

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

## SUNDRY NOTICES AND REPORTS ON WELLS

MAY 21 2014

Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

Farmington Field Office

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NM 29339
2. Name of Operator Energen Resources Corporation		6. If Indian, Allottee or Tribe Name
3a. Address 2010 Afton Place, Farmington, NM 87401	3b. Phone No. (include area code) (505) 325-6800	7. If Unit or CA/Agreement, Name and/or No. Carracas Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1650' FNL, 1850' FEL (G) Sec.15 T32N, R4W		8. Well Name and No. Carracas Unit ER 104
		9. API Well No. 30-039-24479
		10. Field and Pool, or Exploratory Area Basin Fruitland Coal/ Carracas Pictured Cliffs
		11. County or Parish, State Rio Arriba NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Plug Fruitland Coal, Pay-add P Pictured Cliffs
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Energen Resources plans to plug the Fruitland Coal perforations and pay add the Pictured Cliffs. See attached for procedure.

This will be a closed loop operation.

Notify NMOCD 24 hrs  
prior to beginning  
operations

OIL CONS. DIV DIST. 3

MAY 27 2014

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Justin Anchors	Title District Engineer
Signature <i>Justin Anchors</i>	Date 5/21/2014

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Original Signed: Stephen Mason	Title Office	Date MAY 22 2014
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.		

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.

NMOCD PV

5

**District I**  
1625 N. French Dr., Hobbs, NM 88240

**District II**  
1301 W. Grand Avenue, Artesia, NM 88210

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

**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

OIL CONS. DIV DIST. 3  
MAY 30 2014

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-039-24479		<sup>2</sup> Pool Code 96154	<sup>3</sup> Pool Name Carracas Pictured Cliffs
<sup>4</sup> Property Code 32932	<sup>5</sup> Property Name Carracas Unit FR		<sup>6</sup> Well Number 104
<sup>7</sup> OGRID No. 162928	<sup>8</sup> Operator Name Energen Resources Corporation		<sup>9</sup> Elevation 6543'

<sup>10</sup> Surface Location

UL or lot no. G	Section 15	Township 32N	Range 4W	Lot Idn	Feet from the 1650	North/South line North	Feet from the 1850	East/West line East	County Rio Arriba
--------------------	---------------	-----------------	-------------	---------	-----------------------	---------------------------	-----------------------	------------------------	----------------------

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. Same	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres 160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

				<p><sup>17</sup> <b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>Justin R. Anchors</i>      5/29/2014 Signature      Date</p> <p>Justin Anchors Printed Name</p>
				<p><sup>18</sup> <b>SURVEYOR CERTIFICATION</b></p> <p><i>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.</i></p> <p>_____ Date of Survey</p> <p>_____ Signature and Seal of Professional Surveyor:</p> <p>_____ Certificate Number</p>

**Energen Resources Corp.**  
**Carracas Unit FR #104**  
**API# 30-039-24479**  
**DP#3124479A**  
**AFE# SJ14-123**

Recommended Plugging Procedure:

1. MIRU WSU. POOH w/ rods. ND WH. NU BOP. PU extra TBG and tag PBTD. TOOH and lay down TBG while scanning.
2. PU scraper and TIH w/ 2-3/8" N-80 workstring to PBTD. POOH.
3. PU 5-1/2" cement retainer and TIH to 3350' (NOTE: Fruitland perfs from 3356'-3400'). Establish injection rate.
4. Pump squeeze according to Halliburton procedure.
5. Sting out of cement retainer, pull up hole and WOC.
6. PU bit, drill collars, and drill out cement retainer and cement. Roll hole with clean fluid.
7. Pressure test CSG to 550 psi while charting for 30 minutes. Contact office if test fails.

**Energen Resources Corp.**  
**Pay Add Schedule – Carracas Unit FR #104**  
**API# 30-039-24479**  
**DP#3124479B**  
**AFE# SJ14-124**

Recommended Completion Procedure:

1. MIRU wireline. Load hole and pressure up to 500 psi. Run CBL from PBTD to surface. NOTE: If there is insufficient cement coverage, notify engineer to design plan for a cement squeeze.
2. TIH w/ 3-1/2" frac liner to cover Fruitland perms from 3356'-3400'. Set frac liner over perms. TOOH.
3. NU 5k frac valve and fracmaster compaction isolation tool. Pressure test frac valve, isolation tool, casing, frac liner and CBP to 3800psi. RDMO.
4. MIRU Wireline. Perforate PC from 3432'-3460 at 3 SPF w/ 120° phasing.  
RDMO Wireline.
5. MIRU Halliburton. Fracture the PC per Halliburton procedure. Note: The Max treating pressure will be 80% yield press. This will use 20/40 as proppant. RDMO Halliburton.
6. Flowback well sufficiently. Once flowback is done, MIRU.
7. TIH w/ tubing and retrieve the frac liner. TOOH w/ tubing and frac liner.
8. Cleanout to PBTD w/ air mist.
9. TOOH. TIH w/ Prod. Tubing and land tubing.
10. ND BOP. NU WH. RDMO WSU. Turn the well over to production.

