

April 20, 2000

Mr. Mark Ashley
State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Case 12614

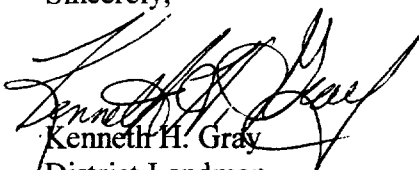
Dear Mr. Ashley,

RE: Energen Resources Corporation, Ogrid #162928
Application for Administrative Approval to Inject,
(Expansion of Project #WFX-581)
Langlie Lynn Queen Unit, Wells ~~#3,5,7,9~~,12,14,16,18,
Lea County, New Mexico

As a follow-up to our recent telephone conversation and to letter of April 14, 2000 from Denise H. Menoud, of this office, Energen's application did not include well # 23. Well #23 was included in the legal notice and advertised in the paper but once the Lanexco letter of March 23, 2000 was reviewed, Energen elected to exclude Well # 23 from its application to inject until the relationship between Well #23 and the Lanexco, Inc well, being the El Paso State # 1, is fully evaluated. It is our understanding that Lanexco, Inc. objections were limited to well #23.

If anything else is needed, please advise.

Sincerely,

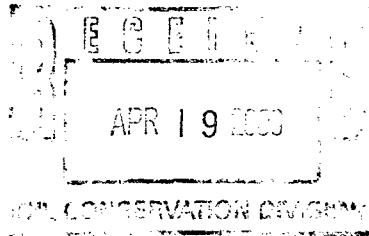

Kenneth H. Gray
District Landman
ASHLEY-INJECT-LLQU

KHG/pkr

cc: Lanexco, Inc.
Attention: Mr. Robert W. Lansford, President

Scott Hall

April 14, 2000



State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Case 12614

RE: Energen Resources Corporation, Ogrid #162928
Application for Administrative Approval to Inject, Expansion of Project #WFX-581
Langlie Lynn Queen Unit, Wells #3, 5, 7, 9, 12, 14, 16, & 18
Lea County, New Mexico

Gentlemen:

Energen Resources Corporation is seeking Administrative Authority to Expand it's existing Injection Permit #WFX-581 on the above wells. Enclosed are the following required supporting documents to complete the application.

1. Original C-108 Form.
2. Well Data Sheet on each well on Injection Application, including wellbore schematics and maps.
3. Table of Wells of all wells in "Area of Review" (1/2 mile).
4. Well Data Sheet on all wells in "Area of Review".
5. Proposed Project, including "Geological Data" and "Stimulation Program".
6. Water analysis on injection fluid.
7. Water analysis on fresh water wells.
8. Logs on new drill LLQU #20, (logs previously submitted on all other wells).
9. "Proof of Notice" to county newspaper, including "Affidavit of Publication".
10. "Proof of Notice" to State of New Mexico as landowner.
11. "Proof of Notice" to all leasehold operators within 1/2 mile.

Should additional information be needed, please advise.

Sincerely,

Denise A. Menoud
Production Tech.
Energen Resources Corporation
(915) 687-2074
Encl.

cc: Hobbs District Office
cc: N.M. State Land Office

Khr 6/18 - 687-2074

I. PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No

II. OPERATOR: Energen Resources Corporation
ADDRESS: 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705
CONTACT PARTY: Denise Menoud PHONE: (915) 687-2074

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? X Yes No
If yes, give the Division order number authorizing the project: WFX-581 R-4417

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: Denise Menoud TITLE: Production Tech.
SIGNATURE: Denise Menoud DATE: 04/13/00

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. 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 Office

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, 2040 South Pacheco, 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.

Total Depth: 3790'

Injection Interval

3490' feet to 3691' (Indicate whether Open Hole or perforated) perforated

Proposed Tubing Detail

Tubing Size: 2-3/8" J-55
Lining Material: Internal Plastic Coated (IPC)
Type of Packer: Baker "Lok-Set"
Packer Setting Depth: 3458'
Other Type of Tubing/Casing Seal (if applicable):

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: Seven Rivers-Queen-Grayburg
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze:

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
Ener. Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

| |
|---|
| WELL API NO. 30-025-09388 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. |
| 7. Lease Name or Unit Agreement Name: Langlie Lynn Queen Unit |
| 8. Well No. 3 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVRs/Queen/GB |

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

| | |
|--|---|
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other Injection <input type="checkbox"/> | 2. Name of Operator Energen Resources Corporation |
| 3. Address of Operator 3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705 | 4. Well Location Unit Letter <u>L</u> : <u>1980</u> feet from the <u>South</u> line and <u>660</u> feet from the <u>West</u> line Section <u>23</u> Township <u>23S</u> Range <u>36E</u> NMPM County <u>Lea</u> |
| 10. Elevation (Show whether DR, RKB, RT, GR, etc.) | |

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

NOTICE OF INTENTION TO:

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

OTHER: ☐

SUBSEQUENT REPORT OF:

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

OTHER: ☐

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 recompletion.

Note: Well was TA'd from injection in 08/91.

02/16-18/00: MIRUPU. tested 4 1/2" csg to 565# for 45 mins. held good. Retrieved RBP @ 3467'.
Peforated 7 RVRs/Queen @ 3490'-3536'. (total of 184 holes). Acidized w/ 3000 gals 15% HCL.

02/19/00: Found new PBD to be @ 3757'.

02/22/00: RIH w/ 2 3/8" tbg & 2 3/8" x 4 1/2" "Lok-Set" injection pkr. Pkr set @ 3458'. Pressure tested csg to 550# for 30 mins. no leak-off. RDPU. Waiting for reinstatement of injection permit.

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

SIGNATURE D. Menoud TITLE Production Tech. DATE 03/16/2000

Type or print name Denise Menoud Telephone No. (915)687-2074

(This space for State use)

APPROVED BY _____ TITLE _____ DATE _____

Conditions of approval, if any:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #3

Lea County, NM

GI Elevation: 3381'

KE Elevation:

Location: 1980' FSL, 660' FWL,
Sec 23, T-23-S, R-36-E

Current Conditions: Jan-99
Temporarily Abandoned

Conductor:

None

Surface Casing:

8-5/8" 24# J-55, ST&C

@ 259' in 11" hole

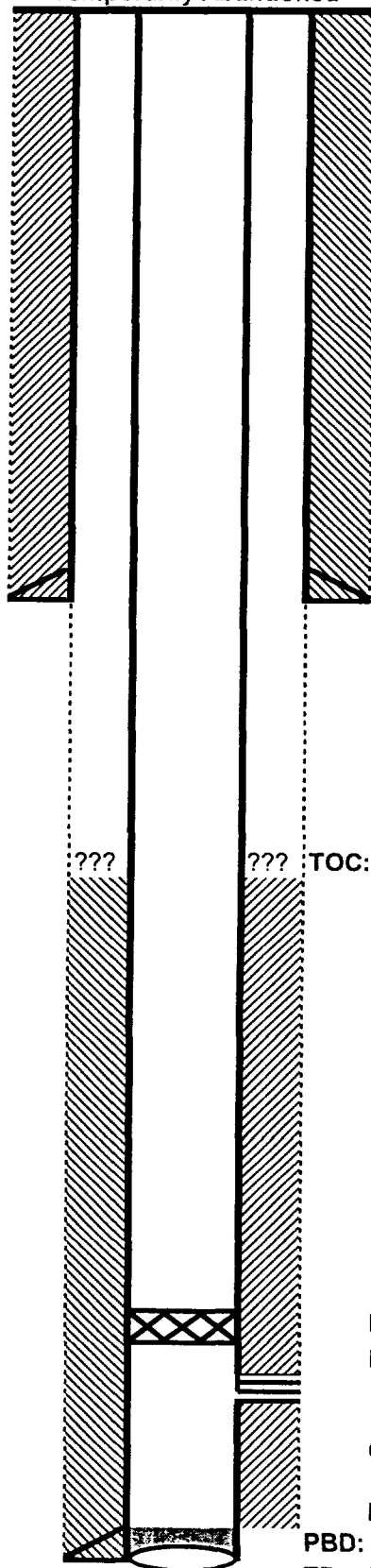
Cemented to surface

W/200 sx 50/50 Pozmix

Well Head Assembly:

Intermediate Casing:

None



??? TOC: unknown

RBP @ 3467' (11/22/91)

Perfs:

7 Rivers: 3536-44, 74-84' (10/60)

'3556-61, 64, 68' (3/90)

Queen: 3602-10, 13-24, 48-58, 60-64, 68-72' (10/60)

3626-29, 38-45, 48-58, 60-64, 68-72, 82-91'

Frac: 20,000 gal lease oil + 30,000# sand (10/60)

PBD: 3757'

TD = 3790'

Production Casing:

4 1/2" 9.50# J-55 ST&C

@ 3790' in 7-7/8" hole

1000 sx 50/50 Pozmix

100 Sx Regular Cement + Latex

INJECTION WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #5

WELL LOCATION: 1980' FSL, 660' FWL J 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"
Casing Size: 8-5/8"
Cemented with: 200 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2"
Cemented with: 1600 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Circ.
Total Depth: 3734'

Injection Interval

3494' feet to 3631' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: 2-3/8"
Lining Material: _____
Type of Packer: _____
Packer Setting Depth: _____
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: Seven Rivers-Queen-Grayburg
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. No
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze: _____

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

| |
|---|
| WELL API NO. 30-025-09389 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 23267 |
| 7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit |
| 8. Well No. 5 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVRs/Queen/GB |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) |

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

| |
|--|
| 1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Injection Well |
| 2. Name of Operator Energen Resources Corporation |
| 3. Address of Operator 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705 |
| 4. Well Location Unit Letter J : 1980 Feet From The South Line and 1980 Feet From The East Section 23 Township 23S Range 36E NMPM Lea County |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) |

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

MIRU WSU, pressure test casing to 500 psi for 30 minutes. Pull injection equipment. Re-perforate the 7 RVRs/Queen, acidize w/ 3,000 gals. Run injection packer and tubing, perform casing integrity test and begin water injection.

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

SIGNATURE Denise Menoud TITLE Prod. Tech. DATE 3/13/2000
TYPE OR PRINT NAME Denise Menoud TELEPHONE NO. 915-687-20

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #5
Lea County, NM

GL Elevation: 3381'

KL Elevation:

Location: 1980' FSL, 660' FWL,
Sec 23, T-23-S, R-36-E

Current Conditions: Jan-99
Active-WIW

Conductor:
None

Surface Casing:
8-5/8" 24# J-55, ST&C
@ 263' in 11" hole
Cemented to surface
W/200 sx 50/50 Pozmix

Well Head Assembly:

Intermediate Casing:
None

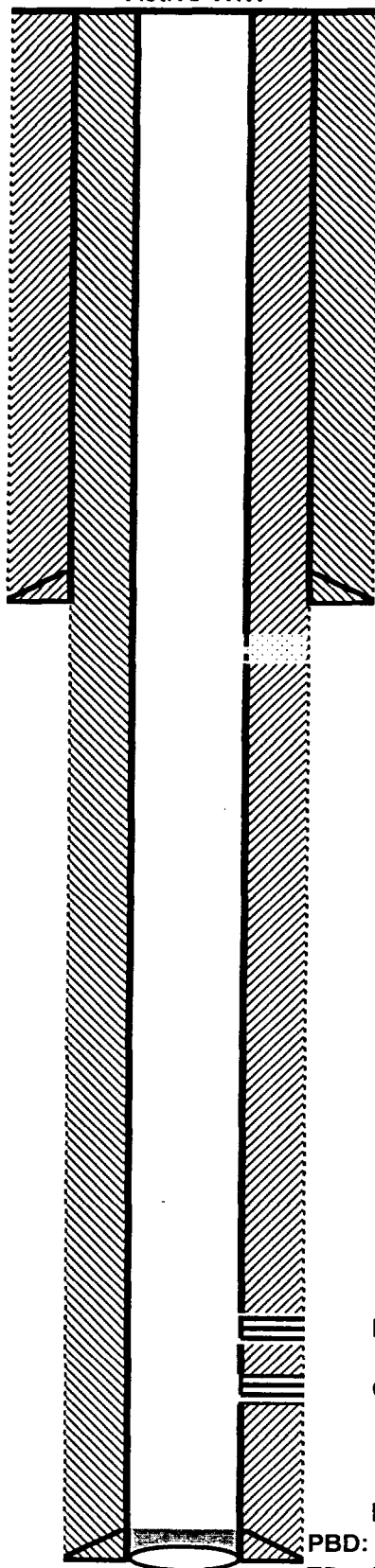
Casing Leak @ 334'--Squeezed (12/89)

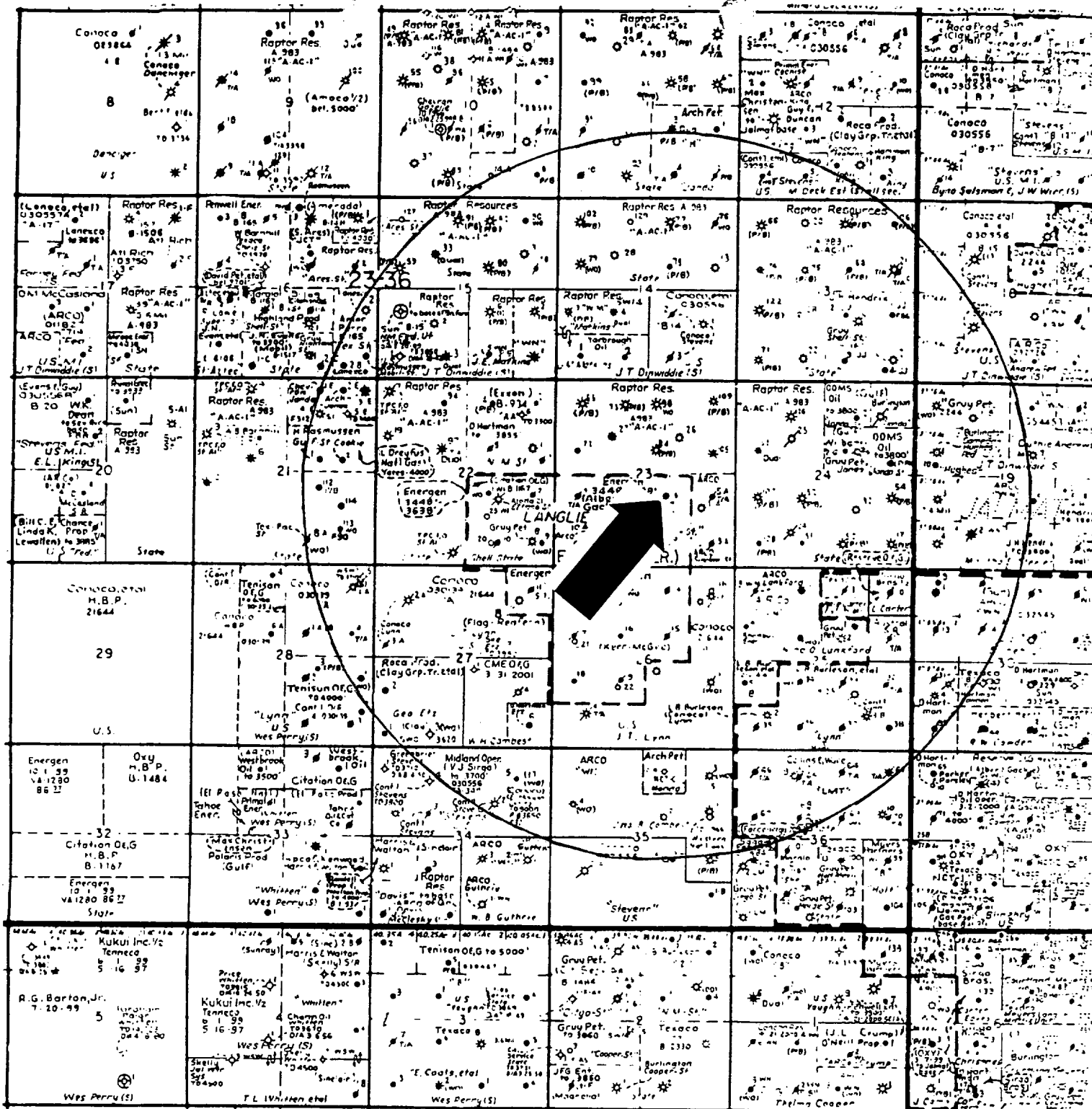
Production Casing:
4 1/2" 9.50# J-55 ST&C
@ 3734' in 6-3/4" hole
1600 Sx Regular Cement
Circulated to Surface

Perfs: 3450-52 (Squeezed 12/89)
Inj profile showed perfs taking water (9/91)
Queen: 3494-3502' (11/60)
3518-47, 55-59, 62-88, 94-3600'
3609-22, 26-31'

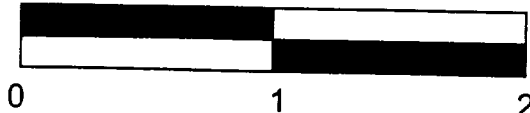
Frac: 20,000 gal lease oil + 31,000# 20/40 sand (10/60)

PBD: 3670'
TD = 3734'





MILES



LANGLIE-LYNN #5
LANGLIE-LYNN UNIT
LANGLIE-MATTIX FIELD
T23s - R36E
Lea County, New Mexico
TWO MILE RADIUS

JECTION WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #7

WELL LOCATION: 660' FSL, 1980' FWL N 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"
Casing Size: 8-5/8"
Cemented with: 275 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2"
Cemented with: 1778 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual
Total Depth: 3800'

Injection Interval

3510' feet to 3682' (Indicate whether Open Hole or perforated) perforated

Proposed Tubing Detail

Tubing Size: 2-3/8" J-55
Lining Material: Internal Plastic Coated (IPC)
Type of Packer: Baker "Lok-Set"
Packer Setting Depth: ± 3350'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
- Name of the Injection Formation: Seven Rivers-Queen-Grayburg
- Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
- 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. No
- Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze: _____

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

| | |
|---|--|
| WELL API NO. | 30-025-09391 |
| 5. Indicate Type of Lease | STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. | 23267 |
| 7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit | |
| 8. Well No. | 7 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVRs/Queen/GB | |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | |

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

1. Type of Well:
OIL WELL ☐ GAS WELL ☐ OTHER ☐ Convert to WIW

2. Name of Operator
Energen Resources Corporation

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

4. Well Location
Unit Letter N : 600 Feet From The South Line and 1980 Feet From The West Line
Section 23 Township 23S Range 36E NMMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: Convert To WIW ☐

SUBSEQUENT REPORT OF:

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

MIRU WSU, pressure test casing to 500 psi for 30 minutes. Re-perforate the 7 RVRs/Queen, acidize w/ 3,000 gals. Run injection packer and tubing, perform casing integrity test and begin water injection.

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

SIGNATURE Denise Menoud TITLE Prod. Tech. DATE 3/13/2000
TYPE OR PRINT NAME Denise Menoud TELEPHONE NO. 915-687-20

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #7

Lea County, NM

GI Elevation: 3374'

KL Elevation: 3385'

Location: 660' FSL, 1980' FWL,
Sec 23, T-23-S, R-36-E

Current Conditions: Jan-99

Inactive-TA

Conductor:

None

Surface Casing:

8-5/8" 24# J-55, ST&C

@ 271' in 11" hole

Cemented to surface

W/150 sx 50/50 Pozmix

Well Head Assembly:

Intermediate Casing:

None

Production Casing:

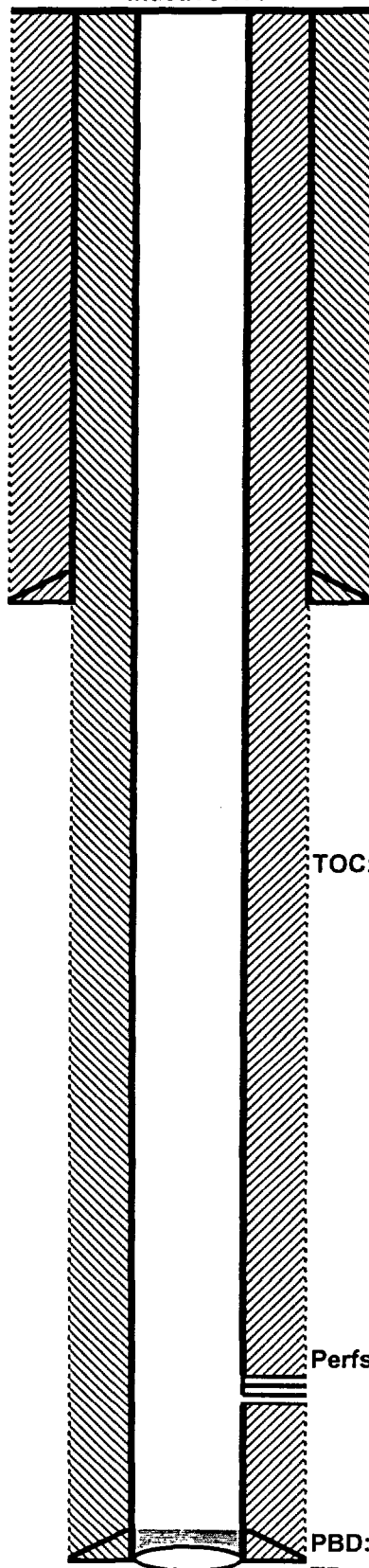
4 1/2" 9.50# J-55 ST&C

@ 3800' in 6-3/4" hole

1728 sx 50/50 Pozmix

50 sx Regular cement + Latex

Cement Circulated



TOC: unknown

Perfs:

3510-20, 30-38, 50-58, 60-64, 70-3600' (1/99)

3548-50, 64-66, 82-84,

3605-07, 08-10, 16-18, 24-26, 28-30, 42-44,

3648-50, 53-55, 59-61, 66-68, 80-82'

3608, 12, 19, 23, 28, 36, 40, 48, 52 (11/62)(re-perf)

Frac: 20,000 gal lease oil + 28,000# sand (11/62)

PBD: 3757'

TD = 3800'

LANGLIE-LYNN #7
 LANGLEI-LYNN UNIT
 LANGLEI-MATTIX FIELD
 T23s – R36E
 Lea County, New Mexico
TWO MILE RADIUS

JECTION WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #9

WELL LOCATION: 660' FSL, 330' FEL P 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 9-7/8"
Casing Size: 7-5/8"
Cemented with: 275 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2"
Cemented with: 200 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3800'

Injection Interval

3512' feet to 3714' (Indicate whether Open Hole or perforated) perforated

Proposed Tubing Detail

Tubing Size: 2-3/8" J-55
Lining Material: Internal Plastic Coated (IPC)
Type of Packer: Baker "Lok-Set"
Packer Setting Depth: ± 3350'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: Seven Rivers-Queen-Grayburg
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze: _____

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

| | |
|------------------------------|--|
| WELL API NO. | 30-025-20049 |
| 5. Indicate Type of Lease | STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. | 23267 |

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 | Langlie Lynn Queen Unit |
| 8. Well No. | 9 |
| 9. Pool name or Wildcat | Langlie Mattix 7 RVRs/Queen/GB |

1. Type of Well:
OIL WELL ☐ GAS WELL ☐ OTHER ☐ Convert to WIW

2. Name of Operator
Energen Resources Corporation

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

4. Well Location
Unit Letter P : 660 Feet From The South Line and 330 Feet From The East Line
Section 22 Township 23S Range 36E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3378' KB

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

| | | | |
|---|---|---|---|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | PLUG AND ABANDONMENT <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | | CASING TEST AND CEMENT JOB <input type="checkbox"/> | |
| OTHER: <u>Convert to WIW</u> <input type="checkbox"/> | | OTHER: <input type="checkbox"/> | |

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.

