

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

OCT 19 2011

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

Fairington Field Office
Bureau of Land Management

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator
ENERGEN RESOURCES CORPORATION3a. Address
2010 Afton Place, Farmington, NM 87401

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1,850' FNL, 1,850' FWL, T26N R7W Sec. 30

5. Lease Serial No.

NMSF-078048

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Hughes 15

9. API Well No.

30-039-06314

10. Field and Pool, or Exploratory Area
South Blanco 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

BP

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 | |

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 repair a leak in the casing according to the attached procedure.

RCVD OCT 25 '11

OIL CONS. DIV.

DIST. 3

* Notify agencies of TOC + csg leak depth prior to
cementing

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

Name (Printed/Typed)

Adam Klein

Title District Engineer

Signature

Date 10/18/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

OCT 19 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

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 A

ENERGEN

R E S O U R C E S

Hughes #15

API #: 30-039-06314 / AFE #: SJ11-330 / DP: 3151155A

Pictured Cliffs

Rio Arriba County, New Mexico

CASING SQUEEZE PROCEDURE

October 14, 2011

A. OBJECTIVE:

1. Squeeze casing leak from 1,340'-1,357'.
2. Return well to production.

B. WELL DATA:

DATES: Spud: 8/20/1957 Completed: 9/7/1957

DEPTHS: TD: 2,300' PBTD: 2,220'

ELEVATIONS: GL: 6,311' KB: 6,320' (9' KBM)

PERFORATIONS: 2,165'-2,192' w/ 4 SPF. Shot a total of 112 holes over the 27'.

STIMULATION: Sand frac w/ 1,240 bbls of water carrying 50,000# of sand.
Refrac with 421 bbls of 20cp X-link carrying 5,000# 100 mesh and 80,000# 20/40.

SURFACE CASING: 8 5/8" J-55 24.00# ST&C casing set @ 102'.
Cemented in a single stage w/ 80 sacks, the cement was circulated

PRODUCTION CASING: 5 1/2" J-55 14.00# LT&C casing set @ 2,290'.
Cemented in a single stage w/ 100 sacks, the calculated TOC is @ 1,821'.

PRODUCTION TUBING: 68 joints of 2 3/8" J-55 4.70# tubing. The EOT is landed @ 2,168' w/ the SN @ 2,152'.

C. PROCEDURE:

WATCH FOR EXCESSIVE USE OF THE THREAD COMPOUND.
USE THREAD COMPOUND ONLY ON PIN ENDS. NEVER BOX ENDS.
KEEP A TIW VALVE OPEN & ON THE RIG FLOOR @ ALL TIMES.

1. MIRUPU. Record casing, tubing and bradenhead pressures.
2. MI & set 1-400 barrel lined frac tanks filled w/ enough fresh water to satisfy all of the anticipated fluid requirements for this **casing squeeze** & 1-400 barrel test tank to flow back any fluids & circulated cement during this **CLOSED LOOP OPERATION**.
3. NU relief line and blow down well.
4. ND the wellhead, & NU a 3M# manual BOP w/ 2 3/8" & CSO rams. Function test BOP.
5. POOH, inspect & tally the tubing.
6. PU & TIH w/ a 5 1/2" RBP. Set RBP +/- 50' above top perf at 2,115'. POOH w/ the 2 3/8" tubing.
7. PU & TIH w/ a 5 1/2" x 2 3/8" production packer & a 2 3/8" SN on the 2 3/8" tubing above the RBP.
8. Set the production packer & pressure test BP to 2,500# for 5 minutes. Release the pressure, unset the packer & PUH to locate and isolate the casing leak.
9. Once casing leak is located, TOO H with tubing, RBP and packer.
10. MIRU wireline to run a CBL from 2,000' to surface to determine TOC.
11. PU and TIH with a 5 1/2" CIBP on the 2 3/8" tubing with a packer. Set CIBP +/- 50' below bottom of casing leak at +/- 1,407'
12. Pressure test CIBP to 2,500#.
13. PU & TIH w/ a 5 1/2" x 2 3/8" cement retainer, an on/off tool, a 2 3/8" SN & the 2 3/8" tubing. Set the cement retainer @ +/- 1,280'. Load & pressure annulus to 500#
14. Pressure test all lines to 2,500#. Mix & pump cement & squeeze according to the service company's proposal. Max pressure 2,000#.
15. Sting out of cement retainer leaving 1 BBL of cement on top of the retainer & reverse circulate any excess cement to surface. POOH w/ the 2 3/8" tubing, SN & stinger. SION & WOC.
16. Drill out the cement & the cement retainer down to the BP. Circulate one full hole volume. Load & pressure test casing to 500#. Re-squeeze as necessary.

17. If casing tests good, drill out CIBP and C/O to PBTD.
18. MIRU wireline. Run CBL from 1,800' to surface.
19. PU & RIH w/ the 2 3/8 tail joint, the 2 3/8" API SN & the 2 3/8" J-55 tubing. ND the BOP & NU the WH.
Note: Be sure to land SN in the bottom 1/3rd of the perfs.
20. Clean the location, RDMO the pulling unit & turn well over to the Production Group to place well on production.

D. ATTACHMENTS:

1. Hughes #15 Pertinent Well Data Sheet
2. Hughes #15 Production Graphs
3. Hughes #15 Wellbore Diagrams