# ENERGEN RESOURCES

## Pertinent Data Sheet

**Date:** 3/14/2014      **Well Name:** Carracas Unit FR#104      **API#:** 30-039-24479      **DP#:** 3124479A  
**Unit:** G      **Sec:** 15      **Twp:** 32N      **Rge:** 4W      **Footage:** 1650' FNL 1850' FEL  
**County:** Rio Arriba      **State:** NM      **Spud:** 8/13/89      **Completed:** 9/19/89  
**Field:** Basin Fruitland Coal      **Elev:** 6543'      **TD:** 3570' KB      **PBTD:** 3508' KB      **KB:** 12' GL

**Perfs:** (initial perf.) 8/31/89 3397'-3400' and 3357'-3368' (KB) 0.5' EHD w/6 spf 84 holes  
 (7/2000) reperf - 3,356'-3,368' and 3,396'-3,400' w/4SPF 0.42" EHD 64 holes total

**NOTE:** Top of fill @ 3486'.

**Frac:** (intial 9-18-89) 500 gallons 15%HCL 1769 bbl 35# GWX-9 fluid w/ 48,000#40/70 and 165,000#20/40  
 (5/16/97) 1000 gal. 15%HCL, slick water frac (FRW-30) 3,015 bbls w/ 69,300# 12/20(7/2000) REFRAC w/  
 sandwedge 500 gallons formic acid 70,441 gallons Delta 140 133,000# 20/40

\*TBG Details:TIH w/ 1EA - PINNED NOTCHED COLLAR, 1EA - MUD ANCHOR, 1EA - 6' PERFORATED  
 TUBING SUB, 1EA - SEATING NIPPLE ((NEW)), 105EA - 2-3/8" TUBING. TIH w/ 1EA - 8' TUBING SUB,  
 & 1EA - 2-3/8" TUBING ((106EA - TOTAL TUBING USED)).

Hole Size	Casing Size	Weight & Grade	Depth Set	Cement	TOC
12-1/4"	9-5/8"	36#	324' KB	142cuft	circ
8-3/4"	5-1/2"	15.5#K-55 LT&C	3,570' KB	259 cuft	circ

Tubing Size	# Joints	Weight & Grade	Depth Set	Seat Nipple	Packer
2-3/8"	*See Above	4.7#EUE J-55	3418'	3379'	

**Rod & Pump Record:**TIH w. 1EA - 2" X 1-1/2" X 16' RWAC PUMP w/ 1' STRAINER, 2EA - 1-1/4"  
 SINKER BARS, 131EA - 3/4" PLAIN RODS, 2EA - 8'; 1EA - 6' PONY ROD SUBS, & 1EA - POLISH ROD  
 w/ LINER.

Rod Size	# Rods	Length	Grade
3/4"	131	3275'	D

**Log Record:** Spectral Density, Dual induction, Microlog, GR-CCL

### Formation Tops:

Ojo Alamo	2,733'	Menefee
Kirtland	2,872'	Point Lookout
Fruitland	3,175'	Mancos
Pictured Cliffs		Gallup
Lewis		Graneros
Cliffhouse		Dakota

**Work History:** (6/29 to 7/3/2012) PULL PLUG FOR DRILLING. RIGGED DOWN BASIC ENERGY  
 SERVICES - RIG #1652 OFF OF THE CARRACAS 14 B # 2H & STANB BY. WILL MOVE ONTO  
 LOCATION & BEGIN REPAIR MONDAY MORNING. MOVED BASE BEAM & EQUIPMENT OVER  
 TO THE CARRACAS UNIT FR #104 EARLY MORNING FROM THE CARRACAS 14 B #2H.  
 MOVED RIG OVER & RIGGED UP EARLY MORNING. MOVED & SPOTTED TUBING TRAILERS  
 & ROD TRAILER. SIWHP = 0PSI. NIPPLE DOWN THE WELL HEAD. NIPPLE UP THE BOP.  
 HALLIBURTON TOOL SERVICES ON LOCATION MID MORNING. UNSET & LAY DOWN THE  
 TUBING DONUT. TOOH w/ 2EA - 2-3/8" TUBING, & 1EA - STORM PACKER STINGER TO