STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

**Oil Conservation Division**
**1220 South St. Francis Dr.**
**Santa Fe, New Mexico 87505**

FORM C-108
Revised June 10, 2003

## APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery __XX__Pressure Maintenance _____Disposal _____Storage
Application qualifies for administrative approval? _____Yes _____No

II. OPERATOR: Energen Resources Corporation

ADDRESS: 3300 N. 'A', Bldg 4, Ste 100, Midland, TX 79705

CONTACT PARTY: Tracie J Cherry, Regulatory Analyst PHONE: 432/684-3692

III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? _____Yes __XX__No
If yes, give the Division order number authorizing the project: _____

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Tracie J Cherry TITLE: Regulatory Analyst

SIGNATURE: Tracie J Cherry DATE: 07-09-09

E-MAIL ADDRESS: _____

* If the information required under Sections VI, VIII, X, and XI above has been previously sul
Please show the date and circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Offi

NMOCD Case No. 14356
September 3, 2009
Energen Exhibit 5

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;

(3) The formation name and depth with expected maximum injection rates and pressures; and,

(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

---

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

ENERGEN RESOURCES CORPORATION
West Lovington Strawn Unit #8R
1980' FSL & 660' FWL
Section 34, 15S, 35E
Lea County, NM

VII. Data on the proposed operation:

1. Proposed average daily injection volume: 4000 BWPD
   Proposed maximum daily injection volume: 5000 BWPD

2. This will be a closed system.

3. Proposed average daily injection pressure: 850 psi
   Proposed maximum daily injection pressure: 1950 psi

4. Sources of injection water will be produced water from area Strawn wells that have been drilled and that are scheduled to be drilled on the West Lovington Strawn Unit.

5. Not applicable to this well

IX. Describe the proposed stimulation program, if any.

Well will be acidized with 3,000 gallons of 15% HCL with salt block stagesacid if required.

X. On file for this well

**VIII** The West Lovington Strawn Unit (WLSU) is located in Lea County approximately 2 miles northwest of Lovington, New Mexico. The Unit is situated along the middle to lower shelf margin, north and northwest of the Central Basin Platform. Reservoirs of Strawn Formation age (Middle Pennsylvanian) developed from Phylloid algal mounds which grew on a south-dipping carbonate ramp. The algal mounds are sealed laterally by flanking tight mudstones and vertically by densely cemented grainstones and shales. The stratigraphically trapped WLSU reservoir is characterized as having little primary porosity, with secondary digenesis responsible for creating a complex irregular network of porosity development.

The Energen Resources WLSU #8R well penetrated the top of Strawn porosity at a depth of 11,546' (-7,558' subsea). The base of the unit is at a depth of 11,592' (-7,604' subsea). The overall thickness of Strawn porosity in the #8R is 46'.

The Ogallala formation is the fresh water aquifer in the region and occurs generally from a depth of 50-250' beneath the ground surface. It (and any other potential fresh water aquifer) is protected by strings of casing set in the WLSU #8R, including 13 3/8" surface casing cemented in place from the ground surface to a depth of 391' and 8 5/8" intermediate casing set and cemented in place to a depth of 4753'. Cement was circulated to surface in the placement of both strings of casing.

**XII** I, Albert W. Bondurant, have examined the available geologic data and find no evidence of open active faulting or other hydrologic condition, which may connect the subject West Lovington Strawn zone to any underground sources of fresh, potable, water aquifers.

AWB
May 12, 2009

ENERGEN RESOURCES CORPORATION
West Lovington Strawn Unit #8R
1980' FSL & 660' FWL
Section 34, 15S, 35E
Lea County, NM

XIII. Item A – Proof of Notice

Surface Owner

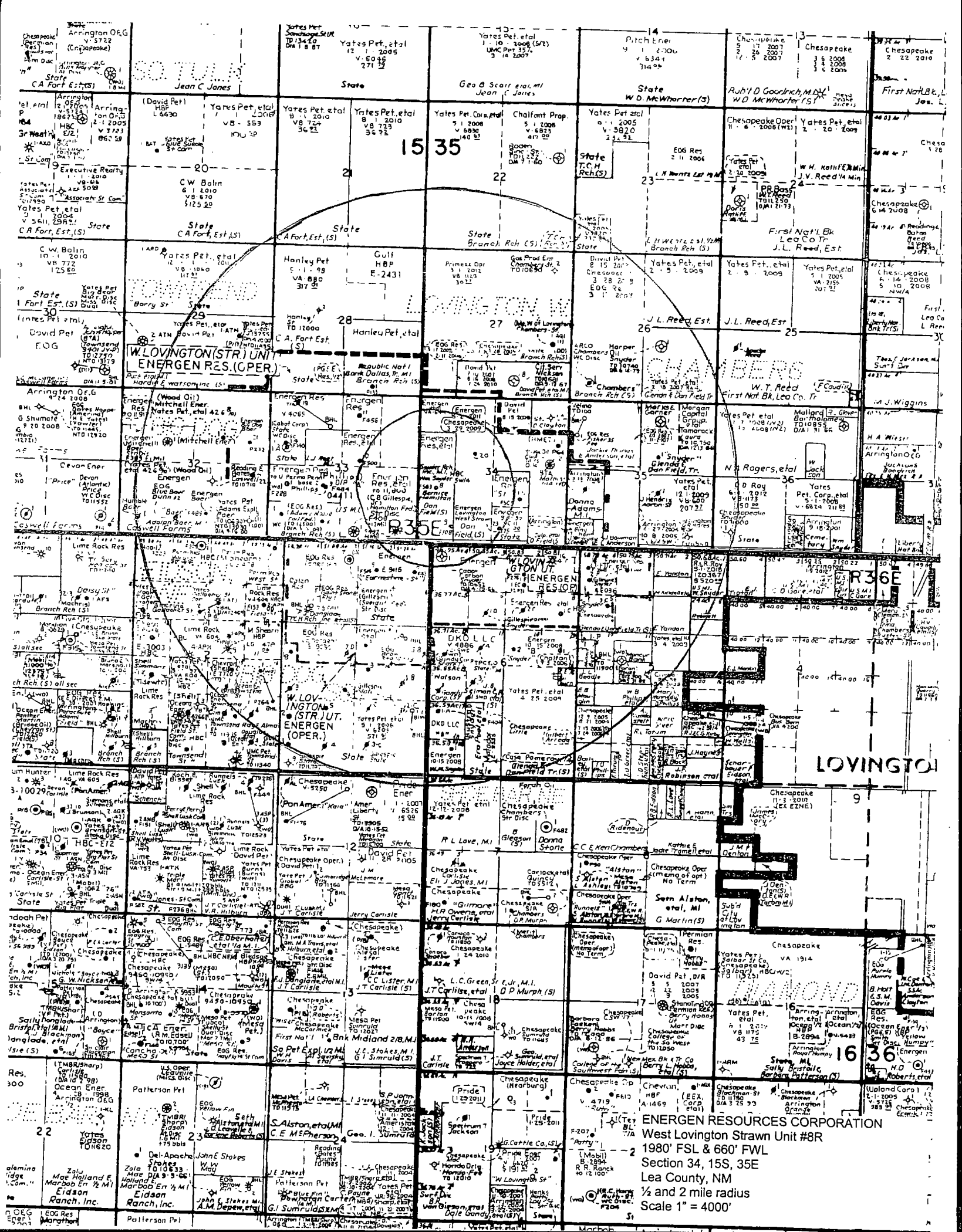
Dan Field
P.O. Box 1105
Lovington, New Mexico 88260

Lease Operators within ½ mile:

Energen Resources Corporation
3300 N. A St., Bldg. 4, Ste. 100
Midland, TX 79705

A copy of this application was furnished to Mr Dan Field at the above address by certified mail No. 7002 0390 0002 9909 7365 on July 09, 2009

Tracie J Cherry
Regulatory Analyst


W. LOVINGTON (STR.) UNIT
ENERGEN RES. (OPER.)
W. LOVINGTON (STR.) UT.
ENERGEN (OPER.)
LOVINGTON
R35E
R36E
15
35
36
ENERGEN RESOURCES CORPORATION
West Lovington Strawn Unit #8R
1980' FSL & 660' FWL
Section 34, 15S, 35E
Lea County, NM
½ and 2 mile radius
Scale 1" = 4000'