MIRU WSU, pull all production equipment. TIH w/ RBP to 3,500', pressure test casing to 500 psi for 30 minutes. POH & re-perforate the 7 RVRs/Queen, acidize w/ 3,000 gals. Run injection packer and tubing, perform casing integrity test and begin water injection.

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

SIGNATURE Denise Menoud TITLE Prodc. Tech. DATE 3/13/2000
TYPE OR PRINT NAME Denise Menoud TELEPHONE NO. 915-687-207

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #9

Lea County, NM

GL Elevation: 3378'

KL Elevation: 3388'

Location: 660' FSL, 330' FEL,
Sec 22, T-23-S, R-36-E

Current Conditions: Jan-99

Active-Pumping

Conductor:

None

Surface Casing:

7-5/8" 24# Smls, ST&C

@ 295' in 11" hole

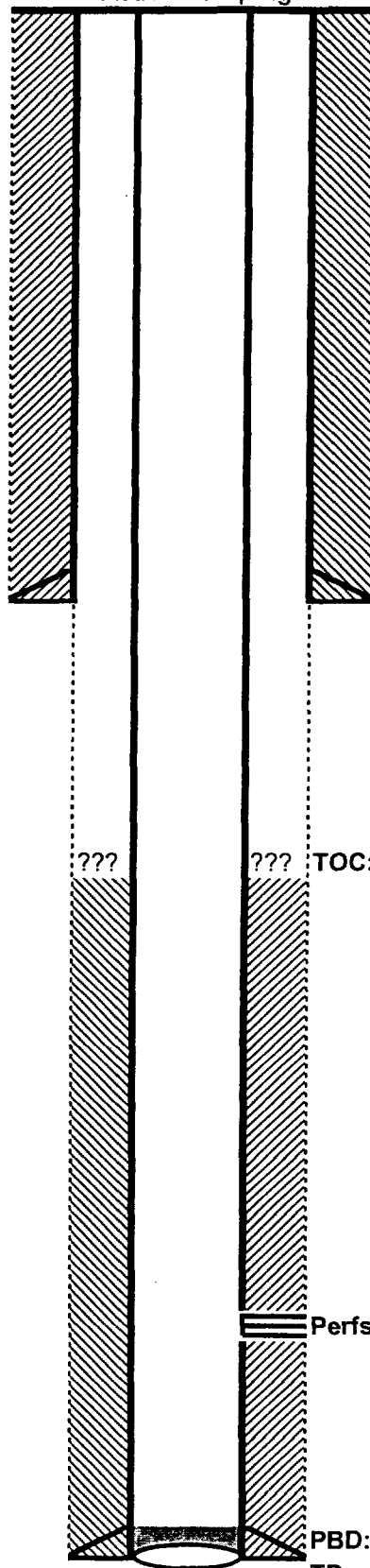
Cemented to surface

W/275 sx 50/50 Pozmix

Well Head Assembly:

Intermediate Casing:

None



Production Casing:

4 1/2" 9.50# J-55 ST&C

@ 3800' in 6-3/4" hole

200 sx "C" Neat

Perfs:

3512-26, 32-50, 56-61, 66-75, 81

3616-30, 38, 40, 42, 46, 56, 88 (2/99)

3588, 90, 3605, 08, 10, 12, 31, 34, 36, 44, 48,

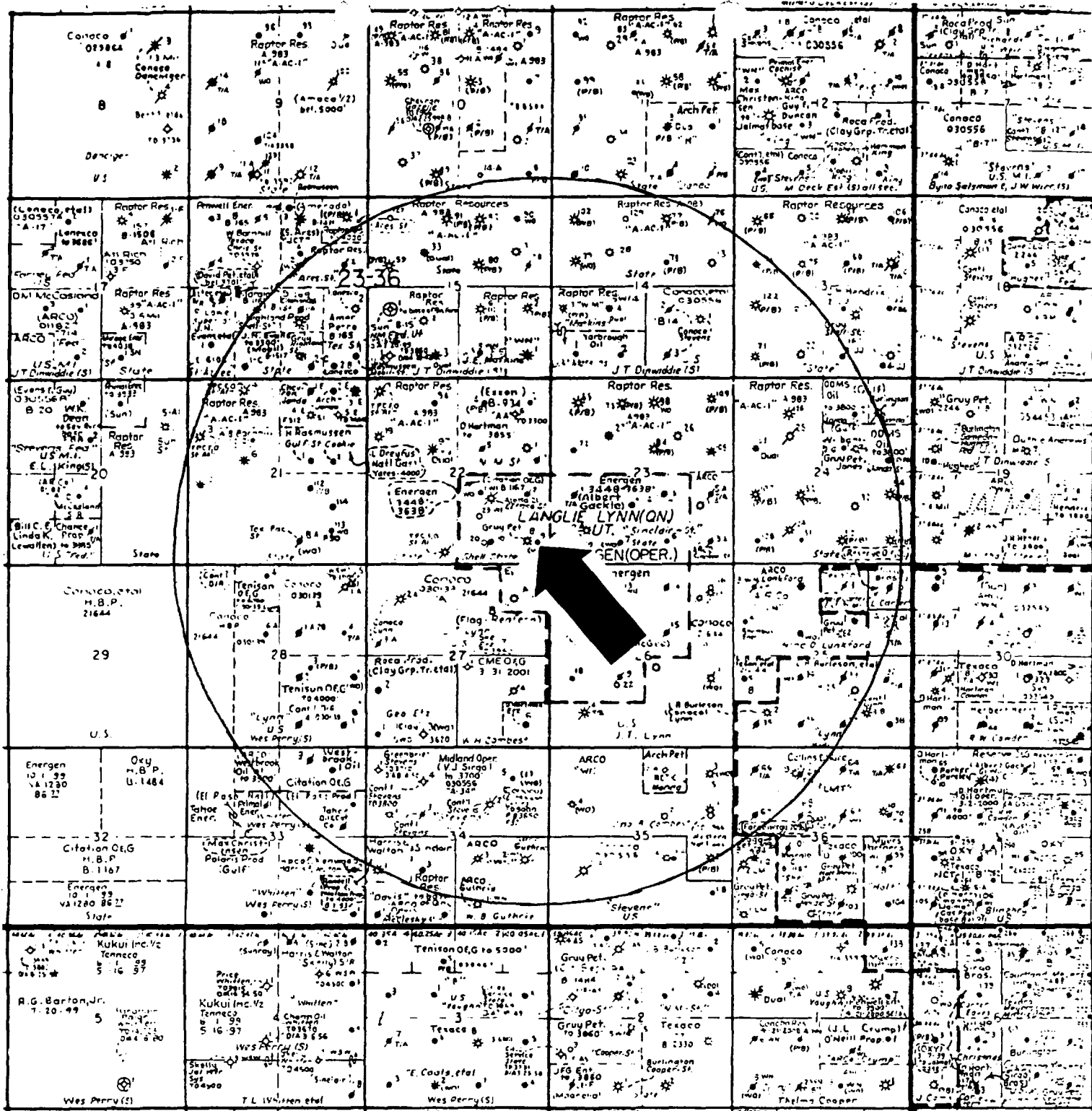
3650, 52, 54, 58, 60, 67, 69, 72, 74, 81, 84, 90, 92

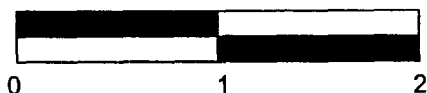
3702, 11, 14, (4/63)

Frac: 30,000 gal lease oil + 40,000# sand (4/63)

PBD: 3773'

TD = 3800'





LANGLIE-LYNN #9
LANGLIE-LYNN UNIT
LANGLIE-MATTIX FIELD
T23S – R36E
Lea County, New Mexico
HALF MILE RADIUS

JECTION WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #12

WELL LOCATION: 660' FNL, 660' FWL D 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 7-5/8"

Cemented with: 200 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4-1/2"

Cemented with: 300 sacks (or) _____ ft³

Top of Cement: 2100'

Method Determined: TS

Total Depth: 3750'

Slim Hole Casing

Hole Size: 4-1/2"

Casing Size: 2-7/8"

Cemented with: 545 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Injection Interval

3446' feet to 3682' (Indicate whether Open Hole or perforated) perforated

Proposed Tubing Detail

Tubing Size: 2-3/8" J-55

Lining Material: Internal Plastic Coated (IPC)

Type of Packer: Baker "Lok-Set"

Packer Setting Depth: ± 3350'

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

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: Seven Rivers-Queen-Grayburg
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze: _____

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

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

| |
|---|
| WELL API NO. 30-025-20052 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. |
| 7. Lease Name or Unit Agreement Name: Langlie Lynn Queen Unit |
| 8. Well No. 12 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVRs/Queen/GB |
| 10. Elevation (Show whether DR, RKB, RT, GR, etc.) |

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

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

2. Name of Operator
Energen Resources Corporation

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

4. Well Location
Unit Letter D : 660 feet from the North line and 660 feet from the West line
Section 23 Township 23S Range 36E NMPM County Lea

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

NOTICE OF INTENTION TO:

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

OTHER: Convert to Injection ☐

SUBSEQUENT REPORT OF:

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

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 WSU, pull all production equipment. TIH w/ 2 1/2" RBP to 3,500', pressure test casing to 500# for 30 mins. POOH & reperf the 7 RVRs/ Queen. Acidize w/ 3,000 gals 15% HCL. Run injection packer & tubing. Perform casing integrity test and begin water injection after approval of permit.

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

SIGNATURE Denise Menoud TITLE Production Tech. DATE 04/13/2000

Type or print name Denise Menoud Telephone No. (915)687-2074
(This space for State use)

APPROVED BY _____ TITLE _____ DATE _____
Conditions of approval, if any:

LANGSTON RESOURCES, INC.
Langlie Lynn Unit #12
Lea County, NM

GL Elevation: 3368'
KI Elevation: 3378'
Location: 660' FNL, 660' FWL,
Sec 26, T-23-S, R-36-E

Conductor:
None

Surface Casing:
7-5/8" 24# H-40, ST&C
@ 330' in 11" hole
Cemented to surface
W/200 sx 50/50 Pozmix

Well Head Assembly:

Current Conditions: Jan-99
Active-Pumping

Intermediate Casing:
None

4-1/2" casing leaks from 580-1300'

2100' 2100' TOC: 2100' by TS

Slim Hole String: (10/80)
2-7/8" tubing @ 3748'
Cemented to surface with 545 Sx "C"

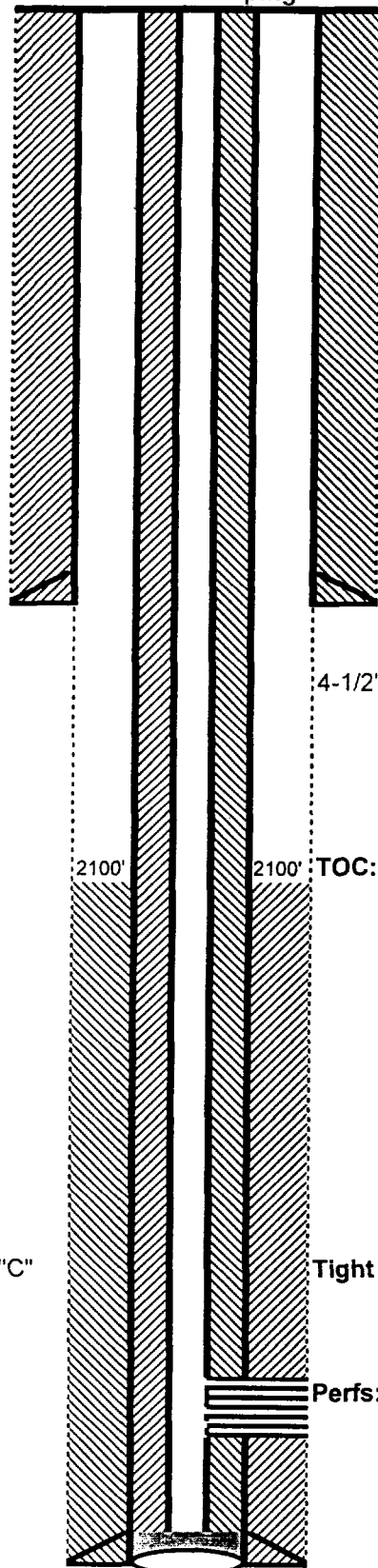
Tight Spot @ 3416' in 2-7/8" casing

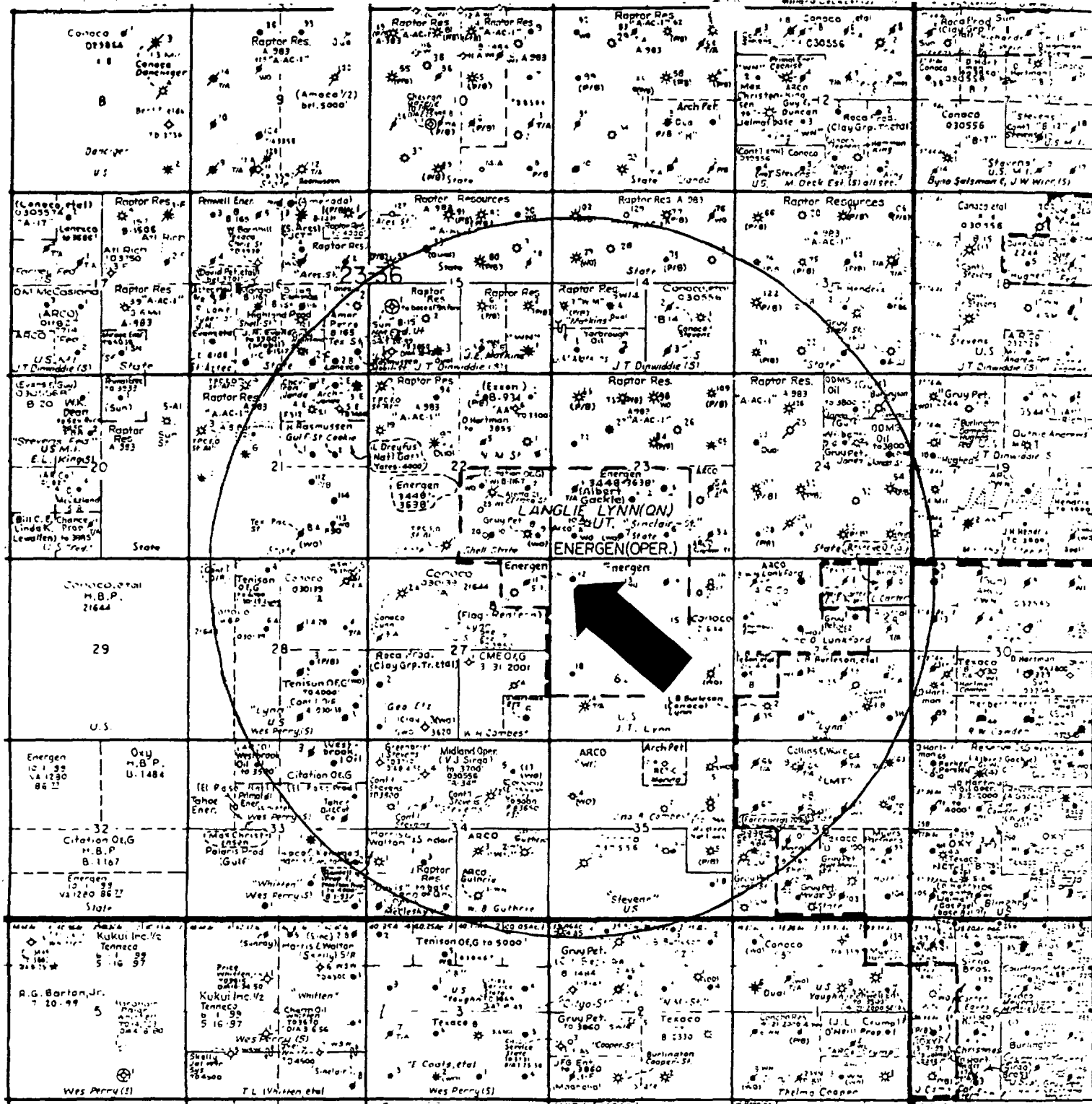
Production Casing:
4 1/2" 9.50# J-55 ST&C
@ 3750' in 6-3/4" hole
300 sx Regular cement

Perfs: 3548-50, 64-66, 82-84,
3605-07, 08-10, 16-18, 24-26, 28-30, 42-44,
3648-50, 53-55, 59-61, 66-68, 80-82'
(Perfed 11/62, Re-perfed 10/80)
3642-82' (Re-perf 3/88, 18 holes)

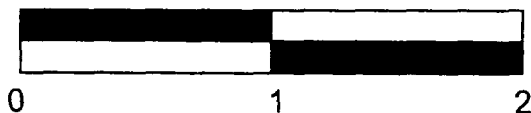
Frac: 25,000 gal lease oil + 37,500# sand (11/62)

PBD: 3720'
TD = 3750'





MILES



LANGLIE-LYNN #12
 LANGLEIE-LYNN UNIT
 LANGLEIE-MATTIX FIELD
 T23s - R36E
 Lea County, New Mexico
TWO MILE RADIUS

INJECTION WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #14

WELL LOCATION: 660' FNL, 1980' FEL B 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 7-5/8"

Cemented with: 200 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4-1/2"

Cemented with: 300 sacks (or) _____ ft³

Top of Cement: 2600'

Method Determined: TS

Total Depth: 3720'

Injection Interval

3408' feet to 3586' (Indicate whether Open Hole or perforated) perforated

Proposed Tubing Detail

Tubing Size: 2-3/8" J-55

Lining Material: Internal Plastic Coated (IPC)

Type of Packer: Baker "Lok-Set"

Packer Setting Depth: 3393'

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

Additional Data

- Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
- Name of the Injection Formation: Seven Rivers-Queen-Grayburg
- Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
- 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. No
- Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze: _____

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. 30-025-20191 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 23267 |
| 7. Lease Name or Unit Agreement Name: Langlie Lynn Queen Unit |
| 8. Well No. 14 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVR/Queen/GB |
| 10. Elevation (Show whether DR, RKB, RT, GR, etc.) |

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

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

2. Name of Operator
Energen Resources Corporation

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

4. Well Location
Unit Letter B : 660 feet from the North line and 1980 feet from the East line
Section 26 Township 23S Range 36E NMPM County Lea

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

NOTICE OF INTENTION TO:

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

OTHER: ☐

SUBSEQUENT REPORT OF:

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

OTHER: ☐

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 recompletion.

03/07/00: MIRUPU. Tag RBP at 3360'. PU & set packer @ 3,340' and test RBP to 530#, no leak-off. Pressure test failed. Csg leak at 703'-989' FS.

03/10/00-03/18/00: RIH to 1233', spot 2 sacks sand out EOT. Tag CR @ 949', PU to 948', spot 25 sx Cl C cmt, tag cmt @ 708'. Shot 4 sqz holes at 703' FS over a 1' interval. Pump 218 sx Cl C cmt (slurry-290 cubic feet). Pressure test failed. DO cmt, circ, fish for RBP. POOH w/RBP. Set RBP @ 1010'.

03/19/00-03/22/00: Spot 2 sx sand on top of RBP. Acidize w/2 barrels 15% HCL. Spot 14 sx Cl C cmt (slurry-19 cubic feet), WOC. Spot 14 sx Cl C cmt (slurry-19 cubic feet). DO cmt. Tag tbq @ 840'. Perf 3,408'-3,416', 3,424'-3,428', & 3,454'-3,462', total 80 holes.

3/23/00-3/24/00: Acidize w/3000 barrels 15% HCL. Swab. RIH w/ 2 3/8" x 4 1/2" "Lok-Set" injection packer, SN, & 2 3/8" tbq. Set inj pkr at 3,393'. PBTD @ 3,607'. Pressure test csg to 500#. Pressure held. Waiting on reinstatement of injection permit.

