

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 30 2010

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.
Bureau of Land Management
Farmington Field Office

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

3a. Address

2010 Afton Place, Farmington, NM 87401

3b. Phone No. (include area code)

(505) 325-6800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: Sec.8, T30N, R04W 1785' FNL & 1240' FEL

BHL: Sec.7, T30N, R04W 1700' FNL & 760' FWL

5. Lease Serial No.

NMSF-079483

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Need Com. Agreement

8. Well Name and No.

Carson # 403

9. API Well No.

30-039-30675

10. Field and Pool, or Exploratory Area

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

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☒ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

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 would like to make the following changes to the Carson #403. The changes will be as follows:

- * Change int. casing setting depth to 2000' MD, change grade to H-40 and cement with 1062sx
- * Change 2nd int. to long string from 0' - 5660' MD

Attached is a revised operations plan.

RCVD APR 6 '10

OIL CONS. DIV.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

DIST. 3

Hold C104

for Directional Survey
and "As Drilled" plat

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Devin Mills

Title Drilling Engineer

Signature

Date 3/30/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

AFM

Date

4/5/2010

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

PFO

3/30/2010



OPERATIONS PLAN

WELL NAME.....Carson #403
JOB TYPE.....Horizontal PC Lower Sand
DEPT.....Drilling and Completions

GENERAL INFORMATION

Surface Location	1785 FNL 1240' FEL
S-T-R	(E) Sec.8, T30N, R04W
Bottom Hole Location	1700 FNL 760 FWL
S-T-R	(L) Sec.7, T30N, R04W
County, State	Rio Arriba, New Mexico
Elevations	7264' GL
Total Depth	11214' +/- (MD); 4316' (TVD)
Formation Objective	Pictured Cliffs

FORMATION TOPS

San Jose	Surface
Nacimiento	2300' (TVD)
Ojo Alamo Ss	3407' (TVD)
Kirtland Sh	3600' (TVD)
Fruitland Fm	3665' (TVD)
Top Coal	3980' (TVD) 4280' MD
Upper PC	4042' (TVD) 4403' MD
Lower PC	4246' (TVD) 5026' MD
Total Depth	4316' (TVD), 11214' (MD)

DRILLING

Conductor: 17 1/2" wellbore will be drilled with a freshwater mud system (spud mud)

Surface: 12 1/4" wellbore will be drilled with a fresh water mud system (spud mud).

Intermediate: 8 3/4" wellbore will be drilled with a LSND mud system. Weighting materials will be drill cuttings and if needed barite. Mud density is expected to range from 8.4 ppg to 9.0 ppg.

Production: 6 1/4" wellbore will be drilled with a fresh water or brine water system depending on reservoir characteristics. Anticipated BHP can be as high as 800 psi. ✓

Projected KOP is 2400' TVD with 3.06°/100' doglegs.

Blowout Control Specifications:

A 3000 psi minimum double ram or annulus BOP stack will be used following nipple up of casing head. 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. **Pressure test BOP to 250 psi for 15 min and 2000 psi for 15 min.**

Logging Program:

Open hole logs: none.

Mudlogs: 3600' TVD, 4000' MD to TD

Surveys: Surface to KOP every 500' and a minimum of every 200' for directional.

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CASING, TUBING & CASING EQUIPMENT

String	Start Depth	End Depth	Wellbore	Size	Wt	Grade
Conductor	0	200	17 1/2"	13-3/8"	48 lb/ft	H-40 ST&C
Surface	0	2000	12 1/4"	9-5/8"	36 lb/ft	H-40 ST&C
Intermediate	0	5660	8 3/4"	7"	23 lb/ft	J-55 LT&C
TVD	0	4276				
Prod. Liner	5460	11214	6 1/4"	4 1/2"	11.6 lb/ft	L-80 LT&C
TVD	4274	4316				
Tubing	0	5000	none	2-3/8"	4.7 lb/ft	J-55

Conductor Casing: Texas Pattern Guide Shoe on bottom of first joint and an insert float valve on top of first joint. Casing centralization with a minimum of 3 standard bow spring centralizers to achieve optimal standoff.