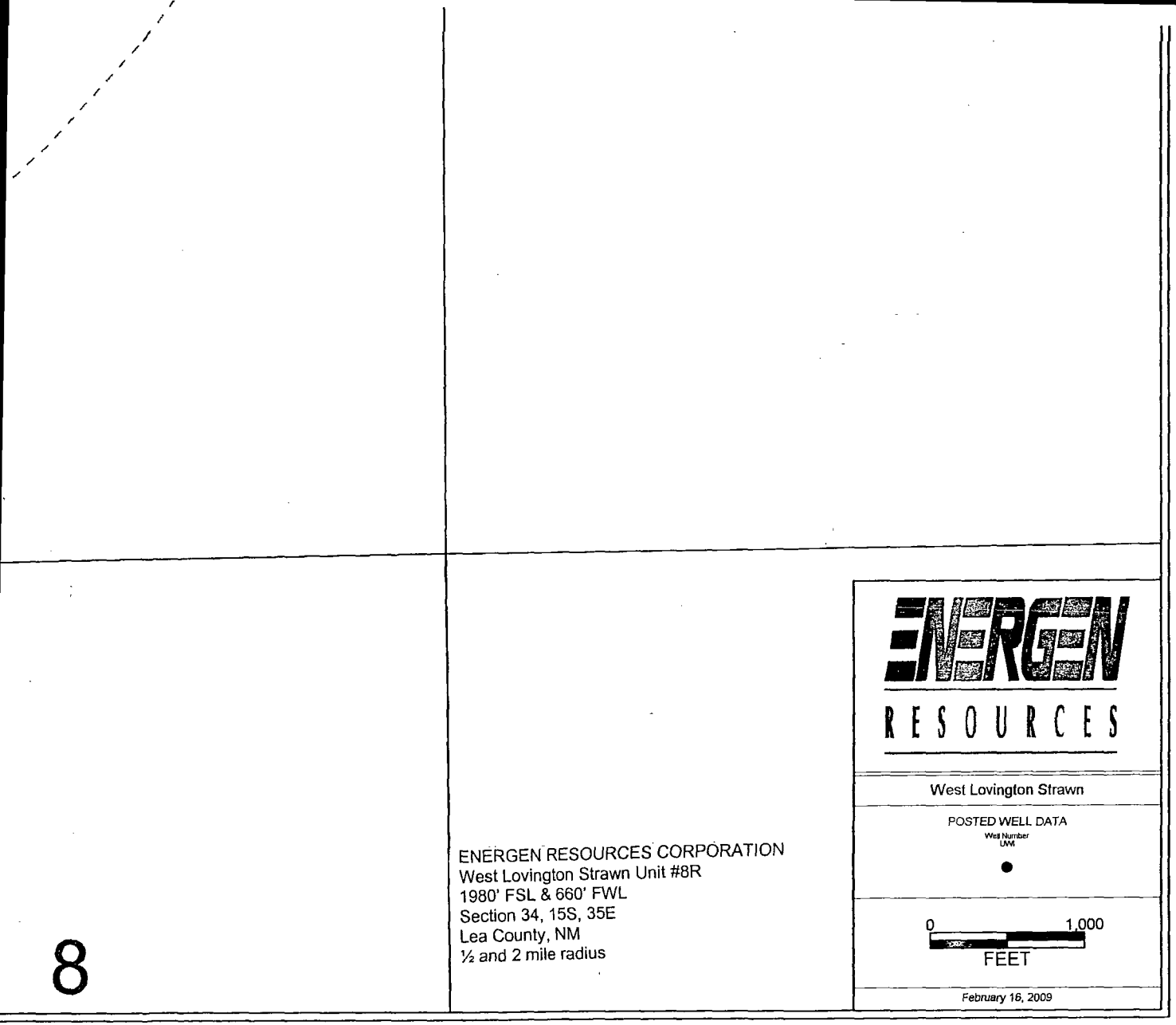
½ mile

AREA OF REVIEW
WELL DATA



| | Operator | Well Name | API | Type | Status | Location | Distance | Spud Date | Total Depth | Bttm Int. | TOC | Construction |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Energen Resources | WLSU #008R | 30-025-32291-0 | O&G | TA | Unit L, Sec 34, T-15-S, R-35-E | | 7/6/2006 ST | | | | 13-3/8" @390' w/440sx - Circulated (17.5" hole) |
| | | | | | | Surf. 1980' FSL & 660 FWL | 0.0 | | | | | 8-5/8" @4753' w/750sx - TOC 1950' (11" hole) |
| | | | | | | BHL. 1870' FSL & 859' FWL | | | **11,887** | **4753** | **Surf.** | 5-1/2" @11,885' w/1500sx - circ. 248 sx |
| | Energen Resources | WLSU #008 | 30-025-32291 | O&G | P&A | Unit L, Sec 34, T-15-S, R-35-E | | 11/7/1993 | | | | 13-3/8" @390' w/440sx - Circulated (17.5" hole) |
| | | | | | | Surf. 1980' FSL & 660 FWL | 0.0 | | | | | 8-5/8" @4753' w/750sx - TOC 1950' (11" hole) |
| | | | | | | | | | **11884** | **4753** | **8478** | 5-1/2" @11884' w/550sx - TOC 8478' (7.875" hole) |
| | Energen Resources | WLSU #009R | 30-025-32812-0 | O&G | Active | Unit M, Sec 34, T-15-S, R-35-E | | 8/29/06 ST | | | | 13-3/8" @405' w/440sx - TOC surface (17.5" hole) |
| | | | | | | Surf.660' FSL & 1201' FWL | 1426.6 | | | | | 8-5/8" @4743' w/700sx - TOC 2056' (11" hole) |
| | | | | | | BHL:641' FSL & 1432' FWL | | | **11865** | **4743** | **Surf.** | 5-1/2" @11865' w/1500sx - Circ. 184 sx (7.875" hole) |
| | Energen Resources | WLSU #009 | 30-025-32812 | O&G | P&A | Unit M, Sec 34, T-15-S, R-35-E | | 1/18/1995 | | | | 13-3/8" @405' w/440sx - TOC surface (17.5" hole) |
| | | | | | | Surf.660' FSL & 1201' FWL | 1426.6 | | | | | 8-5/8" @4743' w/700sx - TOC 2056' (11" hole) |
| | | | | | | | | | **11838** | 4743 | **9220'** | 5-1/2" @11834' w/545sx - TOC 9220' (7.875" hole) |
| | Energen Resources | WLSU #0020 ST | 30-025-35586 | O&G | Active | Unit F, Sec 34, T-15-S, R-35-E | | 5/1/2002 | | | | 13-3/8" @411' w/500sx - Circulated (17.5" hole) |
| | | | | | | Surf.1980' FNL & 1980' FWL | 1866.8 | | | | | 8-5/8" @4827' w/1700sx - Circulated (11" hole) |
| | | | | | | BHL:2352' FNL & 2300' FWL | | | **11830** | **4827** | **3300** | 5-1/2" @11834' w/800sx - TOC 3300' (7.875" hole) |
| | Energen Resources | WLSU #020 | 30-025-35586 | O&G | P&A | Unit F, Sec 34, T-15-S, R-35-E | | 4/29/2001 | | | | 13-3/8" @411' w/500sx - Circulated (17.5" hole) |
| | | | | | | Surf.1980' FNL & 1980' FWL | 1866.8 | | | | | 8-5/8" @4827' w/1700sx - Circulated (11" hole) |
| | | | | | | | | | **11902** | **4827** | **8550** | 5-1/2" @11902' w/800sx - TOC 8550' (7.875" hole) |
| | Energen Resources | WLSU #002 ST | 30-025-31767 | O&G | Active | Unit P, Sec 33-15S-35E | | 10/25/1992 | | | | 13-3/8" @417' w/440sx - Circulated (17.5" hole) |
| | | | | | | Surf.330' FSL & 725' FEL | 2154.2 | | | | | 8-5/8" @4610' w/1625sx - Circulated (11" hole) |
| | | | | | | BHL:592' FSL & 718' FWL | | | **11872** | **4610** | **Surf.** | 5-1/2" @11872' w/2000sx - Circ. (7.875" hole) |
| | Energen Resources | WLSU #002 | 30-025-31767 | O&G | P&A | Unit P, Sec 33-15S-35E | | 10/25/1992 | | | | 13-3/8" @417' w/440sx - Circulated (17.5" hole) |
| | | | | | | Surf.330' FSL & 725' FEL | 2154.2 | | | | | 8-5/8" @4610' w/1625sx - Circulated (11" hole) |
| | | | | | | | | | **11825** | **4610** | **9200** | 5-1/2" @11825' w/750sx - TOC 9200' (7.875" hole) |
| * | Cabot Carbon company | Warren M. Snyder #1 | 30-025-03733 | O&G | P&A | Unit D, Sec 6, T-16-S, R-36-E | | 2/9/1956 | | | | 13-3/8" @298' w/350sx - Circ. (17..5" hole) |
| | | | | | | Surf:330' FNL & 330' FWL | 2318.6 | | **10652** | **4734** | **NA** | 7-5/8" @4734' w/2400 sx - TOC 750' Cut/pull 735' |
| | Energen Resources | WLSU #023 | 30-025-37846 | O&G | Active | Unit O, Sec. 34, T-15S, R-35E | | 6/2/2006 | | | | 13-3/8" @432' w/500sx - Circulated (17.5" hole) |
| | | | | | | Surf:660' FSL & 2310' FEL | 2630.0 | | | | | 8-5/8" @4699' w/2200sx - Circulated (11" hole) |
| | | | | | | | | | **11860** | **4699** | **Surf.** | 5-1/2" @11860' w/1400sx - Circ. (7.875" hole) |

* Not Drilled into The Strawn




ENERGEN RESOURCES

West Lovington Strawn

POSTED WELL DATA
Well Number
UWI

0 1,000
FEET

February 16, 2009

ENERGEN RESOURCES CORPORATION
West Lovington Strawn Unit #8R
1980' FSL & 660' FWL
Section 34, 15S, 35E
Lea County, NM
½ and 2 mile radius

8

# ENERGEN RESOURCES CORP

**WLSU #008R**

**(formerly Snyder "S" Com No. 1)**

**LEA COUNTY, NM**

**GL Elevation:** 3970'

**KB Elevation:** 3987.5' -- 17.5' above GL

**Location:** 1980' FSL X 660' FWL
Sec 34-15S-35E

**Spud:** 11/06/1993

**Sidetracked**

**API :** 30-025-32291

SR

**Currently TA'd**

**Conductor:**
None

**Surface Casing:**
13-3/8" 48#, H-40 @ 391'
Cemented to surface
with 440 sx Class "C" w/2% CaCl2
Circulated 105 sx

391'

**Intermediate Casing:**
8-5/8" 32#, S-80 & J-55 @ 4753'
750 sx total
(L) 550 sx Class "C" 35/65 poz w/
3 lbs/sx salt + 1lb/sx Gilsonite
(T) 200 sx Class "C" w/1% CaCl2
TOC: 1950'

4753'

Sidetrack Wellbore

CIBP @ 11,451'

Strawn Perfs: 11520-40 and 11546-92
(198 shots at 3 SPF) (8/22/2006)

**PBD:** 11,798'

**TD:** 11,887'

**Production Casing:**
5-1/2" 17#, L-80 & HCL-80 @ 11,887'
Cement w/1000 sx 35/65 Poz H
and tail of 500 sx 50/50 Poz
TOC: Surface

**Plugged original hole**

Whipstock plug 4752-4939
Casing cut at 4810'

Csg lk 5,575' - 5,731' Sqz w/ 400 sx

Csg collapsed at 5833-36 and 5960'

Csg Lk 5,780' - 5,813' Sqz w/ 400 sx

Perf 4 Sqz 4 holes at 5900'

Cement Plug f/8229 to 8500'
CIBP at 8500

Stuck tbg below CIBP

**PBD:** 11,828'

**TD:** 11,872'

**Production Casing:**
5-1/2" 20# & 17# ,L-80 & N-80 @ 11,872'
cmtd with 550 sx Class "H" w/3% KCl,
TOC: 8950'
Casing cut at 4810' and pulled out of hole

Submit to Appropriate
District Office
State Lease – 6 copies
Fee Lease – 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL API NO. 30-025-32291

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER CONFIDENTIAL

7. Lease Name or Unit Agreement Name: Snyder "S" Com

2. Name of Operator: Charles B. Gillespie, Jr.

8. Well No. 1

3. Address of Operator: P.O. Box Eight Midland, Texas 79702

9. Pool name or Wildcat: West Lovington Strawn

4. Well Location
Unit Letter L : 1980 Feet From The South Line and 660 Feet From The West Line
Section 34 Township 15-S Range 35-E NMPM Lea County

| 10. Date Spudded | 11. Date T.D. Reached | 12. Date Compl. (Ready to Prod.) | 13. Elevations (DF& RKB, RT, GR, etc.) | 14. Elev. Casinghead |
|---|---|---|---|---|
| 11-6-93 | 12-4-93 | 3-21-94 | 3970 GR | 3970 |

| 15. Total Depth | 16. Plug Back T.D. | 17. If Multiple Compl. How Many Zones? | 18. Intervals Drilled By | Rotary Tools | Cable Tools |
|---|---|---|---|---|---|
| 11,872' | 11,828' | | | XXX | |

19. Producing Interval(s), of this completion - Top, Bottom, Name: 11,534'-11,602' Strawn

20. Was Directional Survey Made: Yes

21. Type Electric and Other Logs Run: CNL/LDT/GR, BHCSL, DLL/MSFL, CCL

22. Was Well Cored: No

23. **CASING RECORD** (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 13-3/8 | 48 | 391 | 17-1/2 | 400 SX "C" | - |
| 8-5/8 | 32 | 4,753 | 11 | 550 SX Lite, 200 SX "C" | - |
| 5-1/2 | 17 & 20 | 11,872 | 7-7/8 | 550 SX "H" | - |
| | | | | | |
| | | | | | |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|---|---|---|---|---|
| | | | | |
| | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|---|---|---|
| 2-7/8" | 11,603 | 11,448 |
| | | |

26. Perforation record (interval, size, and number)
11,534'-11,602', 2 SPF (127 Holes)

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.
DEPTH INTERVAL CONFIDENTIAL AMOUNT AND KIND MATERIAL USED

## PRODUCTION

28.

| Date First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |
|---|---|---|
| 3-21-94 | Flowing | Prod |

| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|---|---|---|---|---|---|---|---|
| 3-23-94 | 24 | 24/64 | | 583 | 1117 | -0- | 1916 |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API - (Corr.) |
|---|---|---|---|---|---|---|
| 675 | PKR | | 583 | 1117 | -0- | 46 |

29. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold

Test Witnessed By: Albert Hobbs

30. List Attachments: Electric Logs, Deviation Survey

31. *I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief*

Signature Kevin Widner Printed Name Kevin Widner Title Production Mgr Date 3/25/94

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico | | | | Northwestern New Mexico | | | |
|---|---|---|---|---|---|---|---|
| T. Anhy | 1862' | T. Canyon | | T. Ojo Alamo | | T. Penn. "B" | |
| T. Salt | 1962' | T. Strawn | 11,528' | T. Kirtland-Fruitland | | T. Penn. "C" | |
| B. Salt | 3020' | T. Atoka | 11,781' | T. Pictured Cliffs | | T. Penn. "D" | |
| T. Yates | 3048' | T. Miss | | T. Cliff House | | T. Leadville | |
| T. 7 Rivers | | T. Devonian | | T. Menefee | | T. Madison | |
| T. Queen | 3911' | T. Silurian | | T. Point Lookout | | T. Elbert | |
| T. Grayburg | | T. Montoya | | T. Mancos | | T. McCracken | |
| T. San Andres | 4702' | T. Simpson | | T. Gallup | | T. Ignacio Otzte | |
| T. Glorieta | 6539' | T. McKee | | Base Greenhorn | | T. Granite | |
| T. Paddock | | T. Ellenburger | | T. Dakota | | T. | |
| T. Blinebry | | T. Gr. Wash | | T. Morrison | | T. | |
| T. Tubb | 7422' | T. Delaware Sand | | T. Todilto | | T. | |
| T. Drinkard | | T. Bone Springs | | T. Entrada | | T. | |
| T. Abo | 8150' | T. | | T. Wingate | | T. | |
| T. Wolfcamp | 9711' | T. | | T. Chinle | | T. | |
| T. Penn | 10,914' | T. | | T. Permain | | T. | |
| T. Cisco (Bough C) | | T. | | T. Penn "A" | | T. | |

## OIL OR GAS SANDS OR ZONES

No. 1, from 11,534'-11,602' to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3, from ..... to ..... feet .....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness in Feet | Lithology | From | To | Thickness in Feet | Lithology |
|---|---|---|---|---|---|---|---|
| 0' | 429' | 429' | Sand, gravel & caliche | 8150' | 8575' | 425 | Dolomite & shale |
| 429' | 1862' | 1433' | Redbeds | 8575' | 9222' | 647' | Dolomite |
| 1862' | 1962' | 100' | Anhydrite | 9222' | 9534' | 312 | Dolomite & shale |
| 1962' | 3020' | 1058' | Salt & anhydrite | 9534' | 9711' | 177 | Dolomite |
| 3020' | 3048' | 28' | Anhydrite | 9711' | 10022' | 311 | Limestone |
| 3048' | 3310' | 262' | Sand, dolomite,&anhydrite | 10022' | 10668' | 646 | Limestone & shale |
| 3310' | 3911' | 601' | Dolomite,anhydrite&sand | 10668' | 10914' | 246' | Limestone & chert |
| 3911' | 4346' | 435' | Sand,dolomite,&anhydrite | 10914' | 11528' | 614' | Shale & limestone |
| 4346' | 4702' | 356' | Dolomite & anhydrite | 11528' | 11726' | 198' | Limestone |
| 4702' | 6539' | 1837' | Dolomite | 11726' | 11781' | 55 | Sand, limestone & shale |
| 6539' | 6842' | 303' | Sand & dolomite | 11781' | 11872' | 91' | Shale |
| 6842' | 7422' | 580' | Dolomite | | | | |
| 7422' | 7677' | 255' | Sand & dolomite | | | | |
| 7677' | 8150' | 473' | Dolomite | | | | |

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French, Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-105
Revised March 25, 1999

WELL API NO. 30-025-32291
5. Indicate Type Of Lease STATE [X] FEE [ ]
6. State Oil & Gas Lease No.

