

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.

/District Landman ASHLEY-INJECT-LLQU

KHG/pkr

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

Scott Hall

Energen Resources Corporation, an Energen Company 3300 North "A" Street, Building 4, Suite 100, Midland, Texas 79705



April 14, 2000

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

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RE: Energen Resources Corporation, Ogrid #162928 Application for Administrateive 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,

Denne Menoud

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

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

Khu GWY - 68 0753

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURA RESOURCES DEPARTMENT

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OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

FORM C-108 Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

| / | |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| √ I. | PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Yes No |
| <u>у</u> п. | 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? \underline{X} Yes No If yes, give the Division order number authorizing the project: WFX-581 $R-447$ |
| 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: |
| | Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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. |
| L 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: Arise Mensued 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 operation 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.

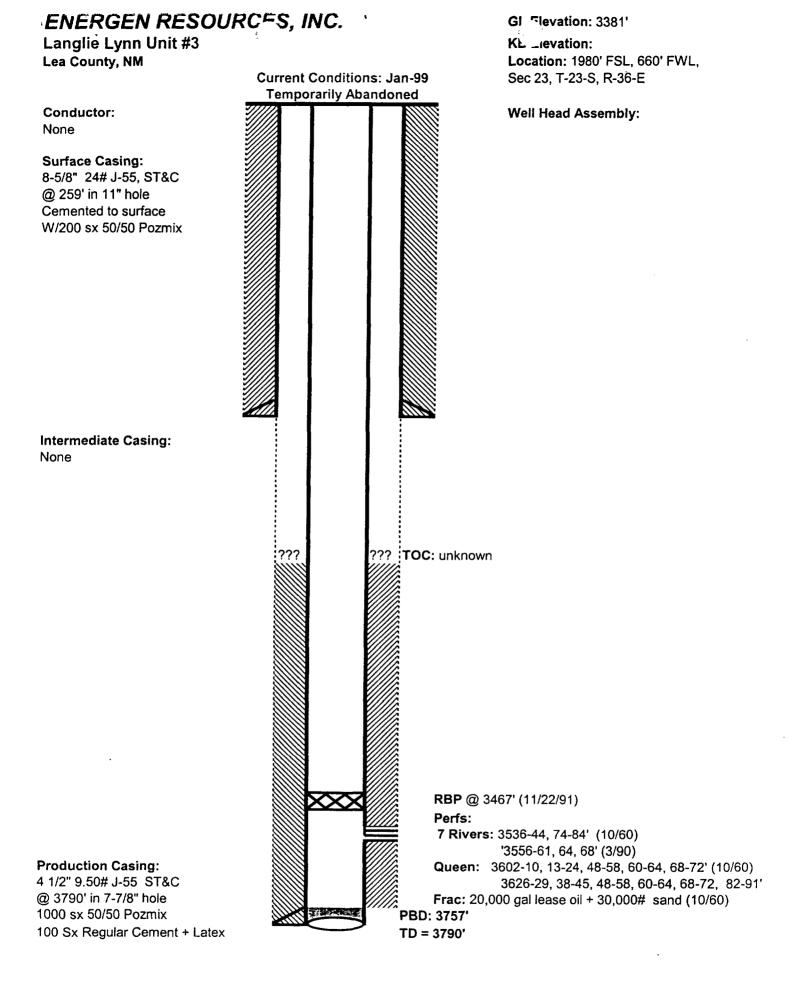
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

| Injection Interval | (Indicate whether Open Hole or perforated) perforated | Proposed Tubing Detail | | No Oil and gas | Langlie Mattix Seven Rivers-Queen-Grayburg | perforated in any other zone(s)? List all such perforated intervals and give plugging detail, ig(s) used. <u>No</u> | 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' | | ram | |
|--------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------|--|
| | feet to 3691' | ProTubing Size:2-3/8" J-55Lining Material:2-3/8" J-55Lining Material:Internal Plastic Coated (IPC)Type of Packer:Baker "Lok-Set"Packer Setting Depth:3458'Other Type of Tubing/Casing Seal (if applicable): | | Is this a new well drilled for injection? If no, for what purpose was the well originally drilled? Nome of the Injection Committee. | Name of Field or Pool (if applicable): | been perforated in any other zor or plug(s) used. <u>No</u> | d depths of any oil or gas zones ne, Top @ approx. 3040' | | See attached diagram Squeeze: | |
| | 3490' | Tubing Size: Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing | Addtitional Data | Is this a new well drilled for injecting for the set of the set of the purpose was the well of Nome of the Injection Economical | 3. Name of Field or F | Has the well ever been perforated sacks of cement or plug(s) used. | 5. Give the name and de Jalmat Yates Gas Zone, | Completion Record | Perfs: Acid, Shot, Fracture, Sque | |
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Total Depth: 3790'

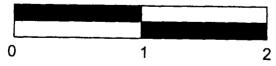
| Office | Ener. Minerals and | Natural Resources | R | Form C-103 evised March 25, 1999 |
|-------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------|--------------------------------------------------|-------------------------------------|
| District I 1625 N. French Dr., Hobbs, NM 87240 | ۰. | | WL API NO. | |
| <u>District II</u> 811 South First, Artesia, NM 87210 | | TION DIVISION | <u>30-025-09388</u> 5. Indicate Type of Lease | |
| District III | | h Pacheco | · · · · · | FEE |
| 1000 Rio Brazos Rd., Aztec, NM 87410 District IV | Santa Fe, 1 | NM 87505 | | |
| 2040 South Pacheco, Santa Fe, NM 87505 | | | 6. State Oil & Gas Lease | NO. |
| (DO NOT USE THIS FORM FOR PROP DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.) | | EPEN OR PLUG BACK TO A | 7. Lease Name or Unit A Langlie Lynn Queen U | |
| 1. Type of Well: Oil Well Gas Well | Other Injection | | | |
| 2. Name of Operator | | | 8. Well No. | |
| Energen Resources Corporation 3. Address of Operator | | · · · · · · · · · · · · · · · · · · · | 3 9. Pool name or Wildcat | |
| 3300 N. "A" St., Bldg 4. Ste. 4. Well Location | 100. Midland. TX 797(| 05 | Langlie Mattix 7 RVRS | /Queen/GB |
| | | 6 | | |
| Unit Letter : | 1980 feet from the | South line and | 660 feet from the | West line |
| Section 23 | Township 23 | | NMPM Cou | nty Lea |
| | 10. Elevation (Show wh | nether DR, RKB, RT, GR, etc | c.) | |
| 11 Check A | Appropriate Box to Ind | licate ₁ Nature of Notice, | Report or Other Data | |
| NOTICE OF INTI | | | SEQUENT REPORT | |
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| TEMPORARILY ABANDON | CHANGE PLANS | | | |
| PULL OR ALTER CASING | MULTIPLE COMPLETION | CASING TEST AND CEMENT JOB | | |
| OTHER: | | | | |
| Describe Proposed or Complete of starting any proposed work). or recompilation. | | | | |
| Note: Well was TA'd from | injection in 08/91. | | | |
| 02/16-18/00: MIRUPU. tes Peforated 7 RVRS/Queen @ 3 | | | | |
| 02/19/00: Found new PBTD | to be @ 3757'. | | | |
| 02/22/00: RIH w/ 2 3/8" tested csg to 550# for 30 | | | | |
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| I hereby certify that the information above f_{1} | • | • • | | |
| SIGNATURE | oud | 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 | <u> </u> |
| Conditions of approval, if any: | | | | |
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| Horizon de la construction de la | \$ | STRYEAS 7 | 4 | | 35 | Western | Saga | | |
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| Harris Cwellon 10 - IRoptor ARCO. Hen" • Trepadre "Davis" to base - I'Walt - I'Holt" +en" • Trepadre "Davis" to base - I'Walt - I'Holt" | Apcolikenwood | | ***** | | 10 C C C A. 27 | ¥¢≤ | this . | Mineralo "D" # 100 | WI # 33 |
| ten" • menubel "Davis" to base 1 | | | | × | | (P/B) | M2 LM | B-1167 Gruypet. | *8 * |
| ten" • twinn he "Davis" to hase frigo-st. frig | (Same) v | Koptor | | | ł. | | Groupot. | TA Star | "Holt" |
| stevens" Stevens" Stevens" Stevens | ten" • theten bre | "Davis" to base | 1 J-WN | 1 | .• | ● _{1.8} | Crryo-St. | on Gruy Pet. | -104 |
| | yry (5) 61.917 | ARCO OF Q.n. | | 1 | "Stevens" | | WILLIA . | Moralo St P103 | •••• |
| | - | • ••• · · · · · · · · · · · · · · · · · | · ··· · · · · · · · · · · · · · · · · | • | 116 | | · • • | 20101C | . 1 |