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

SIGNATURE Judy Bagwell TITLE Production Clerk DATE 4/10/2000

Type or print name Judy Bagwell Telephone No. (915) 687-1155

(This space for State use)

APPROVED BY _____ TITLE _____ DATE _____
Conditions of approval, if any:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #14

Lea County, NM

Current Conditions: Jan-99

TA-WIW

Conductor:
None

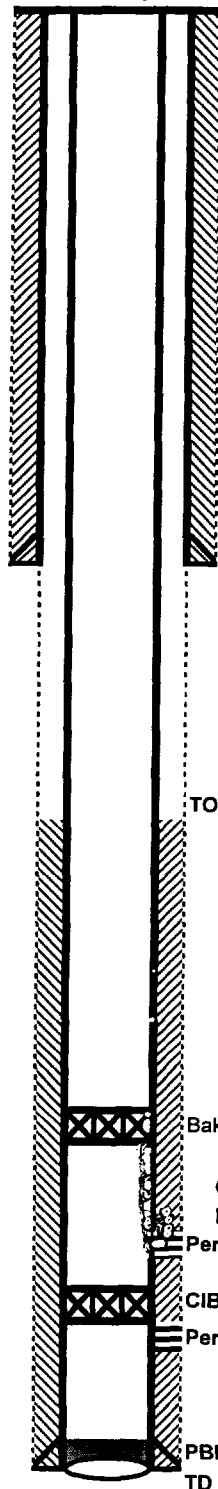
Surface Casing:
7-5/8" 24# Smls, ST&C
@ 302' in 11" hole
Cemented to surface
W/200 sx "A" 2% gel, 2% CaCl₂

GL Elevation: 3364'
DF Elevation: 3374'
Location: 660' FNL, 1980' FEL,
Sec 26, T-23-S, R-36-E

Well Head Assembly:

Intermediate Casing:
None

Production Casing:
4 1/2" 9.50# J-55 ST&C
@ 3720' in 6-3/4" hole
250 sx "C" + 4% gel, salt saturated



TOC: 2600' by TS

Baker Lok-Set RBP @ 3370' (7/91)

Original WIW Packer was set @ 3438'

Possible hole @ 3455' 80% water inj @ 3451-71' (3/90)

Perfs: 3474, 80, 95

3515, 19, 27, 35, 50-52, 58-60, 69-71, 84-86'

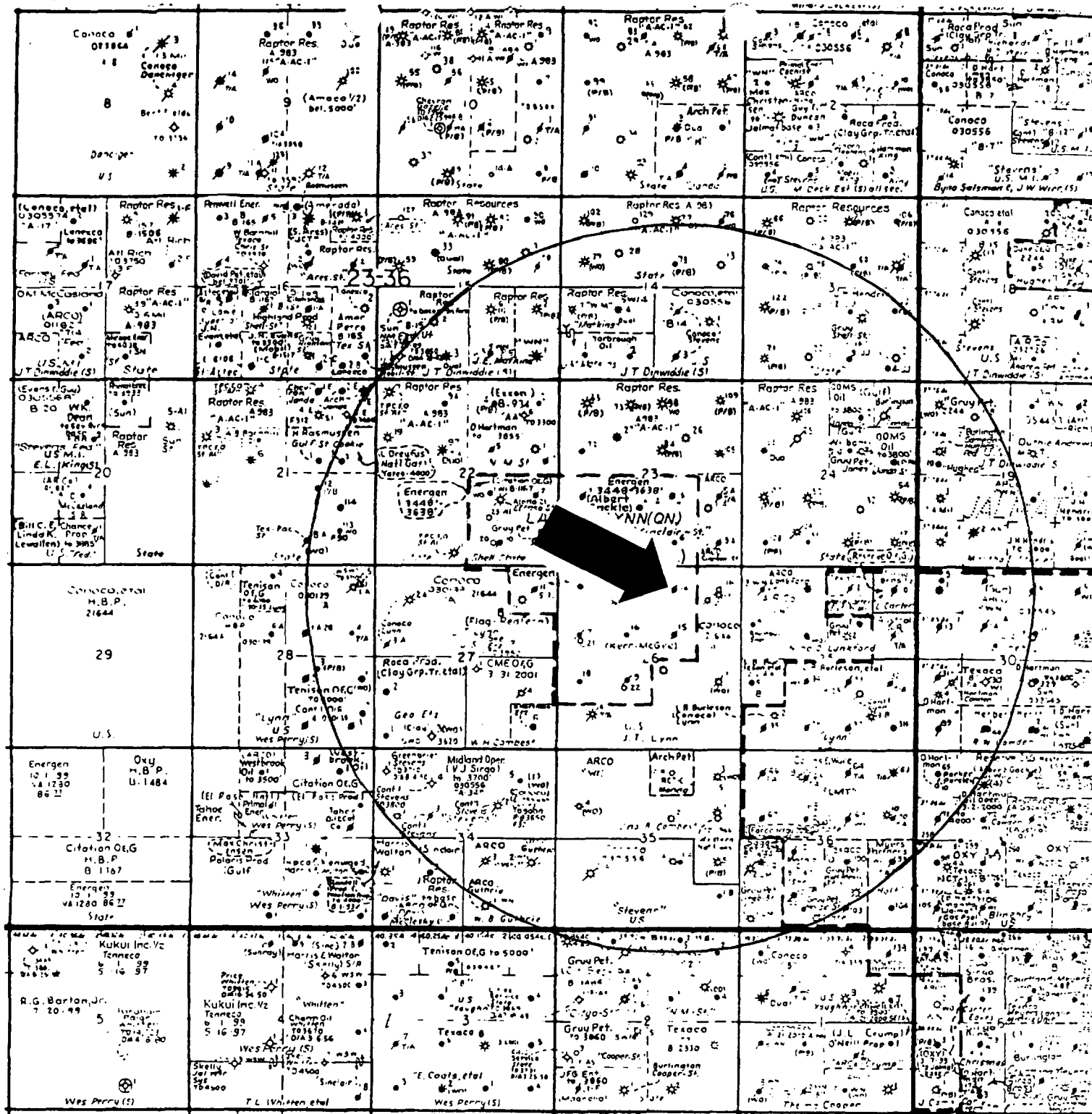
CIBP @ 3605'

Perfs: 3620-22, 34-36, 53-55'

Frac: 40,000 gal lease oil + 60,000# sand

PBD:

TD = 3720'



MILES



0

1

2

LANGLIE-LYNN #14
LANGLIE-LYNN UNIT
LANGLIE-MATTIX FIELD
T23s - R36E
Lea County, New Mexico
TWO MILE RADIUS

INJECTION WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #16

WELL LOCATION: 1980' FNL, 1980' FWL F 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"
Casing Size: 7-5/8"
Cemented with: 250 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2"
Cemented with: 200 sacks (or) _____ ft³
Top of Cement: 2450'
Method Determined: TS
Total Depth: 3700'

Injection Interval

3468' feet to 3653' (Indicate whether Open Hole or perforated) perforated

Proposed Tubing Detail

Tubing Size: 2-3/8" J-55
Lining Material: Internal Plastic Coated (IPC)
Type of Packer: Baker "Lok-Set"
Packer Setting Depth: ± 3350'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

- Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
- Name of the Injection Formation: Seven Rivers-Queen-Grayburg
- Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
- 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. No
- Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze: _____

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

| |
|---|
| WELL API NO. 30-025-21229 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 23267 |
| 7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit |
| 8. Well No. 16 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVRs/Queen/GB |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) |

| | |
|---|--|
| SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) | |
| 1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Convert to WIW | |
| 2. Name of Operator Energen Resources Corporation | |
| 3. Address of Operator 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705 | |
| 4. Well Location Unit Letter <u>F</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>1980</u> Feet From The <u>West</u> Line Section <u>26</u> Township <u>23S</u> Range <u>36E</u> NMPM Lea County | |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | |

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: Convert to WIW ☐

SUBSEQUENT REPORT OF:

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

MIRU WSU, pull all production equipment. TIH w/ RBP to 3,500', pressure test casing to 500 psi for 30 minutes. POH & re-perforate the 7 RVRs/Queen @3,468'-72', @ 3,478'-86', and @ 3,502'-08'. Acidize w/ 3,000 gals. Run injection packer and tubing, perform casing integrity test and begin water injection.

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

SIGNATURE D. Menoud TITLE Prod. Tech. DATE 3/13/2000
TYPE OR PRINT NAME Denise Menoud TELEPHONE NO. 915-687-2000

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #16

Lea County, NM

GI Elevation: 3356'

KL Elevation: 3367'

Location: 1980' FNL, 1980' FWL,
Sec 26, T-23-S, R-36-E

Conductor:

None

Surface Casing:

7-5/8" 24# Smls, ST&C

@ 319' in 11" hole

Cemented to surface

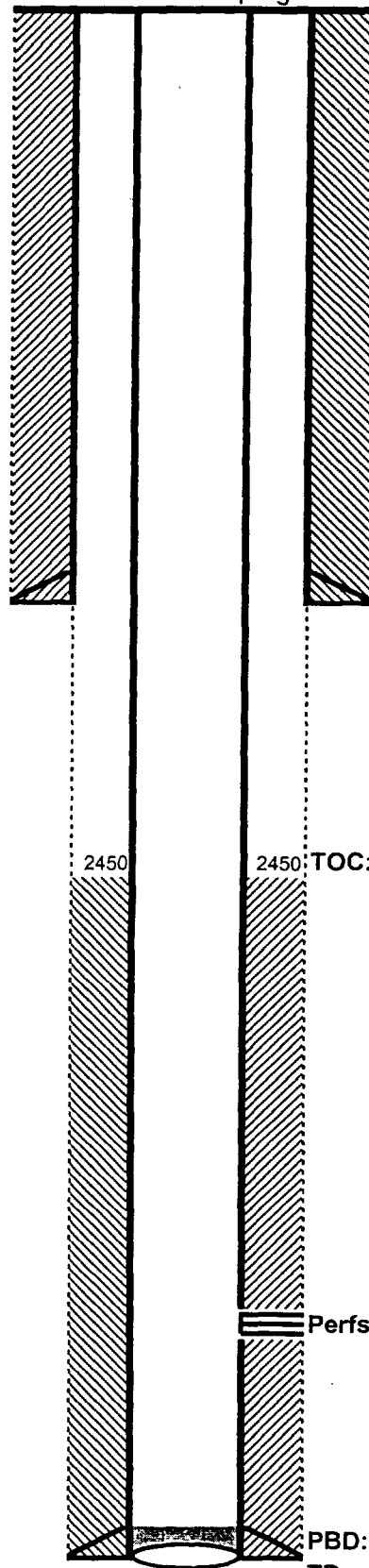
W/250 sx 50/50 Pozmix

Well Head Assembly:

Current Conditions: Jan-99
Active-Pumping

Intermediate Casing:

None



2450

2450

TOC: 2450' by TS

Perfs:

3519, 36, 55, 79, 84, 88, 96

3600, 11, 24, 33, 48, 53 (1 JSPF)

Frac: 40,000 gal lease oil + 60,000# sand

Production Casing:

4 1/2" 9.50# J-55 ST&C

@ 3700' in 6-3/4" hole

200 sx "C" Neat

PBD:

TD = 3700'

SECTION WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #18

WELL LOCATION: 1980' FSL, 660' FWL L 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 9-7/8"
Casing Size: 7-5/8"
Cemented with: 98 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2"
Cemented with: 100 sacks (or) _____ ft³
Top of Cement: 2400'
Method Determined: TS
Total Depth: 3710'

Injection Interval

3540' feet to 3681' (Indicate whether Open Hole or perforated) perforated

Proposed Tubing Detail

Tubing Size: 2-3/8" J-55
Lining Material: Internal Plastic Coated (IPC)
Type of Packer: Baker "Lok-Set"
Packer Setting Depth: ± 3350'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: Seven Rivers-Queen-Grayburg
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. No
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze: _____

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240DISTRICT II
P.O. Drawer DD, Artesia, NM 88210DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

| | |
|------------------------------|--|
| WELL API NO. | 30-025-21458 |
| 5. Indicate Type of Lease | STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. | 23267 |

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

| | |
|--|---|
| 1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Convert to WIW | 7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit |
| 2. Name of Operator Energen Resources Corporation | 8. Well No. 18 |
| 3. Address of Operator 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705 | 9. Pool name or Wildcat Langlie Mattix 7 RVRs/Queen/GB |
| 4. Well Location Unit Letter <u>L</u> : <u>1980</u> Feet From The <u>South</u> Line and <u>660</u> Feet From The <u>West</u> Line Section <u>26</u> Township <u>23S</u> Range <u>36E</u> NMPM Lea County | 10. Elevation (Show whether DF, RKB, RT, GR, etc.) |

| | |
|---|---|
| 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data | |
| NOTICE OF INTENTION TO: | SUBSEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> |
| OTHER: <u>Convert to WIW</u> <input type="checkbox"/> | PLUG AND ABANDONMENT <input type="checkbox"/> |
| | CASING TEST AND CEMENT JOB <input type="checkbox"/> |
| | OTHER: <input type="checkbox"/> |

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.

MIRU WSU, pull all production equipment. TIH w/ RBP to 3,500', pressure test casing to 500 psi for 30 minutes. POH & re-perforate the 7 RVRs/Queen, acidize w/ 3,000 gals. Run injection packer and tubing, perform casing integrity test and begin water injection.

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

SIGNATURE D. Menoud TITLE Prod. Tech. DATE 3/13/2000
TYPE OR PRINT NAME Denise Menoud TELEPHONE NO. 915-687-2074

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #18
Lea County, NM

Gl Elevation: 3358'

D. Elevation: 3370'

Location: 1980' FSL, 660' FWL,
Sec 26, T-23-S, R-36-E

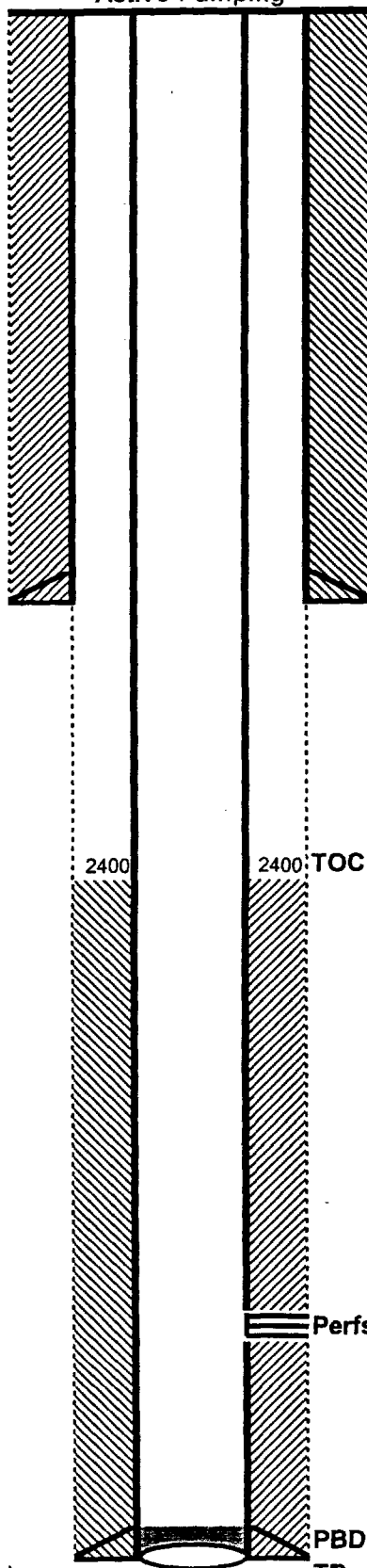
Current Conditions: Jan-99
Active-Pumping

Conductor:
None

Surface Casing:
7-5/8" 24# Smls, ST&C
@ 312' in 11" hole
Cemented to surface
W/98 sx"C" + 2% CaCl₂

Well Head Assembly:

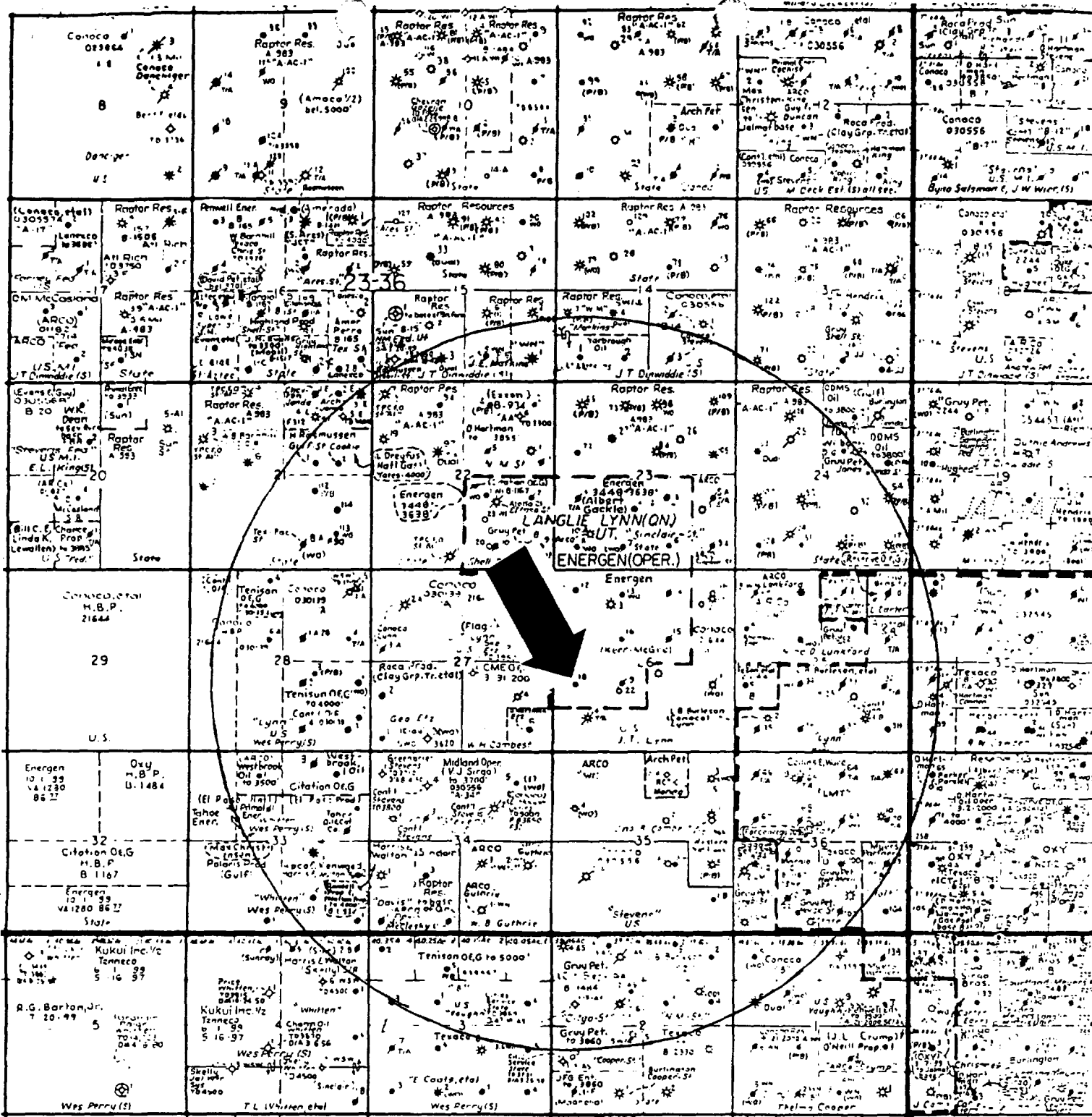
Intermediate Casing:
None



Production Casing:
4 1/2" 9.50# J-55 ST&C
@ 3710' in 6-3/4" hole
60 sx "C" + 4% gel, salt saturated
40 sx "C" + 12% gel, salt saturated

Perfs: 3540, 55, 89
3625, 52, 64, 71, 81 (1 JSPF)

Frac: 40,000 gal lease oil + 60,000# sand



LANGLIE-LYNN #18
LANGLIE-LYNN UNIT
LANGLIE-MATTIX FIELD
T23s - R36E
Lea County, New Mexico
TWO MILE RADIUS

LANGLIE LYNN TABLE OF WELLS (1/2 Mile Area of Review)

LOCATION.