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER _____

b. Type of Completion: NEW WELL [ ] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR [ ] OTHER Sidetrack

7. Lease Name or Unit Agreement Name: West Lovington Strawn Unit

2. Name of Operator: Energen Resources Corporation

8. Well No. 8

3. Address of Operator: 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705

9. Pool name or Wildcat: Lovington; Strawn, West

4. Well Location BHL: L 1870/S & 859/W

Unit Letter L : 1980 Feet From The South Line and 660 Feet From The West Line

Section 34 Township 15S Range 35E NMPM Lea County

| 10. Date Spudded | 11. Date T.D. Reached | 12. Date Compl. (Ready to Prod.) | 13. Elevations (DF & RKB, RT, GR, etc.) | 14. Elev. Casinghead |
|---|---|---|---|---|
| 7/6/06 | 8/2/06 | 10/13/06 | 3970' | |

| 15. Total Depth | 16. Plug Back T.D. | 17. If Multiple Compl. How Many Zones? | 18. Intervals Drilled By | Rotary Tools | Cable Tools |
|---|---|---|---|---|---|
| 11,887' | 11,796' | | | X | |

19. Producing Interval(s), of this completion - Top, Bottom, Name: 11,520' - 11.592' Strawn

20. Was Directional Survey Made

21. Type Electric and Other Logs Run: CBL/VDL/CMT/GR/CCL Platform Express, NGT Sonic & CMR

22. Was Well Cored: No

23. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 13-3/8" | 48# | 391' | 17-1/2" | 400 sx Class "C" | |
| 8-5/8" | 32# | 4735' | 11" | 550sx Class "C", 20 | |
| | | | | 35/65 POZ Class "C" | |
| 5-12/" | 17# | 11,887' | 7-7/8" | 1000sx 35/65 Poz "H" and | |
| | | | | 500sx 50/50 POZ "H" | |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|---|---|---|---|---|
| | | | | |
| | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|---|---|---|
| 2-3/8" | 11,464' | 11,473' |

26. Perforation record (interval, size, and number)

4" EXP 120-degree phase JSPF - .42"
11,520-11,540' (30 holes) and 11,546-11,592' (138 holes)

27. ACID, SHOT, FRACTURE, CEMENT, SQEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|---|---|
| 11,530-11,592' | 5M gals of 15% HCL/DI acid w/lab tested additives and 325 ball sealers. |

28. PRODUCTION

| Date First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |
|---|---|---|
| 10-16-06 | Submersible pump | Producing |

| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|---|---|---|---|---|---|---|---|
| 10-16-06 | 24 | | | 1 | 200 | 500 | 200,000 |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API -(Corr.) |
|---|---|---|---|---|---|---|
| | | | | | | 45 |

29. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold

Test Witnessed By

30. List Attachments: Deviation survey, 2 gyro reports, logs C-102

31. *I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief*

Signature Carolyn Larson Printed Name Carolyn Larson Title Regulatory Analyst Date 11-15-06

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico | | | | Northeastern New Mexico | |
|---|---|---|---|---|---|
| T. Anhy | | T. Canyon | | T. Ojo Alamo | T. Penn. "B" |
| T. Salt | | T. Strawn | ~11,500 | T. Kirtland-Fruitland | T. Penn. "C" |
| B. Salt | | T. Atoka | 11,760 | T. Pictured Cliffs | T. Penn. "D" |
| T. Yates | 3040 | T. Miss | | T. Cliff House | T. Leadville |
| T. 7 Rivers | 3205 | T. Devonian | | T. Menefee | T. Madison |
| T. Queen | 3890 | T. Silurian | | T. Point Lookout | T. Elbert |
| T. Grayburg | 4345 | T. Montoya | | T. Mancos | T. McCracken |
| T. San Andres | 4625 | T. Simpson | | T. Gallup | T. Ignacio Otzte |
| T. Glorieta | 6250 | T. McKee | | Base Greenhorn | T. Granite |
| T. Paddock | | T. Ellenburger | | T. Dakota | T. |
| T. Blinebry | 6840 | T. Gr. Wash | | T. Morrison | T. |
| T. Tubb | 7440 | T. Delaware Sand | | T. Todilto | T. |
| T. Drinkard | | T. Bone Springs | | T. Entrada | T. |
| T. Abo | 8200 | T. | | T. Wingate | T. |
| T. Wolfcamp | 9825 | T. | | T. Chinle | T. |
| T. Penn | | T. | | T. Permain | T. |
| T. Cisco (Bough C) | | T. | | T. Penn "A" | T. |

## OIL OR GAS SANDS OR ZONES

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3. from ..... to ..... feet .....

## LITHOLOGY RECORD ( Attach additional sheet if necessary)

| From | To | Thickness in Feet | Lithology | From | To | Thickness in Feet | Lithology |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

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

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

Form C-103
May 27, 2004

WELL API NO. 30-025-32291

5. Indicate Type of Lease STATE [X] FEE [ ]

6. State Oil & Gas Lease No.

## 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.)

7. Lease Name or Unit Agreement Name: West Lovington Strawn Unit

1. Type of Well: Oil Well [X] Gas Well [ ] Other

8. Well Number 8

2. Name of Operator: Energen Resources Corporation

9. OGRID Number 162928

3. Address of Operator: 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705

10. Pool name or Wildcat: Lovington, Strawn, West

4. Well Location

Unit Letter L : 1980 feet from the South line and 660 feet from the West line

Section 34 Township 15S Range 35E NMPM County Lea

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3970' GL

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: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | [ ] | PLUG AND ABANDON | [ ] | REMEDIAL WORK | [ ] | ALTERING CASING | [ ] |
| TEMPORARILY ABANDON | [ ] | CHANGE PLANS | [ ] | COMMENCE DRILLING OPNS. | [ ] | PLUG AND ABANDONMENT | [ ] |
| PULL OR ALTER CASING | [X] | MULTIPLE COMPLETION | [ ] | CASING TEST AND CEMENT JOB | [X] | | |
| OTHER: | [ ] | | | OTHER: | | | [ ] |

Received Hobbs OCD 2006 AUG 18 P 12:13

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.

8/2/06 - Reached TD of 11,887' in the 7-7/8" hole @ 7:30 am. RU Schlumberger WL, logger's TD was 11,885'. Ran Platform Express, NGT, Sonic & CMR logs.
8/3/06 -LD DC's & DP 8/4/06 Ran 5-1/2" casing. Ran total of 287 jts 5-1/2" HCL-80 & L-80 17.00# LT&C R-3 casing 11,893', set @ 11,887'. Cemented w/1000 sacks of 35/65 Poz "H" with a yield of 2.26. Tailed w/500 sacks of 50/50 Poz "H" w/a yield of 1.31. Total of both slurries was 2915 cu.ft. Plug was down w/3000-3500# @ 3:45 pm. 8/4/06. Circulated 248 sacks of cmt to the reserve.
Released Bi Dog's Rig #1 @ 3:00 a.m. 8/5/06.

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 Carolyn Larson TITLE Regulatory Analyst DATE 8/7/06

E-mail address: clarson@energen.com

Type or print name Carolyn Larson Telephone No. 432-684-3693

**For State Use Only**

APPROVED BY _____ TITLE PETROLEUM ENGINEER DATE AUG 22 2006

Conditions of Approval, if any:

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025-32291

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No. 27820

## 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.)

7. Lease Name or Unit Agreement Name: West Lovington Strawn Unit

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator: Energen Resources Corporation

8. Well No. 8

3. Address of Operator: 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705

9. Pool name or Wildcat: Lovington, Strawn, West

4. Well Location

Unit Letter L : 1980 feet from the South line and 660 feet from the West line

Section 34 Township 15S Range 35E NMPM County Lea

10. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 3970' GL

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

| NOTICE OF INTENTION TO: | | | | SUBSEQUENT REPORT OF: | | | |
|---|---|---|---|---|---|---|---|
| PERFORM REMEDIAL WORK | ☐ | PLUG AND ABANDON | ☐ | REMEDIAL WORK | ☐ | ALTERING CASING | ☐ |
| TEMPORARILY ABANDON | ☐ | CHANGE PLANS | ☐ | COMMENCE DRILLING OPNS. | ☐ | PLUG AND ABANDONMENT | ☐ |
| PULL OR ALTER CASING | ☐ | MULTIPLE COMPLETION | ☐ | CASING TEST AND CEMENT JOB | ☒ | | |
| OTHER: | ☐ | | | OTHER: | ☐ | | |

12. 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 recompilation. MIRU Great Basin's Rig #225, PU on tbg, release pkrs & SLMOOH w/tbg & pkrs. RIH w/5 ½" cmt retainer & 357 jts of 2 7/8" tbg to 11,452' test tbg for leak. Isolate csg leak betwwen 5575 – 5731', release pkr @ 5575' & POOH w/176 jts 2 7/8" N-80 tbg, SN, XO & pkr. Stung into retainer @ 11,448. RU BJ Services on tbg & spot 500 gals 15% HCL w/additives using FKCLW to within 2 bbls of EOT, stung back into retainer & put acid away. Batch mix 150 sx CL "H" cmt & pumped @ 3 BPM, SD & pressure held solid. Stung out of retainer & reverse out 11 bbls cmt to pit. RIH w/a 2nd retainer, set @ 5506' batch mix 100 sx Cl "C", 200 sx 50/50 Poz "C" w/10% Gel, tailed w/the 100 sx batch mixed cmt & pmpd @ 3 ½ BPM, stung out of retainer & reverse out 2 bbls cmt to pit w/70 BFW. Sqz 80 sx into formation, RD BJ Services. POOH w/tbg, SN XO & setting tool. PU RIH w/4 5/8" HTC skirted mill tooth bit, 6 3 ½" DC's, 168 jts 2 7/8" tbg. Tag at 5504' & RU the swivel & JUS. Drld cmt down to 5774', fell out @ 5839'. RIH & circ hole clean, tested sqz. RIH w/an additional 168 jts 2 7/8" tbg & tagged up @ 11,437'. RU & drld from 11,437' down to retainer @ 11,448', circ hole clean, drld down to 11,823'. Ran CBL/GR/CCL log to PBTD of 11,814' back up to 9,800', good bond through squeezed interval, across interval to be perforated. Perforate lower Strawn from 11,584-11,592'. Ran 2 7/8" N-80 6.50# tbg down to 11,583'. Spot 500 gals 15% HCL acid @ 11,600'. POOH w/the coil-tbg & RD BJ CoilTech. RU BJ Services on csg to monitor during acid put away & RU on tbg & pmpd 10 barrels of 2% FKCLW @ 3 BPM w/no pressure. Swab well w/no show of oil or gas. Well is SI.

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

SIGNATURE Sharon Hindman TITLE Regulatory Analyst DATE 08/07/2002

Type or print name Sharon Hindman Telephone No. 915 684-3693

(This space for State use)

APPROVED BY _____ TITLE _____ DATE AUG 12 2002

Conditions of approval, if any:

ORIGINAL SIGNED BY
GARY W. WINK
OC FIELD REPRESENTATIVE II/STAFF MANAGER

# ENERGEN RESOURCES CORP

**WLSU #009**

**(formerly Snyder "S" Com No. 2)**

**LEA COUNTY, NM**

**GL Elevation:** 3968'

**KB Elevation:** 3983.5' -- 15.5' above GL

**Location:** 660' FSL X 1200' FWL
Sec 34-15S-35E

**Spud:** 8/6/06

**API :** 30-025-32812

**Current Condition Pumping**
3/2/2009

**Conductor:**
None

**Surface Casing:**
13-3/8" 48#, Ltd. SVS @ 405'
Cemented to surface
with 440 sx Class "C" w/2% CaCl2
Circulated 42 sx

405'

**Intermediate Casing:**
8-5/8" 32#, S-80 ST&C & J-55 ST&C
@ 4723'
700 sx total
(L) 500 sx Class "C" lite
(T) 200 sx Class "C" w/2% CaCl2
TOC: 2500'

4723'

**Strawn Perfs:** 11,526'-11,530'
**Strawn Perfs:** 11,534'-11,546'
**Strawn Perfs:** 11,556'-11,563'
**Strawn Perfs:** 11,569'-11,582'

**Production Casing:**
5-1/2" 17# & 20# ,L-80 @ 11,865'
Cmt w/ 1000 sx 35/65 "H",
and w/ 500sx 50/50 "H"
Circulated 184 sx

**PBD:** 11,775'

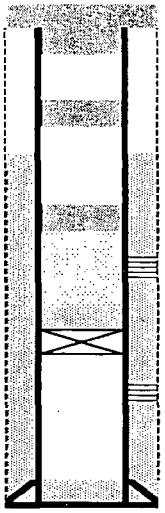
**TD:** 11,865'

## Original Plugged Hole

**Spud:** 01/18/1995

**Casing Part at 5749'**

TOC: 9220'



**Cement 150 sx from ~5770' to 5327"**

**Cement 50 sx from ~8205' to 7760'**

**Cement cap from ~11205 to 11430**
**Sand plug from 11430 to 11710**

**Strawn Perfs:** 11,512-11,524'
**Strawn Perfs:** 11,532-11,538'
**Strawn Perfs:** 11,538-11,550'

CIBP @ 11,710' (2 sx cmt on top of plug)