LANGLIE-LYNN #3 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD

T23s – R36E Lea County, New Mexico HALF MILE RADIUS

IJECTION WELL DATA SHEET

| OPERATOR: Energen Resources | | | | | | | | | <u> </u> |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------|-------------|------------------|------------------|--------------|----------------|--------------|----------|
| WELL NAME & NUM | BER: | Langlie Lyr | n Quee | en Unit #5 | | | | | |
| WELL LOCATION: | 1980' FSL | , 660 FWL | | | J | 23 | T-23-S | R-36-E | Lea |
| | (Footage Locatio | | × | | (Unit Letler) | (Section) | (Township) | (Range) | (County) |
| | | | WELL | CONSTRUC | TION DATA | | | | |
| | | | | Surface Ca | | | | | |
| Hole Size: | 11" | | | Sunace Ca | Siriy | | | | |
| Casing Size: | 8-5/8" | | | | | | | | |
| Cemented with: | 200 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | | | | | - | | |
| Method Determined: | Visual | | · , | | | | | | |
| | | | | | | | | | |
| Hole Size: | 6 2/4" | | Ē | Production C | asing | | | | |
| | 6-3/4" | | • | | | | | | |
| Casing Size: | 4-1/2" | | | | | | 40 | | |
| Cemented with: | <u>1600</u> | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | • | | | | | | |
| Method Determined: | Circ. | | • | | | | | | |
| Total Depth: | 3734' | | • | | | | | | |
| | | | | Injection Int | erval | | | | |
| 3494' | feet to | 3631' | | | (Indicate whethe | er Open Hole | or perforated) | perforated | |
| | | | <u></u> | | (maloate whethe | | or periorated) | ponoraiou | |
| | | | | | | | | | |
| · (| | | | <u>Tubing De</u> | <u>tail</u> | | | | |
| Tubing Size: | 2-3/8" | | - | | | | | | |
| Lining Material: | | | | | | | | | |
| Type of Packer: | | <u> </u> | | | | | | | |
| Packer Setting Depth: Other Type of Tubing | | ol (if applier | - ablo): | | | | | | |
| Other Type of Tubing | reasing se | ar (ir applica | adie). | - | | | | | |
| 1.1.1111 - 1.D4. | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for ir | jection? | | | No | | | | |
| If no, for what purpos | | - | y drilled | | Oil and gas | | | | |
| 2. Name of the Injec | | | | | ivers-Queen- | | | | |
| 3. Name of Field or I | Pool (if app | licable): | | Langlie N | Aattix Seven I | Rivers-Qu | een-Graybu | rg | |
| 4. Has the well ever | 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 an | d depths of | any oil or g | as zone | s underlying | or overlying t | he propos | ed injection | zone in this | area: |
| Jalmat Yates Gas Zo | | | | | | | | | |
| | | | | | <u></u> | <u></u> | | | |
| Completion Record | 1 | | | | | | | | |
| Perfs: | | See attacl | ned diad | Iram | | | | | |

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Acid, Shot, Fracture, Squeeze:

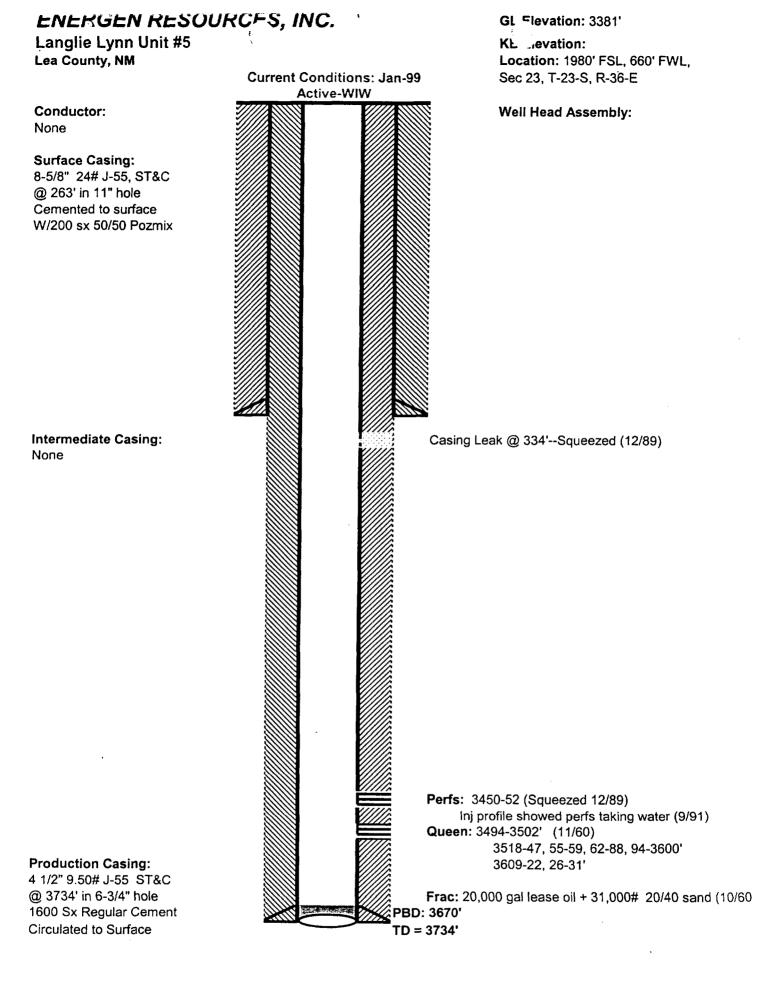
.

| Submit 3 Copies to Appropriate District Office | to Appropriate Energy, Minerals and Natural Resources Department | | | | | | |
|-----------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------|------------------------------------------|--|--|--|--|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II | OIL CONSERVATIO P.O. Box 200 Santa Fe, New Mexico | 88 | WELL API NO. 30-025-09389 | | | | |
| P.O. Drawer DD, Artesia, NM 88210 DISTRICT III | | 67304-2008 | 5. Indicate Type of Lease STATE X FEE | | | | |
| 1000 Rio Brazos Rd., Aztec, NM 87410 | 6. State Oil & Gas Lease No. 23267 | | | | | | |
| SUNDRY NOTI (DO NOT USE THIS FORM FOR PRO DIFFERENT RESEF (FORM C | 7. Lease Name or Unit Agreement Name | | | | | | |
| 1. Type of Well: OL GAS WELL WELL | OTHER Injec | tion Well | Langlie Lynn Queen Unit | | | | |
| 2. Name of Operator | | | | | | | |
| Energen Resources Corpo | pration | | 5 | | | | |
| 3. Address of Operator | | | 9. Pool name or Wildcat | | | | |
| 3300 N. A St, Bldg 4, 5 | te 100, Midland, TX 7 | 9705 | Langlie Mattix 7 RVRS/Queen/GB | | | | |
| 23 | 265 | 0 Feet From The East Line | | | | | |
| | Township 23S Ra 10. Elevation (Show whether | 44 EV 1 | MPM Lea County | | | | |
| 11. Check A | Appropriate Box to Indicate I | Nature of Notice, Re | eport, or Other Data | | | | |
| | | | SEQUENT REPORT OF: | | | | |
| | | | | | | | |
| | CHANGE PLANS | COMMENCE DRILLING | | | | | |
| PULL OR ALTER CASING | | CASING TEST AND CE | | | | | |
| OTHER: | | OTHER: | | | | | |

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

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 stonature | e is true and complete to the best of my know | whedge and belief. | Prod. Tech. | DATE3/13/2000 |
|-------------------------------------------------------|-----------------------------------------------|--------------------|-------------|----------------------------------|
| TYPE OR PRINT NAME | (Denise Menoud | | | <u>телерноне но. 915-687-2</u> 0 |
| (This space for State Use) | | | | |
| APPROVED BY | | mue | | DATE |
| CONDITIONS OF APPROVAL, IF ANY: | | | | |



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LANGLIE-LYNN #5 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s – R36E

Lea County, New Mexico TWO MILE RADIUS

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LANGLIE-LYNN #5 LANGLIE-LYNN UNIT

LANGLIE-MATTIX FIELD T23S – R36E Lea County, New Mexico HALF MILE RADIUS

JECTION WELL DATA SHEET

| OPERATOR: | <u></u> | Energen R | esource | S | <u></u> | | | | | |
|--------------------------------------------------------------------|-----------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------|--------------|-----------------------|------------------|--------------|----------|
| WELL NAME & NUM | BER: | Langlie Ly | nn Quee | n Unit # | 7 | | | ····· | | |
| WELL LOCATION: | 660' FSL, | 1980' FWL | | | | N | 23 | T-23-S | R-36-E | Lea |
| | (Footage Locali | on) | | | (| Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL | CONST | RUCTIO | N DATA | | | | |
| | | | | Surface | e Casing | | | | | |
| Hole Size: | 11" | | - | | | | | | | |
| Casing Size: | 8-5/8" | | . . | | | | | | | |
| Cemented with: | 275 | | sacks | (or) | | | | _ft3 | | |
| Top of Cement: | Surface | | - , | | | | | | | |
| Method Determined: | Visual | | - | | | | | | | |
| | | | P | roducti | ion Casiı | na | | | | |
| Hole Size: | 6-3/4" | | <u>r</u> | <u>. oquell</u> | Si Vasil | <u>स</u> | | | | |
| Casing Size: | 4-1/2" | | - | | | | | | | |
| Cemented with: | 1778 | | - sacks | (or) | | | | ft3 | | |
| Top of Cement: | Surface | | - | (017 | | | | _"" | | |
| Method Determined: | Visual | | - | | | | | | | |
| Total Depth: | 3800' | | - | | | | | | | |
| | | · <u> · · · · · · · · · · · · · ·</u> | - | | | | | | | |
| | | | 4 | Injectio | <u>n Interva</u> | <u>n/</u> | | | | |
| 3510' | feet to | 3682' | | | (Indi | cate whethe | er Open Hole | e or perforated) | perforated | |
| | | | | | | | | | | |
| | | | Pro | posed 1 | Tubing D |)etail | | | | |
| Tubing Size: | 2-3/8" J-5 | 55 | | | | | | | | |
| Lining Material: | Internal F | lastic Coate | d (IPC) | | | | | | | |
| Type of Packer: | Baker "Lo | ok-Set" | | | ······ | | | | | |
| Packer Setting Depth: | ± 3350' | | | | | | | | | |
| Other Type of Tubing | /Casing S | eal (if applic | able): | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Addtitional Data | | | | | | | | | | |
| | | | | | | | | | | |
| 1. Is this a new well | | - | المحمد المحم | י | N | | | | | |
| If no, for what purpos | | - | iy ariiled. | | | il and ga | | | | |
| Name of the Inject Name of Field or I | | | | | | | Grayburg Rivers-Ou | een-Graybu | | |
| 5. Name of Field of F | r oor (ir apt | | | Lan | gile Matt | x Seven | INIVEIS-QU | een-Graybu | <u></u> | |
| 4. Has the well ever I.e. sacks of cement | | - | other zo | one(s)? | List all s | uch perfo | prated inter | rvals and giv | ve plugging | detail, |
| 5. Give the name an Jalmat Yates Gas Zo | | • • | - | s underl | lying or o | verlying t | he propos | ed injection | zone in this | area: |
| Completion Record | ! | | | | | | | | | |
| Perfs: | | See attac | hed diag | ram | | | | | | |

