

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires March 31, 2007

## 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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

5. Lease Serial No.

NMM 015150

6. If Indian, Allottee or Tribe Name

RCUD MAY11'07

7. If Unit or C.A. (include Unit, Name and/or No.)

OIL CONS. DIST.

DIST. 3

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

ENERGEN RESOURCES CORPORATION

3a. Address

2198 Bloomfield Highway, Farmington, NM 87401

3b. Phone No. (include area code)

505-325-6800

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

990' FSL, 990' FWL, Sec.01, T27N, R008, NMM

SW/SW (M)

Well Name and No.

Howell F # 1

9. API Well No.

30-045-06758

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

San Juan 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 type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
| <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       | deepen, case &                            |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            | frac                                      |

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 recomplete 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 recompletion 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 DEEPEMED, CASED AND FRACED THE HOWELL F #1 AS FOLLOWS:

11/27/06 - MIRU. BLOW WELL DOWN. PUMP DOWN TUBING &amp; KILL WELL. NDWH. NU BOP. TOH WITH TUBING. AT JT.

128, TBG WAS PARTED AT THE TOP. SHUT IN WELL.

11/28 - 11/30/06 - FISH FOR PARTED TBG. FISHING UNSUCCESSFUL.

12/01 - 12/06/06 - MILL JUNK TUBING THAT WAS UNRECOVERABLE.

12/07/06 - ATTEMPT TO SET CEMENT RETAINER TO SQUEEZE OPEN HOLE. UNABLE TO SET CEMENT RETAINER.

12/08/06 - RUN COLLAR LOG &amp; CASING CALIBER LOG. SET CEMENT RETAINER @ 4,537' FS. PUMP DOWN CASING W/135 BW TO LOAD CASING. PRESSURE TEST CASING TO 500 PSI FOR 5 MINUTES - OK.

12/09/06 - DROP DOWN WITH TBG STING INTO CEMENT RETAINER. SQUEEZE CASING &amp; HOLE OPEN FROM 4,537' TO 5370' WITH 250 SKS CLASS V CEMENT, 0.2% OF 1% LI-344 (MIXED @ 15.6#/GAL &amp; 1.18 CU.FT./SK YIELD). STING OUT OF CEMENT RETAINER.

OJO ALAMO SQUEEZE - SHOOT 3 SQUEEZE HOLE @ 2,220'. SET CEMENT RETAINER @ 2,194' FS. SQUEEZE CASING FROM 2,220' - 2,194 W/100 SKS CLASS V CEMENT, 2% CACL2 (MIXED @ 15.6#/GAL &amp; 1.18 CU.FT./SK YIELD) STING OUT OF RETAINER.

(CONTINUED ON PAGES 2&amp;3)

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Vicki Donaghey

Title

Regulatory Analyst

Date 05/07/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date MAY 10 2007

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.

NMMON

## PAGE 2 - HOWELL F #1 WORKOVER

12/11/ - 12/12/06 - ND BOP. NU NEW WH. NU BOP. DO CEMENT & RETAINER FROM 2,155 - 2,220'. CIRCULATE HOLE CLEAN. PT CASING & SQUEEZE HOLE @ 2,220' FS, TO 500 PSI FOR 5 MINUTES - OK.

12/13-12/15/06 - DO CEMENT FROM 4,460' TO 4,611'. CIRCULATE CASING CLEAN.

12/18/ - 12/20/06 - RU AIR MOTOR FOR DRILLING. BAD MOTOR.

12/21/06 - TIH W/ NEW AIR MOTOR. TOH W/ AIR MOTOR.

12/22/06 - TIH. DO F/4,615' TO 4,630'. TAGGED TOP OF FISH @ 4,630'.

12/27 - 12/29/06 - ATTEMPT TO DRILL OPEN HOLE W/OUT SUCCESS. LOST CONES ON BIT.

1/3 - 1/5/07 - ATTEMPT TO FISH CONES. RETRIEVED 1 CONE OUT OF 3 LOST.

1/8/07 - MILL CONES.

1/9/07 - FISH TWO PIECES OF METAL THAT LOOKED LIKE CSG. TIH W/ MILL. POWER SWIVEL FAILED.

1/10 - 1/12/07 - MILL F/ 4,594' TO 4,659' INTO OPEN HOLE.

1/15/07 - SET CMT RETAINER @ 4,537' FS.

1/16/07 - SQZ FR/4,534' TO 4,696' W/160 SX CLASS H CMT W/3% KCL. (MIXED @ 15.6 #GAL & 1.18 CUFT/SX YIELD).

1/17/07 - SET BP @ 4,460' SF. TRY SET WHIP STOCK TOOL @ 4,460'.

1/18 - 1/19/07 - MILL OUT WINDOW F/ 4,440' TO 4,453'. DRILL INTO OPEN HOLE F/ 4,453' TO 4,457'.

1/20 - 1/24/07 - DO FR/4,457 TO 4,780' FS.

1/25 - 1/26/07 - TRIPS.