**Strawn Perfs:** 11,732-11,746'

**PBD:** 11,770'; +11,710' (CIBP w/ 2 sx cmt)

**TD:** 11,838'

rlandon3/3/2009

# ENERGEN RESOURCES CORPORATION

**WLSU #020-ST**

**GL Elevation:** 3964'
**KB Elevation:** 3980'
**Location:** 1980' FNL X 1980' FWL,
Sec 34, T-15-S, R-35-E
**Spud:** 4/29/2002
**API:** 30-025-35586

**Lea County, NM**

**Current Condition-Pumping**
3/2/2009

**Conductor:**
NA

411'

**Surface Casing:**
13-3/8" 48#, H-40 ST&C
@ 411' in 17-1/2" hole
Cement to surface
w/ 300 sx Class "C" + 4% gel + 2% CaCl2
& 1/4# of Cello Flake/sx,
FB 100 Sx Class "C" + 2% CaCl2
& 1/4# of Cello Flake/sx,
Ciculated 96 sx to pit

**TOC: 3600' by CBL**

4827'

**Intermediate Casing:**
8-5/8" 32#, K-55 & HCK-55 @ 4827'
cmt w/
1,500 sx 50/50 Poz "C" + 10% Gel,
5% Salt, 3# Gilsonite, 1/4#/sack
Tailed w/ 200 sx Class "C" + 1% CaCl2,
Gilsonite, 1/4#sack Cello Flakes
Circulated 205 sx to pit
TOC: Surface'

**NOTE: Cut & Pulled original 5-1/2" casing @ 8200'. Side tracked hole at 8000'**

**Strawn Perfs:11,615'-11,619' (8 holes) 6/02**

**Cement Retainer @ 11,624'**
**Perfs: 11,628' - 11,636' sqzd 6/02**

**Production Casing:**
5 1/2" HCL-80 & L-80 17.00# set @ 11,830'
w/400 sx Cl "H" + additives tailed with
900 sx 50/50 Poz/ "H" + additives

**PBD:** 11,733'
**TD:** 11,830'

**Plugged Original Hole**

**200 sx Plug 8297'- 8000'**

**TOC: 8550' by CBL**

**CIBP @ 11,550 plus 2 sx cement**

**Strawn Perfs: 11,628'-11,636' Sqzd w/100 sx "H"**
**Re-perf: 11,550'- 11,584'**
**Cement Retainer @ 11,578'**
**Sqz Perfs: 11,595' - 11,596' Sqzd w/50 sx Class "H"**

**Production Casing:**
5 1/2" HCL-80 & L-80 17.00# set @ 11,902'
w/ 800 sx 50/50 Poz/ "H" + 1# salt,
2% gel, .5% FL-25, .5% FL-52 & 1/4# of
Cello Flake/sx
TOC: 8550' by CBL

**PBD:** 11,840'
**TD:** 11,902'

Submit to Appropriate District Office
State Lease – 6 copies
Fee Lease – 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL API NO. 30-025-32812
5. Indicate Type of Lease STATE [X] FEE [X]
6. State Oil & Gas Lease No.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL [X] GAS WELL [ ] DRY [ ] OTHER
b. Type of Completion: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF RESVR [ ] OTHER
7. Lease Name or Unit Agreement Name: Snyder "S" Com
2. Name of Operator: Charles B. Gillespie, Jr.
8. Well No. 2
3. Address of Operator: P. O. Box 8 Midland, Texas 79702
9. Pool name or Wildcat: West Lovington Strawn
4. Well Location
Unit Letter M : 660 Feet From The South Line and 1200 Feet From The West Line
Section 34 Township 15-S Range 35-E NMPM Lea County

| 10. Date Spudded | 11. Date T.D. Reached | 12. Date Compl. (Ready to Prod.) | 13. Elevations (DF& RKB, RT, GR, etc.) | 14. Elev. Casinghead |
|---|---|---|---|---|
| 1/18/95 | 2/13/95 | 4/13/95 | 3968 GR | 3968 GR |

| 15. Total Depth | 16. Plug Back T.D. | 17. If Multiple Compl. How Many Zones? | 18. Intervals Drilled By | Rotary Tools | Cable Tools |
|---|---|---|---|---|---|
| 11,839' | 11,695' | | | XX | |

19. Producing Interval(s), of this completion - Top, Bottom, Name: 11,538-11,550' Strawn
20. Was Directional Survey Made: No
21. Type Electric and Other Logs Run: DLL/MSFL, CNL/GR, BHCSL/GR
22. Was Well Cored: No

CONFIDENTIAL

23. **CASING RECORD** (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 13-3/8" | 48 | 405' | 17-1/2" | 440 sx | |
| 8-5/8" | 32 | 4743' | 11" | 700 sx | |
| 5-1/2" | 17 | 11834' | 7-7/8" | 545 sx | |
| | | | | | |
| | | | | | |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|---|---|---|---|---|
| | | | | |
| | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|---|---|---|
| 2-7/8" | 11,551' | 11,459' |
| | | |

26. Perforation record (interval, size, and number)
11,538-11,550', 2 spf, 25 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|---|---|
| | |
| Natural | |
| | |

28. **PRODUCTION**

| Date First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |
|---|---|---|
| 4/13/95 | Flowing | Prod. |

| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|---|---|---|---|---|---|---|---|
| 4/13/95 | 24 | 24/64 | | 308 | 564 | 0 | 1831 |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API - (Corr.) |
|---|---|---|---|---|---|---|
| 400 | Pkr | | 308 | 564 | 0 | 46 |

29. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold
Test Witnessed By: Albert Hobbs
30. List Attachments: Electric Logs, Deviation Survey
31. *I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief*

Signature [signature] Printed Name Kevin Widner Title Prod. Mgr. Date 4/17/95

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico | | | | Northwestern New Mexico | | | |
|---|---|---|---|---|---|---|---|
| T. Anhy | 1862' | T. Canyon | | T. Ojo Alamo | | T. Penn. "B" | |
| T. Salt | 1962' | T. Strawn | 11494' | T. Kirtland-Fruitland | | T. Penn. "C" | |
| B. Salt | 3023' | T. Atoka | 11759' | T. Pictured Cliffs | | T. Penn. "D" | |
| T. Yates | 3050' | T. Miss | | T. Cliff House | | T. Leadville | |
| T. 7 Rivers | | T. Devonian | | T. Menefee | | T. Madison | |
| T. Queen | 3918' | T. Silurian | | T. Point Lookout | | T. Elbert | |
| T. Grayburg | | T. Montoya | | T. Mancos | | T. McCracken | |
| T. San Andres | 4714' | T. Simpson | | T. Gallup | | T. Ignacio Otzte | |
| T. Glorieta | 6548' | T. McKee | | Base Greenhorn | | T. Granite | |
| T. Paddock | | T. Ellenburger | | T. Dakota | | T. | |
| T. Blinebry | | T. Gr. Wash | | T. Morrison | | T. | |
| T. Tubb | 7432' | T. Delaware Sand | | T. Todilto | | T. | |
| T. Drinkard | | T. Bone Springs | | T. Entrada | | T. | |
| T. Abo | 8144' | T. | | T. Wingate | | T. | |
| T. Wolfcamp | 9700' | T. | | T. Chinle | | T. | |
| T. Penn | 10918' | T. | | T. Permain | | T. | |
| T. Cisco (Bough C) | | T. | | T. Penn "A" | | T. | |

## OIL OR GAS SANDS OR ZONES

No. 1, from 11,534' to 11,602' No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3, from ..... to ..... feet .....

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness in Feet | Lithology | From | To | Thickness in Feet | Lithology |
|---|---|---|---|---|---|---|---|
| 0' | 429' | 429' | Sand, gravel & caliche | 8144' | 8578' | 425' | Dolomite & shale |
| 429' | 1862' | 1433' | Redbeds | 8578' | 9220' | 647' | Dolomite |
| 1862' | 1962' | 100' | Anhydrite | 9220' | 9524' | 312' | Dolomite & shale |
| 1962' | 3023' | 1058' | Salt & anhydrite | 9524' | 9701' | 177' | Dolomite |
| 3023' | 3050' | 28' | Anhydrite | 9701' | 10020' | 311' | Limestone |
| 3050' | 3315' | 262' | Sand, dolomite & anhydrite | 10020' | 10668' | 646' | Limestone & shale |
| 3315' | 3918' | 601' | Dolomite, anhydrite & sand | 10668' | 10918' | 246' | Limestone & chert |
| 3918' | 4350' | 435' | Sand, dolomite & anhydrite | 10918' | 11494' | 614' | Shale & limestone |
| 4350' | 4714' | 356' | Dolomite & anhydrite | 11494' | 11692' | 198' | Limestone |
| 4714' | 6548' | 1837' | Dolomite | 11735' | 11759' | 55' | Sand, limestone & shale |
| 6548' | 6835' | 303' | Sand & dolomite | 11759' | 11838' | 91' | Shale |
| 6835' | 7432' | 580' | Dolomite | | | | |
| 7432' | 7670' | 255' | Sand & dolomite | | | | |
| 7670' | 8144' | 473' | Dolomite | | | | |

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French, Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-105
Revised March 25, 1999

WELL API NO. 30-025-32812
5. Indicate Type Of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER
b. Type of Completion: NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER Sidetrack

7. Lease Name or Unit Agreement Name: West Lovington Strawn Unit

2. Name of Operator: Energen Resources Corporation
8. Well No.: 9
3. Address of Operator: 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705
9. Pool name or Wildcat: Lovington; Strawn, West

4. Well Location
Unit Letter M : 660 Feet From The South Line and 1200 Feet From The West Line
Section 34 Township 15S Range 35E NMPM Lea County

| 10. Date Spudded | 11. Date T.D. Reached | 12. Date Compl. (Ready to Prod.) | 13. Elevations (DF & RKB, RT, GR, etc.) | 14. Elev. Casinghead |
|---|---|---|---|---|
| 8-8-06 | 8-29-06 | 10-30-06 | GR 3968' | |

| 15. Total Depth | 16. Plug Back T.D. | 17. If Multiple Compl. How Many Zones? | 18. Intervals Drilled By | Rotary Tools | Cable Tools |
|---|---|---|---|---|---|
| 11,865' | 11,775' | | | XX | |

19. Producing Interval(s), of this completion - Top, Bottom, Name: 11,526' - 11,582' Strawn
20. Was Directional Survey Made: Yes
21. Type Electric and Other Logs Run: Platform Express CBL/VDL/CMT/GR/CCL
22. Was Well Cored: No

23. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 13-3/8" | 48# | 405' | 17-1/2" | 440sx Class "C" | |
| 8-5/8" | 32# | 4723' | 11" | 700 sx Class "C" | |
| 5-1/2" | 17# | 11,865' | 7-7/8" | 1500sx Poz "H" | |
| | | | | | |
| | | | | | |

Received 2007

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|---|---|---|---|---|
| | | | | |
| | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|---|---|---|
| 2-3/8" | 11,584' | |
| | | |

26. Perforation record (interval, size, and number)
11,526-11,530' - 12 holes
11,534-11,546' - 36 holes
11,556-11,563' - 21 holes
11,560-11,582' - 39 holes
all perfs 0.42"
total of 108 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|---|---|
| 11,526-11,582' | Acidized w/5M gallons 15% HCL/DI |
| | w/additives |
| | |

28. PRODUCTION

| Date First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |
|---|---|---|
| 10/31/06 | Submersible pump | Producing |

| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|---|---|---|---|---|---|---|---|
| 10-31-06 | 24 | | | 125 | 258 | 500 | 2064 |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API - (Corr.) |
|---|---|---|---|---|---|---|
| | | | | | | 45.0 |

29. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold
Test Witnessed By

30. List Attachments: C-102, C-104, Logs, Deviation survey, Gyro report

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Carolyn Larson Printed Name Carolyn Larson Title Regulatory Analyst Date

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico | | | Northeastern New Mexico | | |
|---|---|---|---|---|---|
| T. Anhy | T. Canyon | | T. Ojo Alamo | T. Penn. "B" | |
| T. Salt | T. Strawn | 11,510 | T. Kirtland-Fruitland | T. Penn. "C" | |
| B. Salt | T. Atoka | 11,730 | T. Pictured Cliffs | T. Penn. "D" | |
| T. Yates | T. Miss | | T. Cliff House | T. Leadville | |
| T. 7 Rivers | T. Devonian | | T. Menefee | T. Madison | |
| T. Queen | T. Silurian | | T. Point Lookout | T. Elbert | |
| T. Grayburg | T. Montoya | | T. Mancos | T. McCracken | |
| T. San Andres | T. Simpson | | T. Gallup | T. Ignacio Otzte | |
| T. Glorieta | T. McKee | | Base Greenhorn | T. Granite | |
| T. Paddock | T. Ellenburger | | T. Dakota | T. | |
| T. Blinebry | T. Gr. Wash | | T. Morrison | T. | |
| T. Tubb | T. Delaware Sand | | T. Todilto | T. | |
| T. Drinkard | T. Bone Springs | | T. Entrada | T. | |
| T. Abo | T. | | T. Wingate | T. | |
| T. Wolfcamp | 9845 T. | | T. Chinle | T. | |
| T. Penn | T. | | T. Permain | T. | |
| T. Cisco (Bough C) | T. | | T. Penn "A" | T. | |

## OIL OR GAS SANDS OR ZONES

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3. from ..... to ..... feet .....