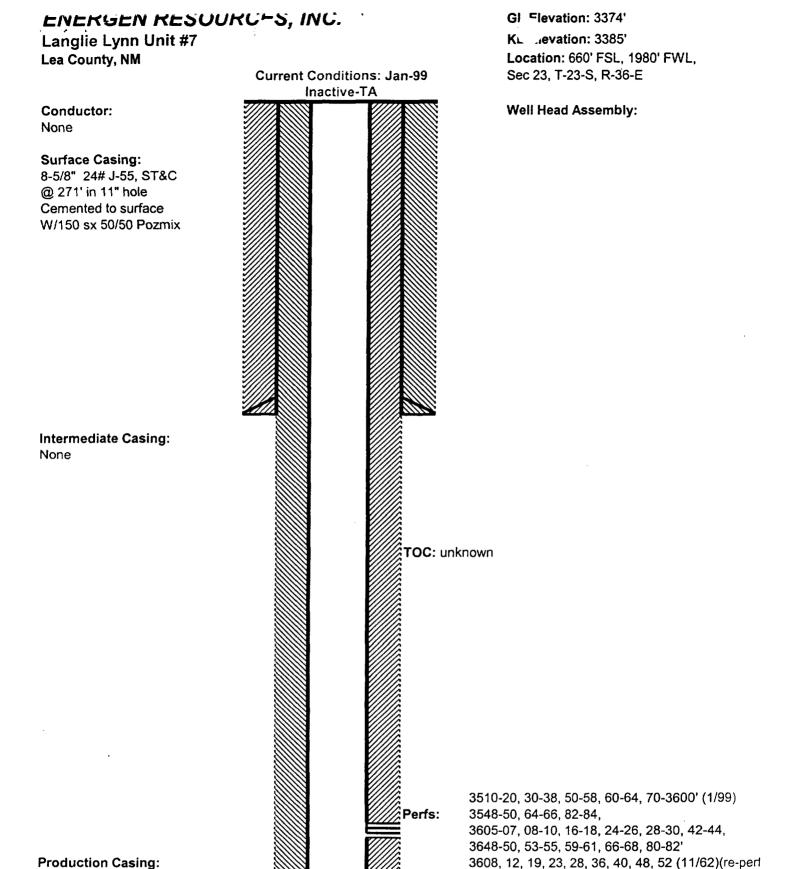
Acid, Shot, Fracture, Squeeze:

| Submit 3 Copies | State of New Me Energy, Minerals and Natural Re | | | | | |
|--------------------------------------------------|----------------------------------------------------|--------------------------------|---------------------------------------|--|--|--|
| to Appropriate District Office | Energy, Minerals and Natural Ro | esources Department | Revised 1-1-89 | | | |
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATIO P.O. Box 200 | 38 | WELL API NO. 30-025-09391 | | | |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New Mexico | 87504-2088 | 5. Indicate Type of Lease | | | |
| DISTRICT III | | | STATEX FEE | | | |
| 1000 Rio Brazos Rd., Aztec, NM 87410 | | · | 6. State Oil & Gas Lease No. 23267 | | | |
| | CES AND REPORTS ON WEL | | | | | |
| | VOIR. USE "APPLICATION FOR PE | | 7. Lease Name or Unit Agreement Name | | | |
| (FORM C- 1. Type of Well: | 101) FOR SUCH PROPOSALS.) | | Langlie Lynn Queen Unit | | | |
| OL OL WELL OAS | other Conve | rt to WIW | | | | |
| 2. Name of Operator | | | 8. Well No. | | | |
| Energen Resources Corp | poration | | .7 | | | |
| 3. Address of Operator 3300 N A St Bldg / | Ste 100, Midland, TX | 70705 | 9. Pool name or Wildcat | | | |
| 4. Well Location | ste 100, Maland, IX | 19105 | Langlie Mattix 7 RVRS/Queen/GB | | | |
| Unit Letter : 600 | Feet From The South | Line and1980 | Feet From The West Line | | | |
| Section 23 | | | NMPM Lea County | | | |
| | 10. Elevation (Show whether | DF, KKB, RI, GR, e lc.) | | | | |
| 11. Check A | Appropriate Box to Indicate I | Nature of Notice, Re | eport, or Other Data | | | |
| NOTICE OF INT | ENTION TO: | SUB | SEQUENT REPORT OF: | | | |
| | | REMEDIAL WORK | | | | |
| | CHANGE PLANS | COMMENCE DRILLING | OPNS. DPLUG AND ABANDONMENT | | | |
| PULL OR ALTER CASING | | CASING TEST AND CE | | | | |
| OTHER: Convert To WIW | | 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.

| | ormation above is true and complete to the best of m <u>XI. Menoul</u> | y knowledge und belief. Prod. Tech. | DATE |
|----------------------------|---------------------------------------------------------------------------|----------------------------------------|----------------------------------|
| TYPE OR PRINT NAME | Denise Menoud | | ТЕLЕРНОНЕ NO. 915-687- 20 |
| (This space for State Use) | | | |
| APPROVED BY | | TITLE | DATE |
| CONDITIONS OF APPROVAL | IF ANY: | | |



PBD: 3757'

TD = 3800'

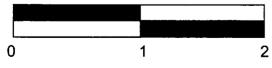
Frac: 20,000 gal lease oil + 28,000# sand (11/62)

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

| | | | ······································ | | |
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LANGLIE-LYNN #7 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s – R36E

Lea County, New Mexico TWO MILE RADIUS

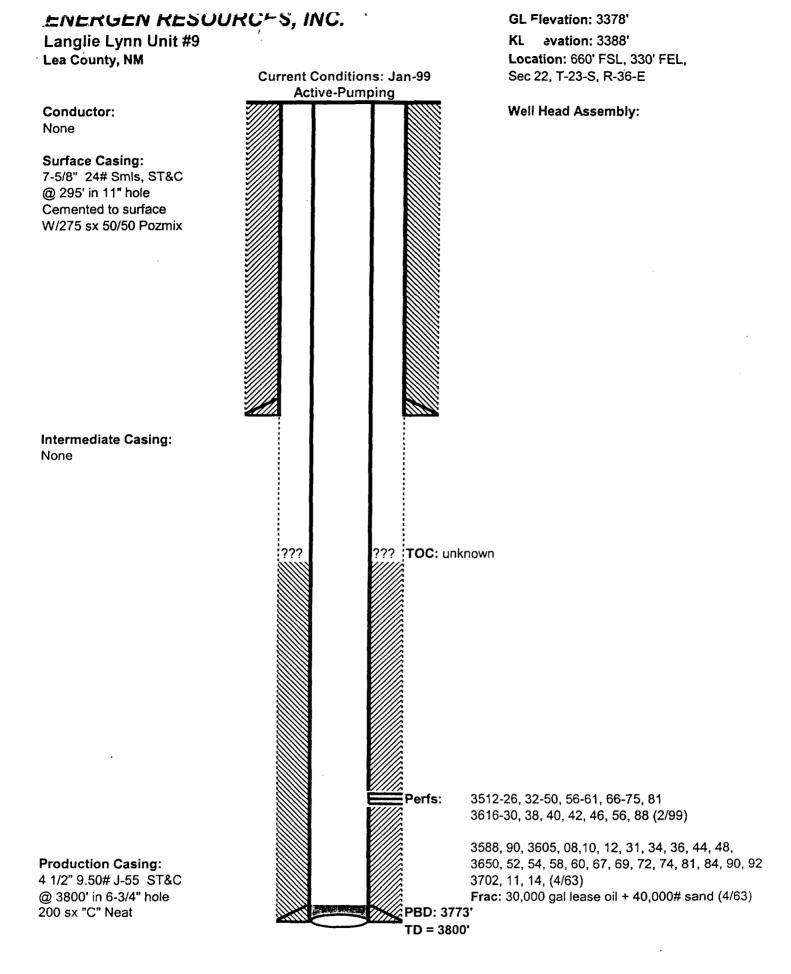
JECTION WELL DATA SHEET

| OPERATOR: | . <u> </u> | Energen | Resources | 5 | | | <u></u> | | |
|-----------------------------------------|-----------------|----------------------------|--------------|---------------------------------------|------------------|--------------|----------------|--------------|----------|
| WELL NAME & NUM | BER: | Langlie Lynn Queen Unit #9 | | | | | | | |
| WELL LOCATION: | 660' FSL, | 330' FEL | | | Р | 22 | T-23-S | R-36-E | Lea |
| • | (Foolage Locati | on) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | CONSTRU | CTION DATA | | | | |
| | | | | Surface Ca | asing | | | | |
| Hole Size: | 9-7/8" | | | • | | | | | |
| Casing Size: | 7-5/8" | | - | | | | | | |
| Cemented with: | 275 | | _sacks | (or) | <u></u> | | _ft3 | | |
| Top of Cement: | Surface | | | | | | | | |
| Method Determined: | Visual | | | | | | | | |
| | | | <u>P</u> | roduction | 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' | | | | | | | | |
| | | | - | nio dia min | - 4 | | | | |
| | | | <u>!</u> | njection Ir | iterval | | | | |
| 3512' | _ feet to | 3714' | <u></u> | _ _ | (Indicate whethe | er Open Hole | or perforated) | perforated | |
| | | | _ | / | | | | | |
| · Tubing Size: | 2-3/8" J-{ | 55 | Proj | posed Tub | ing Detail | | | | |
| Tubing Size: Lining Material: | | Plastic Coal | ed (IPC) | | | | | | |
| Type of Packer: | Baker "Lo | | | | | | | | |
| Packer Setting Depth: | ± 3350' | | | | | | | | |
| Other Type of Tubing | g/Casing S | eal (if appli | cable): | | | | | | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | · . |
| 1. Is this a new well | drilled for i | njection? | | · · · · · · · · · · · · · · · · · · · | No | | | | |
| If no, for what purpos | | - | ally drilled | ? | Oil and ga | | | | |
| 2. Name of the Inject | | | <u>-</u> | | | | -Grayburg | | |
| 3. Name of Field or I | Pool (if app | olicable): | <u></u> | | Langlie Ma | attix Seven | Rivers-Que | en-Graybu | g |
| 4. Has the well ever | | | | ne(s)? Lis | t all such perfo | prated inter | vals and giv | e plugging | detail, |
| I.e. sacks of cement | or plug(s) | used. | No | | <u> </u> | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | | | | s underlying | | | ed injection | zone in this | area: |
| ······ | <u></u> | <u> </u> | | <u></u> | | | <u></u> | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | | See atta | ched diag | am | | | | | |