| ID | Type | OPERATOR | LEASE & WELL | Letter | Sec. | Twp | Range | Footage | Date Drilled | Address | Notes |
|-------|----------|-------------------------|-----------------------------|--------|------|------|-------|----------------------|--------------|--|----------------------|
| 3300' | P&A | Grace Petroleum | New Mexico "AA" State #6 | A | 22 | T23S | R36E | 990' FNL, 990' FEL | 07/05/1973 | P.O. Drawer 2358, Midland TX 79702 | |
| 3645' | O&G | Raptor Resources Inc. | State A A/C-1 #97 | F | 22 | T23S | R36E | 1980' FNL, 1980' FEL | 10/27/1960 | P.O. Drawer 2358, Midland TX 79702 | |
| 3774' | P&A | Grace Petroleum | New Mexico "AA" State #5 | G | 22 | T23S | R36E | 1980' FNL, 1980' FEL | 07/22/1960 | P.O. Drawer 2358, Midland TX 79702 | |
| 3630' | P&A | Grace Petroleum | New Mexico "AA" State #3 | H | 22 | T23S | R36E | 2310' FNL, 330' FEL | 12/24/1959 | P.O. Drawer 2358, Midland TX 79702 | |
| 3130' | G | Doyle Hartman | New Mexico "AA" State #1 | H | 22 | T23S | R36E | 1980' FNL, 660' FEL | 08/15/1950 | P.O. Box 10426, Midland TX 79701 | |
| 3765' | O&G | Energien Resources | Langlie Lynn Queen Unit #2 | J | 22 | T23S | R36E | 1980' FSL, 660' FEL | 02/29/1960 | | |
| 3812' | P&A | Energien Resources | Langlie Lynn Queen Unit #1 | J | 22 | T23S | R36E | 1980' FSL, 1980' FEL | 09/07/1960 | | |
| | | Lanexco Inc. | El Paso State #1 | J | 22 | T23S | R36E | | | 310 W. Well, Midland TX 79701 | |
| 3843' | Drilling | Energien Resources | Langlie Lynn Queen Unit #23 | J | 22 | T23S | R36E | 1883' FSL, 1950' FEL | Drilling | | Drill as injector |
| 5095' | P&A | Clayton Williams Energy | New Mexico State A A/C #1 | N | 22 | T23S | R36E | 330' FSL, 2310' FNL | 10/11/1930 | Six Desta Drive Suite 3000, Midland TX 79705 | Replace #10 producer |
| 3800' | Drilling | Energien Resources | Langlie Lynn Queen Unit #20 | O | 22 | T23S | R36E | 672' FSL, 1797' FEL | Drilling | | Convert to injector |
| 3800' | P&A | Energien Resources | Langlie Lynn Queen Unit #10 | O | 22 | T23S | R36E | 640' FSL, 1650' FEL | 06/12/1963 | | |
| 3800' | O&G | Energien Resources | Langlie Lynn Queen Unit #9 | P | 22 | T23S | R36E | 660' FSL, 330' FEL | 04/12/1963 | | |
| 3428' | G | Gruy Petroleum Mgmt | Shell State #3 | P | 22 | T23S | R36E | 660' FSL, 660' FEL | 04/14/1954 | P.O. Box 14097, Irving TX 75014 | |
| 3595' | O&G | Raptor Resources Inc. | State A A/C-1 #98 | B | 23 | T23S | R36E | 660' FNL, 2310' FEL | 12/05/1960 | P.O. Box 160430, Austin TX 78716 | |
| 3595' | O&G | Raptor Resources Inc. | State A A/C-1 #73 | C | 23 | T23S | R36E | 660' FNL, 1980' FEL | 11/22/1959 | P.O. Box 160430, Austin TX 78716 | |
| 3587' | O&G | Raptor Resources Inc. | State A A/C-1 #65 | D | 23 | T23S | R36E | 660' FNL, 760' FEL | 08/26/1959 | P.O. Box 160430, Austin TX 78716 | |
| 3670' | O&G | Raptor Resources Inc. | State A A/C-1 #72 | E | 23 | T23S | R36E | 1980' FNL, 660' FEL | 11/15/1959 | P.O. Box 160430, Austin TX 78716 | |
| 3585' | O&G | Raptor Resources Inc. | State A A/C-1 #27 | F | 23 | T23S | R36E | 1650' FNL, 1650' FEL | 03/20/1949 | P.O. Box 160430, Austin TX 78716 | |
| 3148' | O&G | Raptor Resources Inc. | State A A/C-1 #26 | G | 23 | T23S | R36E | 1980' FNL, 2310' FEL | 02/07/1960 | P.O. Box 160430, Austin TX 78716 | |
| 3669' | O&G | Raptor Resources Inc. | State A A/C-1 #105 | H | 23 | T23S | R36E | 2080' FNL, 660' FEL | 02/07/1949 | P.O. Box 160430, Austin TX 78716 | |
| 3300' | G | Arco Permian | Sinclair A State #1 | I | 23 | T23S | R36E | 1650' FSL, 990' FEL | 08/28/1964 | P.O. Box 160430, Austin TX 78716 | |
| 3755' | O&G | Arco Permian | Sinclair A State #5 | I | 23 | T23S | R36E | 1980' FSL, 660' FEL | 02/01/1962 | P.O. Box 1710, Hobbs NM 88240 | |
| 3734' | Inj. | Energien Resources | Langlie Lynn Queen Unit #5 | J | 23 | T23S | R36E | 1980' FSL, 1980' FEL | 11/17/1960 | | Continue Injection |
| 3751' | O&G | Energien Resources | Langlie Lynn Queen Unit #4 | K | 23 | T23S | R36E | 1650' FSL, 2310' FNL | 11/03/1960 | | Return to Injection |
| 3791' | Inj. | Energien Resources | Langlie Lynn Queen Unit #3 | L | 23 | T23S | R36E | 1980' FSL, 660' FEL | 10/10/1960 | | |
| 3711' | O&G | Energien Resources | Langlie Lynn Queen Unit #8 | M | 23 | T23S | R36E | 660' FSL, 660' FEL | 01/30/1963 | | |
| 3550' | G | Arco Permian | Sinclair A State #10 | M | 23 | T23S | R36E | 990' FSL, 990' FEL | 03/24/1990 | P.O. Box 1710, Hobbs NM 88240 | |
| 3800' | Inj. | Energien Resources | Langlie Lynn Queen Unit #7 | N | 23 | T23S | R36E | 660' FSL, 1980' FEL | 11/25/1962 | | Return to injection |
| 3728' | O&G | Energien Resources | Langlie Lynn Queen Unit #6 | O | 23 | T23S | R36E | 660' FSL, 1980' FEL | 12/21/1962 | | |
| 3750' | P&A | Arco Permian | Sinclair A State #9 | P | 23 | T23S | R36E | 660' FSL, 660' FEL | 12/30/1963 | P.O. Box 1710, Hobbs NM 88240 | |
| 3176' | O&G | Raptor Resources Inc. | State A A/C-1 #107 | L | 24 | T23S | R36E | 1980' FSL, 660' FEL | 07/26/1964 | | |
| 3750' | P&A | Arco Permian | Lankford #3 | D | 25 | T23S | R36E | 660' FNL, 660' FEL | 05/08/1981 | P.O. Box 1710, Hobbs NM 88240 | |
| 3800' | O&G | Rhombus Operating | Lankford #4 | E | 25 | T23S | R36E | 1650' FNL, 330' FEL | 01/16/1985 | 200 N. Lorraine Suite 1270, Midland TX 79701 | |
| 3270' | G | Conoco | Lynn B-1 #17 | A | 26 | T23S | R36E | 810' FNL, 660' FEL | 05/28/1996 | 10 Desta Drive Suite 100W, Midland TX 79705-4500 | |
| 3270' | G | Conoco | Lynn B-1 #2 | A | 26 | T23S | R36E | 990' FNL, 990' FEL | 03/31/1948 | 10 Desta Drive Suite 100W, Midland TX 79705-4500 | |
| 3270' | G | Conoco | Lynn B-1 #16 | A | 26 | T23S | R36E | 660' FNL, 660' FEL | 09/25/1974 | 10 Desta Drive Suite 100W, Midland TX 79705-4500 | |
| 3720' | Inj. | Energien Resources | Langlie Lynn Queen Unit #14 | B | 26 | T23S | R36E | 660' FNL, 1980' FEL | 08/11/1963 | | Return to Injection |
| 3700' | O&G | Energien Resources | Langlie Lynn Queen Unit #13 | C | 26 | T23S | R36E | 660' FNL, 1980' FEL | 04/23/1963 | | |
| 3385' | G | Conoco | Lynn B-1 #3 | C | 26 | T23S | R36E | 990' FNL, 1650' FEL | 04/03/1949 | 10 Desta Drive Suite 100W, Midland TX 79705-4500 | |
| 3750' | O&G | Energien Resources | Langlie Lynn Queen Unit #12 | D | 26 | T23S | R36E | 660' FNL, 660' FEL | 08/10/1963 | | Convert to injector |
| 3750' | Loc. | Energien Resources | Langlie Lynn Queen Unit #21 | E | 26 | T23S | R36E | 2130' FNL, 657' FNL | Loc. | | Replace #17 producer |
| 3725' | P&A | Energien Resources | Langlie Lynn Queen Unit #17 | E | 26 | T23S | R36E | 1980' FNL, 660' FEL | 11/16/1964 | | Convert to injector |
| 3700' | O&G | Energien Resources | Langlie Lynn Queen Unit #16 | F | 26 | T23S | R36E | 1980' FNL, 1980' FEL | 10/06/1965 | | Convert to producer |
| 3675' | TA | Energien Resources | Langlie Lynn Queen Unit #15 | G | 26 | T23S | R36E | 1980' FNL, 1980' FEL | 03/06/1965 | | |
| 3614' | G | Conoco | Lynn B-1 #1 | J | 26 | T23S | R36E | 2310' FSL, 2310' FEL | 01/31/1929 | 10 Desta Drive Suite 100W, Midland TX 79705-4500 | Replace #19 producer |
| 3725' | Loc. | Energien Resources | Langlie Lynn Queen Unit #22 | K | 26 | T23S | R36E | 1832' FSL, 1980' FEL | Loc. | | Convert to injector |
| 3710' | P&A | Conoco | Langlie Lynn Queen Unit #19 | K | 26 | T23S | R36E | 1980' FSL, 1980' FEL | 02/16/1965 | | |
| 3455' | G | Conoco | Langlie Lynn Queen Unit #18 | L | 26 | T23S | R36E | 1980' FSL, 660' FEL | 10/14/1965 | | Convert to injector |
| 3480' | G | Conoco | Lynn B-1 #4 | M | 26 | T23S | R36E | 990' FSL, 990' FEL | 05/01/1949 | 10 Desta Drive Suite 100W, Midland TX 79705-4500 | |
| 3730' | Inj. | Energien Resources | Langlie Lynn Queen Unit #11 | A | 27 | T23S | R36E | 990' FNL, 990' FEL | 05/09/1948 | 10 Desta Drive Suite 100W, Midland TX 79705-4500 | |
| 3550' | P&A | HCW Exploration | George Etz #4 | I | 27 | T23S | R36E | 660' FNL, 660' FEL | 07/16/1963 | | Convert to producer |
| 3600' | O&G | Roca Petroleum | George Etz #6 | P | 27 | T23S | R36E | 1650' FSL, 990' FEL | 03/29/1949 | P.O. Box 10585, Midland TX 79702 | |
| | | | | | | | | 660' FSL, 660' FEL | 02/27/1986 | P.O. Box 10139, Midland TX 79702 | |

WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #1

WELL LOCATION: 1980' FSL, 1980' FEL J 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 8-5/8"

Cemented with: 280 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4 1/2"

Cemented with: 250 sacks (or) _____ ft³

Top of Cement: 2745'

Method Determined: CBL

Total Depth: 3812'

Injection Interval

 P&A feet to (Indicate whether Open Hole or perforated)

Tubing Detail

Tubing Size:

Lining Material:

Type of Packer:

Packer Setting Depth:

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

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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.
- Original perfs in interval from 3622' to 3766'
- Originally PA'd 11-2-92
- Set cmt retainer @ 3550'
- Squeezed w/ 50 sx
- Spot 7 sx cmt on top of retainer (TOC 3425')
- Spot 25 sx cmt @ 1300' (TOC @ 931')
- Perf. @ 375'. Pump 148 sx cmt to surface.
- Re-entry PA'd 1-28-00
- See attached sheet for plugging details
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
- Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze:

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240DISTRICT II
P.O. Drawer DD, Artesia, NM 88210DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.

30-025-09380

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil & Gas Lease No.

23267

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

Langlie Lynn Queen Unit

1. Type of Well:

OIL
WELL ☐GAS
WELL ☐OTHER ☐ Plugged

2. Name of Operator

Energen Resources Corporation

8. Well No.

1

3. Address of Operator

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

9. Pool name or Wildcat

Langlie Mattix 7 RVS Queen

4. Well Location

Unit Letter J : 1980 Feet From The South Line and 1980 Feet From The East LineSection 22 Township 23-S Range 36-E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

3388' GL

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

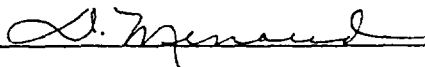
REMEDIAL WORK ☒ALTERING CASING ☐COMMENCE DRILLING OPNS. ☐PLUG AND ABANDONMENT ☒CASING TEST AND CEMENT JOB ☐OTHER: ☐

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.

01/27-28/2000: Cut-off the P&A marker. Stubbed the 4 1/2" casing back to surface. NU a Larkin "R" type tubing head, & BOP. RIH w/ a 3 7/8" blade bit. Tagged up @ 167'. Drilled medium-hard cement down to & fell out @ 372'. Circulated the hole clean & pressured the casing the casing to 500# which leaked-off down to 250# in 6 minutes. RIH & tagged up @ 958'. Drilled cement to 1,021', determined bit was outside the casing. POOH. RIH to 1,021'. RU Triple N Services & mixed & spotted 25 sacks of Class "C" neat. POOH to 386', spotted 25 sacks of Class "C" neat. POOH to 31' FS & mixed & spotted a 10 sack Class "C" Surface plug. Cut-off 4 1/2" casing & welded on Dry-Hole marker. Filled in the working pit, dug up the anchors, filled the cellar, & cleaned the location to it's pre-move-in condition. The well is P&A'd.

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

SIGNATURE



TITLE Production Tech.

DATE 2/15/00

TYPE OR PRINT NAME

Denise Menoud

TELEPHONE NO. (915) 687-2000

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #1

Lea County, NM

GL Elevation: 3388'

KB Elevation: 3399.3'

Location: 1980' FSL, 1980' FEL,
Sec 22, T-23-S, R-36-E

Current Conditions: Mar-00
PxA

Conductor:

None

Surface Casing:

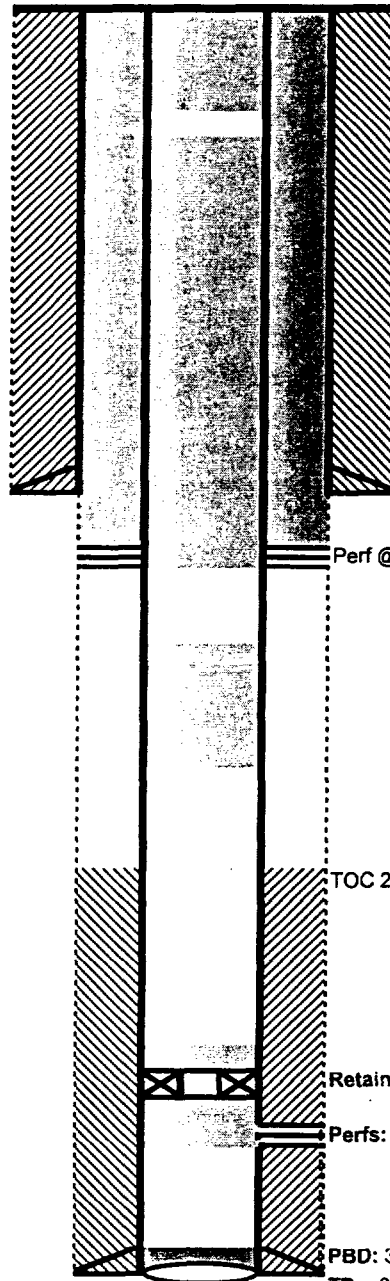
8-5/8" 32# H-40, ST&C
@ 324' in 11" hole
Cemented to surface
W/275 sx Regular Neat

Intermediate Casing:

None

Production Casing:

4 1/2" 11.6# (1-jt) & 9.5 # J-55 ST&C
@ 3812' in 6-3/4" hole
200 Sx Regular Cement + 4% gel



10 sacks "C" at surface (01/28/00)

Well Head Assembly:

None—Well PxA
Dry Hole Marker installed

25 sacks "C" from 386' (01/28/00) (Calc top @ 26')
Perf @ 375' Pump 148 sacks circ. to surface (10/29/92)
Drilled out (01/27/00)

Drilled out to 1021'—bit outside casing (01/27/00)
25 sacks "C" from 1021' (01/28/00)

25 sacks "C" from 1300' (tagged top @ 931') (10/29/92)

TOC 2745' By CBL

7 sx cement on retainer (tag @ 3425')
Retainer @ 3550'- Squeezed w/50 sx (10/29/92)

Perfs: 7 Rivers—3622-28, 34-38, 42-46, 48-52, 60-66'
Queen—3682-3708, 19-24, 29-32, 36-40, 66'
Frac W/ 36,000 gal lease oil + 54,000# sand

PBD: 3782'
TD = 3812'

WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #2

WELL LOCATION: 1980' FSL, 660' FEL I 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 8-5/8" @ 320'

Cemented with: 275 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 7-7/8"

Casing Size: 5-1/2" @ 3761'

Cemented with: 200 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3765'

Injection Interval

3510' feet to 3732' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: 2-3/8" @

Lining Material: _____

Type of Packer: None

Packer Setting Depth: _____

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

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze: _____

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
Encl. Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

| |
|---|
| WELL API NO. 30-025-09379 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. |
| 7. Lease Name or Unit Agreement Name: Langlie Lynn Queen Unit |
| 8. Well No. 2 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVRS/Queen/GB |
| 10. Elevation (Show whether DR, RKB, RT, GR, etc.) |

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

1. Type of Well:

Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

3. Address of Operator

3300 N. "A" St., Bldg 4, Ste. 100, Midland, TX 79705

4. Well Location

Unit Letter I : 1980 feet from the South line and 660 feet from the East line

Section 22 Township 23S Range 36E NMPM County Lea

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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 recompletion.

02/02/00: MIRUPU to repair csg leak between 570'-602' FS. Shot 4 sqz holes @ 2,700' FS & 4 holes @ 1,589' FS. Set cmt ret @ 1,521'. sqz'd the 5 1/2" x 8 5/8" annulus in 2 stages: 400 sx C1 C (slurry-679 cu.ft) & 175 sx C1 C (surry-253 cu.ft.), 5 sx circ

02/04-10/00: D.O. cmt. tested sqz. still had some leak-off. Re-sqz'd as follows: spotted 12 sx @ 2702'(slurry-16.2 cu.ft.), 6 sx @ 1622'. & 12 sx @ 608'. D.O. cmt. tested sqz. pressure held. Ran CNL/GR/CCL, new WL PBTD @ 3738'.

02/11/00: Perf 7 RVRS/Queen @ 3510'-88' (total of 120 new holes). Acidized w/ 3000 gals 15% HCL.

02/16/00: RIH w/ 2 3/8" tbg, set @ 3582'. RIH w/ 2 x 1 1/2 x 12 RWBC pump.

02/29/00: 24 hr retest: 5 BO/ 33 BW/ 0 MCF. RIH w/ add. 4 jts tbg, set @ 3708'.

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

SIGNATURE Denise Menoud TITLE Production Tech. DATE 3/15/2000

Type or print name Denise Menoud Telephone No. (915)687-2074

(This space for State use)

APPROVED BY ORIGINAL SIGNED BY CHRIS WILLIAMS DATE MAR 23 2000
DISTRICT I SUPERVISOR TITLE

Conditions of approval, if any:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #2

Lea County, NM

GI Elevation: 3391'

KL Elevation: 3400.6, 9.6' ACHF

Location: 1980' FSL, 660' FEL,
Sec 22, T-23-S, R-36-E

Current Conditions: Jan-99
Temporarily Abandoned

Conductor:
None

Surface Casing:
8-5/8" 32# H-40, ST&C
@ 330' in 12-1/4" hole
Cemented to surface
W/275 sx Regular Neat

Well Head Assembly:

Intermediate Casing:
None

NOTE: Well records indicate casing leak at unknown depth.
No record of leak location or casing repair

???

???

TOC: unknown

Production Casing:
5 1/2" 15.50# J-55 ST&C
@ 3761' in 7-7/8" hole
200 Sx Regular Cement + 4% gel

Perfs:

7 Rivers: 3590-94'

Queen: 3626-30, 69-73, 85-91, 96-99'

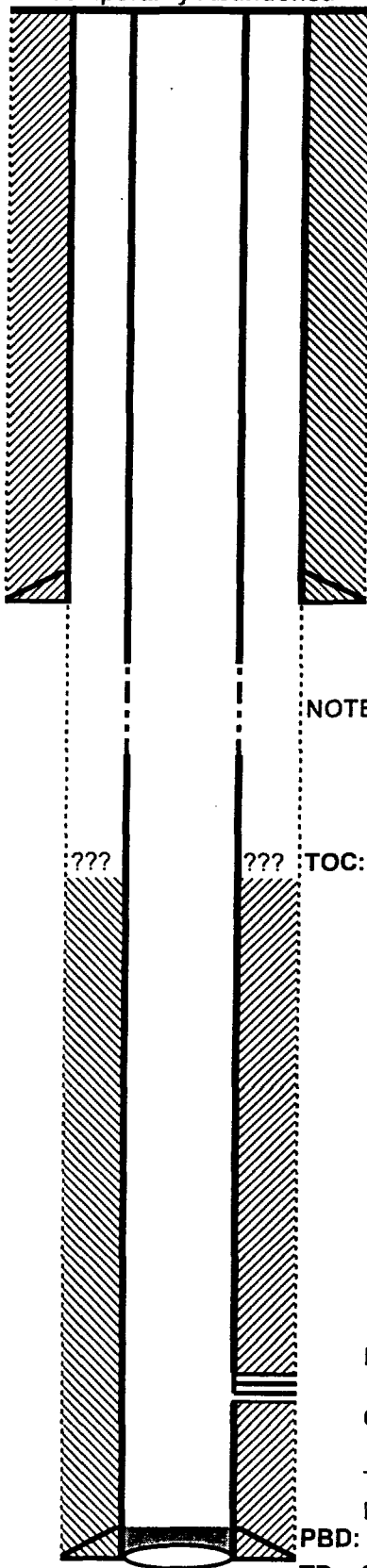
3705-09, 13-16, 19-22, 28-32'

Top interval 4 JSPF, all others 2 JSPF

Frac W/ 27,000 gal lease oil + 1.5 ppg sand

PBD: Baffle @ 3741'

TD = 3765'



WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #4

WELL LOCATION: 1650' FSL, 2310' FWL K 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 15"
Casing Size: 10-3/4" @ 750'
Cemented with: 500 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Intermediate Casing

Hole Size: 10"
Casing Size: 7-5/8" @ 1235'
Cemented with: 500 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____

Production Casing

Hole Size: 6-3/4"
Casing Size: 5-1/2" @ 2900'
Cemented with: 600 sacks
Top of Cement: Unknown
Method Determined: _____

Production Liner

Hole Size: 4-3/4"
Casing Size: 4-1/2" @ 3750'
Cemented with: 115 sacks
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3751' OWDD

Injection Interval

3440' feet to 3628' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: 2-3/8"
Lining Material: _____
Type of Packer: None
Packer Setting Depth: _____
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze: _____

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
En , Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

| |
|---|
| WELL API NO. 30-025-09387 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 23267 |
| 7. Lease Name or Unit Agreement Name: Langlie Lynn Queen Unit |
| 8. Well No. 4 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVRs/Queen/GB |
| 10. Elevation (Show whether DR, RKB, RT, GR, etc.) |

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

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

2. Name of Operator
Energen Resources Corporation

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

4. Well Location
Unit Letter K : 1650 feet from the South line and 2310 feet from the West line
Section 23 Township 23S Range 36E NMPM County Lea

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☒ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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.

02/22-23/00: MIRUPU, pulled production equipment. Cleaned out fill to new PBTD of 3,685'. (could not bail any deeper).

02/24/00: Re-perforated the 7 RVRs/ Queen @ 3,440'-78', (total of 152 holes). Old perfs @ 3,440'-3,526' & 3,542'-3,628'. Acidized perfs w/ 3M gals 15% HCL acid.

02/29/00: RIH w/ rods & 2 3/8" tubing. Tubing landed @ 3,660'. RDPu & RWTP.

03/05/00: Retest: 3 B0/ 27 BW.