## LITHOLOGY RECORD ( Attach additional sheet if necessary)

| From | To | Thickness in Feet | Lithology | From | To | Thickness in Feet | Lithology |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French, Hobbs, NM 88240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Ener Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-105
Revised March 25, 1999

WELL API NO. 30-025-35586
5. Indicate Type Of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No. 027820

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER Sidetrack

7. Lease Name or Unit Agreement Name: West Lovington Strawn Unit

2. Name of Operator: Energen Resources Corporation
8. Well No. 20

3. Address of Operator: 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705
9. Pool name or Wildcat: Lovington, Strawn, West

4. Well Location
Unit Letter F : 1980 Feet From The North Line and 1980 Feet From The West Line
Section 34 Township 15-S Range 35-E NMPM Lea County

| 10. Date Spudded | 11. Date T.D. Reached | 12. Date Compl. (Ready to Prod.) | 13. Elevations (DF & RKB, RT, GR, etc.) | 14. Elev. Casinghead |
|---|---|---|---|---|
| 9/5/01 | 5/21/02 | 6/10/02 | GL 3964' KB 3982' | 3964' |

| 15. Total Depth | 16. Plug Back T.D. | 17. If Multiple Compl. How Many Zones? | 18. Intervals Drilled By | Rotary Tools | Cable Tools |
|---|---|---|---|---|---|
| 11,830' | 11,781' | NA | | X | |

19. Producing Interval(s), of this completion - Top, Bottom, Name: 11,582' - 11,619'
20. Was Directional Survey Made: Yes

21. Type Electric and Other Logs Run: CBL/GR/CCL Cased Hole, Open Hole Logs
22. Was Well Cored: No

23. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 13 3/8" | 48# H-40 | 411' | 17 1/2" | 400 sx Cl C | |
| 8 5/8" | 32# HCK-55 | 4827' | 11" | 1700 sx 50/50 Poz C | |
| 5 1/2" | 17# HCL-80 | 11,830' | 7 7/8" | 1300 sx Cl H 50/50 Poz | |
| | | | | | |
| | | | | | |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|---|---|---|---|---|
| | | | | |
| | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|---|---|---|
| 2 3/8" | 11,526' | 11,535' |
| | | |

26. Perforation record (interval, size, and number)
11,615-11,619' 180 deg ph JSPF 0.44 diameter 8 holes
11,628-11,636' 120 deg ph JSPF 0.45" diameter 24 holes
11,582-11,612 180 deg ph JSPF 0.25" diameter 120 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|---|---|
| 11,582-11,636' | 12 gals 20% HCL |
| 11,615-11,619' | 12 gals 20% HCL |
| 11,628-11,636' | 150 gals 15% HCL w/additives |
| | Sqz w/50 sx Cl H & 7 12 bbls SqC |

28. PRODUCTION

| Date First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |
|---|---|---|
| 6/10/2002 | Flowing | Prod. |

| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|---|---|---|---|---|---|---|---|
| 7/8/2002 | 24 | 48/64 | | 180 | 368 | 313 | 1739 |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API -(Corr.) |
|---|---|---|---|---|---|---|
| 120# | 0 | | 180 | 368 | 313 | 43 |

29. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold
Test Witnessed By

30. List Attachments: C-104, C-103, Deviation Rpt., Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Sharon Hindman Printed Name Sharon Hindman Title Regulatory Analyst Date 07/09/2002

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico | | | | Northeastern New Mexico | | | |
|---|---|---|---|---|---|---|---|
| T. Anhy | | T. Canyon | 11,280 | T. Ojo Alamo | | T. Penn. "B" | |
| T. Salt | | T. Strawn | 11,540 | T. Kirtland-Fruitland | | T. Penn. "C" | |
| B. Salt | | T. Atoka | | T. Pictured Cliffs | | T. Penn. "D" | |
| T. Yates | | T. Miss | | T. Cliff House | | T. Leadville | |
| T. 7 Rivers | | T. Devonian | | T. Menefee | | T. Madison | |
| T. Queen | | T. Silurian | | T. Point Lookout | | T. Elbert | |
| T. Grayburg | | T. Montoya | | T. Mancos | | T. McCracken | |
| T. San Andres | | T. Simpson | | T. Gallup | | T. Ignacio Otzte | |
| T. Glorieta | 6,235 | T. McKee | | Base Greenhorn | | T. Granite | |
| T. Paddock | | T. Ellenburger | | T. Dakota | | T. | |
| T. Blinebry | | T. Gr. Wash | | T. Morrison | | T. | |
| T. Tubb | 7,410 | T. Delaware Sand | | T. Todilto | | T. | |
| T. Drinkard | | T. Bone Springs | | T. Entrada | | T. | |
| T. Abo | 8,180 | T. Clearfork | 6,800 | T. Wingate | | T. | |
| T. Wolfcamp | 10,070 | T. | | T. Chinle | | T. | |
| T. Penn | | T. | | T. Permain | | | |
| T. Cisco (Bough C) | 10,922 | T. | | T. Penn "A" | | T. | |

## OIL OR GAS SANDS OR ZONES

No. 1, from ... to ... No. 3, from ... to ...

No. 2, from ... to ... No. 4, from ... to ...

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ... to ... feet

No. 2, from ... to ... feet

No. 3, from ... to ... feet

## LITHOLOGY RECORD (Attach additional sheet if necessary)

| From | To | Thickness in Feet | Lithology | From | To | Thickness in Feet | Lithology |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

# *ENERGEN RESOURCES CORP*

**WLSU #002**

**(formerly Hamilton Federal No. 2)**

**LEA COUNTY, NM**

**GL Elevation:** 3970.5'

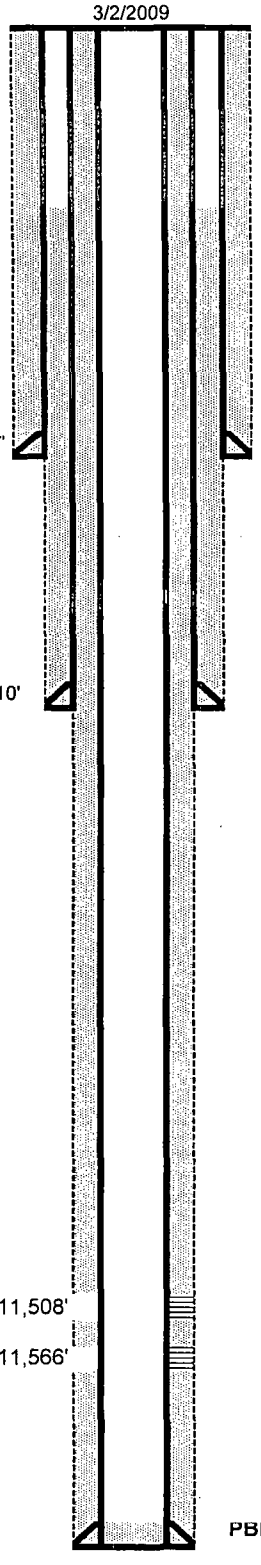
**KB Elevation:** 3988' -- 15.5' above GL

**Location:** 330' FSL X 725' FEL
Sec 33-15S-35E

**Spud:** 10/25/1992

**API :** 30-025-31767

**Current Condition Rod Pump**
3/2/2009




**Conductor:**
None

**Surface Casing:**
13-3/8" 54.5#, J-55 @ 417'
Cemented to surface
with 440 sx Class "C" w/2% CaCl2
Circulated 50 sx

**Intermediate Casing:**
8-5/8" 32#, J-55 @ 4610'
(L) 1225 sx Class "C" 35/65 poz w/
3 lbs/sx salt + 1lb/sx Gilsonite
(T) 200 sx Class "C" w/1% CaCl2
(Circulated 125 sx)

**Strawn Perfs:** 11,476' -11,508'

**Strawn Perfs:** 11,542' -11,566'

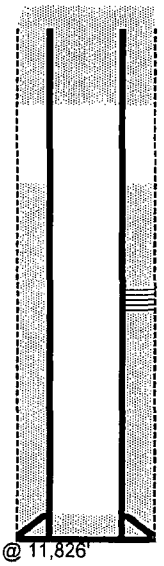
**Production Casing:**
5-1/2" 17# ,N-80 & S-95 @ 11,826'
750 sx Class "H" containing 0.7%
FL-20, 3% A-9, 0.2% FWC-2 and
0.2% FP-8
TOC: 9200'

**PBD:** 11,792'

**TD:** 11,872'

## Original Hole Plugged

**Feb-05**
**Casing Leaks from 5300 to 6300'**
**Casing cut at 8005'**
**Pump 490 sx class H cement from cut at 8005'**



TOC: 9200'

**Strawn Perfs:** 11,538-11580'

**Production Casing:**
5-1/2" 17# ,N-80 & S-95 @ 11,826'
750 sx Class "H" containing 0.7%
FL-20, 3% A-9, 0.2% FWC-2 and
0.2% FP-8

**PBD:** 11,784'

**TD:** 11,825'

rlandon3/3/2009

Form 3160-4
(October 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N. M. OIL CONS. DIVISION
P. O. BOX 1980
HOBBS, NEW MEXICO 88240

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] DRY [ ] Other

JAN 29 3 3 PM '93

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

CONFIDENTIAL

2. NAME OF OPERATOR: Charles B. Gillespie, Jr.

3. ADDRESS AND TELEPHONE NO.: P.O. Box 8 Midland, TX 79702 (915)683-1765

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 330' FSL & 725' FEL, Unit P
At top prod. interval reported below Same
At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.: NM 04411
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME, WELL NO.: Hamilton Federal No. 2
9. API WELL NO.: 30-025-31767
10. FIELD AND POOL, OR WILDCAT: West Lovington Strawn
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Section 33, T-15-S, R-35-E

| 14. PERMIT NO. | DATE ISSUED | 12. COUNTY OR PARISH | 13. STATE |
|---|---|---|---|
| 30-025-31767 | 10-28-92 | Lea | New Mexico |

| 15. DATE SPUDDED | 16. DATE T.D. REACHED | 17. DATE COMPL. (*Ready to prod.*) | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* | 19. ELEV. CASINGHEAD |
|---|---|---|---|---|
| 10/25/92 | 11/20/92 | 1/07/93 | 3970.5' GR, 3988' KB | 3970.5' |

| 20. TOTAL DEPTH, MD & TVD | 21. PLUG, BACK T.D., MD & TVD | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY | ROTARY TOOLS | CABLE TOOLS |
|---|---|---|---|---|---|
| 11,825' MD&TVD | 11,784' MD&TVD | ---------- | → | 0-11,825' | ------- |

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 11,538-11,580' MD & TVD, Strawn

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: CNL/CPD/GR, DLL/MSFL/GR, BHCSL/GR, CCL/GR

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 13 3/8" H-40 | J-55 48#&54.50# | 417' | 17 1/2" | 440 sx. Class "C", Circ. | 50 sx. |
| 8 5/8" J-55 | 32# | 4610' | 11" | 1425 sx Class "C", Circ. | 125 sx. |
| 5 1/2" N-80 | S-95 17# | 11,825' | 7 7/8" | 750 sx Class "H", TOC @ 9200'. | |

29. LINER RECORD

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) |
|---|---|---|---|---|
| | | | | |

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| 2 7/8" | 11,488' | 11,451' |

31. PERFORATION RECORD (*Interval, size and number*)
11,538-11,580' W/2 spf, .51" diameter, total 77 holes.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---|---|
| 11,538-11,580' | Natural |

CONFIDENTIAL

33.* PRODUCTION

| DATE FIRST PRODUCTION | PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*) | WELL STATUS (*Producing or shut-in*) |
|---|---|---|
| 1/07/93 | Flowing | Producing |

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| 1/20/93 | 24 | 24/64" | → | 492 | 1026 | 0 | 2085 |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| 1550# | 0# | → | 492 | 1026 | 0 | 45° |

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Sold

TEST WITNESSED BY: Albert Hobbs

35. LIST OF ATTACHMENTS: Electric Logs, Deviation Surveys

ACCEPTED FOR RECORD
David R. Glass
JAN 28 1993
CARLSBAD, NEW MEXICO

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED William R. Crews TITLE Exploration Manager DATE 1/21/93

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, 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.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|---|---|---|---|
| Strawn | 11,538' | 11,580' | Limestone; oil and gas<br><br>DST #1 (Strawn) 11,500-11,575'<br>Tool open 1 hr. 5 mins. GTS in 6 mins., OTS in 18 mins. Flowed 60 bbls. oil on 1/4" choke with 1525# surface pressure. Reversed out 19 bbls. oil. Total recovery 79 bbls. oil. Sample chamber recovered 7.6 $ft^3$ gas and 1300 c.c. oil @ 2000 psig. Gravity 45° @ 60°F, GOR 935, BHT 174°F. IHP 5536#, IF 3654-3540#/5 min., ISI 4221#/60 min., FF 3471-4185#/60 min., FSI 4217#/330 min., FH 5528#. |

CONFIDENTIAL

38. GEOLOGIC MARKERS

| NAME | TOP MEAS. DEPTH | TOP TRUE VERT. DEPTH |
|---|---|---|
| Rustler | 1846' | 1846' |
| Salado | 1946' | 1946' |
| Yates | 3047' | 3047' |
| Queen | 3912' | 3912' |
| San Andres | 4700' | 4700' |
| Glorieta | 6536' | 6536' |
| Tubb | 7416' | 7416' |
| Abo | 8133' | 8133' |
| Wolfcamp | 9688' | 9688' |
| Pennsylvanian | 10,916' | 10,916' |
| Strawn | 11,498' | 11,498' |
| Atoka | 11,772' | 11,772' |