Surface Casing: Texas Pattern Guide Shoe on bottom of first joint and an insert float valve on top of first joint. Casing centralization with a minimum of 3 standard bow spring centralizers to achieve optimal standoff.

Intermediate Casing: Self fill float shoe with self fill float collar on bottom and top of first joint. Casing centralization with double bow spring and centralizers to optimize standoff.

Production Liner: Bull nose guide shoe on bottom of first joint, H-Latch liner drop off tool on top of last joint.

WELLHEAD

11" 3000 x 13 3/8" weld/slip on casing head. 11" x 9 5/8" x 4 1/2" 3000 psi Flanged Wellhead.

CEMENTING

Conductor Casing: 135 sks Type G with 2.0 % CaCl₂ and 1/4 #/sk Flocele (15.6 ppg, 1.18 ft³/sk 158 ft³ of slurry, 20% excess to circulate to surface). WOC 12 hours. Pressure test conductor casing to 750 psi for 30 min. Test to 250 psi for 15 min and 1200 for 15 min.

Surface Casing: 1062 sks Type V with 2.0 % CaCl₂ and 1/4 #/sk Flocele (15.6 ppg, 1.18 ft³/sk 500 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 750 psi for 30 min.

Intermediate Casing: Circulate hole at least 1-1/2 hole volumes of mud and reduce funnel viscosity to aid in hole cleanout. Stage 1 to begin at 4300'-5638'.

First Stage: Lead with 135 sks 50/50 with 2.0% Bentonite, 0.30 % Halad - 344, 0.10 % CFR - 3, 5 #/sk Gilsonite, 1/4 #/sk Flocele. (13.0 ppg, 1.35 ft³/sk, 182 ft³) and a tail of 150 sks Class G with 1.0 % CaCl₂ and 1/4 #/sk Flocele. (15.6 ppg, 1.18 ft³/sk, 177 ft³) (360 ft³ of slurry, 50% excess to circulate off the stage tool). Circulated 4-5 hours between stages at time plug down on first stage.

Second Stage: Lead with 445 sks 65/35 with 6.0 % Bentonite, 2.0 % CaCl₂, 10 #/sk Gilsonite, and 1/2 #/sk Flocele (12.3 ppg, 1.93 ft³/sk) and a tail of 150 sks Class G with 1/4 #/sk Flocele (15.6

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ppg, 1.18 ft³/sk). WOC 12 hours. Test BOP as outlined in 'Drilling' section. Test manifold as outlined in 'Drilling' section. Test casing to 1500 psi for 30 min.

Production Liner: NO CEMENT

Set slips with full string weight

If cement does not circulate, run temperature survey in 8 hrs. to determine TOC.

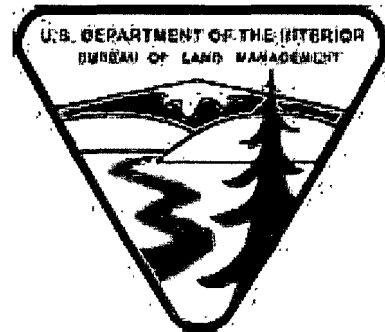
OTHER INFORMATION

- 1) This well will be an open hole completion lined with an uncemented pre-drilled liner.
- 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.
- 5) This gas is dedicated.

DRILLING CONDITIONS OF APPROVAL

Operator: Energen Resources
Lease No.: NMSF-079483
Well Name: Carson #403
Well Location: Sec.8, T30N, R4W; 1785' FNL & 1240' FEL

- 1) Centralizers to impart a swirling action around the casing (such as turbolators) are required just below and into the base of the lowest usable water zone.



After hour contact: Troy Salyers 505-360-9815