

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. 30-025-31830
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: West Lovington Strawn Unit
8. Well Number 5
9. OGRID Number 162928
10. Pool name or Wildcat Lovington, Strawn, West

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3978.3' 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 <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>
2. Name of Operator Energen Resources Corporation
3. Address of Operator 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705
4. Well Location Unit Letter <u>B</u> : <u>990</u> feet from the <u>North</u> line and <u>1980</u> feet from the <u>East</u> line Section <u>1</u> Township <u>16S</u> Range <u>35E</u> NMPM County <u>Lea</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3978.3' GR
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>
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:

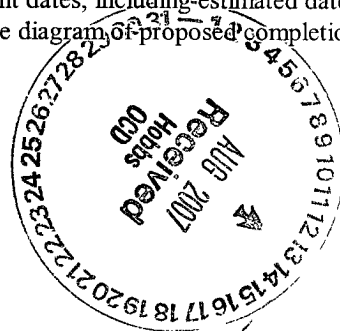
PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐  
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: ☐

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.

See attached report.



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 NMOCD guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Mary Ann Martinez TITLE Regulatory Analyst DATE 8/8/07

Type or print name Mary Ann Martinez

E-mail address:

Telephone No. 432 688-3323

For State Use Only

APPROVED BY Mary W. Wink TITLE Regulatory Analyst DATE AUG 15 2007  
Conditions of Approval, if any:

# **ENERGEN RESOURCES CORPORATION**

## **WLSU #5**

990' FNL X 1980' FEL,  
Sec 35, T-16-S, R-35-E  
Lea, Co. NM

### **West Lovington Field Casing Repair Procedure**

Date: July 25, 2007

AFE No: PB072607

Cost: \$102,000

WI: 89.97657%

NRI: 73.97791%

TD: 11793'

PBTD: 11742'

KB: 3996'

GL: 3978'

Surface Casing: 13-3/8" 48#/ft, H-40, Set at 407'.  
Cemented w/440 sx class C.  
Cement circulated.

Intermediate Casing: 8-5/8" 32#/ft, K-55 & NS-80 Surf to 4738'  
Cemented w/550 sx 35/65 POZ  
200 sx class C.  
TOC: 2321' calculated

Production Casing: 5-1/2" 17# ,N-80 & S-95 @ 11,793'  
Cemented w/ 775 sx Class "H"  
TOC:7500 calculated

Tbg/Rods/Pump: See wellbore diagram

Perforations: Strawn: 11,474-11,514' (80 holes at 2 spf)

# **ENERGEN RESOURCES CORPORATION**

## **WLSU #5**

990' FNL X 1980' FEL,  
Sec 35, T-16-S, R-35-E  
Lea, Co. NM  
West Lovington Field  
**Casing Repair Procedure**

1. MIRU Pulling Unit
2. POOH w/ rods. Install 5M psi hydraulic BOPE. Test tubing out of hole.
3. RU Gray Wireline. Run casing inspection (MTT/CIT) logs from 9150' to 4800'.
4. PU RIH w/ RBP and Pkr. Set RBP @ 11,450'. Set packer and pressure test RBP to 3500 psi. Test annulus to verify casing leak. Hunt for leak (start above TOC @ 9200').
5. RIH w/cement retainer. Set retainer at 100' above top of leak. Sting out of retainer and reverse circulate to clean up top of retainer. Sting back into retainer. Keep tubing/casing annulus open.
6. Cement squeeze casing leak per service company recommendation.
7. Sting out of retainer. Reverse circulate tubing clean. POOH.
8. RIH w/4-3/4" bit, 6 3-1/2" DC's and 2-7/8" tubing. Drill out cement and retainer. Pressure test casing to 500 psi. Clean out to sand on top of RBP. Pressure test casing to 500 psi. POOH.
9. RIH w/overshot and 2-7/8" tubing. Circulate sand off of RBP and retrieve RBP. POOH.
10. PU RIH w/ Packer. Set @ 11,350'. Acidized Strawn perms w/ 3000 gals 15% HCl acid w/ recommended additives and 100 ball sealers.
11. Swab test.
12. RWTP w/ acid resistant pump.