U.S. GOVERNMENT PRINTING OFFICE: 1991—574-226

Form 3160-4
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

**OCD-HOBBS**

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: NM04411

1a. Type of Well: [X] Oil Well [ ] Gas Well [ ] Dry Other

b. Type of Completion: [ ] New Well [ ] Work Over [ ] Deepen [ ] Plug Back [ ] Diff.Resvr,. Other Sidetrack

6. If Indian, Allotee or Tribe Name:

7. Unit or CA Agreement Name and No.: NM 91055X

2. Name of Operator: Energen Resources Corporation

8. Lease Name and Well No.: West Lovington Strawn Unit #2

3. Address: 3300 N. A St., Bldg. 4, Ste. 100 Midland, TX 79705

3a. Phone No. *(include area code)*: 432/687-1155

9. API Well No.: 30-025-31767

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface: 330' FSL & 725' FEL

At top prod. interval reported below: 91' FSL & 713' FEL

At total depth: 62' FSL & 718' FEL

10. Field and Pool, or Exploratory: Lovington; Strawn, West

11. Sec., T., R., M., or Block and Survey or Area: Sec. 33, T15S, R35E

12. County or Parish: Lea

13. State: NM

| 14. Date Spudded | 15. Date T.D. Reached | 16. Date Completed | 17. Elevations (DF, RKB, RT, GL)* |
|---|---|---|---|
| 11-7-06 | 11-26-06 | [ ] D & A [X] Ready to Prod. 1-6-07 | GL 3970' |

| 18. Total Depth: MD / TVD | 19. Plug Back T.D.: MD / TVD | 20. Depth Bridge Plug Set: MD / TVD |
|---|---|---|
| 11,872' | 11,785' | |

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

Platform Express, CBL/VDL/CMT/GR/CCL

22. Was well cored? [X] No [ ] Yes (Submit analysis)
Was DST run [X] No [ ] Yes (Submit report
Directional Survey? [ ] No [X] Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

| Hole Size | Size/Grade | Wt.(#ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No.of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 17-1/2" | 13-3/8" | 54.5# | Surf | 417' | | 440 Class C | | Circulated | |
| 11" | 8-5/8" | 32# | Surf | 4610' | | 1425 Class C | | Circulated | |
| 7-7/8" | 5-1/2" | 17# | | 11,872' | | 2000 Class H | 678 | Circulated | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|---|---|---|---|---|---|---|---|---|
| 2-3/8" | 11,372' | 11,381' | | | | | | |

25. Producing Intervals / 26. Perforation Record

| | Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|---|
| A) | Strawn | 11,484' | 11,566' | 11,476-11,508' | .42" | 96 | Open |
| B) | | | | 11,542-11,566' | .42" | 72 | Open |
| C) | | | | | | | |
| D) | | | | | | | |

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material |
|---|---|
| 11,476-11,566' | Acidized w/5000 gals 15% HCL/DI acid w/additives & 350-1.3 SG/RCN ball sealers. |
| | Acid frac w/50,000 gals Schlumberger's 50 Quality foamed acid system |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| 12-17-06 | 1-29-07 | 24 | → | 50 | 0 | 126 | 41 | | Pumping |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | Producing |

28a. Production-Interval B

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

ACCEPTED FOR RECORD
FEB 16 2007
LES BABYAK
PETROLEUM ENGINEER

28b. Production - Interval C

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Choke Size | Tbg. Press Flwg. SI | Csg. Press. | 24 Hr. → | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

28c. Production-Interval D

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. → | Oil BBL | Gas MCF | Water BBL | Gas: Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

29. Disposition of Gas *(Sold,used for fuel, vented, etc.)*

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top Meas.Depth |
|---|---|---|---|---|---|
| | | | No DSTS | Glorieta | 6245' |
| | | | | Clearfork | 6850' |
| | | | | Tubb | 7430' |
| Wolfcamp | 1054' | 10,568' | Porosity filled with connate water | Abo | 8180' |
| Strawn | 11,484' | 11,566' | Porosity filled with hydrocarbons and salt water | Cisco | 10,820' |
| | | | | Strawn | 11,480' |

32. Additional remarks (include plugging procedure):

33. Indicate which items have bee attached by placing a check in the appropriate boxes:

[X] Electrical/Mechanical Logs (1 full set req'd) [ ] Geologic Report [ ] DST Report [X] Directional Survey
[ ] Sundry Notice for plugging and cement verification [ ] Core Analysis [X] Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Carolyn Larson Title Regulatory Analyst

Signature Carolyn Larson Date 2-2-07

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

# *ENERGEN RESOURCES CORP*

**Warren M. snyder #1**

**LEA COUNTY, NM**

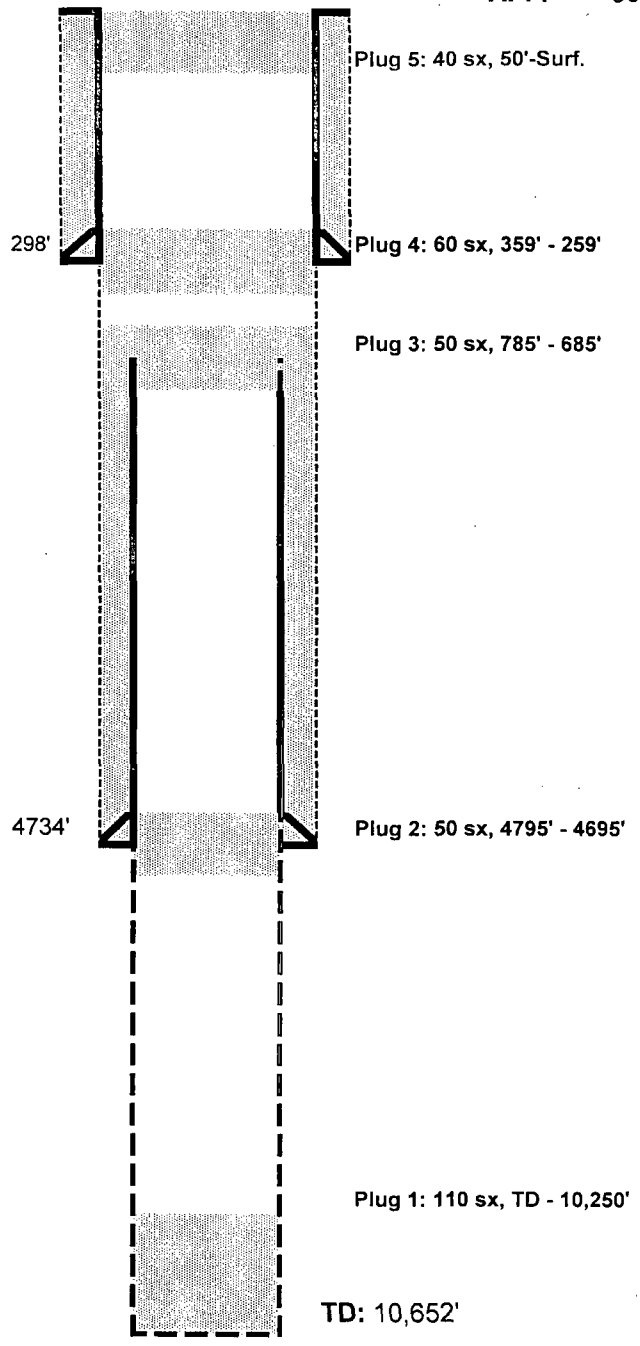
**P&A Dryhole**

**GL Elevation:**
**KB Elevation:** 3975'
**Location:** 330' FNL & 330' FWL
Unit D, Sec 6, T-16-S, R-36-E
**Spud**: 2/9/1956
**API :** 30-025-03733

Conductor:
None

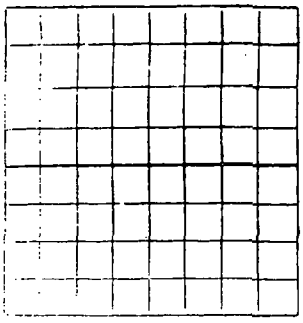
**Surface Casing:**
13-3/8" 48.0#, J-55 @ 298'
Cemented to surface
with 350 sx Class "C"

**Intermediate Casing:**
8-5/8" 24#, 32#, J-55 @ 4734'
2400 sx cement
Cut and pulled 735'




rlandon3/3/2009

Revised 7/1/52
(Form C-105)



AREA 640 ACRES
LOCATE WELL CORRECTLY

# NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE. If State Land submit 6 Copies

CABOT CARBON COMPANY (Company or Operator) WARREN H. SNYDER (Lease)

Well No. 1, in NW ¼ of NW ¼, of Sec. 6, T. 16 S, R. 36 E, NMPM.

Undesignated Pool, Lea County.

Well is 330 feet from North line and 330 feet from West line of Section 6. If State Land the Oil and Gas Lease No. is .....

Drilling Commenced 2-9, 19 56. Drilling was Completed 4-20, 19 56

Name of Drilling Contractor Warren-Bradshaw Exploration Company

Address National Bank of Tulsa, Oklahoma

Elevation above sea level at Top of Tubing Head 3975 D. F. The information given is to be kept confidential until ....., 19.....

### OIL SANDS OR ZONES

No. 1, from ..... to ..... No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

### CASING RECORD

| SIZE | WEIGHT PER FOOT | NEW OR USED | AMOUNT | KIND OF SHOE | CUT AND PULLED FROM | PERFORATIONS | PURPOSE |
|---|---|---|---|---|---|---|---|
| 13-3/8" O.D. | 48# | New | 298' Gr. | Baker | ---- | ---- | Surface |
| 8-5/8" O.D. | 24#,32# | New | 4734' Gr. | Baker | 730 Gr. | ---- | Intermediate |
| | | | | | | | |
| | | | | | | | |

### MUDDING AND CEMENTING RECORD

| SIZE OF HOLE | SIZE OF CASING | WHERE SET | NO. SACKS OF CEMENT | METHOD USED | MUD GRAVITY | AMOUNT OF MUD USED |
|---|---|---|---|---|---|---|
| 17" | 13-3/8" | 298' Gr. | 350 | B.J. Cementers | ---- | |
| 11" | 8-5/8" | 4734' Gr. | 1500 | B.J. Cementers | | |
| 7-7/8" | ---- | ---- | | | | |
| | | | | | | |

### RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Dry, plugged, and abandoned 4-20-56.

Result of Production Stimulation .....

Depth Cleaned Out .....

## RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

### TOOLS USED

Rotary tools were used from 0' feet to 10,654' T.D. feet, and from ... feet to ... feet

Cable tools were used from ... feet to ... feet, and from ... feet to ... feet

### PRODUCTION

Put to Producing ..., 19...

OIL WELLS: The production during the first 24 hours was ... barrels of liquid of which ... % was oil; ... % was emulsion; ... % water, and ... % was sediment. A.P.I. Gravity ...

GAS WELLS: The production during the first 24 hours was ... M.C.F. plus ... barrels of liquid Hydrocarbon. Shut in Pressure ... lbs.

Length of Time Shut in ...

### PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

| Southeastern New Mexico | | | Northwestern New Mexico | | |
|---|---|---|---|---|---|
| T. Anhy | 1853' | T. Devonian | | T. Ojo Alamo | |
| T. Salt | 1970' | T. Silurian | | T. Kirtland-Fruitland | |
| B. Salt | 2880' | T. Montoya | | T. Farmington | |
| T. Yates | 3050' | T. Simpson | | T. Pictured Cliffs | |
| T. 7 Rivers | | T. McKee | | T. Menefee | |
| T. Queen | | T. Ellenburger | | T. Point Lookout | |
| T. Grayburg | | T. Gr. Wash | | T. Mancos | |
| T. San Andres | 4697' | T. Granite | | T. Dakota | |
| T. Glorieta | 6218' | T. | | T. Morrison | |
| T. Drinkard | | T. | | T. Penn | |
| T. Tubbs | 7128' | T. | | T. | |
| T. Abo | 8130' | T. | | T. | |
| T. ~~Penn~~ Wolfcamp Lm. | 9670' | T. | | T. | |
| T. Miss. | | T. | | T. | |

### FORMATION RECORD

| From | To | Thickness in Feet | Formation | From | To | Thickness in Feet | Formation |
|---|---|---|---|---|---|---|---|
| 0 | 35' | 35' | Caliche | | | | |
| 35 | 75 | 40' | Surface gravels | | | | |
| 75 | 314 | 239' | Triassic Red beds | | | | |
| 314 | 1853 | 1551' | Permian Red beds | | | | |
| 1853 | 1970 | 117' | Anhydrite & shale | | | | |
| 1970 | 2880 | 910' | Salt | | | | |
| 2880 | 3050 | 170' | Anhydrite | | | | |
| 3050 | 4697 | 1647' | Sand, shale, anhydrite & lime | | | | |
| 4697 | 6218 | 1521' | Dolomite w/anhy. and shale stringers | | | | |
| 6218 | 8130 | 1912' | Sand, shale and dolomite stringers | | | | |
| 8130 | 9670 | 1540' | Anhydrite, shale & dolo. stringers | | | | |
| 9670 | 10,654 | 984' | Lime, dolomite, shale and chert stringers | | | | |

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

May 1, 1956
(Date)

Company or Operator: CABOT CARBON COMPANY

Address: BOX 2095, MIDLAND, TEXAS

Name: French Beard, Jr.

Position or Title: Dist. Prod. Supt.

