Ss 4046' (TVD)

### Drilling

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

The 8 3/4" wellbore will be drilled with a low solids fresh water/polymer mud system. Weighting materials will be drill cuttings and if needed barite. Mud density is expected to range from 8.9 ppg to 9.5 ppg. Kick off point is 3585' TVD.

The 6 1/4" wellbore will be drilled with a fresh water or brine water system depending on reservoir characteristics.

**Blowout Control Specifications:** 

A 2000 psi minimum double ram or annulus BOP stack 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: MWD gamma ray Mud logs: From kick off point to TD

Natural Gauges: Surface and/or as needed for directional drilling

#### **Tubulars**

### Casing, Tubing, & Casing Equipment:

String	Interval	Wellbore	Casing	Csg Wt	Grade
Surface	0'-200'	12 1⁄4"	9 5/8"	32.3 ppf	H-40 ST&C
Intermediate	0'-3995' (TVD) 4300' (MD)	8 ¾"	7"	23.0 ppf	J-55 LT&C
Production	3995'-3995' (TVI 4240'-5815' (MD	,	4 ½"	11.6 ppf	J-55 LT&C
Tubing	0'-4220'	•	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 with self fill insert float collar on top of bottom joint and casing centralization with standard bow spring and rigid centralizers to optimize standoff. Two turbolating centralizers at the base of the Ojo Alamo are recommended.

Liner: Cement nose guide shoe on bottom of first joint. No centralizers.

#### Wellhead

3000 psi 11" x 9 5/8" casing head. 9 5/8" x 7"x 2 3/8" 3000 psi Flanged Wellhead.

# Cementing

Surface Casing: 110 sks Std (class B) with 2.0 % CaCl<sub>2</sub> and ¼ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 130 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 1000 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 580 sks 65/35 Std (class B) with 6.0 % Bentonite, 2.0 % CaCl<sub>2</sub>, 10 #/sk Gilsonite, and ½ #/sk Flocele (12.3 ppg, 1.96 ft³/sk) and a tail of 125 sks Sts (class B) with ¼ #/sk Flocele (15.6 ppg, 4.18 ft³/sk). (1292 ft³ of slurry, 100 % excess to circulate to surface). Test casing to 1200 psi for 30 min.

#### Other Information

- 1) This well will be an open hole completion.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The intermediate string may need to be cemented in multiple stages with a slurry design deviated from that listed above.
- 3) If high reservoir pressures or water flows are encountered slurry design may need to be deviated to from those listed above to satisfy wellbore and formation conditions.
- 4) No abnormal temperatures or pressures are anticipated. This gas is dedicated.