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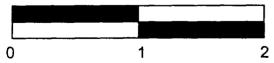
Acid, Shot, Fracture, Squeeze:

| The target of New Mexico | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| to Appropriate Ene. Minerals and Natural Resources Department District Office | Form C-103 Revised 1-1-89 |
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION P.O. Box 2088 | WELL API NO. |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico 87504-2088 | 30-025-20049 5. Indicate Type of Lease |
| DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 | STATE X 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 RESERVOR. 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: OL GAS OTHER COnverty to WIW | |
| 2. Name of Operator | 8. Well No. |
| Energen Resources Corproation 3. Address of Operator | 9 9. Pool name or Wildcat |
| 3300 N. A St, Bldg 4, Ste 100, Midland, TX 79705 | Langlie Mattix 7 RVRS/Queen/GB |
| 4. Well Location | |
| Unit Letter _ P : _ 660 Feet From The _ South Line and _ 330 | Feet From The <u>East</u> Line |
| Section 22 Township 23S Range 36E | MMPM Lea County |
| 10. Elevation (Show whether DF, RKB, RT, GR, etc.) 3378' KB | |
| 11. Check Appropriate Box to Indicate Nature of Notice, Re | port, or Other Data |
| NOTICE OF INTENTION TO: SUB | SEQUENT REPORT OF: |
| | |
| TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING | OPNS. DPLUG AND ABANDONMENT |
| PULL OR ALTER CASING | |
| OTHER: Convert to WIW | |
| Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, include work) SEE RULE 1103. MIRU WSU, pull all producton equipment. TIH w/ RBP to 3,500 | |
| 500 psi for 30 minutes. POH & re-perforate the 7 RVRS/Queen Run injection packer and tubing, perform casing integrity te | , acidize w/ 3,000 gals. |
| | |
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| | |
| | |
| | |
| I hereby certify that the information above is true and complete to the best of my knowledge and belief. | |
| signature XI. Mensuo TILE Prodc. Tech | DATE 3/13/2000 |
| TYPE OR PRINT NAME Denise Menoud | TELEPHONE NO.915-687-20 |
| (This space for State Use) | |
| APTROVED BY TILE | DATE' |
| CONDITIONS OF APPROVAL, IF ANY: | |
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MILES



LANGLIE-LYNN #9 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23s – R36E Lea County, New Mexico TWO MILE RADIUS

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LANGLIE-LYNN #9 LANGLIE-LYNN UNIT

LANGLIE-MATTIX FIELD T23S – R36E Lea County, New Mexico HALF MILE RADIUS

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JECTION WELL DATA SHEET

| OPERATOR: | Energen R | Resources | | | | | | <u> </u> |
|--------------------------------|----------------------------------------------------|--------------|--------------------------|------------------|----------------------------------------------|------------------|--------------|---------------|
| WELL NAME & NUM | BER: Langlie Ly | nn 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) |
| | | | | | | | | |
| | | | | TION DATA | | | | |
| Hole Size: | 11" | 2 | Surface Cas | <u>sing</u> | | | | |
| Casing Size: | 7-5/8" | - | | | | | | |
| Cemented with: | 200 | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | - | (0.) | | | | | |
| Method Determined: | Visual | - | | | | | | |
| | | - | | | | | | |
| | | <u>Pr</u> | oduction C | asing | | | | |
| 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' | _ | | | | | | |
| | | _ | | | | | | |
| | 4 4 (0) | <u>s</u> | lim Hole Ca | asing | | | | |
| Hole Size: | 4-1/2" | _ | | | | | | |
| Casing Size: Cemented with: | <u>2-7/8"</u> 545 | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | - 30013 | (01) | | | _113 | | |
| Method Determined: | Visual | - | | | | | | |
| | | - | | | | | | |
| | | <u>h</u> | njection Int | erval | | | | |
| 3446' | feet to3682' | | | (Indicate whethe | er Open Hole | e or perforated) | perforated | |
| |) | | | | | | | |
| (| (. | Prop | osed Tubii | ng Detail | | | | |
| Tubing Size: | 2-3/8" J-55 | _ | | | | | | |
| Lining Material: | Internal Plastic Coate | ed (IPC) | | | | | | |
| Type of Packer: | Baker "Lok-Set" | | | | | | | |
| Packer Setting Depth: | ± 3350' | _ | | | | | | |
| Other Type of Tubing | g/Casing Seal (if applic | able): | | | | <u> </u> | | |
| | • | | | | | | | |
| Addtitional Data | | | | | | | | |
| 1. Is this a new well | - | | | No | <u>. </u> | <u></u> | | |
| | se was the well original | lly drilled? | ليبي بين المسلمة المسلمة | Oil and gas | | ······ | | , |
| 2. Name of the Inject | | | | ivers-Queen- | | | | |
| 3. Name of Field or | Pool (ir applicable): | <u></u> | Langlie | Mattix Seven I | Rivers-Qu | leen-Graybu | rg | <u></u> |
| 4. Has the well ever | been perforated in any | y other zor | ne(s)? List | all such perfo | rated inte | rvals and giv | e plugging (| detail. |
| I.e. sacks of cement | | No | | · | | | | |
| | | | | | | | | |
| | nd depths of any oil or g one, Top @ approx. 30 | | underlying | or overlying th | he propos | ed injection | zone in this | area: |
| | | | | | | | | |
| Completion Record | ! | | | | | | | |
| Perfs: | See attac | hed diagra | am | | | | | |
| Acid. Shot. Fracture. | | Y | | <u> </u> | | | | |

| Submit 3 Colles 19 Appropriate District Office | State of Ne Ener Minerals and | | | | r. | | | Form C-1 March 25, 19 | - |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------|----------------|----------------------|-----------------------------------------------------------|-----------------------------|------------------------|--------------------------|----|
| 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 | OIL CONSERVA 2040 Sout Santa Fe, | ATIOI th Pac | N DIVI heco | | WELL AI 5. Indicat STA 6. State C | 30-025- e Type of ATE | 20052 Lease FEE | | |
| SUNDRY NOTIO (DO NOT USE THIS FORM FOR PROP DIFFERENT RESERVOIR. USE "APPLI PROPOSALS.) 1. Type of Well: Oil Well X Gas Well | | EPEN (| OR PLUG | | 7. Lease Langlie | | Jnit Agreem en Unit | ent Name: | |
| 2. Name of Operator | | | | | 8. Well N | o. | | | Τ |
| Energen Resources Corporation | l | | | | 12 | | | | |
| 3. Address of Operator | | | | | 9. Pool na | ime or Wi | ldcat | | |
| 3300 N. "A" St., Bldg 4, Ste. | <u>100, Midland, TX 797</u> | 05 | | | Langlie I | <u>Mattix 7</u> | RVRS/Quee | n/GB | |
| 4. Well Location Unit Letter D: | 660 feet from the | Nor | th | line and | 660 | feet from | n the We | stlin | ıe |
| Section 23 | Township 23 | 3S | Range | 36E | NMPM | | County | Lea | |
| | 10. Elevation (Show wh | hether | DR, RKI | 3, RT, GR, et | c.) | | | | |
| 11. Check A | Appropriate Box to Inc | licate | Nature | of Notice, | Report, o | r Other I | Data | | |
| NOTICE OF INT | | | | | - | | ORT OF: | | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON | | REMED | IAL WORK | | | ALTERING | | |
| TEMPORARILY ABANDON | CHANGE PLANS | | сомм | ENCE DRILLI | NG OPNS. | | PLUG ANI ABANDON | | |
| PULL OR ALTER CASING | MULTIPLE | | CASING | G TEST AND IT JOB | | | | | |
| OTHER: Convert to Injection | | | OTHER | : | | | | ····· | |
| 12. Describe Proposed or Complete | | | | | | | | | |

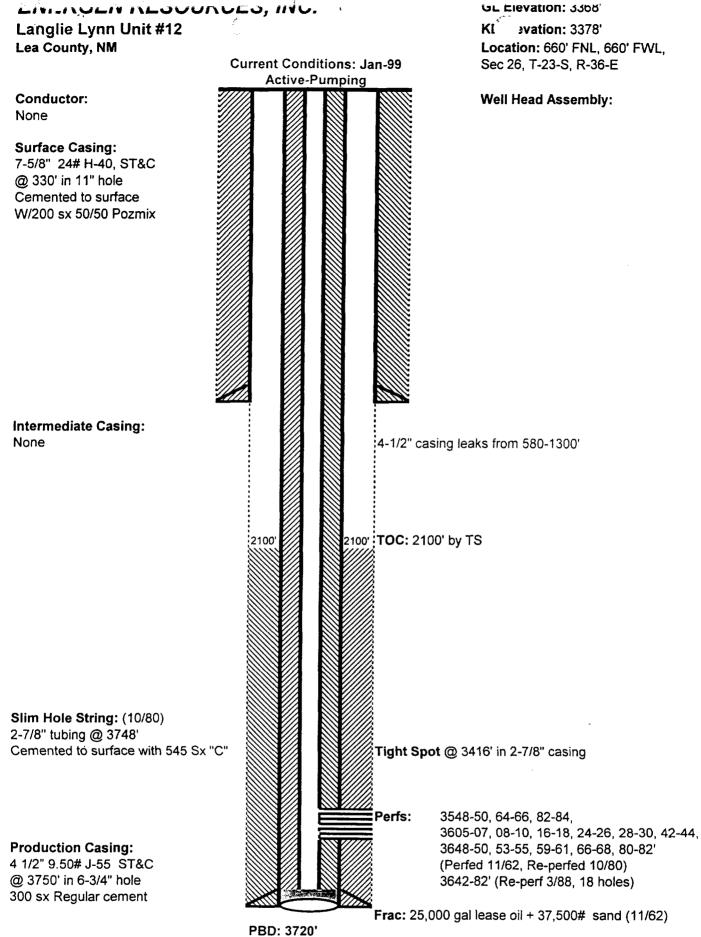
of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

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 Menoul | 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 Conditions of approval, if any: | TITLE | DATE | |