DUPLICATE

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

HOBBS OFFICE OCC
1956 MAY 2 PM 2:50

COMPANY CABOT CARBON COMPANY
(Address)

LEASE [illegible] WELL NO. 1 UNIT D S 6 T 16S R 38E

DATE WORK PERFORMED 4-28-56 POOL [illegible]

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [x] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [ ] Other

Detailed account of work done, nature and quantity of materials used and results obtained.

In plugging Warren M. Snyder #1, we performed all operations in the following described manner and set cement plugs at the hereinafter noted horizons. Set cemented plug (110 sacks) in 7-7/8" hole from T.D. 10,652' to 10,250'. Set cemented plug (50 sacks) from 4775' to 4695' in 7-7/8" hole and in base of 8-5/8" casing. Set cemented plug from 785' to 685' (50 sacks) extending into stub of shot off 8-5/8" casing and above stub into 11" hole. Set cemented plug from 359' to 259' (60 sacks) extending below 13-3/8" casing shoe and up into 13-3/8" casing. Cut off surface casing at 3' below gr. Set cemented plug from 50' to surface (40 sacks). 8-5/8" Intermediate casing shot off at 735' R. B. and recovered. All cemented plugs were set in mud. B. J. Cementers performed cementing operations thru open end Drill Pipe and with normal cementing pumps.

8-5/8" O. D. casing from 735' R. B. to 4745' R. B. was left in well. 13-3/8" O. D. surface casing from ground to 359' R. B. was left in well. Initial cementing operations had circulated cement around these quantities of casing.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD _____ PBD _____ Prod. Int. _____ Compl Date _____

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

| RESULTS OF WORKOVER: | BEFORE | AFTER |
|---|---|---|
| Date of Test | | |
| Oil Production, bbls. per day | | |
| Gas Production, Mcf per day | | |
| Water Production, bbls. per day | | |
| Gas-Oil Ratio, cu. ft. per bbl. | | |
| Gas Well Potential, Mcf per day | | |

Witnessed by _____ _____ (Company)

OIL CONSERVATION COMMISSION

Name W. A. Gressett
Title Oil & Gas Inspector
Date MAY 7 1956

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

Name French Board, Jr.
Position Dist. Prod. Supt.
Company Cabot Carbon Company

# *ENERGEN RESOURCES CORP*

**WLSU #023**

**LEA COUNTY, NM**

**GL Elevation:** 3961'

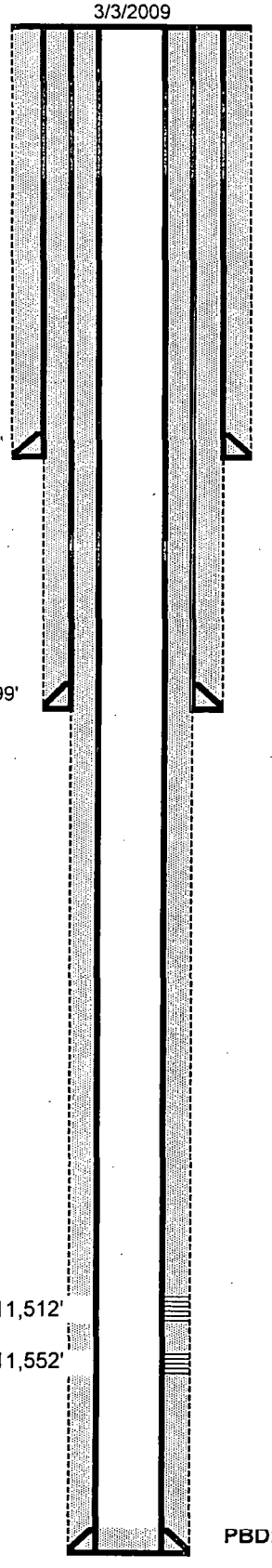
**KB Elevation:** 3979' -- 18.0' above GL

**Location:** 660' FSL & 2310' FEL
Unit O, Sec. 34, T-15S, R-35E

**Spud:** 6/2/2006

**API :** 30-025-37846

**Current Condition Rod Pump**
3/3/2009




Conductor:
None

Surface Casing:
13-3/8" 48.0#, J-55 @ 432'
Cemented to surface
with 500 sx Class "C"
Circulated 50 sx

Intermediate Casing:
8-5/8" 32#, J-55 @ 4699'
(L) 2000 sx Class "C" 35/65 poz w/
3 lbs/sx salt + 1lb/sx Gilsonite
(T) 200 sx Class "C" w/1% CaCl2
(Circulated 100 sx)

**Strawn Perfs:** 11,488' -11,512'

**Strawn Perfs:** 11,524' -11,552'

**Production Casing:**
5-1/2" 17# ,N-80 & S-95 @ 11,860'
900 sx 35/65 Class "H"
500 sx 50/50 Class "H"
TOC: Surf. Circ. 248 sx

**PBD:** 11,765'

**TD:** 11,860'

rlandon3/3/2009

Submit to Appropriate District Office
State Lease - 6 copies
Fee Lease - 5 copies
District I
1625 N. French, Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

Form C-105
Revised March 25, 1999

WELL API NO. 30-025-37846
5. Indicate Type Of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR ☐ OTHER

7. Lease Name or Unit Agreement Name: West Lovington Strawn Unit

2. Name of Operator: Energen Resources Corporation
8. Well No.: 23
3. Address of Operator: 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705
9. Pool name or Wildcat: Lovington; Strawn, West

4. Well Location
Unit Letter O : 660 Feet From The South Line and 2310 Feet From The East Line
Section 34 Township 15S Range 35E NMPM Lea County

| 10. Date Spudded | 11. Date T.D. Reached | 12. Date Compl. (Ready to Prod.) | 13. Elevations (DF & RKB, RT, GR, etc.) | 14. Elev. Casinghead |
|---|---|---|---|---|
| 6/2/06 | 7/1/06 | 9/1/06 | 3961' GR | |

| 15. Total Depth | 16. Plug Back T.D. | 17. If Multiple Compl. How Many Zones? | 18. Intervals Drilled By | Rotary Tools | Cable Tools |
|---|---|---|---|---|---|
| 11,860' | 11,765' | | | XX | |

19. Producing Interval(s), of this completion - Top, Bottom, Name: 11,488' - 11,552' Strawn
20. Was Directional Survey Made: No
21. Type Electric and Other Logs Run: Platform Express, NGT, sonic & MR CBL/VDL/CMT/GR/CCL
22. Was Well Cored: No

23. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 13-3/8" | 48.00# | 432' | 17-1/2" | 500SX cLASS c | |
| 8-5/8" | 32.00# | 4,699' | 11" | 2200SX 35/65 poz C | |
| 5-1/2" | 17.00# | 11,860' | 7-7/8" | 1400 sx POZ H | |
| | | | | | |
| | | | | | |

24. LINER RECORD

| SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|---|---|---|---|---|
| | | | | |
| | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET | PACKER SET |
|---|---|---|
| 2-3/8" | 11,413' | 11,422' |
| | | |

26. Perforation record (interval, size, and number)
11,488' - 11,512' .42" 72 holes
11,524' - 11,552' .42" 84 holes

27. ACID, SHOT, FRACTURE, CEMENT, SQEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND KIND MATERIAL USED |
|---|---|
| 11,488-11,552' | 5M gals 15% HCL/DI acid |
| | |
| | |

28. PRODUCTION

| Date First Production | Production Method (Flowing, gas lift, pumping - Size and type pump) | Well Status (Prod. or Shut-in) |
|---|---|---|
| 9-6-06 | Flowing | Producing |

| Date of Test | Hours Tested | Choke Size | Prod'n For Test Period | Oil - Bbl. | Gas - MCF | Water - Bbl. | Gas - Oil Ratio |
|---|---|---|---|---|---|---|---|
| 9-15-06 | 24 | 48/64 | | 139 | 300 | 0 | 2158 |

| Flow Tubing Press. | Casing Pressure | Calculated 24-Hour Rate | Oil - Bbl. | Gas - MCF | Water - Bbl. | Oil Gravity - API -(Corr.) |
|---|---|---|---|---|---|---|
| 85 | | | | | | 46.0 |

29. Disposition of Gas (Sold, used for fuel, vented, etc.): Sold
Test Witnessed By

30. List Attachments: C-104, C-102, Deviation survey, Logs

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature Carolyn Larson Printed Name Carolyn Larson Title Regulatory Analyst Date 9-18-06

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico | | | Northeastern New Mexico | | |
|---|---|---|---|---|---|
| T. Anhy | | T. Canyon | | T. Ojo Alamo | | T. Penn. "B" | |
| T. Salt | | T. Strawn | 11460 | T. Kirtland-Fruitland | | T. Penn. "C" | |
| B. Salt | | T. Atoka | 11710 | T. Pictured Cliffs | | T. Penn. "D" | |
| T. Yates | 3060 | T. Miss | | T. Cliff House | | T. Leadville | |
| T. 7 Rivers | 3230 | T. Devonian | | T. Menefee | | T. Madison | |
| T. Queen | 3930 | T. Silurian | | T. Point Lookout | | T. Elbert | |
| T. Grayburg | 4370 | T. Montoya | | T. Mancos | | T. McCracken | |
| T. San Andres | 46500 | T. Simpson | | T. Gallup | | T. Ignacio Otzte | |
| T. Glorieta | 6270 | T. McKee | | Base Greenhorn | | T. Granite | |
| T. Paddock | | T. Ellenburger | | T. Dakota | | T. | |
| T. Blinebry | | T. Gr. Wash | | T. Morrison | | T. | |
| T. Tubb | 7445 | T. Delaware Sand | | T. Todilto | | T. | |
| T. Drinkard | | T. Bone Springs | | T. Entrada | | T. | |
| T. Abo | 8190 | T. | | T. Wingate | | T. | |
| T. Wolfcamp | 9790 | T. | | T. Chinle | | T. | |
| T. Penn | | T. | | T. Permain | | T. | |
| T. Cisco (Bough C) | | T. | | T. Penn "A" | | T. | |

## OIL OR GAS SANDS OR ZONES

No. 1, from ..... to ..... No. 3, from ..... to .....

No. 2, from ..... to ..... No. 4, from ..... to .....

## IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

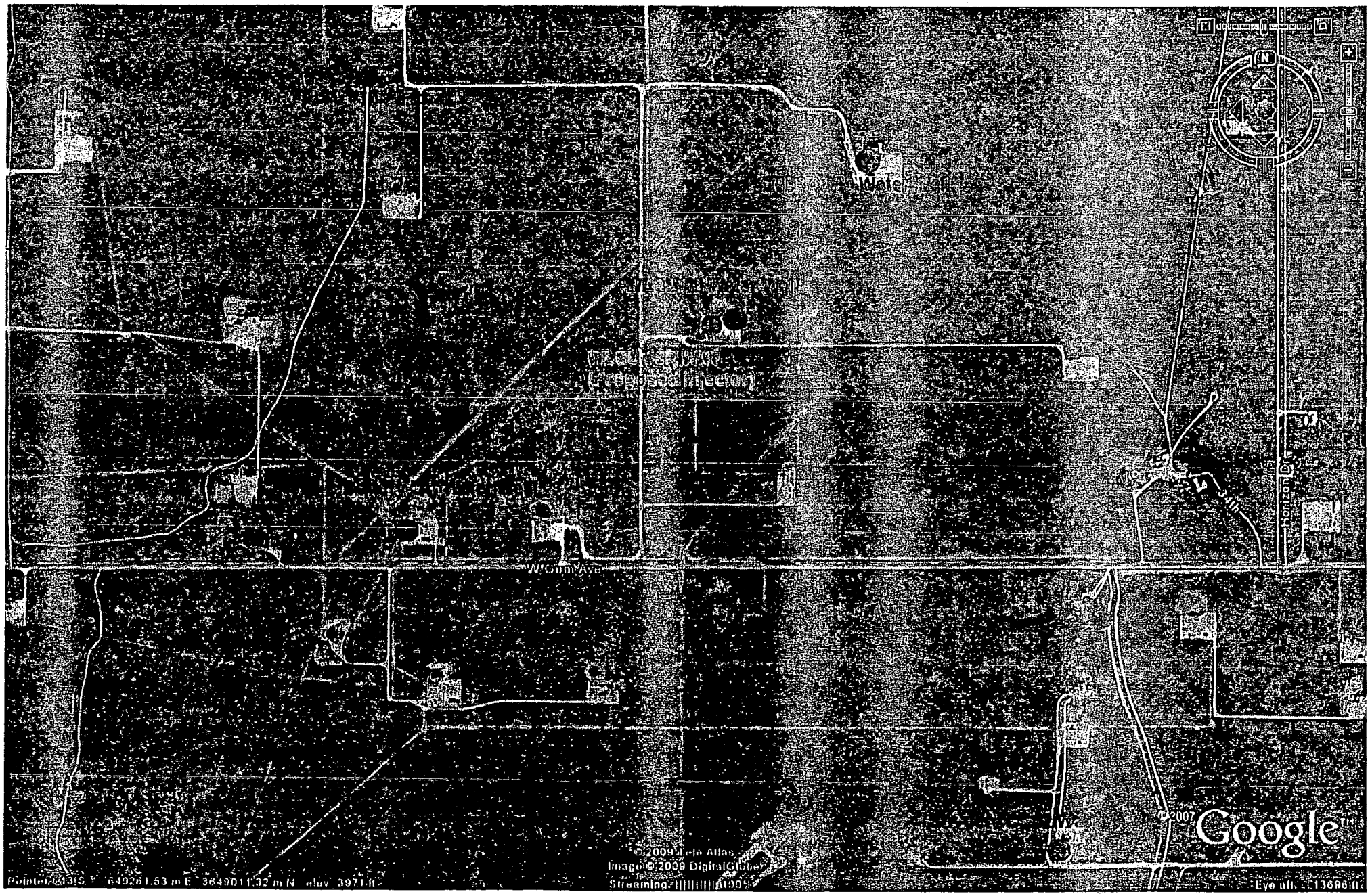
No. 1, from ..... to ..... feet .....

