

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  
May 27, 2004

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

WELL API NO. 30-045-33147
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Kutz 29-9-19
8. Well Number 2
9. OGRID Number 162928
10. Pool name or Wildcat Basin Fruitland Coal

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
5621' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

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 ☐ Gas Well ☒ Other \_\_\_\_\_

2. Name of Operator  
Energen Resources Corporation

3. Address of Operator  
2198 Bloomfield Highway, Farmington, NM 87401

4. Well Location

Unit Letter G : 2505 feet from the North line and 1970 feet from the East line

Section 19 Township 29N Range 9W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
5621' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type \_\_\_\_\_ Depth to Groundwater \_\_\_\_\_ Distance from nearest fresh water well \_\_\_\_\_ Distance from nearest surface water \_\_\_\_\_

Pit Liner Thickness: \_\_\_\_\_ mil Below-Grade Tank: Volume \_\_\_\_\_ bbls; Construction Material \_\_\_\_\_

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 COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: squeeze & frac / schematic attached ☒

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.

Squeeze off upper lateral, frac lower lateral & frac upper Coals inside 7" casing.  
Upper lateral window: 2409' - 2417' Lower lateral window: 2672' - 2685'

06/20 - 07/01/06 Squeezed Upper Lateral  
MIRU workover rig. Blow down well to flow back tank. NDWH. NUBOP. Unseat tbg hanger, TIH, tag 7" casing.  
PBTD @ 3138', TOH w/2.375" tubing. TIH w/7" RBP & set @ 2506'. Pull 1 stand & dump 2.5 sks on top of RBP.  
TOH. TIH w/7" RTTS packer & set @ 2223'. Upper lateral window is now isolated. (continued on page 2)

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been will be constructed or closed according to NMOC guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☒

SIGNATURE Vicki Donaghey TITLE Regulatory Analyst DATE 08/31/06  
Type or print name Vicki Donaghey E-mail address: \_\_\_\_\_ Telephone No. 505-325-6800

For State Use Only  
APPROVED BY H. Villanueva TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 4 DATE SEP 06 2006  
Conditions of Approval, if any: \_\_\_\_\_

Test annulus to 1000 psi – held ok. Establish rate down tubing into upper lateral window @ 4 bpm @ 500 psi. Pumped Upper Lateral squeeze as follows:

Pressured annulus to 1000 psi, pumped 50 sks cement @ 2 bpm @ 620 psi, displace cement with 15 bbls H<sub>2</sub>O at max pressure of 630 psi, shut well in with 460 psi. TOH and LD RTTS packer. PU 6.25" bit on 2.375" 4.7# tubing and TIH. Drill cement from 2363' – 2405', pressure test squeeze, pump into squeeze @ 2 bpm, 1200 psi. Set RTTS packer @ 2223'. Load annulus and pressure test to 1000 psi- held ok. RU cement crew, establish rate into squeeze @ 1 bpm @ 1250 psi. Mix and pump 100 sks Class G cement, 0.2% of 1% Veraset, 3% salt @ 15.6# 16.0 #/gal @ 2 bpm, 1450 psi. Displace cement with 14.5 bbls H<sub>2</sub>O from 2-0.25 bpm, 1600-2600 psi. Hestitated squeeze 1 time with 14.2 bbls, squeeze pressured out @ 2600 psi. Shut tubing valve with 2500 psi. SDFW. TOH & LD packer. PU 6.25" bit on 2.375" 4.7# tubing and TIH. Drill cement from 2248'-2420', pressure test squeeze to 500 psi-held ok. CO to RBP @ 2506'. RD power swivel, TOH with BHA and tubing.

**07/04-08/15/06 Frac Lower Lateral & Upper Coals in 7" Motherbore**

Unset RTTS packer @ 2223' and reset @ 2695' (10' below lower lateral window). Clean out lower lateral with air mist. TIH and set 7" frac liner over upper lateral squeeze. RU HES wellhead isolation tool. RU Halliburton and pump 184,736 gals 70Q foam Silverstim LT, 201,000# 20/40 brady sand at an average rate and pressure of 79 bpm @ 2259 psi with a maximum sand concentration of 4.5 ppg. Flow back frac and clean out sand for three days, retrieve frac liner and TOH. Flow back and clean out frac for seven days. Set RBP @ 2630'. Spot 2 sks sand on top of RBP. Perforate upper Fruitland Coal with 3-1/8" slick guns, 4 spf, .45" diameter, 19 gm chg, 37" PEN, total of 106 holes from 2500-08', 2513-21', 2563-66', 2573-76', 2582-85'. RD W/L Co. TIH and set a 7" frac liner over upper lateral squeeze. RU HES wellhead isolation tool. Acidize upper coal perms with 3000 gals 15% HCL, 150 bio-balls. RU Halliburton and pump 191,679 gals 70Q foam slickwater, 11,200# 40/70 sand and 150,300# 20/40 brady sand at a average rate and pressure of 68 bpm & 2450 psi with a maximum sand concentration of 5 ppg. Flow back frac and clean out sand for two days. Retrieve frac liner and TOH. Flow back and clean out frac for two days. Retrieve upper RBP, flow back and clean out for nine days, retrieve lower RBP, clean out to 7' Motherbore. PBTD @ 3184'. Ran 86 jts 2.375" tubing, landed @ 2665'. SN @ 2631'. RDMO. Returned well to production.

# Kutz 29-9-19 #2