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

SIGNATURE Denise Menoud TITLE Production Tech. DATE 03/21/00

Type or print name Denise Menoud Telephone No. (915)687-2074

(This space for State use)

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE MAR 24 2000

Conditions of approval, if any:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #4

Lea County, NM

Elevation: 3370'

Elevation: 3380'

Location: 1650' FSL, 2310' FWL,
Sec 23, T-23-S, R-36-E

Current Conditions: Jan-99
Active-Pumping

Well Head Assembly:

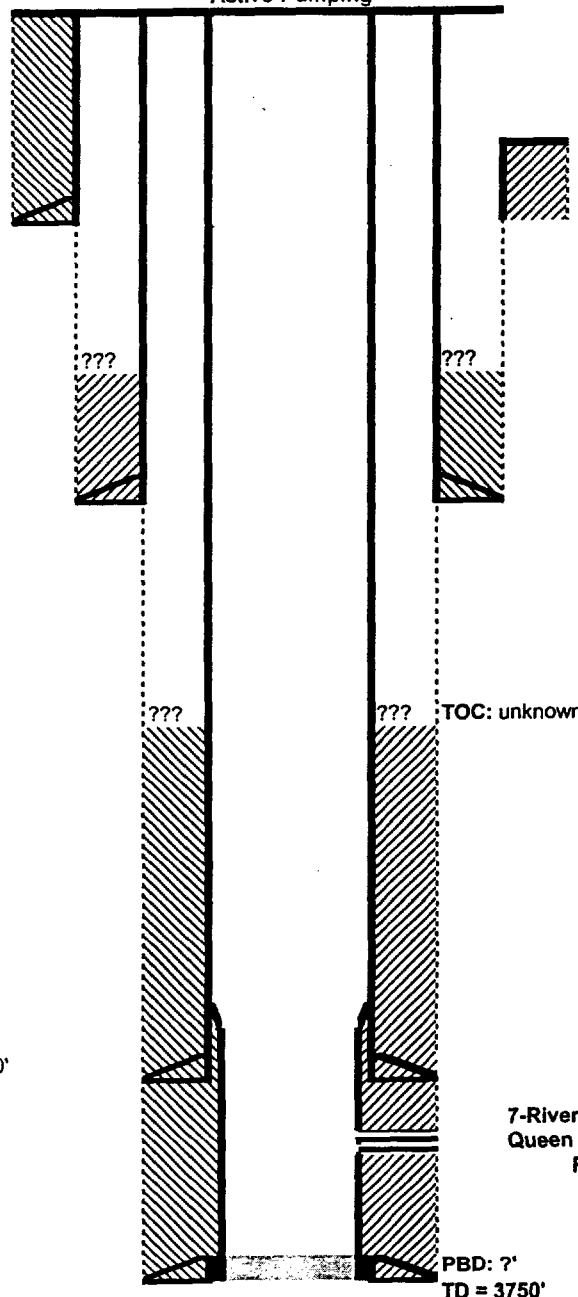
Conductor:
None

Surface Casing:
10-3/4" 28# casing
@ 225' in ?" hole
Cemented to surface
W/500 sacks

7-5/8" 26# Casing @ 1235'
with 500 sacks cement

Production Casing:
5-1/2" 14# @2795'
with 600 sacks

Production Liner:
4 1/2" 16.60# Liner from 2768-3750'
@ 3750' in ?" hole
with 115 sacks



7-Rivers Perfs: 3478-90, 3494-3503, 06, 10, 17-26' (1/90)
Queen Perfs: 3542-70, 3576-3614, 3618-3628'
Frac: 20,000 gals Lease oil

WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #6

WELL LOCATION: 660' FSL, 1980' FEL O 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"
Casing Size: 8-5/8"
Cemented with: 150 sacks (or) ft³
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2"
Cemented with: 1150 sacks (or) ft³
Top of Cement: Unknown
Method Determined:
Total Depth: 3728'

Injection Interval

3456' feet to 3612' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: 2-3/8"
Lining Material:
Type of Packer: None
Packer Setting Depth:
Other Type of Tubing/Casing Seal (if applicable):

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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.
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #6

Lea County, NM

GL Elevation: 3374'

KL Elevation: 3385'

Location: 660' FSL, 1980' FEL,
Sec 23, T-23-S, R-36-E

Current Conditions: Jan-99
Active-Pumping

Conductor:

None

Surface Casing:

8-5/8" 24# J-55, ST&C

@ 269' in 11" hole

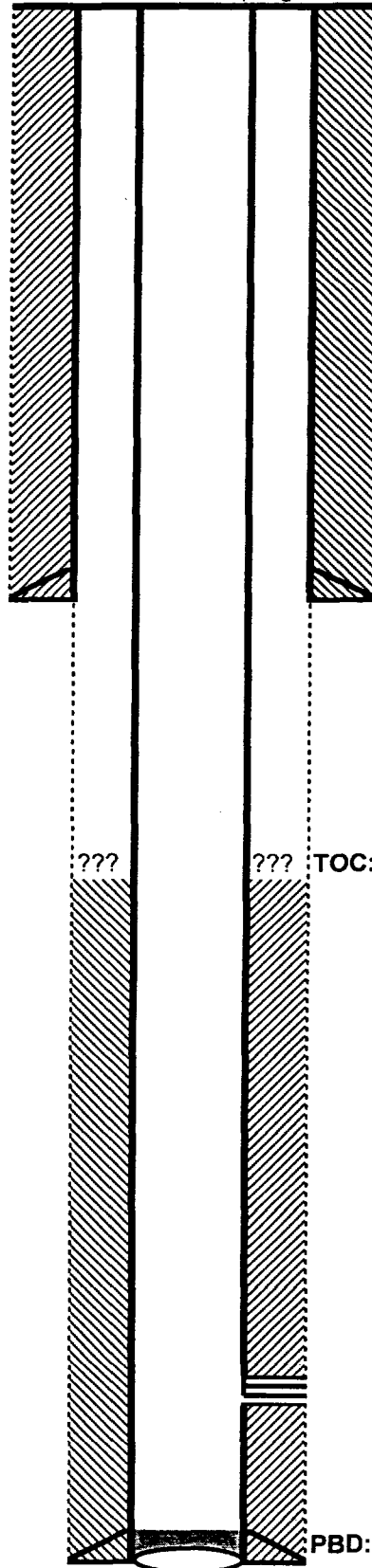
Cemented to surface

W/150 sx 50/50 Pozmix

Well Head Assembly:

Intermediate Casing:

None



???

???

TOC: unknown

Perfs:

3466-72, 82-86 (1/99)

3500-12, 32-56, 66-3600, 3606-12' (1/99)

3550, 55, 68, 76, 81, 86, 94 (12/62)

3601, 11 (12/62)

Frac: 20,000 gal lease oil + 26,000# sand (12/62)

PBD: 3704'

TD = 3727'

Production Casing:

4 1/2" 9.50# J-55 ST&C

@ 3727' in 6-3/4" hole

1100 sx 50/50 Pozmix

50 Sx Regular Cement + Latex

WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #8

WELL LOCATION: 660' FSL, 660' FWL M 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 8-5/8"

Cemented with: 150 sacks (or) _____ ft3

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4-1/2"

Cemented with: 1926 sacks (or) _____ ft3

Top of Cement: Surface

Method Determined: Visual

Total Depth: 3712'

Injection Interval

3482' feet to 3673' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: 2-3/8"

Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

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

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze: _____

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #8

Lea County, NM

GL Elevation: 3358'

KL Elevation: 3370'

**Location: 660' FSL, 660' FWL,
Sec 23, T-23-S, R-36-E**

**Current Conditions: Jan-99
Active-Pumping**

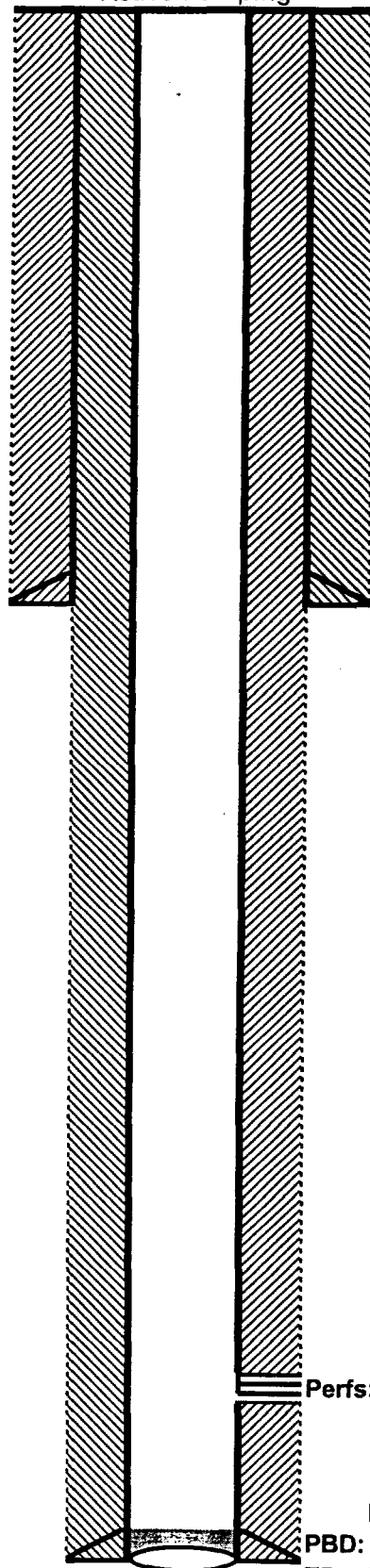
Conductor:
None

Surface Casing:
8-5/8" 24# J-55, ST&C
@ 272' in 11" hole
Cemented to surface
W/150 sx 50/50 Pozmix

Well Head Assembly:

Intermediate Casing:
None

Production Casing:
4 1/2" 9.50# J-55 ST&C
@ 3712' in 6-3/4" hole
1876 sx 50/50 Pozmix
50 sx Regular cement + Latex
Cement Circulated



Perfs: 3533, 58, 69, 80, 89, 92, 96,
3604, 12, 16, 32, 38, 43, 47, 54, 58, 61, 70, 73'

Frac: 20,000 gal lease oil + 28,000# sand (11/62)

PBD: 3695'

TD = 3712'

Note: Records indicate 18' corroded mud anchor left in hole (8/87).

WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #10

WELL LOCATION: 660' FSL, 1650' FEL O 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 9-7/8"

Casing Size: 7-5/8"

Cemented with: 225 sacks (or) ft3

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4-1/2"

Cemented with: 200 sacks (or) ft3

Top of Cement: Unknown

Method Determined:

Total Depth: 3812'

Injection Interval

P&A feet to (Indicate whether Open Hole or perforated)

Tubing Detail

Tubing Size:

Lining Material:

Type of Packer:

Packer Setting Depth:

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

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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.
- Old perms in interval from 3623 to 3739, PA'd 7-2-86
- See attached sheet for plugging detail
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
- Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze:

| | | |
|------------------------|--|--|
| NO. OF COPIES RECEIVED | | |
| DISTRIBUTION | | |
| SANTA FE | | |
| FILE | | |
| U.S.G.S. | | |
| LAND OFFICE | | |
| OPERATOR | | |

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

| | |
|------------------------------|---|
| 5a. Indicate Type of Lease | State <input checked="" type="checkbox"/> Fee |
| 5. State Oil & Gas Lease No. | B-1167 |

SUNDRY NOTICES AND REPORTS ON WELLS

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

| | |
|---|---|
| 1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER: <u>Inj. well</u> | 7. Unit Agreement Name |
| 2. Name of Operator CONOCO INC. | 8. Farm or Lease Name Langlie Lynn Queen |
| 3. Address of Operator P. O. Box 460, Hobbs, N.M. 88240 | 9. Well No. 10 |
| 4. Location of Well UNIT LETTER <u>0</u> <u>640</u> FEET FROM THE <u>South</u> LINE AND <u>1650</u> FEET FROM THE <u>East</u> LINE, SECTION <u>22</u> TOWNSHIP <u>23S</u> RANGE <u>36E</u> N.M.P.M. | 10. Field and Pool, or Wildcat Langlie Mattix Tr |
| 15. Elevation (Show whether DF, RT, CR, etc.) | 12. County Lea |

| | | | |
|--|---|--|---|
| 16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data | | | |
| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | PLUG AND ABANDONMENT <input type="checkbox"/> |
| FULL OR ALTER CASING <input type="checkbox"/> | OTHER <input type="checkbox"/> | CASING TEST AND CEMENT JOBS <input type="checkbox"/> | |

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

- ① MIRU on 7-1-86. POOH w/ Hg
- ② Set CIBP @ 3600'. Displace hole w/ mud. Set 3 cmt plugs. Tag top of plug after waiting on cmt 3 1/2 hrs. (Top @ 1140')
- ③ Bullhead 300 sxs class "C" cmt down 4 1/2 csq, had good returns out 7 5/8" csq. Installed P & A marker.
- ④ Rig down on 7-2-86.

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

SIGNED Cecil O. Yarbrough TITLE Administrative Supervisor DATE 7-18-86

APPROVED BY [Signature] TITLE OIL & GAS INSPECTOR DATE SEP 1 1 1986

CONDITIONS OF APPROVAL, IF ANY:

NMOC-4

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #10

Lea County, NM

Current Conditions: Jan-99

PxA

Conductor:

None

Surface Casing:

7-5/8" 32# H-40, ST&C

@ 307' in 11" hole

Cemented to surface

W/225 sx Regular Neat

GL Elevation: 3391'

KB Elevation: 3401'

Location: 660' FSL, 1650' FEL,
Sec 22, T-23-S, R-36-E

Well Head Assembly:

None—Well PxA

Dry Hole Marker installed

Intermediate Casing:

None

300 Sacks bull headed down 4-1/2" & out 7-5/8"

Casing Leaks: 321-1236'

TOC Unknown

25 sacks "C" from 1302-582' (7/86)

20 sacks "C" from 3095-2805' (7/86)

20 Sx plug on CIBP top @ 3310' (7/86)

Retainer @ 3600' (7/86)

Perfs:

3623, 41 (5/74 Conv to WIW)

3659, 71, 75, 84, 85, 93,

3700, 04, 05, 13, 15, 21, 22, 23, 31, 35, 39,

Frac W/ 30,000 gal lease oil + 40,000# sand

3770, 72, 76, 82, 84, 85, 87, 90, 93 (Squeezed 6/63)

PBD: 3782'

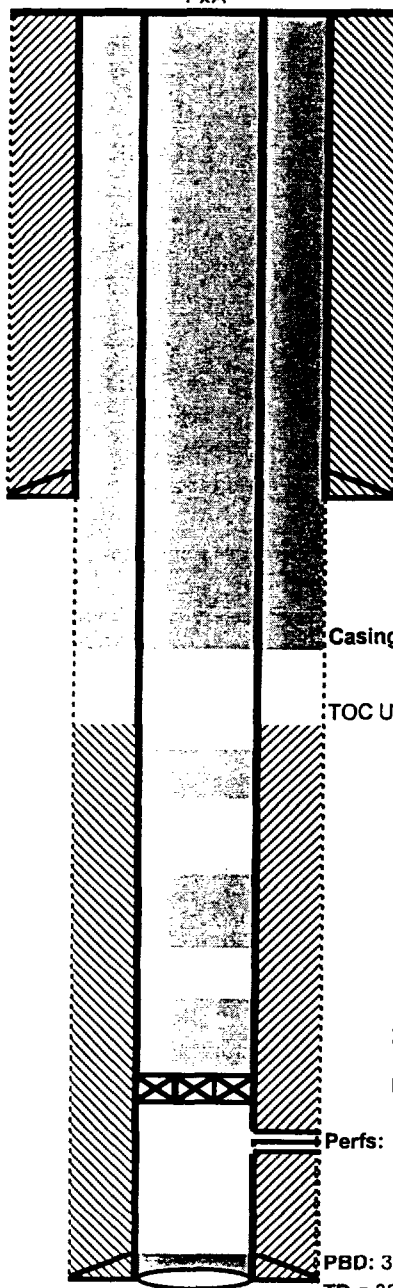
TD = 3812'

Production Casing:

4 1/2" 10.5 & 11.6# J-55 ST&C

@ 3800' in 6-3/4" hole

200 Sx Regular Cement + 4% gel



WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #11

WELL LOCATION: 660' FNL, 660' FEL A 27 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 7-5/8"

Cemented with: 200 sacks (or) _____ ft3

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4-1/2"

Cemented with: 300 sacks (or) _____ ft3

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3730'

Injection Interval

3532' feet to 3698' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: 2-3/8"

Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

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

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze: _____

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

| |
|---|
| WELL API NO. 30-025-20521 |
| 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. 23267 |
| 7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit |
| 8. Well No. 11 |
| 9. Pool name or Wildcat Langlie Mattix 7 RVRs/Queen/GB |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) |

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

| | |
|---|---|
| 1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | 2. Name of Operator Energen Resources Corporation |
| 3. Address of Operator 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705 | 4. Well Location Unit Letter <u>A</u> : <u>660</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>East</u> Line Section <u>27</u> Township <u>23S</u> Range <u>36E</u> NMPM Lea County |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | |

| | |
|---|---|
| 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data | |
| NOTICE OF INTENTION TO: | SUBSEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK <input checked="" type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> |
| OTHER: <input type="checkbox"/> | PLUG AND ABANDONMENT <input type="checkbox"/> |
| | CASING TEST AND CEMENT JOB <input type="checkbox"/> |
| | OTHER: <input type="checkbox"/> |

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.

MIRU WSU, pressure test casing to 500 psi for 30 minutes. Recover RBP @ 3,452'.
Re-perforate the 7 Rivers/Queen, acidize w/ 3,000 gals. Run tubing and rods, RWTP.

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

SIGNATURE Denise Menoud TITLE Prod. Tech. DATE 3/13/2000
TYPE OR PRINT NAME Denise Menoud TELEPHONE NO. 915-687-207

(This space for State Use)

APPROVED BY ORIGINAL SIGNED BY CHRIS VILLALBA TITLE DISTRICT I SUPERVISOR DATE MAR 20 2000
CONDITIONS OF APPROVAL, IF ANY:

**Current Conditions: Jan-99
Inactive-TA**

Conductor:

None

Surface Casing:

7-5/8" 24# Smls, ST&C

@ 323' in 11" hole

Cemented to surface

W/200 sx Cmt + 4% gel

Well Head Assembly:

Intermediate Casing:

None

Casing leak: 322-354' Squeezed (8/91)

???

???

TOC: unknown

Circulated casing with Conoco Packer Fluid (8/91)

RBP @ 3452', capped with 2 sacks sand

(Could not get below 3493' with RBP)

(Inj Packer was set @ 3460')

Perfs:

3580-82, 84-86,

3602-04, 20-22, 41-42, 44-46, 56-58, 64-66,

3676-79, 86-88, 90-92, 96-98' (2-JSPF 7/63)

Frac: 40,000 gal lease oil + 60,000# sand (7/63)

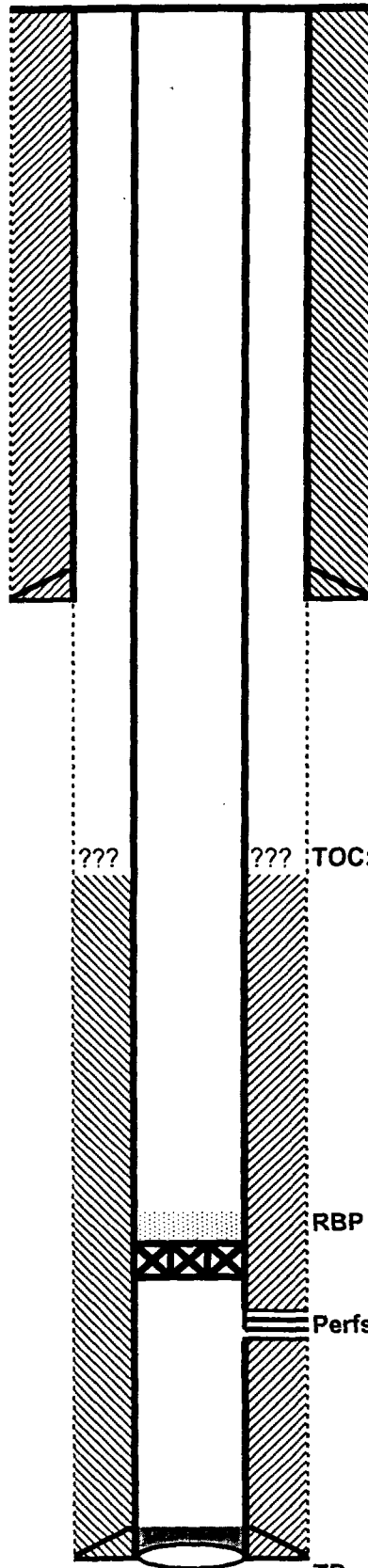
Production Casing:

4 1/2" 9.50# J-55 ST&C

@ 3730' in 6-3/4" hole

300 sx cement

TD = 3730'



WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #13

| | | | | | | |
|----------------|---------------------|---------------|-----------|------------|---------|----------|
| WELL LOCATION: | 660' FNL, 1980' FWL | C | 26 | T-23-S | R-36-E | Lea |
| | (Footage Location) | (Unit Letter) | (Section) | (Township) | (Range) | (County) |

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"
Casing Size: 7-5/8"
Cemented with: 200 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2"
Cemented with: 250 sacks (or) _____ ft3
Top of Cement: 2500'
Method Determined: TS
Total Depth: 3700'

Injection Interval

3446' feet to 3638' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: 2-3/8"
 Lining Material: _____
 Type of Packer: _____
 Packer Setting Depth: _____
 Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

If no, for what purpose was the well originally drilled? Oil and gas

2. Name of the Injection Formation: n/a

3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg

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.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

| | |
|------------------------------|--|
| WELL API NO. | 30-025-20335 |
| 5. Indicate Type of Lease | STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 6. State Oil & Gas Lease No. | 23267 |

| | |
|--|---|
| SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) | |
| 1. Type of Well: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | 7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit |
| 2. Name of Operator Energen Resources Corporation | 8. Well No. 13 |
| 3. Address of Operator 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705 | 9. Pool name or Wildcat Langlie Mattix 7 RVR/Queen/GB |
| 4. Well Location Unit Letter C : 660 Feet From The North Line and 1980 Feet From The East Line Section 26 Township 23S Range 36E NMPM Lea County | |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) | |

| | |
|---|---|
| 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data | |
| NOTICE OF INTENTION TO: | SUBSEQUENT REPORT OF: |
| PERFORM REMEDIAL WORK <input checked="" type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> |
| OTHER: <input type="checkbox"/> | PLUG AND ABANDONMENT <input type="checkbox"/> |
| | CASING TEST AND CEMENT JOB <input type="checkbox"/> |
| | OTHER: <input type="checkbox"/> |

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.

MIRU WSU, pull production equipment. Re-perforate the 7 RVR/Queen @ 3,446'-54', @ 3,466'-72', and @ 3,496'-3,504'. Acidize w/ 3,000 gals. RWTP.

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

SIGNATURE Denise Menoud TITLE Prod. Tech. DATE 3/13/2000
TYPE OR PRINT NAME Denise Menoud TELEPHONE NO. 915-687-20

(This space for State Use)

ORIGINAL SIGNED BY CHRIS WILLIAMS
DISTRICT I SUPERVISOR

APPROVED BY _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

EMERGEN RESOURCES, INC.