No. 2, from ..... to ..... feet .....

No. 3. from ..... to ..... feet .....

## LITHOLOGY RECORD ( Attach additional sheet if necessary)

| From | To | Thickness in Feet | Lithology | From | To | Thickness in Feet | Lithology |
|---|---|---|---|---|---|---|---|
| | | | | | | | |


Wate
(Proposed Intersection)
Wrenn Ave
Horizon Dr
©2009 Cnes/Spot Image
©2009 Tele Atlas
Image ©2009 DigitalGlobe
Streaming 100%
©2007 Google

# Proposed Injection Well: West Lovington Strawn Unit #8R,
## 1980' FSL and 660' FWL of Sec 34-15s-35e, Lea County, NM
### X=649335. Y=3649324 NAD 83 UTM

## West Lovington Strawn Unit Fresh Water Wells

| Sample # | Well Name | Field | Sec/Town/Range | Sample Point | Date | Casing type | Datum: NAD 83 UTM X | Y |
|---|---|---|---|---|---|---|---|---|
| 1 | Battery "A" Water Well | WLSU, Lea County, NM | Sec 33-15s-35e | Dipped | 3/7/2009 | Steel | 648573 | 3648792 |
| 2 | WLSU #11 Windmill | WLSU, Lea County, NM | Sec 33-15s-35e | Pump Outlet | 3/7/2009 | Steel | 648475 | 3649904 |
| 3 | WLSU #20 Water Well | WLSU, Lea County, NM | Sec 34-15s-35e | Dipped | 3/7/2009 | PVC | 649699 | 3649740 |
| 4 | WLSU #8 Water Well | WLSU, Lea County, NM | Sec 34-15s-35e | Dipped | 3/7/2009 | Steel | 649400 | 3649333 |
| 5 | Snyder "C" #2 Water Well | WLSU, Lea County, NM | Sec 6-16s-36e | Pump Outlet | 3/7/2009 | Steel | 650213 | 3648009 |

**See Analysis by Martin Water Labs**

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

# Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

## RESULT OF WATER ANALYSES

LABORATORY NO. 309-98 (pg 1)

TO: Mr. Mark Solari
Building 4, Suite 100, 3300 N. "A" Street, Midland, TX 79705

SAMPLE RECEIVED 3-9-09

RESULTS REPORTED 3-18-09

COMPANY Energen LEASE WLSU

FIELD OR POOL

SECTION ____ BLOCK ____ SURVEY ____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Battery "A" water well. 3-6-09

NO. 2 WLSU #11 windmill. 3-6-09

NO. 3 WLSU #20 water well. 3-6-09

NO. 4 WLSU #8 water well. 3-6-09

**REMARKS:**

| CHEMICAL AND PHYSICAL PROPERTIES | | | | |
|---|---|---|---|---|
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60° F. | 1.0008 | 1.0010 | 1.0009 | 1.0015 |
| pH When Sampled | | | | |
| pH When Received | 7.61 | 7.65 | 7.67 | 7.15 |
| Bicarbonate as $HCO_3$ | 142 | 220 | 181 | 146 |
| Supersaturation as $CaCO_3$ | | | | |
| Undersaturation as $CaCO_3$ | | | | |
| Total Hardness as $CaCO_3$ | 84 | 240 | 192 | 368 |
| Calcium as Ca | 19 | 77 | 64 | 122 |
| Magnesium as Mg | 9 | 12 | 8 | 16 |
| Sodium and/or Potassium | 36 | 47 | 43 | 117 |
| Sulfate as $SO_4$ | 5 | 113 | 97 | 79 |
| Chloride as Cl | 28 | 31 | 26 | 298 |
| Iron as Fe | 8.6 | 0.2 | 0.2 | 217.9 |
| Barium as Ba | 0 | 0 | 0 | 0 |
| Turbidity, Electric | | | | |
| Color as Pt | | | | |
| Total Solids, Calculated | 239 | 499 | 418 | 778 |
| Temperature °F. | | | | |
| Carbon Dioxide, Calculated | | | | |
| Dissolved Oxygen, | | | | |
| Hydrogen Sulfide | 0.0 | 0.0 | 0.0 | 0.0 |
| Resistivity, ohms/m at 77° F. | 34.000 | 17.000 | 20.800 | 8.040 |
| Suspended Oil | | | | |
| Filtrable Solids as mg/l | | | | |
| Volume Filtered, ml | | | | |
| | | | | |
| | | | | |
| | | | | |
| Results Reported As Milligrams Per Liter | | | | |
| Additional Determinations And Remarks | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Form No. 3

By ____

P.O. BOX 98
MIDLAND, TX. 79702
PHONE (432) 683-4521

# Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

## RESULT OF WATER ANALYSES

LABORATORY NO. 309-98 (pg 2)

TO: Mr. Mark Solari
Building 4, Suite 100, 3300 N. "A" Street, Midland, TX 79705

SAMPLE RECEIVED 3-9-09

RESULTS REPORTED 3-18-09

COMPANY Energen LEASE WLSU

FIELD OR POOL

SECTION ____ BLOCK ____ SURVEY ____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Snyder "C" #2 water well. 3-6-09

NO. 2

NO. 3

NO. 4

REMARKS:

| CHEMICAL AND PHYSICAL PROPERTIES | | | | |
|---|---|---|---|---|
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60° F. | 1.0009 | | | |
| pH When Sampled | | | | |
| pH When Received | 7.63 | | | |
| Bicarbonate as $HCO_3$ | 151 | | | |
| Supersaturation as $CaCO_3$ | | | | |
| Undersaturation as $CaCO_3$ | | | | |
| Total Hardness as $CaCO_3$ | 192 | | | |
| Calcium as Ca | 62 | | | |
| Magnesium as Mg | 9 | | | |
| Sodium and/or Potassium | 56 | | | |
| Sulfate as $SO_4$ | 117 | | | |
| Chloride as Cl | 48 | | | |
| Iron as Fe | 0.3 | | | |
| Barium as Ba | 0 | | | |
| Turbidity, Electric | | | | |
| Color as Pt | | | | |
| Total Solids, Calculated | 444 | | | |
| Temperature °F. | | | | |
| Carbon Dioxide, Calculated | | | | |
| Dissolved Oxygen, | | | | |
| Hydrogen Sulfide | 0.0 | | | |
| Resistivity, ohms/m at 77° F. | 17.450 | | | |
| Suspended Oil | | | | |
| Filtrable Solids as mg/l | | | | |
| Volume Filtered, ml | | | | |

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks

The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Form No. 3

By Greg Ogden, B.S.

LATHAM PRINTING CO. - 333-1292

Side 1

# INJECTION WELL DATA SHEET

OPERATOR: Energen Resources Corporation

WELL NAME & NUMBER: West Lovington Strawn Unit #8R, API 30-025-3229101

| WELL LOCATION: | 1980' FSL & 660' FWL | L | 34 | 15S | 35E |
|---|---|---|---|---|---|
| | FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE |

***WELLBORE SCHEMATIC***

(See Attached)

***WELL CONSTRUCTION DATA***

Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8"

Cemented with: 400 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Hole Size: 11" Casing Size: 8-5/8"

Cemented with: 750 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulation

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"

Cemented with: 1500 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulation

Total Depth: 11887'

Injection Interval

11520' feet to 11592'

(Perforated or Open Hole; indicate which)

# INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" Lining Material: IPC

Type of Packer: Watson BigBore 5-1/2 x 2-7/8 Arrowset 1X

Packer Setting Depth: 11450'

Other Type of Tubing/Casing Seal (if applicable): _____

## Additional Data

1. Is this a new well drilled for injection? _____ Yes XX No

   If no, for what purpose was the well originally drilled? Drilled as a Strawn producer

2. Name of the Injection Formation: Strawn

3. Name of Field or Pool (if applicable): Lovington; Strawn, West

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. N/A

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

   Above: Permo-Penn, Wolfcamp

   Below: Atoka

# *ENERGEN RESOURCES CORPORATION*

## WLSU #008R

Surf. 1980' FSL & 660 FWL
BHL. 1870' FSL & 859' FWL
Unit L, Sec 34, T-15-S, R-35-E
Lea, Co. NM
West Lovington (Strawn) Field
Injection Conversion Procedure

Date: March 4, 2008

AFE No: PB020309

Cost: $271,500

WI: 89.97657% NRI: 73.97791%

See Wellbore Diagram for Details:

1. MIRU Pulling Unit
2. Install BOPE. POOH & LD packoff tbg.
3. RIH w/ Packer and tbg. Set @ 11,400' and test casing. If bad Call office for instruction.
4. PU Bit, "Bulldog" bailer, and collars and RIH w/tbg.
5. Drill CIBP @ 11,451'. POOH & LD tbg and BHA.
6. RIH w/ packer, profile nipple, on/off tool, and 2-7/8" coated tubing. Set packer at ~11,450'.
7. Acidize perfs per service company recommendation.
8. RU pump truck, establish injection profile.
9. Set plug in Profile, release from on/off tool, circulated packer fluid per chemical company recommendation.
10. Latch on to packer, pull plug from profile, and allow for air to work out of annulus, then pressure test.
11. Notify OCD personnel for final mechanical integrity testing.
12. Test well
13. RD pulling unit
14. RU injection facility.
15. Begin injection.

# *ENERGEN RESOURCES CORP*

## WLSU #8R

**LEA COUNTY, NM**

**GL Elevation:** 3970'

**KB Elevation:** 3987.5' – 17.5' above GL

**Location:** 1980' FSL X 660' FWL
Sec 34-15S-35E

**Spud:** 11/06/1993

**Sidetracked:** 7/5/2006

**API :** 30-025-32291

**Currently TA'd**

**Conductor:**
None

**Surface Casing:**
13-3/8" 48#, H-40 @ 391'
Cemented to surface
with 440 sx Class "C" w/2% CaCl2
Circulated 105 sx

###

73.98%

PB020309

391'

**Intermediate Casing:**
8-5/8" 32#, S-80 & J-55 @ 4753'
750 sx total
(L) 550 sx Class "C" 35/65 poz w/
3 lbs/sx salt + 1lb/sx Gilsonite
(T) 200 sx Class "C" w/1% CaCl2
TOC: 1950'

4753'

Sidetrack Wellbore

CIBP @ 11,451'

Strawn Perfs: 11520-40 and 11546-92
(198 shots at 3 SPF) (8/22/2006)

**PBD:** 11,798'

**TD:** 11,887'

**Production Casing:**
5-1/2" 17#, L-80 & HCL-80 @ 11,887'
Cement w/1000 sx 35/65 Poz H
and tail of 500 sx 50/50 Poz
TOC: Surface

Plugged original hole

Whipstock plug 4752-4939
Casing cut at 4810'

Cement Plug f/8229 to 8500'
CIBP at 8500

Stuck tbg below CIBP

**PBD:** 11,828'

**TD:** 11,872'

**Production C**
5-1/2" 20# & 1
cmtd with 55
TOC: 8950'
Casing cut at

# *ENERGEN RESOURCES CORP*

## WLSU #8R

**LEA COUNTY, NM**

**GL Elevation:** 3970'

**KB Elevation:** 3987.5' -- 17.5' above GL

**Location:** 1980' FSL X 660' FWL
Sec 34-15S-35E

**Spud:** 11/06/1993

**Sidetracked:** 7/5/2006

**API :** 30-025-32291

5/12/2009

**Conductor:**
None

**Surface Casing:**
13-3/8" 48#, H-40 @ 391'
Cemented to surface
with 440 sx Class "C" w/2% CaCl2
Circulated 105 sx

391'

##

73.98%

PB020309

**Intermediate Casing:**
8-5/8" 32#, S-80 & J-55 @ 4753'
750 sx total
(L) 550 sx Class "C" 35/65 poz w/
3 lbs/sx salt + 1lb/sx Gilsonite
(T) 200 sx Class "C" w/1% CaCl2
TOC: 1950'

4753'

Sidetrack Wellbore

**Plugged original hole**

Whipstock plug 4752-4939
Casing cut at 4810'

**Tubing:**
2-7/8 L-80 tbg, IPC: TK-99 or equivalent

**Packer:**
Watson BigBore 5-/12 x 2-7/8 Arrowset 1X
Nickel pltd OD, IPC: TK-99 or equivalent

Cement Plug f/8229 to 8500'
CIBP at 8500

Strawn Perfs: 11520-40 and 11546-92
(198 shots at 3 SPF) (8/22/2006)

Stuck tbg below CIBP

**PBD:** 11,828'

**Production C**
5-1/2" 20# & 1
cmtd with 55
TOC: 8950'

**PBD:** 11,798'

**TD:** 11,887'

**TD:** 11,872'

***Production Casing:***
5-1/2" 17#, L-80 & HCL-80 @ 11,887'
Cement w/1000 sx 35/65 Poz H
and tail of 500 sx 50/50 Poz
TOC: Surface