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

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| B Roca rirod. 2 | 5. 103950 7. 103950 7. CME 04G | 26 | | Nino O. Lunkfor 25 | · · · · · · · · · · · · · · · · · · · |
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| 5 1 (Clay), 3(wa) swo 3620 | W.H.Combest | U.S J.T. Lynn | - - | Lynn" U.S. | |
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| Citation ULG Cont'l 03 | 0556 (W0) •34 (Conoco) | L'Her | s.i. | *LMT* | |
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| Horris Ewution 402 201 1 3 | ********* | 030556 Az | 3 A ★ XµS (P/B) | Gruy Pet. 22 Th | |
| Roptor | AACO. Guinrie | | | | "Holt" |
| ten" • Dovis" to base yry (5) 10-1-32 | - C their | Stevene" | | Anoralo Si \$103 | • <u>1</u> 04 |



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LANGLIE-LYNN #12 LANGLIE-LYNN UNIT LANGLIE-MATTIX FIELD T23S – R36E Lea County, New Mexico HALF MILE RADIUS

JECTION WELL DATA SHEET

| OPERATOR: | • | Energen F | Resource | S | | | | | |
|--------------------------------------------|------------------|----------------|------------|-------------------|------------------|--------------|------------------|----------------|-----------|
| WELL NAME & NUM | BER: | Langlie Ly | nn Quee | n Unit #14 | | | | | |
| WELL LOCATION: | | 1980' FEL | | | <u> </u> | 26 | T-23-S | R-36-E | Lea |
| | (Footage Locatio | on) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL | CONSTRUC | TION DATA | | | | |
| | | | | <u>Surface Ca</u> | sing | | | | |
| Hole Size: | 11" | | _ | | | | | | |
| Casing Size: | 7-5/8" | | | | | | ~~ | | |
| Cemented with: | 200 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | _ · | | | | | | |
| Method Determined: | Visual | | - | | | | | | |
| | | | ŀ | Production | Casing | | | | |
| Hole Size: | 6-3/4" | | | | | | | | |
| Casing Size: | 4-1/2" | | - | | | | | | |
| Cemented with: | 300 | | - sacks | (or) | | | ft3 | | |
| Top of Cement: | 2600' | | - | | <u></u> | | - | | |
| Method Determined: | TS | | _ | | | | | | |
| Total Depth: | 3720' | | - | | | | | | |
| | <u></u> | | _ | | | | | | |
| | | | | Injection In | <u>terval</u> | | | | |
| 3408' | feet to | 3586' | | | (Indicate wheth | er Open Hole | e or perforated) | perforated | |
| | | | | | | | | | |
| | \sim) | | Pro | posed Tub | ina Detail | | | | |
| Tubing Size: | 2-3/8" J-5 | 5 | <u></u> | | 19 00.00 | | | | |
| Lining Material: | | astic Coate | d (IPC) | | | | | | |
| Type of Packer: | Baker "Lo | | | | | | | | |
| Packer Setting Depth: | 3393' | | | | | | | | |
| Other Type of Tubing | | al (if applica | ible): | <u> </u> | | | | | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | iection? | | | No | | | | |
| If no, for what purpos | | - | v drilled? | | Oil and gas | 3 | | | . <u></u> |
| 2. Name of the Inject | | | | | Seven Rive | | Gravburo | | |
| 3. Name of Field or I | | - | | | | | | en-Grayburg | |
| 4. Has the well ever | heen nerfor | ated in any | other zor | no(e)? Listo | Il such nerfore | ted interval | le and cive : | dugging det | ail |
| 1.e. sacks of cement | | | No No | | | | is and give p | | aıı, |
| | · | <u></u> | <u>,</u> | <u></u> | | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | | - | | underlying c | or overlying the | proposed | injection zo | ne in this are | ea: |
| Completion Record | | | | | | | | | |
| | • | _ | | | | | | | |
| Perfs: | | See attac | hed diag | ram | | | | | |

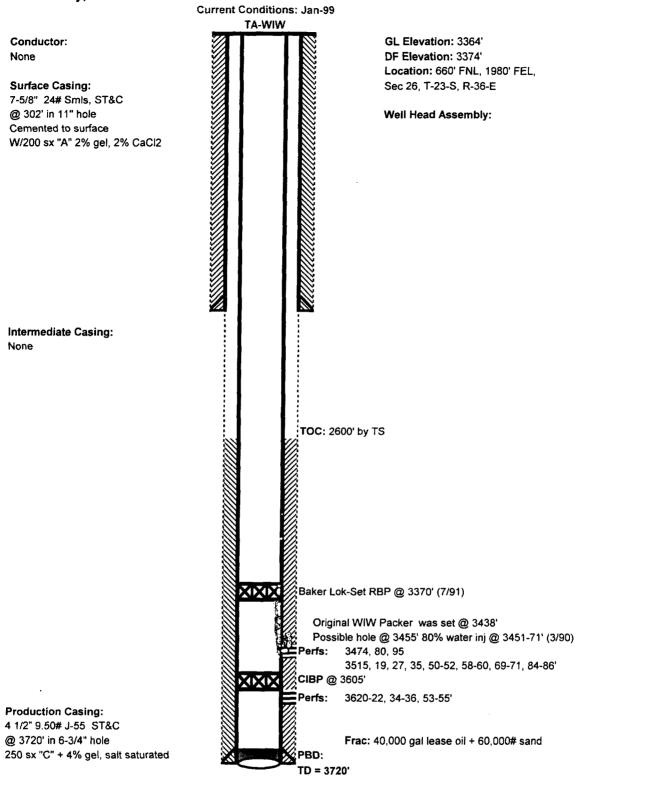
Acid, Shot, Fracture, Squeeze:

| Sut mit 3 Copies To Appropriate Distric | | e of New Mexico | | <i>.</i> | | Form C- | 103 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------|
| Office District I | | rals and Natural Re | esources | (WELL AP | <u></u> | Revised March 25, 1 | 999 |
| 1625 N. French Dr., Hobbs, NM 87240 District II | OIL CONSERVATION DIVISION | | | | 1 NO. <u>30-025-201</u> | .91 | |
| 811 South First, Artesia, NM 87210 District III | | | | | 5. Indicate Type of Lease | | |
| 1000 Rio Brazos Rd., Aztec, NM 87410 District IV | Sar | Santa Fe, NM 87505 | | | TE X | FEE | |
| 2040 South Pacheco, Santa Fe, NM 875 | 05 | | | 6. State O 23267 | il & Gas Lea | ise No. | |
| SUNDRY NO (DO NOT USE THIS FORM FOR PR DIFFERENT RESERVOIR. USE "AP PROPOSALS.) 1. Type of Well: Oil Well Gas Well [2. Name of Operator | | R TO DEEPEN OR PLU | IG BACK TO A | | ynn Queen | Agreement Name: | |
| Energen Resources Corporat | ion | | | 14 | J. | | |
| 3. Address of Operator | <u></u> | <u></u> | | | me or Wildc | at · | |
| 3300 N. "A" St., Bldg 4, S | te. 100, Midland, | TX 79705 | | Langlie M | <u>attix 7 R</u> | /RS/Queen/GB | |
| 4. Well Location | | | | | | | |
| Unit Letter <u>B</u> : | feet from | m the North | line and | 1980 | feet from the | e <u>East</u> li | ne |
| Section 26 | Townsh | | | NMPM | C | ounty Lea | |
| | Section (S | Show whether DR, R | KB, RT, GR, el | tc.) | | | |
| 11. Chec | k Appropriate Box | to Indicate _l Natu | re of Notice, | Report, or | Other Da | ta | |
| NOTICE OF IN | NTENTION TO: | | SUB | SEQUEN | T REPOP | RT OF: | |
| PERFORM REMEDIAL WORK [| PLUG AND ABA | | EDIAL WORK | | | LTERING CASING | |
| TEMPORARILY ABANDON | | s 🗖 сом | MENCE DRILL | ING OPNS. | | LUG AND BANDONMENT | |
| PULL OR ALTER CASING | | | NG TEST AND ENT JOB | | | BANDONMENT | |
| OTHER: | | 🔲 отн | ER: | | | | |
| 12. Describe Proposed or Comp of starting any proposed wor or recompilation. | - | · • | - | - | | | |
| 03/07/00: MIRUPU. Tag Pressure test failed. 03/10/00-03/18/00: RIH cmt, tag cmt @ 708'. S cubic feet). Pressure 03/19/00-03/22/00: Spo (slurry-19 cubic feet), 3,408'-3,416', 3,424'-3 3/23/00-3/24/00: Acid: packer, SN, & 2 3/8" th held. Waiting on reins | Csg leak at 703'- to 1233', spot 2 s Shot 4 sqz holes at test failed. DO o ot 2 sx sand on top , WOC. Spot 14 sx (3,428', & 3,454'-3 ize w/3000 barrels og. Set inj pkr at | 989' FS. sacks sand out EX t 703' FS over a cmt, circ, fish o p of RBP. Acidis Cl C cmt (slurry ,462', total 80 1 15% HCL. Swab. t 3,393'. PBTD @ | OT. Tag CR @ 1' interval. for RBP. POC ze w/2 barrel - 19 cubic fe moles. RIH w/ 2 3/8 | 949', PC . Pump 218 DH w/RBP. ls 15% HCL. set). DO c 3" x 4 1/2" | to 948', sx Cl C c Set RBP @ Spot 14 s mt. Tag t "Lok-Set" | spot 25 sx Cl C mt (slurry-290 1010'. sx Cl C cmt bg @ 840'. Per ' injection | |
| I hereby certify that the information ab | | • | - | | | | |
| SIGNATURE | <u>Baquel</u> | TITLE_Pro | duction Cler | <u>k</u> | DAT | Е <u>4/10/200</u> 0 | <u>. </u> |
| Type or print name Judy Bagwel | 1 | | | | Telephone N | No. (915)687-115 | 5 |
| (This space for State use) | | | | | | | |
| | | TITLE | | | | | |

APPROVED BY_____ Conditions of approval, if any:

ENERGEN RESULICES, INC.