Langlie Lynn Unit #13

Lea County, NM

GL Elevation: 3376'

KL Elevation: 3386'

Location: 660' FNL, 1980' FWL,
Sec 26, T-23-S, R-36-E

Current Conditions: Jan-99
Active-Pumping

Conductor:

None

Surface Casing:

7-5/8" 24# Smls, ST&C

@ 318' in 11" hole

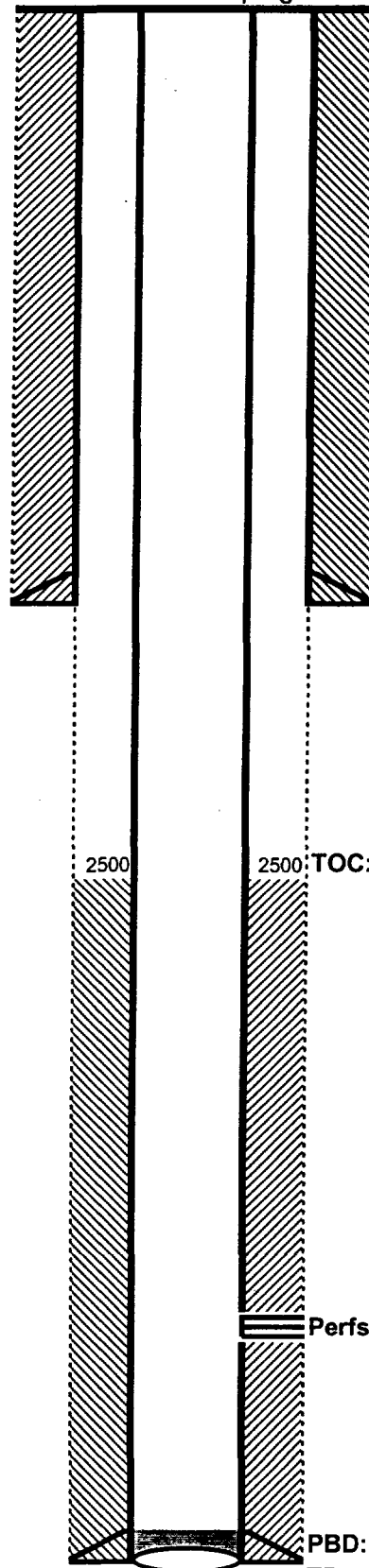
Cemented to surface

W/200 sx 50/50 Pozmix

Well Head Assembly:

Intermediate Casing:

None



2500

2500

TOC: 2500' by TS

Perfs:

Recommended perfs: 3444-52, 3498-3508'

3518-20, 38-40, 50-52, 62-64, 71-73, 79-81, 85-87
3612-14, 16-18, 36-38 (2 JSPF)

Frac: 25,000 gal lease oil + 31,500# sand (5/63)

PBD:

TD = 3700'

Production Casing:

4 1/2" 9.50# J-55 ST&C

@ 3700' in 6-3/4" hole

250 sx "C" Neat

WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #15

WELL LOCATION: 1980' FNL, 1980' FEL G 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 9-7/8"
Casing Size: 7-5/8"
Cemented with: 275 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: _____

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2"
Cemented with: 200 sacks (or) _____ ft³
Top of Cement: 2550'
Method Determined: TS
Total Depth: 3675'

Injection Interval

3416' feet to 3641' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: 2-3/8"
Lining Material: _____
Type of Packer: _____
Packer Setting Depth: _____
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze: _____

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

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL API NO.

30-025-21067

5. Indicate Type of Lease

Federal STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

23267

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐ Convert to Producer

2. Name of Operator

Energen Resources Corporation

7. Lease Name or Unit Agreement Name

Langlie Lynn Queen Unit

3. Address of Operator

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

8. Well No.

15

4. Well Location

Unit Letter #6: 1980 Feet From The North Line and 1980 Feet From The East Line

Section 26

Township 23S

Range 36E

NMPM

Lea

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: Convert from WIW to Producer ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

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.

MIRU WSU, pressure test casing to 500 psi for 30 minutes. Recover RBP @ 3,368'.
Re-perforate the 7 RVRs/Queen @ 3,416'-24', @ 3,432'-44', and @ 3,462'-68'. Acidize
w/ 3,000 gals. Run tubing and rods, place well on production.

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

SIGNATURE

Denise Menoud

TITLE

Prod. Tech.

DATE

3/13/2000

TYPE OR PRINT NAME

Denise Menoud

TELEPHONE NO. 915-687-2000

(This space for State Use)

APPROVED BY

ORIGINAL SIGNED BY
GARY WINK
FIELD REP.

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #15

Lea County, NM

GL Elevation: 3342'

DI Elevation: 3354'

Location: 1980' FNL, 1980' FEL,
Sec 26, T-23-S, R-36-E

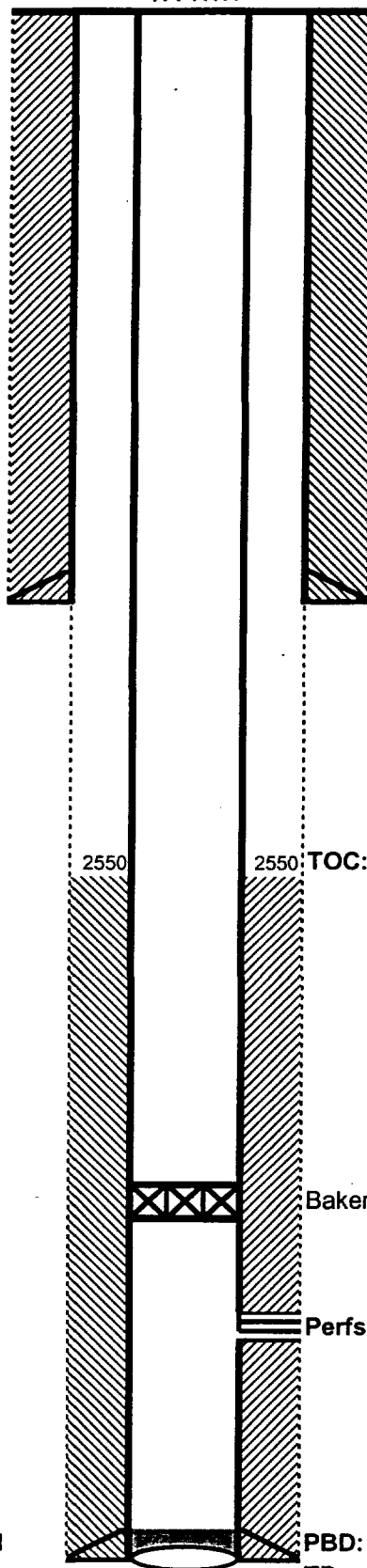
Current Conditions: Jan-99
TA-WIW

Conductor:
None

Surface Casing:
7-5/8" 24# Smls, ST&C
@ 312' in 11" hole
Cemented to surface
W/275 sx "A" 2% gel, 2% CaCl₂

Well Head Assembly:

Intermediate Casing:
None



TOC: 2550' by TS

Baker Lok-Set RBP @ 3368'

Original WIW Packer was set @ 3398'

3468, 3485 (2JSPF) 7/74

Perfs: 3504, 32, 43, 48, 59, 64, 74, 82, 95
3619, 27, 41 (1 JSPF)

Frac: 40,000 gal lease oil + 60,000# sand

Production Casing:
4 1/2" 9.50# J-55 ST&C
@ 3675' in 6-3/4" hole
250 sx "C" + 4% gel, salt saturated

PBD:
TD = 3675'

WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #17

WELL LOCATION: 1980' FNL, 660' FWL E 26 T-23-S R-36-E Lea

(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 7-5/8"

Cemented with: 150 sacks (or) ft3

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4-1/2"

Cemented with: 120 sacks (or) ft3

Top of Cement: 2400'

Method Determined: TS

Total Depth: 3725'

Injection Interval

3506' feet to 3560' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size:

Lining Material:

Type of Packer:

Packer Setting Depth:

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

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg

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.

Old perms @ 3560'-3687'. PA'd 10-26-92 as follows:

RBP at 3506' w/ 20 sx cmt on top (TOC 3352')

Set cmt plug at 1356' w/ 25 sx cmt (TOC at 1110')

Set cmt plug at 350'. Circ cmt to surface

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

Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze:

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #17

Lea County, NM

GL Elevation: 3367'

K. Elevation: 3377'

Location: 1980' FNL, 660' FWL,
Sec 26, T-23-S, R-36-E

Current Conditions: Jan-99

PxA

Conductor:

None

Surface Casing:

7-5/8" 24# Smls, ST&C

@ 300' in 11" hole

Cemented to surface

W/150 sx 50/50 Pozmix

Well Head Assembly:

Marker installed

Cement circulated from 350' to surface
Volume not reported

Intermediate Casing:

None

Pulled 4-1/2" casing @ 300'

25 Sx cement plug 1110' to 1356'

2400

2400

TOC: 2400' by TS

20 Sx Cement Plug @ 3352'

RBP @ 3506'

Perfs:

3560, 64, 80

3601, 11, 18, 30, 42, 61, 73, 78, 87 (1 JSPF)

Frac: 40,000 gal lease oil + 60,000# sand (11/64)

Production Casing:

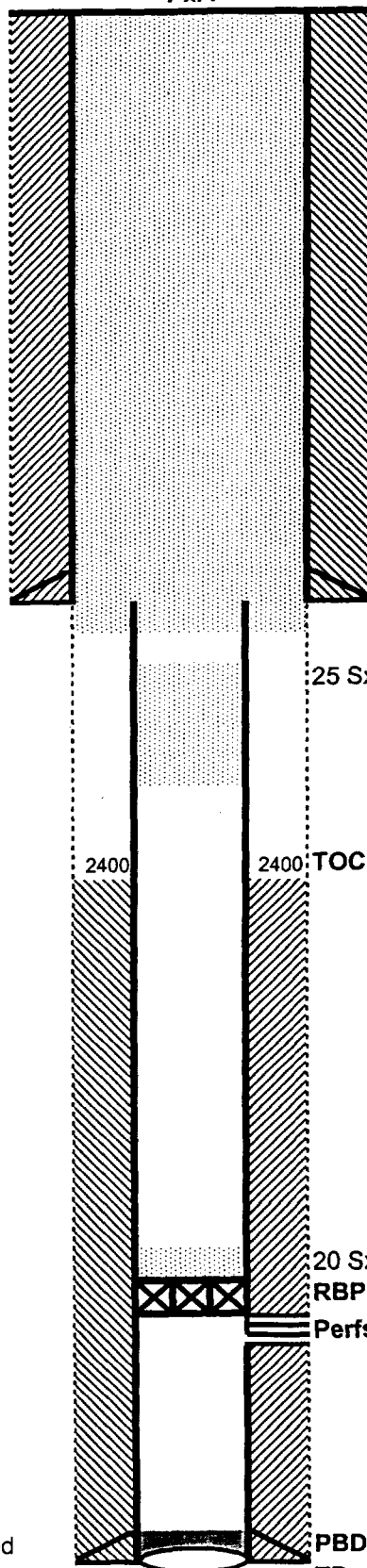
4 1/2" 9.50# J-55 ST&C

@ 3725' in 6-3/4" hole

120 sx "C" + 6% gel, salt saturated

PBD: 3693'

TD = 3725'



WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #19

WELL LOCATION: 1980' FNL, 660' FWL K 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 7-5/8"

Cemented with: 150 sacks (or) _____ ft3

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4-1/2"

Cemented with: 225 sacks (or) _____ ft3

Top of Cement: 2800'

Method Determined: TS

Total Depth: 3725'

Injection Interval

3480' feet to 3500' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: _____

Lining Material: _____

Type of Packer: _____

Packer Setting Depth: 3524'

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

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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.
- Old perfs @ 3503'-3659'. PA'd 10-22-92 as follows:
- RBP at 3406'
- Set cmt plug at 3375' w/ 10 sx cmt on top (TOC at 3294')
- Set cmt plug at 1345' w/ 20 sx cmt on top (TOC 1075')
- Set cmt plug at 635' w/ 175 sx cmt on top to surface
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
- Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram

Acid, Shot, Fracture, Squeeze: _____

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #19

Lea County, NM

Current Conditions: Jan-99

PxA

Conductor:

None

Surface Casing:

7-5/8" 24# H-40, Smls, ST&C
@ 315' in 11" hole
Cemented to surface
W/250 sx "A" + 2% gel & CaCl₂

GL Elevation: 3354'

KB Elevation: 3365'

Location: 1980' FS & WL,
Sec 26, T-23-S, R-36-E

Well Head Assembly:

Marker installed

Intermediate Casing:

None

175 Sx from 635 to surface inside and outside 4-1/2"

Hole in casing @ 615' - 635'

20 Sx cement plug 1075' to 1345'

2400

2400: TOC: 2400' by TS

10 Sx Cement Plug @ 3294'

RBP @ 3406'

Perfs: 3503, 23, 34, 36, 71, 90
3608, 13, 30, 37, 45, 59 (1 JSPF)

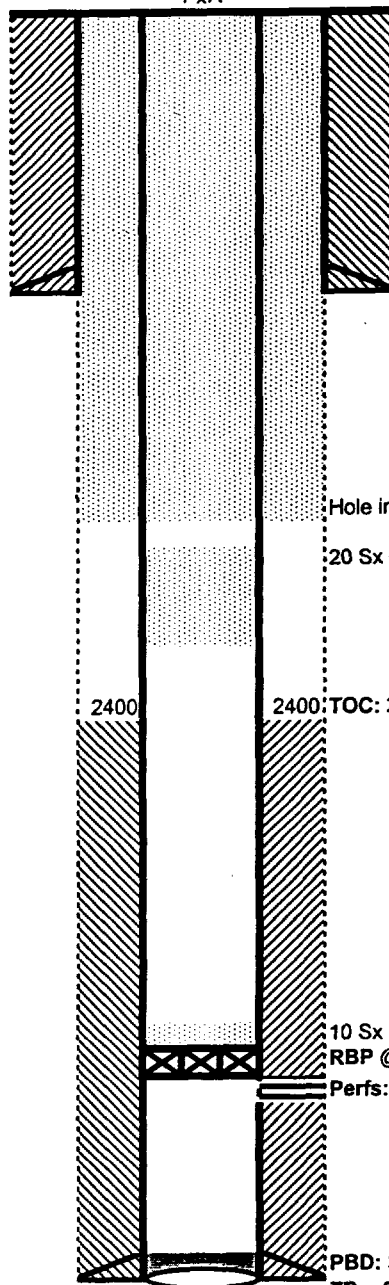
Frac: 40,000 gal lease oil + 60,000# sand (11/64)

Production Casing:

4 1/2" 9.50# J-55 ST&C
@ 3725' in 6-3/4" hole
225 sx "C" + 6% gel, salt saturated

PBD: 3693'

TD = 3725'



WELL DATA SHEET

OPERATOR: Energen Resources

WELL NAME & NUMBER: Langlie Lynn Queen Unit #20

WELL LOCATION: 672' FSL, 1797' FEL O 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"
Casing Size: 8-5/8"
Cemented with: 300 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: _____

Production Casing (Intended)

Hole Size: 7-7/8"
Casing Size: 5-1/2"
Cemented with: 500 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual
Total Depth: 3850'

Injection Interval

3576' feet to 3804' (Indicate whether Open Hole or perforated) perforated

Tubing Detail

Tubing Size: _____
Lining Material: _____
Type of Packer: _____
Packer Setting Depth: _____
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Spudded 2-24-00. Presently drilling as a producer
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: See attached diagram
Acid, Shot, Fracture, Squeeze: _____

ENERGEN RESOURCES, INC.

Langlie Lynn Unit #20

Lea County, NM

Current Conditions: Mar-00

New Well

Conductor:

None

Surface Casing:

8-5/8" 24#, J-55, ST&C

@ 329' in 12-1/4" hole

Cemented to surface

W/300 sx"C" + 2% CaCl₂

GL Elevation: 3394'

DF Elevation: 3406'

Location: 627' FSL, 1797' FEL,

Sec 22, T-23-S, R-36-E

API # 30-025-34916

Well Head Assembly:

TOC: 5-1/2" x 8-7/8" casing annulus @ 89' by Temp Survey

Intermediate Casing:

None

Production Casing:

5 1/2" 15.50# J-55 LT&C

@ 3853' in 7-7/8" hole

650 sx 50/50 Poz "C" + 10% gel, 5% salt

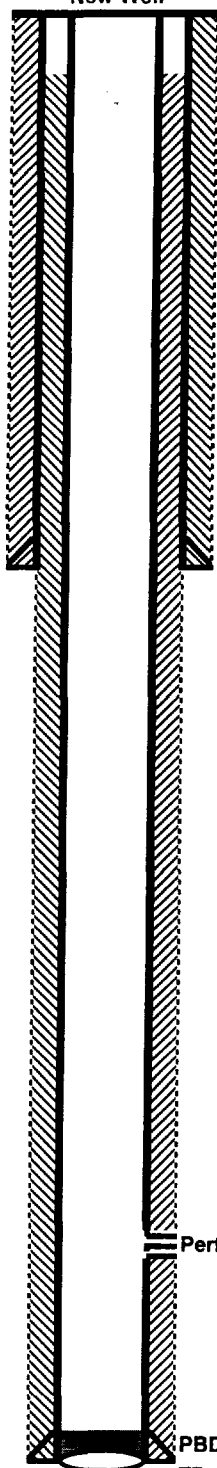
FB 225 sx 50/50 Poz "C" + 5% salt

Cement Circulated

Perfs:

PBD:

TD = 3853'



WELL DATA SHEET

OPERATOR: Conoco

WELL NAME & NUMBER: Lynn B-1 #7

WELL LOCATION: 990' FNL, 990' FEL A 27 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: Unknown

Casing Size: 7-5/8" @ 1244'

Cemented with: 500 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: Unknown

Casing Size: 5-1/2" @ 2929'

Cemented with: 500 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3480'

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2929'-3480' -- ?

Acid, Shot, Fracture, Squeeze: _____

WELL DATA SHEET

OPERATOR: Roca Petroleum

WELL NAME & NUMBER: George Etz #6

WELL LOCATION: 660' FSL, 660' FEL P 27 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"
Casing Size: 8-5/8" @ 447'
Cemented with: 480 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 7-7/8"
Casing Size: 4-1/2" @ 3600'
Cemented with: 1000 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3600'

Tubing Detail

Tubing Size: 2-3/8"
Lining Material: _____
Type of Packer: _____
Packer Setting Depth: 3140'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3164'-3429', PBTD 3547'
Acid, Shot, Fracture, Squeeze: Acidize 5500 gals. 7-1/2% MSR-100
Frac 40,000 gals YF3PSD w/ 85,000# 20/40 & 50,000# 10/20 & 50 scf/bbl N2

WELL DATA SHEET

OPERATOR: Grace Petroleum Corp.

WELL NAME & NUMBER: State of New Mexico A A/C-1 #6

WELL LOCATION: 990' FNL, 990' FEL A 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12"

Casing Size: 8-5/8" @ 331'

Cemented with: 170 sacks

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 7-7/8"

Casing Size: 4-1/2" @ 3293'

Cemented with: 175 sacks

Top of Cement: n/a

Method Determined: _____

Total Depth: 3300'

Additional Data

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

If no, for what purpose was the well originally drilled? Oil and gas

2. Name of the Injection Formation: n/a

3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers

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. _____

Old perms @ 3038'-3149'. PA'd 5-18-79 as follows:

Set CIBP @ 3000' w/ 10 sx cmt on top

Set cmt plug @ 2500' w/ 35 sx cmt on top (TOC 2390')

Set cmt plug @ 381' w/ 35 sx cmt on top (TOC 330')

spotted additional 35 sx cmt from 330' up (TOC 240')

spotted 15 sx cmt @ 240' to surface

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

Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3038'-3149'

Acid, Shot, Fracture, Squeeze: 1000 gals. Acid, 10,000 gals. Gelled MS acid, 15,000# sand

WELL DATA SHEET

OPERATOR: Raptor Resources

WELL NAME & NUMBER: State of New Mexico A A/C-1 #97

WELL LOCATION: 1980' FNL, 1980' FWL F 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 13-3/4"
Casing Size: 9-5/8" @ 323'
Cemented with: 300 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 8-3/4"
Casing Size: 7" @ 3635'
Cemented with: 250 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3645'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3568'-3594', 3086'-3228'
Acid, Shot, Fracture, Squeeze: Vibro-frac 3588'-3592' w/ 3 No. 3 charges
Sand oil treat 3568'-3594' w/10,000 gals. lease crude & 10,000# sand
Sand oil treat 3086'-3228' w/20,000 gals. lease crude & 60,000# sand

WELL DATA SHEET

OPERATOR: Grace Petroleum Corp.

WELL NAME & NUMBER: State of New Mexico AA #5

WELL LOCATION: 1980' FNL, 1980' FEL G 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 9-7/8"
Casing Size: 7" @ 336'
Cemented with: 200 sacks
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-1/4"
Casing Size: 2-7/8" @ 3774'
Cemented with: 200 sacks
Top of Cement: n/a
Method Determined: _____
Total Depth: 3774'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg

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.

Old perfs @ 3713'-3721' & 3729'-3735'. PA'd 5-15-79 as follows:

Set CIBP @ 3650' w/ 4 sx cmt on top

Set cmt plug @ 2600' w/ 50 sx cmt. (TOC 2500')

Set cmt plug @ 336' w/ 25 sx cmt. on top

spotted 35 sx cmt @ 336' (TOC 170')

spotted 15 sx cmt @ 170' to surface.

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3678'-3700', 3713'-3721', 3729'-3739'
Acid, Shot, Fracture, Squeeze: Treated 3678'-3700' w/15,000 gal. refined oil & 30,000# sand
Broke down 3713'-3721' & 3729'-3739' w/lease crude

WELL DATA SHEET

OPERATOR: Doyle Hartman

WELL NAME & NUMBER: State of New Mexico AA #1

WELL LOCATION: 1980' FNL, 660' FEL H 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 13-3/4
Casing Size: 10-3/4" @ 305.26'
Cemented with: 300 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 8-3/4"
Casing Size: 7" @ 2906'
Cemented with: 2350 sacks (or) _____ ft3
Top of Cement: n/a
Method Determined: _____
Total Depth: 3130'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2906'-3130'
Acid, Shot, Fracture, Squeeze: None

WELL DATA SHEET

OPERATOR: Grace Petroleum Corp.