**ENERGEN RESOURCES CORP****WLSU #005**

(formerly Earnestine State No. 1)

LEA COUNTY, NM

Current Condition Pumping

12/7/2006

GL Elevation: 3978.3

KB Elevation: 3995 8' -- 17 5' above GL

Location: 990' FNL X 1980' FEL

Sec 01-16S-35E

Spud: 12/22/1992

API : 30-025-31830

**Conductor:**

None

**Surface Casing:**

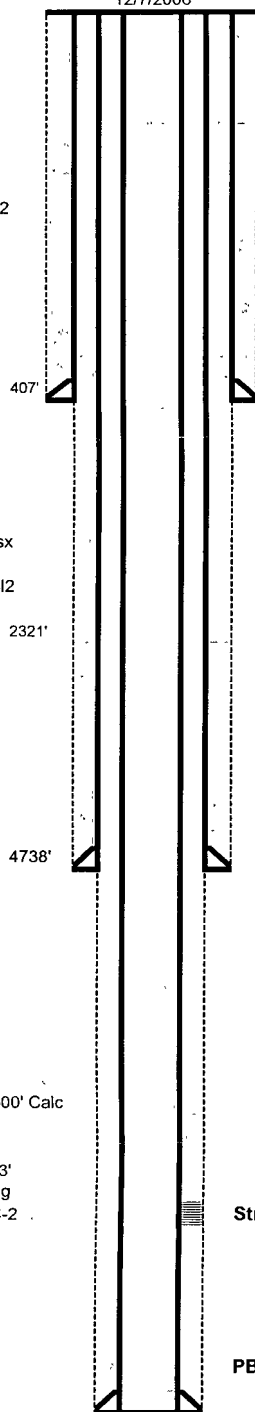
13-3/8" 48#, H-40 @ 407'

Cemented to surface  
with 440 sx Class "C" w/2% CaCl<sub>2</sub>  
(Circulated 100 sx)**Intermediate Casing:**

8-5/8" 32#, J-55 @ 4738'

(L) 550 sx Class "C" 35/65 Poz  
containing 3 lb/sx salt, 1 lb/sx  
Gilsonite(T) 200 sx Class "C" w/1% CaCl<sub>2</sub>  
TOC 2321'**Production Casing:**5-1/2" 17#, N-80 & S-95 @ 11,793'  
cmt w/ 775 sx Class "H" containing0 7% FL-25, 3% A-9, 0 2% FWC-2  
and 0 2% FP-8

TOC Unknown

**Tubing Detail (all depths KB)****Tubing Detail (all depths KB)**

#	Item	Size/Specification	Weight	Grade	Lgth	Depth
0	Elevation	0.00	0.00		17.50	17.50
376	Tubing	2.88	6 50	L/N-80	11512.07	11529.57
1	IPC tbg	2.88	6.50	J-55	31.50	11561.07
1	SN	2.88		J-55	1.10	11562.17
1	TAC			J-55	2.67	11564.84
1	Mother			J-55	30 85	11595.69

**Rod Detail**

#	Item	Size/Specification	Weight/Mftr	Mat'l	Lgth	Depth
1	Polish Rod	1-1/2	Polish Rod	SMSH	30 00	30
0	Fiberglass	1 2	Fibertflex	SMSH	37 50	7042
1	Steel	1	Norns 97	SMSH	25 00	11542
1	Steel	1		SMSH	1 00	11543

Pump 25-125-RHBC-26-5-4-SV-Spec QH-1521

Unknown if well has casing leak

Lok-set Packer at 11445'

EOT at approximately 11480'

Strawn Perfs: 11,474-11,514' (80 holes at 2 spf)

PBD: 11,742'

TD: 11,793'