1/27 - 1/29/07 - PUMP CEMENT PLUG AS FOLLOWS; 35 SKS CLASS G W/ 3 % KCL WEIGHT 16.5 LB / GAL - YIELD 1.07 CUFT/ SK. TOP OF PLUG @ 4587 RKB. TAGGED NO CEMENT.

1/30 - 1/31/07 - SET CEMENT PLUG - AS FOLLOWS 50 SKS CLASS G W/ 3 % KCL & [BWOW] & 3 LBS/SK PHENOSEAL - WEIGH PUMP 16.5 LB/GAL - YIELD 1.07 CUFT/SK 9.5 BBL SLURRY - TOP OF PLUG 4535' RKB. TIH, TAG CEMENT PLUG @ 4751' RKB.

2/1 - 2/7/07 - ATTEMPT TO KICK OFF CEMENT PLUG. UNABLE TO KICK OFF. TOH W/ WRK STRING, ND MOTOR - NU FISH TOOLS - TIH, ENGAGE WHIPSTOCK - JAR OUT OF HOLE - ND WHIPSTOCK.

2/8 - 2/10/07 - SET CEMENT RETAINER @ 4280' RKB. PUMP 12.6 BBLs OF CLASS G CEMENT W/ 1 % KCL - PUMPED @ 15.6 LB/GAL - PUMP @ 2 TO 3 BPM @ 200 TO 1000 PSI.

2/11 - 2/21/07 - SHUT DOWN DUE TO WEATHER CONDITIONS.

2/22/07 - MIRU LOGGERS - RUN CCL - CBL - RD LOGGERS.

2/23 - 2/26/07 - TIH & SET CIBP @ 4050' RKB. GET READY TO MILL WINDOW.

2/27/07 - MILL OUT WINDOW F/4037' TO 4044' RKB.

2/28 - 3/8/07 - TIH, ORIENT TOOLS AND DRILL OPEN HOLE F/ 4047' TO 4121' RKB. MOTOR PARTED 1 FT F/ TOP OF MOTOR.

3/9 - 3/16/07 - REPAIR RIG.

3/19/07 - FISH PARTED MOTOR. RETRIEVED SUCCESSFULLY.

3/20 - 4/2/07 - DRLG OPEN HOLE F/ 4127' TO 5740' TD.

4/3 - 4/4/07 - PREPARE TO RUN CSG. TIH W/ 136 JTS OF 4-1/2" 11.6# J-55 8RD CSG - RU HALLIBURTON TO CEMENT - PUMP CEMENT AS FOLLOWS - 20 BBLs H2O - LEAD CEMENT 245 SKS PUMP @ 12.3 PPG - 65/35 G POZ W/ 2 % CACL 10 # SK GILSONITE 1/4 # SK POL-E-FLAKE - 155 SKS TAIL PUMPED @ 13.30 # 2 % GEL 5 # SK GILSONITE 1/8 # SK POL-E-FLAKE.

4/5 - 4/6/07 - PREPARE TO LOG. RUN GR-CCL-CBL, RST. *ret @ 5721'* *TOC @ 2980'.*

4/9/07 - RD WOR AND RELEASE RIG.

04/14-16/07 - MIRU COMPLETION RIG. INSTALL FRAC STACK, PRESSURE TEST TO 3000 PSI - OK. PERFORATE POINT LOOKOUT - 5251-57', 5276-82', 5296-5302', 5328-34', 5414-16', 5428-30' - 34 HOLES, 1 SPF.

### **PAGE 3 - HOWELL F #1 WORKOVER**

**04/17/07** - RU HALIBURTON ENERGY SERVICES. PRESSURE TEST LINES TO 4000#. HOLD SAFETY MEETING. HES PUMPED LOAD AND BREAK, PUMPED 1500 GAL OF 15% HCL DROPPING 50-7/8" BALL SEALERS. BALLED OFF BEFORE PUMPING ALL ACID. BASIN WIRELINE TIH W/ JUNK BASKET TO RETRIEVE BALLS. TOO H, RETRIEVED ALL 50 BALLS. FRAC POINT LOOKOUT WITH 91,041 GALS. 60Q SLICKWATER FOAM & 112,300# 20/40 BRADY SAND. PERFORATE MENEFE - 5014-20', 5060-66', 5109-15', 5164-70' - 28 HOLES, 1 SPF. HES PUMPED 2% KCL TO LOAD AND BREAK. HES PUMPED 1500 GAL OF 15% HCL DROPPING 50-7/8 BALL SEALERS. HAD GOOD BALL ACTION AND BALLED OUT. BASIN TIH W/ JUNK BASKET TO RETRIEVE BALL SEALERS. FRAC MENEFE WITH 102,528 GALS 60Q SLICKWATER FOAM & 157,700# 20/40 BRADY SAND.

**04/18 - 04/24/07** - FLOW BACK FRAC.

**04/27 - 05/02/07** - TIH. CLEAN OUT WITH AIR MIST TO PBTD.

**05/03/07** - TIH WITH 2.375" TUBING, SET @ 5423'. ND BOP. NUWH. RETURN TO PRODUCTION.