Langlie Lynn Unit #14 Lea County, NM



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LANGLIE-LYNN #14

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

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| 1000 (C) 10 4000 C | A Deco of De | | | | | | | | | |
| ten" • • • • • • • • • • • • • • • • • • • | "Dovis" to base ARCO of an | - C Abaia | s: | tevens* | | -CE-INCOM | 'dist | | | |



LANGLIE-LYNN #14

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 #16 | | | | | | ····· | | | |
| WELL LOCATION: | 1980' FNL | , 1980' FWL | - | | F | 26 | T-23-S | R-36-E | Lea |
| • | (Footage Locatio | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (Counly) |
| | | | WELL (| CONSTRUC | TION DATA | | | | |
| | | | | <u>Surface Ca</u> | <u>sinq</u> | | | | |
| Hole Size: | 11" | | | | | | | | |
| Casing Size: | 7-5/8" | | | () | | | 40 | | |
| Cemented with: | 250 Surface | | sacks | (or) | · | | _ft3 | | |
| Top of Cement: Method Determined: | Visual | | , | | | | | | |
| Method Determined. | Visual | | | | | | | | |
| | | | Þ | roduction (| Casina | | | | |
| Hole Size: | 6-3/4" | | | | - aviii M | | | | |
| Casing Size: | 4-1/2" | <u> </u> | | | | | | | |
| Cemented with: | 200 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | 2450' | ······································ | • | | | | - | | |
| Method Determined: | TS | | | | | | | | |
| Total Depth: | 3700' | <u> </u> | | | | | | | |
| | | | | luiantinu tu | 4 | | | | |
| | | | 4 | Injection In | tervai | | | | |
| 3468' | feet to | 3653' | | | (Indicate whethe | er Open Hole | e or perforated) | perforated | |
| | | | | | | | | | |
| | r 1 | | Pro | posed Tubi | ng Detail | | | | |
| Tubing Size: | 2-3/8" -5 | 5 | | | | | | | |
| Lining Material: | Internal P | lastic Coate | d (IPC) | | | | | | |
| Type of Packer: | Baker "Lo | k-Set" | | | | | | | |
| Packer Setting Depth: | ± 3350' | | • • • • | | | | | | |
| Other Type of Tubing |)/Casing Se | eal (if applica | able): | <u> </u> | | | | | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | | • | | | No | | | | |
| If no, for what purpos | | | y drilled' | | Oil and ga | | | | |
| 2. Name of the Inject | | | | | Rivers-Queen- | | | · · · · · · · · · · · · · · · · · · · | |
| 3. 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. | | | | | | | | | |
| | | | | | | | <u> </u> | | |
| 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 | l | | | | | | | | |
| Perfs: | | See attach | ed diag | ram | | | | | |

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Acid, Shot, Fracture, Squeeze:

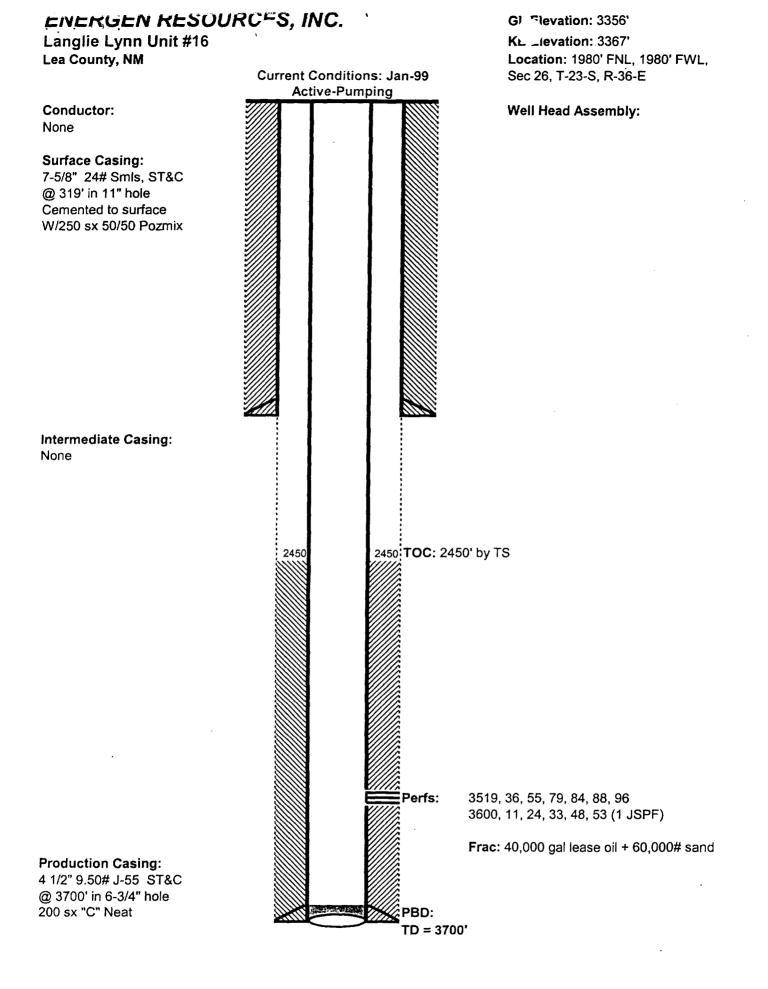
| | | | C | ~ | | | | |
|------------------|------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------|--|--|--|--|
| . 1 | Submit 3 Copies to Appropriate District Office | State of New M Energy, Minerals and Natural | (| Form C-103 Revised 1-1-89 | | | | |
| | DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATI P.O. Box 20 | 088 | WELL API NO. 30-025-21229 | | | | |
| | DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New Mexico | o 87504-2088 | 5. Indicate Type of Lease STATE X FEE | | | | |
| | DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | | | 6. State Oil & Gas Lease No. 23267 | | | | |
| ĺ | | CES AND REPORTS ON WE | | | | | | |
| | | POSALS TO DRILL OR TO DEEPE VOIR. USE "APPLICATION FOR P 101) FOR SUCH PROPOSALS.) | N OR PLUG BACK TO A | 7. Lease Name or Unit Agreement Name | | | | |
| $\left \right $ | 1. Type of Well: | IUI) FOR SUCH PROPOSALS.) | | Langlie Lynn Queen Unit | | | | |
| | | OTHER CON | vert to WIW | | | | | |
| ł | 2. Name of Operator | | | 8. Well No. | | | | |
| | Energen Resources Corp | oration | | 16 | | | | |
| T | 3. Address of Operator | | · · · · · · · · · · · · · · · · · · · | 9. Pool name or Wildcat | | | | |
| L | 3300 N. A St, Bldg 4, | Ste 100, Midland, TX | 79705 | anglie Mattix 7 RVRS/Queen/GB | | | | |
| | 4. Well Location Unit Letter :198 | 0_ Feet From TheNorth | Line and1980 | Feet From The West Lize | | | | |
| | Section 26 | | | NMPM Lea County | | | | |
| | | 10. Elevation (Show whether | r DF, RKB, RT, GR, etc.) | | | | | |
| | 11. Check A | ppropriate Box to Indicate | Nature of Notice, Re | eport, or Other Data | | | | |
| | NOTICE OF INT | | SUB | SEQUENT REPORT OF: | | | | |
| Ρ | | | REMEDIAL WORK | | | | | |
| Т | | CHANGE PLANS | COMMENCE DRILLING | | | | | |
| Ρ | ULL OR ALTER CASING | | CASING TEST AND CE | | | | | |
| 0 | THER: Convert to WIW | [] | 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.

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MIRU WSU, pull all production equipment. TIH w/ RBP to 3,500', presure 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 signature | aion above is true and complete to the best of my Mensued | knowledge and belief. | Tech. | DATE |
|-------------------------------------------------|--------------------------------------------------------------|-----------------------|-------|---------------------------|
| TYPE OR PRINT NAME | Denise Menoud | | | TELEPHONE NO. 915-687-200 |
| (This space for State Use) | | | | |
| APPROVED BY | | TITLE | | DATE |
| CONDITIONS OF APPROVAL, IF / | NY: | | | |



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LANGLIE-LYNN #16

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

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JECTION WELL DATA SHEET

| OPERATOR: | | Energen R | esources | ; | | | | <u></u> | |
|--------------------------------------|------------------|----------------|---------------|------------------|-------------------|--------------|---------------------------------------|--------------|----------|
| WELL NAME & NUM | BER: | Langlie Ly | nn Queer | n Unit #18 | <u></u> | | | | · |
| WELL LOCATION: | 1980' FSL | , 660' FWL | | | <u> </u> | 26 | T-23-S | R-36-E | Lea |
| | (Footage Locatio | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | <u>WELL (</u> | CONSTRU | ICTION DATA | | | | |
| | | | : | <u>Surface (</u> | Casing | | | | |
| Hole Size: | 9-7/8" | | - | | | | | | |
| Casing Size: | 7-5/8" | | | | | | <i>4</i> 0 | | |
| Cemented with: | 98 Surface | | sacks | (or) | | | _ft3 | | |
| Top of Cement: Method Determined: | Visual | | | | | | | | |
| Method Determined. | VISUAI | | - | | | | | | |
| | | | Pi | roduction | Casing | | | | |
| Hole Size: | 6-3/4" | | نىپ ن | | | | | | |
| Casing Size: | 4-1/2" | | - | | | | | | |
| Cemented with: | 100 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | 2400' | | - | | | | - | | |
| Method Determined: | TS | | _ | | | | | | |
| Total Depth: | 3710' | | - | | | | | | |
| | | | , | njection | Interval | | | | |
| | | | <u>1</u> | injeotion i | <u>intervu</u> | | | | |
| 3540' | feet to | 3681' | | | (Indicate whethe | er Open Hole | e or perforated) | perforated | |
| | | | | | | | | | |
| • | _ | | Prop | oosed Tu | bing Detail | | | | |
| Tubing Size: | 2-3/8" J-5 | 5 | | | <u></u> | | | | |
| Lining Material: | Internal P | lastic Coate | ed (IPC) | | | | | | |
| Type of Packer: | Baker "Lo | ok-Set" | | | | | | | |
| Packer Setting Depth: | ± 3350' | | - | | | | | | |
| Other Type of Tubing | g/Casing Se | eal (if applic | able): | ··· | | | | | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for ir | njection? | | | No | | | | |
| If no, for what purpos | | • | ly drilled? | ? | Oil and ga | s | · · · · · · · · · · · · · · · · · · · | | |
| 2. Name of the Inject | tion Forma | tion: | | Seven | Rivers-Queen- | Grayburg | | | |
| 3. Name of Field or l | Pool (if app | licable): | | Langli | e Mattix Seven | Rivers-Qu | een-Graybu | rg | |
| 4. Has the well ever | been perfo | rated in any | other zo | ne(s)? Li | st all such perfo | orated inter | rvals and oiv | e plugging | detail. |
| I.e. sacks of cement | • | • | No | | | | - | | |
| | | | | | | | | · | |
| 5. Give the name an | d depths o | f any oil or g | jas zones | s underlyir | ng or overlying t | he propos | ed injection | zone in this | area: |
| Jaimat Yates Gas Zo | one, Top @ | approx. 30 | 40' | | | | <u> </u> | | |
| | | | | ······ | | | | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | | See attac | hed diag | ram | | | | | |

