

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

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

JUL 08 2011

Farmington Field Office

Bureau of Land Management

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)

1590' FSL, 1110' FWL, Sec. 31, T30N, R04W

5. Lease Serial No.

SF-079488

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

San Juan 30-4 Unit #33

9. API Well No.

30-039-82387

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

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

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input checked="" type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input type="checkbox"/> Other |
| <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 | |

BP

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 repaired the casing leak in the San Juan 30-4 Unit #33 according to the attached Casing Repair Summary Report.



*Did not notify NMOC as required

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

Name (Printed/Typed)

Kirt Snyder

Title District Engineer

Signature

Date 7/8/2011

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date JUL 12 2011

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

FARMINGTON FIELD 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.

NMOC

**Energen Resources Corporation
San Juan 30-4 Unit #33
API No. 30-039-82387
Casing Repair Summary Report**

July 8, 2011

Work Summary:

5/13/2011 – MIRU.

5/16/2011 – ND WH. NU BOP. TOH w/ tubing.

5/17/2011 – TIH w/ bit and scraper and tag 5-1/2" liner top @ 4575'.

5/18/2011 – TIH w/ 4-3/4" bit and scraper to 6685'.

5/19/2011 – TIH and set RBP @ 6393'. Attempt to locate casing leak.

5/20/2011 – Shut down due to road conditions.

5/23/2011 – Isolate casing leak f/ 3612' to 2807' RKB with packer. Establish injection rate of 3 BPM @ 200 psi.

5/24/2011 – TIH and set 7-5/8" RBP @ 2800'. Load hole and pressure test casing to 500 psi. Tested good. TOH.

5/25/2011 – Run CBL f/ 2800' to surface w/ 1000 psi. TIH and retrieve 7-5/8" RBP. TOH. TIH and retrieve 5-1/2" RBP. TOH. TIH and set 5-1/2" Composite RBP @ 4700'. Test RBP to 1000 psi. Tested Good.

Note: Provided BLM representative, Jim Lovato with CBL. Got verbal approval from Jim Lovato to perform proposed squeeze procedure.

5/26/2011 – Attempted to set cement retainer. Retainer set @ 1400' and had to be drilled out. TIH w/ second composite cement retainer (Retainer pulled out of hole due to drag). TIH w/ packer and set @ 2744'.

5/27/2011 – Squeeze 7-5/8" casing leak f/ 2807' to 3612' w/ 330 sks Class G, 50/50 POZ w/ 3% gel @ 13.2 ppg, Yield of 1.38 and a rate of 2 BPM at an average rate of 275 psi. Max pressure of 2000 psi. Release packer and TOH 2 stands, reverse circulate and pressure up on squeeze. SWI for holiday weekend.

5/31/2011 – TOH. TIH and tag cement @ 2715'. Drill cement f/ 2715' to 2760'.

6/1/2011 – Drill cement f/ 2760' to 3191'.

6/2/2011 – Drill cement f/ 3191' to 3321'. No cement f/ 3321' to 4575'. TOH. TIH w/ packer and set @ 2720'. Pressure test squeeze to 500 psi for 30 min. Pressure dropped to 50 psi in 30 min and held. **Could not establish a sufficient injection rate to re squeeze.**

6/3/2011 – Prep to run 5-1/2" liner.

Note: Verbal approval was given by BLM representative Jim Lovato to run a 5-1/2" liner across the squeezed interval and cement.

6/6/2011 – Prep to run 5-1/2" liner.

6/7/2011 – Attempt to run 5-1/2" liner and stacked out @ 940'. TOH w/ liner and LD. Turned down guide shoe.

6/8/2011 – TIH w/ 6-3/4" bit and dual string mills to prep for liner. TOH. TIH w/ 56 jts of 5-1/2", 15.5#, J-55 Casing (24 centralizers – 4 on bottom and 4 on top – every other joint). Hung liner just above existing liner.

6/9/2011 – Cement liner w/ 240 sks 50/50 POZ w/ .1% CF-3, .2% HALAD-322, @ 13.5 ppg, Yield of 1.28 cuft/sk. Displace cement. Set guide in existing 5-1/2" liner top @ 4575'. Top of liner @ 2215'. Bottom of liner @ 4575'. Release liner and TOH. Did not reverse because check did not hold.

6/10/2011 – Tag cement @ 1551'. Prep to drill cement.

6/13/2011 – Tag cement @ 1551'. Drill cement f/ 1551 to 2215'.

6/14/2011 – Drill cement f/ 2215' to 2354'. Tag plug @ 2354'. Shove plug to 2520'. No cement f/ 2354' to 2520'. Push wiper plug to 4448' and tagged solid. Pull 2 stands.

6/15/2011 – Drill cement f/ 4448' to 4598'. TOH. TIH w/ packer to 2198' and **pressure test liner to 500 psi for 30 min.** Tested good. TOH w/ packer.

6/16/2011 – TIH w/ storm packer and set @ 32'. Change out well head. TOH w/ storm packer.

6/17/2011 – TIH w/ packer and set @ 4513' and pressure test liner bottom to 500 psi for 30 min. Tested Good. TOH w/ packer. TIH w/ drilling assembly to 4600'.

6/18/2011 – TIH and tag @ 4600'. TOH LD tbg. TIH w/ 140 jts tbg. Hang tbg. ND BOP. NU WH. RDMO (Rig had to move to new completion – will move another rig to location on 6/22/2011)

6/22/2011 – MIRU. ND WH. NU BOP. TOH w/ tbg.

6/23/2011 – TIH and tag @ 4598'.

6/24/2011 – Drill through 4598'. Free movement f/ 4600' to 4700'. Pull 30 stands and unload hole w/ air f/ 2800'. RIH 30 stands and unload hole @ top of composite BP @ 4700'.

6/27/2011 – Establish circulation w/ air mist and drill out composite plug @ 4700'. TIH and tag @ 6700'. Clean out sand f/ 6700' to 6826'. Pull 10 stands. SWI.

6/28/2011 – RIH and tag @ 6806'. Establish circulation w/ air mist and clean out f/ 6806' to 6836'. TOH and LD work string. RIH w/ production tbg as follows: pinned notched collar, 1 jt, 1.78" ID SN, 204 jts tbg. Land tbg @ 6601', SN @ 6568'. SWI.

6/29/2011 – Swab tbg. No Fluid. TIH and tag @ 6836'. Pull tbg up to 6816'. Swab Well. Well would not kick off. Pull up to 6762'. Resume swabbing. Recovered 3 bbls.

6/30/2011 – Swab 2 bbls fluid. Spot 400 gal 15% HCl double inhibited w/ surfactant. Chased acid w/ 2 bbls 2% KCl. SWI.

7/1/2011 – RIH to 6762' and swab. Recovered 17 bbls fluid. Pull 15 stands. SWI.

7/5/2011 – TIH to 6762'. Swab 16 bbls. Land tbg as follows: Notched Collar w/ pin on bottom, 1 jt, SN (1.78" ID), 209 jts 2-3/8", 4.7#, J-55, 8rd EUE tbg. EOT @ 6762', SN @ 6729'. Swab 9.5 bbls fluid. ND BOP. NU WH. RDMO. Final Report.