

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., 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 and Natural Resources

Form C-103
June 19, 2008

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

| |
|---|
| WELL API NO. 30-039-06314 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. |
| 7. Lease Name or Unit Agreement Name: Hughes |
| 8. Well Number #15 |
| 9. OGRID Number 162928 |
| 10. Pool name or Wildcat South Blanco Pictured Cliffs |

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS)

| |
|---|
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other |
| 2. Name of Operator Energen Resources Corporation |
| 3. Address of Operator 2010 Afton Place, Farmington, NM 87401 |
| 4. Well Location Unit Letter <u>F</u> : <u>1850'</u> feet from the <u>North</u> line and <u>1850'</u> feet from the <u>West</u> line Section <u>30</u> Township <u>26N</u> Range <u>07W</u> NMPM County <u>Rio Arriba</u> |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6306 GL |

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: repair casing leak

☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER:

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Energen Resources plans to repair a leak in the casing according to the attached procedure.

*Notify Nmcd of location of csg leak prior to cementing.

Spud Date:

8/20/1957

Rig Release Date:



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

[Signature]

TITLE

District Engineer

DATE

10/18/11

Type or print name Adam Klem

aklem@energen.com

E-mail address:

PHONE 505-325-6800

For State Use Only

Deputy Oil & Gas Inspector,
District #3

APPROVED BY

[Signature]

TITLE

DATE

10/26/11

Conditions of Approval (if any):

AV



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 perms.
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