Acid, Shot, Fracture, Squeeze:

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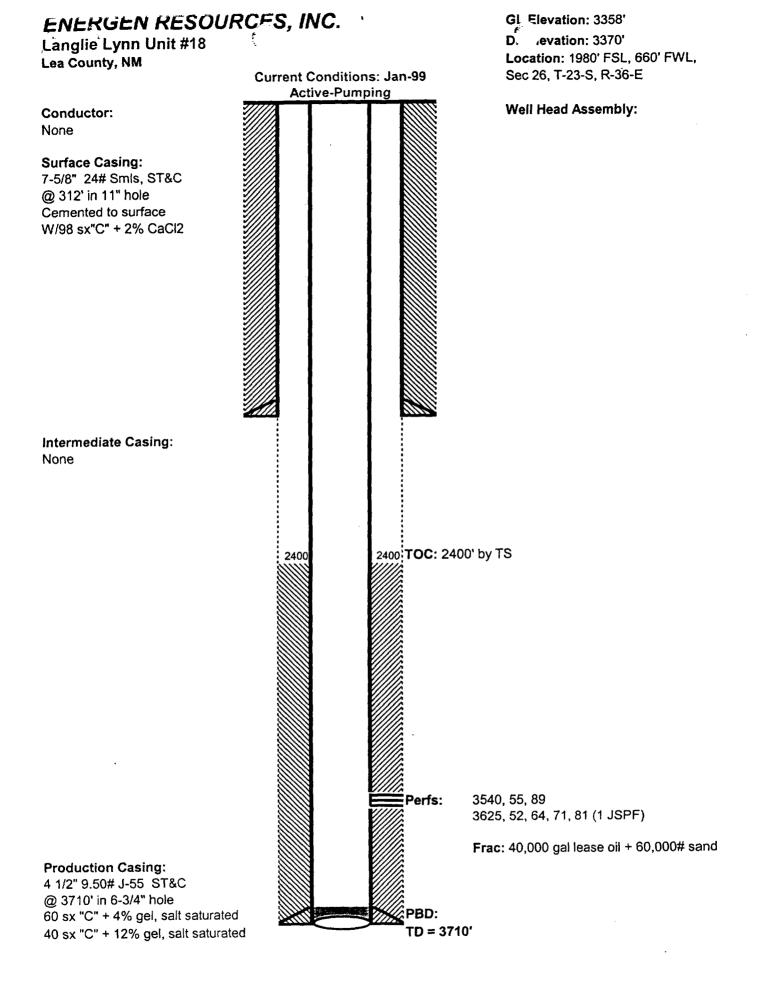
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|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| to Appropriate District Office | Energy Minerals and Natural Resources Departme | ant Revised 1-1-89 |
| DÍSTRICTI | OIL CONSERVATION DIVISION | N |
| P.O. Box 1980, Hobbs, NM 88240 | 2040 Pacheco St. | TELL API NU. |
| DISTRICT I | Santa Fe, NM 87505 | |
| P.O. Drawer DD, Artesia, NM 88210 | | 5. Indicate Type of Lease |
| DISTRICT III 1000 Rio Brizos Rd Aziec NM 87410 | •• | |
| | · · · · · · · · · · · · · · · · · · · | 23267 |
| SUNDRY NOT | ICES AND REPORTS ON WELLS | |
| | | A 7. Lease Name or Unit Agreement Name |
| | | |
| 1. Type of Well: | | Langlie Lynn Queen Unit |
| | oner Convert to WIW | |
| 2. Name of Operator | | 8. Well No. |
| | rporation | 18 |
| 3. Address of Operator | | 9. Pool name or Wildcat |
| | III OIL CONSERVATION DIVISION 2040 Pacheco St. 30-025-21458 IIII Santa Fe, NM 87505 IIII Santa Fe, NM 87505 Sinacos Rd, Azaco, NM 87410 State Fe, NM 87505 SUNDRY NOTICES AND REPORTS ON WELLS State Col & Gat Lesse No. DIFFERENT RESERVOR. USE 'APPLICATION FOR PERMIT' (FORM C-101) FOR SUCH PROPOSALS.) Of Well: OTHER Convert to WIW IIII OTHER Convert to WIW IIIII OTHER Convert to WIW IIIII OTHER Convert to WIW IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | |
| 4. Well Location | | |
| Unit Letter : | 0 Feet From The Line and | 560 Feet From The West Lin |
| | - 235 - 36E | ter ter |
| | Towning Runge | County |
| | | |
| II. Check | Appropriate Box to Indicate Nature of Notice | e. Report. or Other Data |
| | •• • | |
| | | |
| | | |
| | | |
| PULL OR ALTER CASING | CASING TEST AN | |
| OTHER:Convert to WIW | OTHER: | [|
| | 1 | |

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 inf | ormation above is true and complete to the best of my kno | windge and belief. | |
|-------------------------------|-----------------------------------------------------------|--------------------|---------------------------|
| SIONATURE | S. Menoud | Prod. Tech. | DATE3/13/2000 |
| TYPE OR PRINT NAME | Denise Menoud | | TELEPHONE NO. 915-687-207 |
| (This space for State Use) | | | |
| APPROVED BY | | mu | DATE |
| CONDITIONS OF APPROVAL | C P ANY: | | |



| | · · · · · · · · · · · · · · · · · · · | · · · · · · · · · · · · · · · · · · · | · ~ | | E CONTRACTOR COMPANY |
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MILES



LANGLIE-LYNN #18

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

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LANGLIE-LYNN #18 LANGLIE-LYNN UNIT