WELL NAME & NUMBER: State of New Mexico AA #3

WELL LOCATION: 2310' FNL, 330' FEL H 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 9-7/8"
Casing Size: 7-5/8" @ 328'
Cemented with: 175 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 2-7/8" @ 3629'
Cemented with: 200 sacks (or) _____ ft3
Top of Cement: n/a
Method Determined: _____
Total Depth: 3630'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg

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. _____

Old perfs @ 3613'-3621'. PA'd 4-16-79 as follows: _____

Set 100' cmt plug 50' in & 50' out of 2-7/8" casing stub @ 2050' w/ 30 sx (TOC 1950')

Set 100' cmt plug @ 378' w/ 30 sx (TOC 278')

Spot 15 sx cmt @ surface

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

Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3613'-3621'

Acid, Shot, Fracture, Squeeze: Frac w/ 15,000 gal refined oil & 30,000# sand

WELL DATA SHEET

OPERATOR: Clayton Williams Energy

WELL NAME & NUMBER: State of New Mexico A A/C-1 #1

WELL LOCATION: 330' FSL, 2310' FWL N 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: Unknown

Casing Size: 7" @ 4234'

Cemented with: Unknown sacks (or) _____ ft3

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: _____

Casing Size: _____

Cemented with: _____ sacks (or) _____ ft3

Top of Cement: _____

Method Determined: _____

Total Depth: 5095' OWDD

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

PB from 5095' to 3620' w/ 450 sx cmt

Old perfs @ 3465'-3575', P&A'd 6-22-93 as follows:

Set CIBP at 3120' w/ 35' cmt on top

Perforate 7" casing at 370'. Pumped 130 sx cmt down 7" casing and up 7" / 9-5/8" annulus

Circulate 10 sx to surface

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3465'-3475', 3505'-3515', 3550'-3560', 3565'-3575'

Acid, Shot, Fracture, Squeeze: Unknown

WELL DATA SHEET

OPERATOR: Gruy Petroleum Management

WELL NAME & NUMBER: Shell State #3

WELL LOCATION: 660' FSL, 660' FEL P 22 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2"
Casing Size: 13-3/8" @ 287'
Cemented with: 350 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Intermediate Casing

Hole Size: 11-1/4"
Casing Size: 8-5/8" @ 1213'
Cemented with: 500 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____

Production Casing

Hole Size: 7-7/8"
Casing Size: 5-1/2" @ 3425'
Cemented with: 750 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3426'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3017'-3068', 3400'-3420'
Acid, Shot, Fracture, Squeeze: Sand-frac w/ 10,000 gal., 1# per gal. sand to oil

WELL DATA SHEET

OPERATOR: Raptor Resources

WELL NAME & NUMBER: State of New Mexico A A/C-1 #98

WELL LOCATION: 660' FNL, 2310' FEL B 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"
Casing Size: 8-5/8" @ 323'
Cemented with: 300 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 7-7/8"
Casing Size: 5-1/2" @ 3580'
Cemented with: 250 sacks (or) _____ ft³
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3595'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 3580'-3595'
Acid, Shot, Fracture, Squeeze: Open hole Vibro-frac @ 3578'-3582' w/ 3 No. 3 charges
Sand oil treat w/10,000 gals. lease crude & 10,000# sand w/ 500# Adomite

WELL DATA SHEET

OPERATOR: Raptor Resources

WELL NAME & NUMBER: State of New Mexico A A/C-1 #73

WELL LOCATION: 660' FNL, 1980' FWL C 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 13-3/4"
Casing Size: 9-5/8" @ 325'
Cemented with: 300 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 8-3/4"
Casing Size: 7" @ 3537'
Cemented with: 250 sacks (or) _____ ft³
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3577'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 3527'-3577'
Acid, Shot, Fracture, Squeeze: Open hole sand jetted at 3554' for 2 hrs.
SOT w/ 10,000 gal. refined oil & 10,000# sand

WELL DATA SHEET

OPERATOR: Raptor Resources

WELL NAME & NUMBER: State of New Mexico A A/C-1 #65

WELL LOCATION: 660' FNL, 760' FWL D 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 13-1/4"

Casing Size: 9-5/8" @ 335'

Cemented with: 300 sacks (or) _____ ft3

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 8-3/4"

Casing Size: 7" @ 3537'

Cemented with: 250 sacks (or) _____ ft3

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3569'

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 3537'-3569'

Acid, Shot, Fracture, Squeeze: Open hole perforation w/Abrasi Jet @ 3562' w/10,000 gals. refined oil & 10,000# sand

WELL DATA SHEET

OPERATOR: Raptor Resources Inc.

WELL NAME & NUMBER: State of New Mexico A/C-1 #72

WELL LOCATION: 1980' FNL, 660' FWL E 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 13-3/4"
Casing Size: 9-5/8" @ 328'
Cemented with: 300 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 8-3/4"
Casing Size: 7" @ 3560'
Cemented with: 250 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3587'

Tubing Detail

Tubing Size: 2-3/8" @ 3358'
Lining Material: _____
Type of Packer: _____
Packer Setting Depth: _____
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 3560'-3587'; PBTD 3513'; 3506'-3482'
Acid, Shot, Fracture, Squeeze: Open hole sand jetted @ 3563' for 4 hrs.
SOT w/10,000 gals refined oil & 10,000# sand
3506'-3482' 1750 gal. 7.5% HClW / 100 BS
Frac w/ 22,000 gals. 40# linear gel W 99 T CO2 & 308 MCF N2 &
130,000# 12/20 Brady sand

WELL DATA SHEET

OPERATOR: Raptor Resources Inc.

WELL NAME & NUMBER: State of New Mexico A/C-1 #27

WELL LOCATION: 1650' FNL, 1650' FWL F 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17"
Casing Size: 12-1/2" @ 276'
Cemented with: 350 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 11"
Casing Size: 8-5/8" @ 2880'
Cemented with: 600 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3670' OWDD

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2880'-3670'
Acid, Shot, Fracture, Squeeze: Original TD 3260'; well shut in
Deepening to 3670' completed 9-10-51

WELL DATA SHEET

OPERATOR: Raptor Resources Inc.

WELL NAME & NUMBER: State of New Mexico A A/C-1 #84

WELL LOCATION: 1980' FNL, 2310' FEL G 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"
Casing Size: 9-5/8" @ 334'
Cemented with: 300 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 8-3/4"
Casing Size: 7" @ 3529'
Cemented with: 250 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3585'

Tubing Detail

Tubing Size: 2-3/8"
Lining Material: _____
Type of Packer: _____
Packer Setting Depth: 2918'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 3519'-3585'; PBTD 3380'; 2918'-3123'
Acid, Shot, Fracture, Squeeze: Open hole Vibro-fraced @ 3548'-51' w/3 No. 3 charges
Sand-oil treat w/ 10,000 gals. Refined oil & 10,000# sand
2918'-3123' Acidize w/ 1500 gals. Frac w/ 1400 bbl. & 200,000# 12/30 sand

WELL DATA SHEET

OPERATOR: Raptor Resources Inc.

WELL NAME & NUMBER: State of New Mexico A A/C-1 #26

WELL LOCATION: 1650' FNL, 1650' FEL G 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: Unknown
Casing Size: 13-3/8" @ 269'
Cemented with: Unknown sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: Unknown
Casing Size: 8-5/8" @ 2777'
Cemented with: Unknown sacks (or) _____ ft³
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3148'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2777'-3148'
Acid, Shot, Fracture, Squeeze: None

WELL DATA SHEET

OPERATOR: Raptor Resources Inc.

WELL NAME & NUMBER: State of New Mexico A A/C-1 #105

WELL LOCATION: 2080' FNL, 660' FEL H 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"
Casing Size: 7-5/8" @ 323'
Cemented with: 250 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 6-3/4"
Casing Size: 4-1/2" @ 3669'
Cemented with: 250 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3669'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Unknown perfs; oil zone @ 3646'-3650'
Acid, Shot, Fracture, Squeeze: Acidized w/10,000 gals. LTNE acid w/ 20 balls

WELL DATA SHEET

OPERATOR: Arco Permian

WELL NAME & NUMBER: Sinclair A State #1

WELL LOCATION: 1650' FSL, 990' FEL I 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: Unknown

Casing Size: 10-3/4" @ 225'

Cemented with: Unknown sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Intermediate Casing

Hole Size: Unknown

Casing Size: 7-5/8" @ 1235'

Cemented with: Unknown sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Production Casing

Hole Size: Unknown

Casing Size: 5-1/2" @ 2770'

Cemented with: Unknown sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3300'

Additional Data

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

If no, for what purpose was the well originally drilled? Oil and gas

2. Name of the Injection Formation: n/a

3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2770'-3300'

Acid, Shot, Fracture, Squeeze: None

WELL DATA SHEET

OPERATOR: Arco Permian

WELL NAME & NUMBER: Sinclair A State #5

WELL LOCATION: 1980' FSL, 660' FEL I 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 8-5/8" @ 290'

Cemented with: 200 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 7-7/8"

Casing Size: 4-1/2" @ 3755'

Cemented with: 1290 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3755'

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3695'-3699', 3666'-3668', 3642'-3648', 3570'-3578', 3548'-3552'

Acid, Shot, Fracture, Squeeze: 3695'-3699' none

3666'-3668' acidized 250 gals.

3642'-3648' acidized 250 gals.

3570'-3578' none

3548'-3552' acidized 250 gals.

WELL DATA SHEET

OPERATOR: Arco Permian

WELL NAME & NUMBER: Sinclair A State #10

WELL LOCATION: 990' FSL, 990' FWL M 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"

Casing Size: 8-5/8" @ 340'

Cemented with: 200 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 7-7/8"

Casing Size: 5-1/2" @ 3550'

Cemented with: 700 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3550'

Tubing Detail

Tubing Size: 2-3/8" @ 3241'

Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

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

Additional Data

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

If no, for what purpose was the well originally drilled? Oil and gas

2. Name of the Injection Formation: n/a

3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 2980'-3454'; PBTD 3520'

Acid, Shot, Fracture, Squeeze: Acidized w/2500 gals. Frac. w/ 22,000 gals. & 46,000# sand

WELL DATA SHEET

OPERATOR: Arco Permian

WELL NAME & NUMBER: Sinclair A State #9

WELL LOCATION: 660' FSL, 660' FEL P 23 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 8-5/8" @ 277'

Cemented with: 150 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 7-7/8"

Casing Size: 4-1/2" @ 3750'

Cemented with: 250 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3750'

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg

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. _____

Old perms @ 3385'-3668'. PA'd 2-24-88 as follows:

Set CIBP at 3340' w/ 50 sx cmt on top (TOC 2900')

Set CR at 620' w/ 150 sx cmt on top (TOC 590')

Set cmt plug at 550' w/ 200 sx cmt on top (TOC @ surface)

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3385'-3419', 3591'-3637', 3646'-3654', 3664'-3668'

Acid, Shot, Fracture, Squeeze: 3664'-3668' Acidized w/250 gals. NEA. Reacidized w/1000 gals.

RBP @ 3660'. Perf. 3646'-3654'. Acidized 500 gals. 15% NEA.

Reacidized 1500 gals. 15% retarded acid.

CIBP @ 3642'. Perf. 3591', 3605', 3608', 3612', 3616', 3623', 3628', 3635', 3637'

Sandfrac w/ 20,000 gals. Oil & 20,000 # sand

CIBP @ 3460'. Perf. 3385'-3419' (10 shots)

WELL DATA SHEET

OPERATOR: Raptor Resources

WELL NAME & NUMBER: State A A/C-1 #107

WELL LOCATION: 1980' FSL, 660' FWL L 24 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 7-5/8" @ 325'

Cemented with: Circulated sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 6-3/4"

Casing Size: 4-1/2" @ 3664'

Cemented with: 250 sacks (or) _____ ft³

Top of Cement: 2620'

Method Determined: _____

Total Depth: 3664'

Tubing Detail

Tubing Size: 2-3/8" @ 3176'

Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

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

Additional Data

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

If no, for what purpose was the well originally drilled? Oil and gas

2. Name of the Injection Formation: n/a

3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3515'-3644', 3306'-3351', 2912'-3114'; PBTD 3400'

Acid, Shot, Fracture, Squeeze: 3515'-3644' Acidized w/ 1500 gals. SOT w/ 20,000 gals. & 20,000# & 30 balls

3306'-3351' Frac w/ 12,500 gal & 24,500#

2912'-3114' Frac w/ 60,500 gals. & 118,600#

WELL DATA SHEET

OPERATOR: Arco

WELL NAME & NUMBER: Lankford #3

WELL LOCATION: 660' FNL, 660' FWL D 25 T-23-S R-36-E Lea

(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"

Casing Size: 8-5/8" @ 1211'

Cemented with: 850 sacks (or) ft3

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 7-7/8"

Casing Size: 5-1/2" @ 3724'

Cemented with: 850 sacks (or) ft3

Top of Cement: Unknown

Method Determined:

Total Depth: 3750'

Tubing Detail

Tubing Size: 2-3/8" @ 3646'

Lining Material:

Type of Packer:

Packer Setting Depth:

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

Additional Data

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

If no, for what purpose was the well originally drilled? Oil and gas

2. Name of the Injection Formation: n/a

3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg

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.

Old perfs @ 3445'-3664'. PA'd 6-5-89 as follows:

Set CIBP at 3385' w/ 25 sx cmt on top (TOC 3138')

Spot cmt plug at 2996' w/ 35 sx on top (TOC 2635')

Spot cmt plug at 1353' w/ 25 sx on top (TOC 1106')

Spot cmt plug at 30' w/ 10 sx on top (TOC @ surface)

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

Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3445-3664'; PBD 3681'

Acid, Shot, Fracture, Squeeze: Acidized w/ 3000 gals 15% NE acid, 44,000 gals. gelled water, 22,000 gals. CO2, 79,000# 20/40 sand, 33,750# 10/20 sand

WELL DATA SHEET

OPERATOR: Rhombus Operating

WELL NAME & NUMBER: Lankford #4

WELL LOCATION: 1650' FNL, 330' FWL E 25 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/8"
Casing Size: 8-5/8" @ 416'
Cemented with: 450 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual

Production Casing

Hole Size: 7-7/8"
Casing Size: 5-1/2" @ 3800'
Cemented with: 850 sacks (or) _____ ft³
Top of Cement: Surface
Method Determined: Visual
Total Depth: 3800'

Tubing Detail

Tubing Size: 2"
Lining Material: _____
Type of Packer: _____
Packer Setting Depth: 3658'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 3416'-3660'; PBTD 3745'
Acid, Shot, Fracture, Squeeze: 4000 gals 15% MCA acid

WELL DATA SHEET

OPERATOR: Conoco

WELL NAME & NUMBER: Lynn B-1 #17

WELL LOCATION: 810' FNL, 660' FEL A 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"

Casing Size: 8-5/8" @445'

Cemented with: 350 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 7-7/8"

Casing Size: 4-1/2" @ 3270'

Cemented with: 960 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3270'

Tubing Detail

Tubing Size: 2-3/8" @3203'

Lining Material: _____

Type of Packer: _____

Packer Setting Depth: _____

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

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: 2914'-3004', 3026'-3102', 3108'-3204'; PBDT 3225'

Acid, Shot, Fracture, Squeeze: 70 quality CO2 foam, 744 bbls fluid, 230,000# 12/120 brady sand

WELL DATA SHEET

OPERATOR: Conoco

WELL NAME & NUMBER: Lynn B-1 #16

WELL LOCATION: 660' FNL, 660' FEL A 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12-1/4"

Casing Size: 8-5/8" @ 400'

Cemented with: 250 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: 7-7/8"

Casing Size: 5-1/2" @ 2900'

Cemented with: 300 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3400'

Tubing Detail

Tubing Size: 2-3/8" @ 3106'

Lining Material: _____

Type of Packer: SN

Packer Setting Depth: 3074'

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

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers

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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2900'-3400'

Acid, Shot, Fracture, Squeeze: None

WELL DATA SHEET

OPERATOR: Conoco

WELL NAME & NUMBER: Lynn B-1 #3

WELL LOCATION: 990' FNL, 1650' FWL C 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: Unknown

Casing Size: 7-5/8" @ 1214'

Cemented with: 500 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: Unknown

Casing Size: 5-1/2" @ 2882'

Cemented with: 690 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3385'

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Langlie Mattix Seven Rivers-Queen-Grayburg
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2882'-3385'

Acid, Shot, Fracture, Squeeze: _____

WELL DATA SHEET

OPERATOR: Conoco

WELL NAME & NUMBER: Lynn B-1 #1

WELL LOCATION: 2310' FSL, 2310' FEL J 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: Unknown
Casing Size: 20" @ 41'
Cemented with: 76 sacks (or) _____ ft3
Top of Cement: Surface
Method Determined: Visual

Intermediate Casing

Hole Size: Unknown
Casing Size: 8-1/4" @ 2873'
Cemented with: 300 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____

Production Casing

Hole Size: Unknown
Casing Size: 7" @ 3148'
Cemented with: 100 sacks (or) _____ ft3
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3614'

Tubing Detail

Tubing Size: 2"
Lining Material: _____
Type of Packer: _____
Packer Setting Depth: 3930'
Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 3148'-3458'; PBD 3458'
Acid, Shot, Fracture, Squeeze: _____

WELL DATA SHEET

OPERATOR: Conoco

WELL NAME & NUMBER: Lynn B-1 #4

WELL LOCATION: 990' FSL, 990' FWL M 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: Unknown

Casing Size: 10-3/4" @ 339'

Cemented with: 300 sacks (or) _____ ft³

Top of Cement: Surface

Method Determined: Visual

Production Casing

Hole Size: Unknown

Casing Size: 5-1/2" @ 2885'

Cemented with: 865 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3455'

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2885'-3455'

Acid, Shot, Fracture, Squeeze: _____

WELL DATA SHEET

OPERATOR: HCW Exploration

WELL NAME & NUMBER: George Etz #4

WELL LOCATION: 1650' FSL, 990' FEL I 27 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11"

Casing Size: 8-5/8" @ 304'

Cemented with: 150 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Production Casing

Hole Size: 6-3/4"

Casing Size: 5-1/2" @ 2970'

Cemented with: 400 sacks (or) _____ ft³

Top of Cement: Unknown

Method Determined: _____

Total Depth: 3550'

Additional Data

1. Is this a new well drilled for injection? No
- If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

Open hole 2970'-3550'

PA'd 10-16-84

See attached sheet for plugging detail

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2970-3550'

Acid, Shot, Fracture, Squeeze: Acidized 2000 gals.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-

| | |
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|--------------------------------|---|
| 3a. Indicate Type of Lease | |
| State <input type="checkbox"/> | Fee <input checked="" type="checkbox"/> |
| 5. 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.)

| | |
|--|---|
| 1. OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> | 7. Unit Agreement Name |
| 2. Name of Operator HCW Exploration, Inc. | 8. Farm or Lease Name George Etz. |
| 3. Address of Operator P.O. Box 10585 Midland, TX 79702 | 9. Well No. 4 |
| 4. Location of Well UNIT LETTER <u>I</u> <u>1650</u> FEET FROM THE <u>South</u> LINE AND <u>990</u> FEET FROM THE <u>East</u> LINE, SECTION <u>27</u> TOWNSHIP <u>23S</u> RANGE <u>36E</u> NMPM. | 10. Field and Pool, or WHdcat Jalmat |
| 15. Elevation (Show whether DF, RT, GR, etc.) 3381.5' RT | 12. County Lea |

16.

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

| | | | |
|--|---|--|---|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | PLUG AND ABANDONMENT <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | OTHER <input type="checkbox"/> | CASING TEST AND CEMENT JOBS <input type="checkbox"/> | |

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

10/4/84 Find 2 3/8" EUE, 8rd tbg parted at 700'. 10/5/84 Fishing for parted tbg at 700'.
10/6/84 Fishing. 10/8/84 Fishing & washing. Tag fill at 668'. Mill to 698'. Loosing circ
10/9/84 Milling & washing. Loosing circ. TD 702'.
10/10/84 Milling & washing. Tite spot @ 698'. Work thru to 712'. Loosing circ.
10/11/84 Milling & washing. Hit bridge @ 698', could not work thru bridge. Pump down tbg
0 pressure. Pump dwn annulus 2 3/8" tbg & 5 1/2" csg 2 1/2 BPM @ 250 psi, getting
returns out annulus of 5 1/2" csg & 8 5/8" csg.
10/12/84 Prepare to pump cmt thru 5 1/2" HOWCO retainer.
10/13/84 Set retainer @ 286' pump 160 sx cement. Cmt to surface in annulus of 5 1/2" csg
& 8 5/8" csg. Close surface valves & squeeze 500 sx cmt below retainer. SI 400
psi. Spot 35 sx cement above retainer.
10/15/84 Open 5 1/2" annulus, flow 1" stream. Pump in to establish a rate. (1 1/2 BPM @
200 psi) Squeeze 200 sx cement pressure to 400 psi. SI & RD.
10/16/84 Pressure up 5 1/2" annulus to 500 psi. Held OK. ND wellhead, weld on top
plate, install dry hole marker. P & A.

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

SIGNED [Signature] TITLE Production Supt. DATE 10/26/84APPROVED BY [Signature] TITLE OIL & GAS INSPECTOR DATE MAY 17 1985

CONDITIONS OF APPROVAL, IF ANY:

WELL DATA SHEET

OPERATOR: Conoco

WELL NAME & NUMBER: Lynn B-1 #2

WELL LOCATION: 990' FNL, 990' FEL A 26 T-23-S R-36-E Lea
(Footage Location) (Unit Letter) (Section) (Township) (Range) (County)

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: Unknown
Casing Size: 7-5/8" @ 1225'
Cemented with: 500 sacks (or) _____ ft³
Top of Cement: Unknown
Method Determined: _____

Production Casing

Hole Size: Unknown
Casing Size: 5-1/2" @ 2784'
Cemented with: 500 sacks (or) _____ ft³
Top of Cement: Unknown
Method Determined: _____
Total Depth: 3350'

Additional Data

1. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil and gas
2. Name of the Injection Formation: n/a
3. Name of Field or Pool (if applicable): Jalmat Tansil-Yates-Seven Rivers
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. _____

Open hole 2784'-3550'

PA'd 4-12-77

See attached sheet for plugging detail

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
Jalmat Yates Gas Zone, Top @ approx. 3040'

Completion Record

Perfs: Open hole 2784'-3350'
Acid, Shot, Fracture, Squeeze: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate
(Other instructions
reverse side)

Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-21644

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

NMFU

8. FARM OR LEASE NAME

Lynn B-1

9. WELL NO.

2

10. FIELD AND POOL, OR WILDCAT

Jalmar Yates 7 River

11. SEC., T., R., OR BLK. AND
SURVEY OR AREA

Sec 26 T-23S R-36

12. COUNTY OR PARISH

LEA

13. STATE

N.M.

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—" for such proposals.)1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Plug & Abandon2. NAME OF OPERATOR
Continental Oil Company3. ADDRESS OF OPERATOR
Box 460 Hobbs N.M. 882404. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

990' FNL + 990' FEL Sec. 26

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

3364' OF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)*

4-8 W/H W/ Baker retainer. Set at 2709'. Spotted cmt
to tool. Stung into retainer, started pumping. Communicate
to casing. Pool, pumped approximately 65 Sx. cmt. 600'-
560' in casing.

4-12-77 Tagged top of cmt. at 2497'. Tested 5 1/2" csq. w/15
Spotted 25 Sx plug at 1284'-1150'. Spot 10 Sx plug at 96' +
surface

18. I hereby certify that the foregoing is true and correct.

SIGNED

Wm. E. Butterfield

TITLE

Asst. Supr.

DATE

5-26-77

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

OCT 19 1977

ARTHUR R. BROWN
DISTRICT ENGINEER

*See Instructions on Reverse Side

**Langlie Lynn Queen Unit
Wells #3, #5, #7, #9, #12, #14, #16, #18**

Proposed Injection Project

(April 13, 2000)

Proposed average and maximum daily rate: 300 BHPD / 500 BHPD

System is closed

Proposed average and maximum injection pressure: 500 psi / 1000 psi

Source of injection fluid: Texaco SW Supply (water lines)

Geological Data: The injection zone is the Queen/Seven Rivers at 3400-3800' and the lithology consists of dolomite, sandstone and anhydrite. No known sources of underground drinking water below the surface casing setting depth at 325 ± are present in the area of review.

Proposed Stimulation Program: Reperforate the Queen/Seven Rivers. Acidize each well with 3,000 gals NEFE acid.

Waylan C. Martin, M.A.

RESULT OF WATER ANALYSES

TO: Mr. Terry Lawler
3300 North A Street, Bldg. 4, Ste. 100
Midland, TX 79705

LABORATORY NO. 300138
SAMPLE RECEIVED 3-14-00
RESULTS REPORTED 3-20-00

COMPANY Energen Resources Corporation LEASE Langlie-Lynn
FIELD OR POOL _____

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from Dimwidder windmill. 3-14-00
NO. 2 Raw water - taken from Myers Ranch windmill. 3-14-00
NO. 3 _____
NO. 4 _____

REMARKS: Samples taken by Chuck Emerson, Martin Water Laboratories, Inc. cc

| CHEMICAL AND PHYSICAL PROPERTIES | | | | |
|--------------------------------------|--------|--------|-------|-------|
| | NO. 1 | NO. 2 | NO. 3 | NO. 4 |
| Specific Gravity at 60° F. | 1.0018 | 1.0019 | | |
| pH When Sampled | | | | |
| pH When Received | 7.49 | 7.39 | | |
| Bicarbonate as HCO ₃ | 317 | 224 | | |
| Supersaturation as CaCO ₃ | | | | |
| Undersaturation as CaCO ₃ | | | | |
| Total Hardness as CaCO ₃ | 176 | 312 | | |
| Calcium as Ca | 61 | 112 | | |
| Magnesium as Mg | 6 | 8 | | |
| Sodium and/or Potassium | 107 | 60 | | |
| Sulfate as SO ₄ | 89 | 148 | | |
| Chloride as Cl | 40 | 74 | | |
| Iron as Fe | 0.13 | 0.22 | | |
| Barium as Ba | | | | |
| Turbidity, Electric | | | | |
| Color as Pt | | | | |
| Total Solids, Calculated | 619 | 626 | | |
| Temperature °F. | | | | |
| Carbon Dioxide, Calculated | | | | |
| Dissolved Oxygen | | | | |
| Hydrogen Sulfide | 0.0 | 0.0 | | |
| Resistivity, ohms/m at 77° F. | 14.66 | 12.75 | | |
| Suspended Oil | | | | |
| Filtrable Solids as mg/l | | | | |
| Volume Filtered, ml | | | | |
| Nitrate, as N | 2.9 | 4.1 | | |

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.

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a
newspaper published at
Hobbs, New Mexico, do solemnly
swear that the clipping attached
hereto was published once a
week in the regular and entire
issue of said paper, and not a
supplement thereof for a period.

of 1

 weeks.

Beginning with the issue dated

March 25 2000

and ending with the issue dated

March 25 2000

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 27th day of

March 2000

Jodi Benson

Notary Public.

My Commission expires
October 18, 2000
(Seal)

This newspaper is duly qualified
to publish legal notices or adver-
tisements within the meaning of
Section 3, Chapter 167, Laws of
1937, and payment of fees for
said publication has been made.

LEGAL NOTICE
March 25, 2000
NOTICE OF APPLICATION FOR FLUID INJECTION
WELL PERMIT

Energien Resources Corporation, 3300 N. A St., Bldg. 4, Ste.
100, Midland, TX 79705 (Contact Person: Denise Menowd,
Telephone: 915-687-2074) is applying to the New Mexico Oil
Conservation Commission for a permit to inject fluid into a for-
mation productive of oil or gas.

The applicant proposes to inject fluid into the Langlie Mattix
Queen Unit #3, 5, 7, 9, 12, 14, 16, 18, and 23 for the purpose
of a secondary recovery waterflood project. The proposed in-
jection wells are located in Sec. 22, 23 and 26 - T-23S - R36E
in the Langlie-Lynn Queen Unit, Langlie Mattix Field, Lea
County, New Mexico. Fluid will be injected into strata in the
subsurface Seven Rivers-Queen-Grayburg Formation, at a
depth interval from 3400-3800'. Expected maximum injection
rate is 500 BWPD. Expected maximum injection pressure is
1000#.

LEGAL AUTHORITY: Rule 401.C. (1) of the Rules and Regula-
tions of the New Mexico Oil Conservation Commission.

Requests for a public hearing from persons who can show they
are adversely affected, or requests for further information con-
cerning any aspect of the application should be submitted in
writing, within fifteen days of this publication, to the Oil Con-
servation Division, 2040 South Pacheco, Santa Fe, NM 87505,
#17282

01105161000 01539720
Energien Resources Corporation
3300 North "A" Street
Building 4, Suite 100
MIDLAND, TX 79705

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO

COUNTY OF Lea

Before me, the undersigned authority, on this day personally appeared

Kathi Bearden, the Publisher of the
(Name) (Title)

Hobbs News-Sun, a newspaper having
(Name of Newspaper)

general circulation in Lea County, New Mexico, who being

by me duly sworn, deposes and says that the foregoing attached notice was published in

said newspaper on the following date(s), to wit: March 25, 2000
(Date)

Kathi Bearden
(Signature)

Subscribed and sworn to before me this the 3 day of April,
~~19~~ 2000, to certify which witness my hand and seal of office.

Jodi Benson
Notary Public in and for

Lea County, New Mexico

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- ☐ Complete items 1 and/or 2 for additional services.
- ☐ Complete items 3, 4a, and 4b.
- ☐ Print your name and address on the reverse of this form so that we can return this card to you.
- ☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
- ☐ Write "Return Receipt Requested" on the mailpiece below the article number.
- ☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. ☐ Addressee's Address
- 2. ☐ Restricted Delivery

3. Article Addressed to:

NEW MEXICO STATE
LAND OFFICE
P.O. BOX 1148
SANTA FE NM
87504-1148

4a. Article Number

2-558-120-401

4b. Service Type

- ☒ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

PS Form 3811, December 1994

102595-99-B-0223 Domestic Return Receipt

Thank you for using Return Receipt Service.

March 15, 2000

New Mexico State Land Office
P.O. Box 1148
Santa Fe, New Mexico 87504-1148

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

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.

Sincerely,

Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ORYX ENERGY
P.O. Box 2880
DALLAS TX
75221-2880

2. Article Number (Copy from service label)

2-558-120-409

COMPLETE THIS SECTION ON DELIVERY

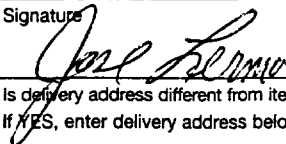
A. Received by (Please Print Clearly)

B. Date of Delivery

7/3

C. Signature

X

☐ Agent☐ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

March 15, 2000

Oryx Energy Co.
P.O. Box 2880
Dallas TX 75221-2880

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico


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Sincerely,



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Production Tech.
Energen Resources Corp.
(915) 687-2074

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RAPTOR RESOURCES
PO BOX 160430
AUSTIN TX 78716

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature

X

STEVE STATHEN
[Signature]☐ Agent☐ AddresseeD. Is delivery address different from item 1? ☒ YesIf YES, enter delivery address below: ☐ No

901 Rio Grande
78701

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number (Copy from service label)

Z-558-120-406

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789



March 15, 2000

Raptor Resources
P.O. Box 160430
Austin, Texas 78716

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

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.

Sincerely,

A handwritten signature in cursive script, appearing to read "D. Menoud".

Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CLAYTON WILLIAMS
6 DESTA DR. STE 3000
MIDLAND TX 79705

2. Article Number (Copy from service label)

7-558-120-407

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)

MARY OLIVE

B. Date of Delivery

3-14-00

C. Signature

X Mary Olive

☐ Agent☐ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

March 15, 2000

Clayton Williams
6 Desta Dr. Ste. 3000
Midland, Texas 79705

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

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Sincerely,



Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ROCA PETROLEUM
P.O. BOX 10139
MIDLAND TX 79702

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature

X

D. Is delivery address different from item 1? ☒ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☒ Certified Mail ☐ Express Mail
☒ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number (Copy from service label)

2-558-120-404



March 15, 2000

Roca Petroleum
P.O. Box 10139
Midland TX 79702

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

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.

Sincerely,

A handwritten signature in cursive script, appearing to read "D. Menoud".

Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CONOCO
10 DESTA DR. STE.
100W
MIDLAND TX 79705

2. Article Number (Copy from service label)

Z-558-118-764

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)

SHANNA WILLIAMS

B. Date of Delivery

3/13/99

C. Signature

X Shanna Williams

☐ Agent☐ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

March 15, 2000

Conoco
10 Desta Dr. Suite 100W
Midland TX 79705-4500

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

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.

Sincerely,



Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- ☐ Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
- ☐ Print your name and address on the reverse of this form so that we can return this card to you.
- ☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
- ☐ Write "Return Receipt Requested" on the mailpiece below the article number.
- ☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. ☐ Addressee's Address
- 2. ☐ Restricted Delivery

3. Article Addressed to:

DOYLE HARTMAN
P.O. BOX 10426
MIDLAND TX 79701

4a. Article Number

Z-558-120-423

4b. Service Type

- ☒ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

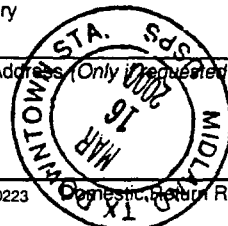
5. Received By: (Print Name)

DEBBY LANE HART

6. Signature (Addressee or Agent)

Debbie Lane Hart

8. Addressee's Address (Only if requested and fee is paid)



PS Form 3811, December 1994

102595-99-B-0223

Domestic Return Receipt

Thank you for using Return Receipt Service.



March 15, 2000

Doyle Hartman
P.O. Box 10426
Midland TX 79701

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

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Sincerely,

A handwritten signature in cursive script, appearing to read "D. Menoud".

Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

DEEP WELLS RANCH
INC.
ATTN: KELLY MYERS
STAR RT. 1 BOX 244
JAL NM 88252

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)

KELLY MYERS

B. Date of Delivery

3/16/00

C. Signature

X Kelly Myers

☐ Agent☒ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☒ No

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number (Copy from service label)

Z-558-120-424



March 15, 2000

Deep Wells Ranch Inc.
c/o Kelly Myers
Star Rt. 1, Box 244
Jal, New Mexico 88252

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

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.

Sincerely,

A handwritten signature in cursive script, appearing to read "D. Menoud".

Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

RHOMBUS OPERATING
200 N. LORAIN
STE. 1270
MIDLAND TX 79701

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)

B. Date of Delivery

3-16-00

C. Signature

X

☐ Agent☐ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number (Copy from service label)

2-558-120-403



March 15, 2000

Rhombus Operating
200 N. Loraine Suite 1270
Midland TX 79701

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

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.

Sincerely,

A handwritten signature in cursive script, appearing to read "D. Menoud".

Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

L. DREYFUS
14000 QUAIL SPRINGS
PKWY STE. 600
OKLAHOMA CITY OK
73134

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery

JERRY REARSON

3-17

C. Signature

X [Signature]

☐ Agent☐ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

2. Article Number (Copy from service label)

Z-558-120-408



March 15, 2000

L. Dreyfus
14000 Quail Springs Pkwy. Ste. 600
Oklahoma City OK 73134

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

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Sincerely,

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Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ARCO PERMIAN
600 N. MARIENFELD
MIDLAND, TX
79701

2. Article Number (Copy from service label)

Z-558-118-621

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly)

B. Date of Delivery

3-22-00

C. Signature

☐ Agent☐ Addressee

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☐ No

3. Service Type

☒ Certified Mail☐ Express Mail☒ Registered☐ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes

ENERGEN

R E S O U R C E S

Energien Resources Corporation
3300 North "A" Street
Building 4, Suite 100
Midland, Texas 79705

NOT DELIVERABLE AS
ADDRESSED-UNABLE
TO FORWARD

ENERGEN
R E S O U R C E S

ENERGEN RESOURCES CORPORATION
AN ENERGEN COMPANY
3300 North "A" Street
Building 4, Suite 100
Midland, Texas 79705

600 N. Maierfeld.

★ ★ ★
138
0550 \$ 03.200 MAR 15.00
4314 MAILED FROM MIDLAND TX 79705
UNITED STATES POSTAGE
PB8660416

ARCO PERMAN

~~PO Box 1710~~

HOBBS NM 88240

3/16

Fold at line over top of envelope to
the right of the return address

CERTIFIED

Z 558 118 763

MAIL

3-20-00

March 15, 2000

Arco Permian
P.O. Box 1710
Hobbs NM 88240

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

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.

Sincerely,



Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

GRUY PETROLEUM
MGMT.P.O. BOX 14097
IRVING TX 75014**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature

x *James P. Egan* ☐ Agent
☐ AddresseeD. Is delivery address different from item 1? ☐ YesIf YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail☒ Registered☐ Insured Mail☐ Express Mail☐ Return Receipt for Merchandise☐ C.O.D.

4. Restricted Delivery (Extra Fee)

☐ Yes

2. Article Number (Copy from service label)

Z-558-118-765



March 15, 2000

Gruy Petroleum Mgmt
P.O. Box 14097
Irving TX 75014

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Dear Sir:

Energen Resources is applying to the Oil Conservation Division of New Mexico for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

The Oil Conservation Division of New Mexico requires that all offset operators and surface owners be notified.

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Sincerely,

A handwritten signature in cursive script, appearing to read "D. Menoud".

Denise Menoud
Production Tech.
Energen Resources Corp.
(915) 687-2074

COMPANY: Energen Resources Corporation
WELL: Langlie Lynn Queen Unit #20
FIELD: Langlie Mattix 7 Rivers / Queen
COUNTY: Lea
STATE: New Mexico

Schlumberger
PLATFORM EXPRESS
Azimuthal Laterolog
MicroCFL

Field: Langlie Mattix 7 Rivers / Queen
Location: 672' FSL & 1797' FEL
Well: Langlie Lynn Queen Unit #20
Company: Energen Resources Corporation

LOCATION
672' FSL & 1797' FEL
Permanent Datum: Ground Level
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing
Elev.: 3394 ft
K.B. 3406 ft
G.L. 3394 ft
D.T. 3405 ft
Elev.: 12.0 ft above Perm. Datum

API Serial No. 30-025 34926
SECTION 22
TOWNSHIP 23S
RANGE 36E

Logging Date 3-MAR-2000

| | |
|------------------------------|----------------------------|
| Run Number | One |
| Depth Driller | 3850 ft |
| Schlumberger Depth | 3854 ft |
| Bottom Log Interval | 3846 ft |
| Top Log Interval | 331 ft |
| Casing Driller Size @ Depth | 8.625 in @ 331 ft |
| Casing Schlumberger | 331 ft |
| Bit Size | 7.875 in |
| Type Fluid In Hole | STARCH-MF-SS-DOS |
| Density | 10.2 lbm/gal |
| Viscosity | 30 s |
| Fluid Loss | 10 cm3 |
| Source Of Sample | Circulation Pit |
| FM @ Measured Temperature | 0.060 ohm m @ 80 degF |
| RMF @ Measured Temperature | 0.045 ohm m @ 80 degF |
| Source RMC | Calculated |
| FM @ MRT | 0.053 @ 91 |
| RMF @ MRT | 0.040 @ 91 |
| Maximum Recorded Temperature | 91 degF |
| Circulation Stopped | 3-MAR-2000 |
| Logger On Bottom | 3-MAR-2000 |
| Unit Number | 3125 Hobbs, NM |
| Recorded By | Tom Stenauer/Olav Amundsen |
| Witnessed By | Del Winde / Brad English |

| Run 1 | Run 2 | Run 3 | Run 4 |
|------------------------------|-------|-------|-------|
| Logging Date | | | |
| Run Number | | | |
| Depth Driller | | | |
| Schlumberger Depth | | | |
| Bottom Log Interval | | | |
| Top Log Interval | | | |
| Casing Driller Size @ Depth | | | |
| Casing Schlumberger | | | |
| Bit Size | | | |
| Type Fluid In Hole | | | |
| Density | | | |
| Viscosity | | | |
| Fluid Loss | | | |
| Source Of Sample | | | |
| FM @ Measured Temperature | | | |
| RMF @ Measured Temperature | | | |
| Source RMC | | | |
| FM @ MRT | | | |
| RMF @ MRT | | | |
| Maximum Recorded Temperature | | | |
| Circulation Stopped | | | |
| Logger On Bottom | | | |
| Unit Number | | | |
| Recorded By | | | |
| Witnessed By | | | |

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFEHENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

OTHER SERVICES1
OS1: PEX-HALS
OS2: MSCT
OS3:
OS4:
OS5:

OTHER SERVICES2
OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 1
This is the primary depth log.
All times noted are Mountain Standard Time

REMARKS: RUN NUMBER 2

Porosity assumes limestone matrix(2.71 g/cc).
Cement volume assumes 5 1/2 inch casing.

COMPANY: Energen Resources Corporation
WELL: Langlie Lynn Queen Unit #20
FIELD: Langlie Mattix 7 Rivers / Queen
COUNTY: Lea STATE: New Mexico

Location: 672' FSL & 1797' FEL
Well: Langlie Lynn Queen Unit #20
Company: Energen Resources Corporation

| | | | |
|--------------------------------|-------------------------------|--|--------------|
| Schlumberger | | PLATFORM EXPRESS Compensated Neutron Three Detector Density / GR | |
| 672' FSL & 1797' FEL | | Elev. KB 3406 ft G.L. 3394 ft D.F. 3405 ft | |
| Permanent Datum: | Ground Level | Elev.: 3394 ft | |
| Log Measured From: | Kelly Bushing | 12.0 ft above Perm. Datum | |
| Drilling Measured From: | Kelly Bushing | | |
| API Serial No. 30-025-34926 | SECTION 22 | TOWNSHIP 22S | RANGE 36E |
| Logging Date 3-MAR-2000 | | | |
| Run Number | One | | |
| Depth Driller | 3850 ft | | |
| Schlumberger Depth | 3834 ft | | |
| Bottom Log Interval | 3838 ft | | |
| 1 Log Interval | 200 ft | | |
| Casing Driller Size @ Depth | 8.625 in @ 331 ft | | |
| Casing Schlumberger | 331 ft | | |
| Bit Size | 7.875 in | | |
| Type Fluid In Hole | STARCHAMF-SS-DCS | | |
| Density | 10.2 lbm/gal | 30 s | |
| Viscosity | 10 cP | 10 | |
| PH | | | |
| Fluid Loss | | | |
| Circulation Pk | | | |
| 1 @ Measured Temperature | 0.060 ohm.in | @ | 80 degF |
| 1F @ Measured Temperature | 0.045 ohm.in | @ | 80 degF |
| 1C @ Measured Temperature | | @ | |
| Source RMC | | | |
| 1 @ MRT | 0.053 @ 91 | 0.040 @ 91 | |
| Maximum Recorded Temperatures | | | |
| Circulation Stopped | 91 degF | | |
| Logger On Bottom | 3-MAR-2000 | | 23:59 |
| Unit Number | 3125 | Hobbs NM | |
| Recorded By | Tom Steinhauser/Clay Amundsen | | |
| Witnessed By | Del Winder / Brad English | | |

| Logging Date | Run 1 | Run 2 | Run 3 | Run 4 |
|-------------------------------|-------|-------|-------|-------|
| Run Number | | | | |
| Depth Driller | | | | |
| Schlumberger Depth | | | | |
| Bottom Log Interval | | | | |
| 1 Log Interval | | | | |
| Casing Driller Size @ Depth | | | | |
| Casing Schlumberger | | | | |
| Bit Size | | | | |
| Type Fluid In Hole | | | | |
| 1 Density | | | | |
| 2 Fluid Loss | | | | |
| 3 Source Of Sample | | | | |
| RM @ Measured Temperature | | | | |
| RMF @ Measured Temperature | | | | |
| RMC @ Measured Temperature | | | | |
| Source RMC | | | | |
| RM @ MRT | | | | |
| Maximum Recorded Temperatures | | | | |
| Circulation Stopped | | | | |
| Logger On Bottom | | | | |
| Unit Number | | | | |
| Recorded By | | | | |
| Witnessed By | | | | |

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

| | |
|--|---|
| OTHER SERVICES1 OS1: PEX-HALS OS2: MSCT OS3: OS4: OS5: | OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5: |
| REMARKS: RUN NUMBER 1 This is the primary depth log. All times noted are Mountain Standard Time. | REMARKS: RUN NUMBER 2 |
| Porosity assumes limestone matrix(2.71 g/cc). Cement volume assumes 5 1/2 inch casing | |
| Fig. Key #8 | |

LANEXCO, INC.

1105 West Kansas
Address Line 2
Jal, New Mexico 88252

Phone 505/395-3056
Fax 505/395-3205

March 23, 2000

CERTIFIED

Mr. David Catanach
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505

RE: Energen Resources Corporation
Application to Inject Fluid Into a Reservoir Productive of Oil or Gas
Langlie Lynn #3, 5, 7, 9, 12, 14, 16, 18, 23
Langlie Lynn Unit, Langlie Mattix Field, Lea County, New Mexico

Case 12614

Dear Mr. Catanach,

Lanexco, Inc. as an offset operator respectfully & STRONGLY objects and request a hearing on the above captioned Wells from Energen Resources Corporation for authority to inject fluids into the Seven Rivers-Queen-Grayburg Formation.

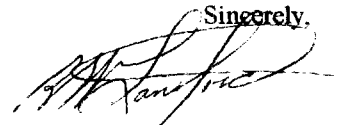
The above Langlie Lynn Unit was formally operated by Conoco, Inc. and in May of 1990 their Langlie Lynn Qu Unit #1 Sec 22 T23S R36E Unit J shortly after injection, infiltrated into Lanexco, Inc. Well the El Paso State #1 Sec 22 T23S R36E producing from the Jalmat Pool (yates-seven rivers Formation). The perforated interval on this well is 3045' to 3548'. Conoco, Inc. and Lanexco, Inc. met with the Hobbs Oil Commission and the decision was made that Conoco would shut down the injection of its LLU #1 for Lanexco to test the El Paso State Well and shortly thereafter entered into Litigation.

After Litigation between Lanexco and Conoco was settled, Conoco agreed to pay certain damages without admitting blame and to plug their LLU #1 in July of 1992. Lanexco, Inc. has been pumping the El Paso State #1 from the date of water invasion to the present time of this letter.

Energen reentered the LLU # 1 in Jan. 2000 and replugged the well. In Feb. 2000 Energen drilled a replacement Well the Langlie Lynn Unit #23 approximately 300' west of Lanexco's El Paso State #1 Well. I believe the same invasion problem will result in this case causing Lanexco to again enter into Litigation.

Please contact me if you have any questions or need additional information.

Sincerely,



Robert W. Lansford, President

cc: Hobbs Oil Commission
Energen-Mr. Ken Gray