LANGLIE-MATTIX FIELD T23S – R36E Lea County, New Mexico HALF MILE RADIUS

| | Notes | | | | | | | | | Drill ac injector | | | Nehrace + In hinned | | Convert to injector | | | | | | | | | | | ` | Continue injection | | Return to injection | | | Retrim to injection | | | | | | | | | Return to injection | | | Convert to injector | Replace #17 producer | | Convert to injector | Convert to producer | ı | Replace #19 producer | | Convert to injector | | Convert to producer | | |
|-------------------------------------------------------|--------------------------|----------------------|----------------------|------------------------|------------------------|--------------------------|----------------------------|----------------------------|-------------------------------|----------------------|-----------------------------------------------|-----------------------------|-----------------------------|----------------------------|---------------------|-----------------------|-----------------------|----------------------|--------------------|-------------------|----------------------|--------------------|-----------------------|-----------------------|---------------------|---------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------------|----------------------------|----------------------------|---------------------------------|-----------------------|---------------------------------|-------------------|--------------|-------------|--------------|-----------------------------|-----------------------------|----------------------------------------------------|-----------------------------|----------------------------|---------------------|----------------------|---------------------------|----------------------------------------------------|-------------------------------|----------------------------|---------------------------------------------------|--------------------|-----------------------------|-----------------------------------|------------------------------------|
| | 1 | | | | | | | 0 0 | 310 W. Wall. Midland TX 79701 | | 0 Six Desta Drive Suite 3000 Midland TY 70705 | | | | | . E | | j (| , i | | 0.0 | Р.О. | Q. Q. | <u>о</u> | Р. О | P.O. | | 0 | 0 | 3 | 0 P.O. Box 1710. Hobbs NM 88240 | | 2 | 3 P.O. Box 1710, Hobbs NM 88240 | I. | 1 P.O. Box 1710. Hohbs NM 88240 | | Ł | | - | · | • | 9 10 Desta Drive Suite 100W, Midland TX 79705-4500 | • | | 4 | 5 | • | 9 10 Desta Drive Suite 100W, Midland TX 79705-4500 | | | 0 10 Deeta Drive Suite 100W Midland TV 20206 1500 | | | | 6 P.O. Box 10139, Midland TX 79702 |
| Data Oritod | | S/ALVCN/JN | 10/27/1960 | 07/22/1960 | 12/24/1959 | 06/15/1950 | 02/29/1960 | 09/07/1960 | | Drilling | 10/11/1930 | Drilling | 06/12/1963 | 00/12/1003 | 201121/20 | 1001/21/20 | 081 (00/71 | RCR1/77/11 | RCR1/07/00 | RCRI/CI/II | 03/20/1949 | 03/07/1960 | 02/01/1949 | 06/28/1964 | 08/12/1949 | 02/01/1962 | 11/17/1960 | 11/03/1960 | 10/10/1960 | 01/30/1963 | 03/24/1990 | 11/25/1962 | 12/21/1962 | 12/30/1963 | 07/26/1964 | 05/08/1981 | 01/16/1985 | 05/28/1996 | 03/31/1948 | 09/25/1974 | 08/11/1963 | 04/23/1963 | 04/03/1949 | 06/10/1963 | Го Г | 11/16/1964 | 10/06/1965 | 03/06/1965 | 01/31/1929 | LOC. | 2001/01/20 | 05/01/1940 | 05/09/1948 | 07/16/1963 | 03/29/1949 | 02/27/1986 |
| Ecote | | | 1980' FNL, 1980' FWL | 1980' FNL, 1980' FEL | 2310' FNL, 330' FEL | 1980' FNL, 660' FEL | 1980' FSL, 660' FEL | · · | | 1863' FSL, 1950' FEL | 330' FSL, 2310' FWL | 672' FSL. 1797' FEL | 640' FSL, 1650' FEL | 660' ESI 330' EEI | RAN' FOL BRN' FEL | 660' ENI 2240' EEI | 200 1111, 2010 FEL | SEDIENI TERI TERI | 1000 FINL, /00 FVL | | 10201 FNL, 10501 FWL | 1960 FNL, 2310 FEL | 1650' FNL, 1650' FEL | 2080' FNL, 660' FEL | 1650' FSL, 990' FEL | 1980' FSL, 660' FEL | 1980' FSL, 1980' FEL | 1650' FSL, 2310' FWL | 1980' FSL, 660' FWL | | | 660' FSL, 1980' FWL | 660' FSL, 1980' FEL | - | | - | | | | | | | | - | • | 1980' FNL, 660' FWL | 1980' FNL, 1980' FWL | 1980' FNL, 1980' FEL | 2310' FSL, 2310' FEL | 1032 FSL, 1980 FWL | 1000 FOL, 1300 FVVL | 990' FSL, 990' FWI | 990' FNL, 990' FEL | 660' FNL, 660' FEL | 1650' FSL, 990' FEL | 660' FSL, 660' FEL |
| Rande | 1200 | | | | R36E | R36E | R36E | R36E | R36E | R36E | R36E | R36E | R36E | R36F | RAFE | | | | | | | | | | | | | R36E | R36E | R36E | R36E | R36E | R36E | | | | 1 | R36E | | | | | | R36E | K36E | R36E | R36E | R36E | | 1027 | | R36E | R36E | R36E | R36E | K36E |
| Two | 1220 | 0001 | 1235 | 1235 | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | 7235 | 1230 | 1000 | 1000 | 1220 | 1000 | 0001 | 1235 | 1235 | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | T23S | 1235 | SEZ I | T23S | 1235 | 1235 | 1220 | 1220 | 1230 | T23S | T23S | T23S | T23S | 1235 |
| ew) LOCATION. Letter Sec. | ŝ | 38 | 3 | 27 | 52 | 3 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 5 | 2 | 15 | 3 5 | 3 8 | 3 8 | 3 5 | 38 | 33 | S) (| 23 | 23 | 23 | 33 | 23 | 23 | 23 | 23 | 23 | 23 | 24 | 25 | 25 | 26 | 26 | 26 | 28 | 28 | 28 | 82 | 8 | 28 | 8 | 88 | 8 | 5 8 | 24 | 8 | 27 | 27 | 25 | 7 |
| iew) LOC Lette | | (I | L (| و | Ξ. | I | | <u> </u> | | - - | z | 0 | 0 | ۵. | <u>a</u> | μ Γ | - C |) C | <u>ы</u> | . u | L (| | : פ | E • | | | - | × | | Σ | Σ | z | 0 | ٩ | - | | ш | ¥ I | < | ۷ | 8 | 0 | | י ב | <u> </u> | י גו | r (| - و | <u>ל</u> כ | | | ž | ∢ | < - | - 0 | <u> </u> |
| .S (1/2 Mile Area of Review) Lot Leterse & WELL | New Mexico "AA" State #8 | | | New Mexico AA State #5 | New Mexico AA State #3 | New Mexico "AA" State #1 | Langlie Lynn Queen Unit #2 | Langlie Lynn Queen Unit #1 | El Paso State #1 | | - | Langlie Lynn Queen Unit #20 | Langlie Lynn Queen Unit #10 | Langlie Lynn Queen Unit #9 | Shell State #3 | State A A/C-1 #98 | State A A/C-1 #73 | State A A/C-1 #65 | State A A/C-1 #72 | State A A/C-1 #27 | State & A/C_1 #84 | | | | Sinclair A State #1 | Sinclair A State #5 | Langlie Lynn Queen Unit #5 | Langlie Lynn Queen Unit #4 | Langlie Lynn Queen Unit #3 | Langlie Lynn Queen Unit #8 | Sinclair A State #10 | Langlie Lynn Queen Unit #7 | Langlie Lynn Queen Unit #6 | Sinclair A State #9 | State A A/C-1 #107 | Lankford #3 | Lankford #4 | Lynn B-1 #17 | Lynn B-1 #2 | Lynn B-1 #16 | Langlie Lynn Queen Unit #14 | Langlie Lynn Queen Unit #13 | Lynn 13-1 #3 | Langlie Lynn Queen Unit #12 | Langle Lyin Queen Unit #21 | | | Langle Lyin Queen Unit#15 | Lynn B-1 #1 andia ynn Ousen hit #33 | Landie I vnn Oleen (Init #19 | Landie Lynn Queen Unit #18 | Lynn B-1 #4 | Lynn B-1 #7 | Langlie Lynn Queen Unit #11 | George Etz #4 George Etz #6 | |
| LANGLIE LYNN TABLE OF WELLS | Grace Petroleum | Dantor Descursos Inc | | | | Поуле наптап | Energen Kesources | Energen Kesources | | | | | Energen Resources | Energen Resources | Gruy Petroleum Mgmt | Raptor Resources Inc. | Raptor Resources Inc. | Raptor Resources Inc | | - | | | Partor Descurses Inc. | Auplor resources inc. | | | Energen Kesources | Energen Resources | Energen Resources | Energen Resources | Arco Permian | Energen Resources | Energen Resources | Arco Permian | Kaptor Resources Inc. | Arco Permian | Rhombus Operating | Conoco | Conoco | Conece | Energen Resources | Energen Kesources | Conoco | | | | Chargen Baselinge | Concerts Concerts | Enemen Recuirces | Conoco | | - | Conoco | Energen Resources | HCW Exploration Roca Petroleum | |
| LIE LY Type | P&A | C S C | | | |) و | | Tak T | ļ | | | | P&A | 080 | თ | 08G | 080 | 080 | OSG | Ogo | 080 | 0.00 | | 200 | ט פינ | ງ | Ē | 980 . 0 | | 9 2 2 2 0 | ບີ | Ē | 5 2 2 2 2 | A P | 2 | P&A | 080 | ט פ | 5 | ٥. | , E | າ ກິດ | ງ ເ | | | | | <u>د</u> د | , <u>s</u> | P&A | 080 | 9 | ບ່ | | 1 0 1 0 1 0 1 0 | 2000 |
| LANG | 3300' | 3645 | 2775 | | 0000 | 0010 | | 2100 | | 3843 | 5095 | | 2800 | 3800' | 3426' | 3595 | ř. | '9°`` | 3587 | 3670 | 3585 | 3148' | 3660 | 0000 | 0000 | 20275 | 134 | /3/51 | 3/91 | 1118 | 3550' | 3800 | 87/6 | 00/0 | 31/6 | 3750 | 0086 3800 | 3270 | 57 | | 07/5 | 20010 | 2303 1750 | 200 | 272E | 3700 | 2675' | 3614 | | /3725 | 3710' | 3455' | 3480' | 1 3730 | 3600 | 2000 |

| OPERATOR: | | Energen R | lesource | S | | | | .= | · |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------|-------------|------------------|-------------------|-------------|----------------------------------------|---------------------------------------|----------|
| WELL NAME & NUM | BER: | Langlie Ly | nn Quee | n Unit #1 | | | | | |
| WELL LOCATION: | 1980' FSL | , 1980' FEL | • | | J | 22 | T-23-S | R-36-E | Lea |
| | (Footage Locatio | | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | | | | | | | |
| | | | WELL | CONSTRU | ICTION DATA | | | | |
| | | | | <u>Surface C</u> | asing | | | | |
| Hole Size: | 11" | | - | | | | | | |
| Casing Size: | 8-5/8" | | - | (| | | 61 0 | | |
| Cemented with: | 280 Surface | | sacks | (or) | • <u></u> | | _ft3 | | |
| Top of Cement: Method Determined: | Visual | | - | | | | | | |
| Welhou Determined. | <u>visual</u> | | - | | | | | | |
| | | | P | roduction | 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 I | nterval | | | | |
| P&A | feet to | | | | (Indicate whethe | er Open Hol | e or perforated) | 1 | |
| | | <u> </u> | | | (maiorie miori | or open nor | | | |
| | | | | Terbiner | Dedell | | | | |
| Tubing Size: | | | | <u>Tubing</u> | Detall | | | | |
| Tubing Size: Lining Material: | | | | | | | | | |
| Type of Packer: | | | | | | | | | |
| Packer Setting Depth: | | | | | | | | | |
| Other Type of Tubing | g/Casing Se | eal (if applic | able): | | | | | | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | njection? | | | No | | | | |
| If no, for what purpos | se was the | well original | lly drilled | ? | Oil and ga | s | ······································ | | |
| 2. Name of the Inject | | | | | n/a | | <u> </u> | · | |
| 3. Name of Field or | Pool (if app | licable): | <u> </u> | | Langlie Ma | attix Sever | n Rivers-Que | een-Graybu | rg |
| 4. Has the well ever | • | | y other zo | one(s)? Li | st all such perfo | prated inte | rvals and giv | e plugging | detail, |
| I.e. sacks of cement Original perfs in inter | | | ;' | | | | <u> </u> | | * |
| Originally PA'd 11-2- | | | | | | | _ <u></u> | | |
| and the second diversity of th | etainer @ 3 | 550' | | | | | | | |
| | Squeezeo | d w/ 50 sx | | | | | | | |
| | | cmt on top | | er (TOC 3 | 425') | | | | |
| and the second | x cmt @ 13 | | | | | | | | |
| | 75'. Pump | 148 sx cmt | to surfac | e. | | | | | |
| Re-entry PA'd 1-28-0 See attac | bu ched sheet f | for plugaing | details | | | | <u> </u> | <u> </u> | |
| <u></u> | · | | | | | | | | <u> </u> |
| 5. Give the name an Jalmat Yates Gas Zo | | | | s undenyir | ig or overlying i | ine propos | sed injection | zone in this | area: |
| | | | | | | | | · · · · · · · · · · · · · · · · · · · | |
| Completion Record | Į | | | | | | X | | |
| Perfs: | | See attac | hed diag | ram | | | | | |
| | | | ¥ | | | | | | ~ |

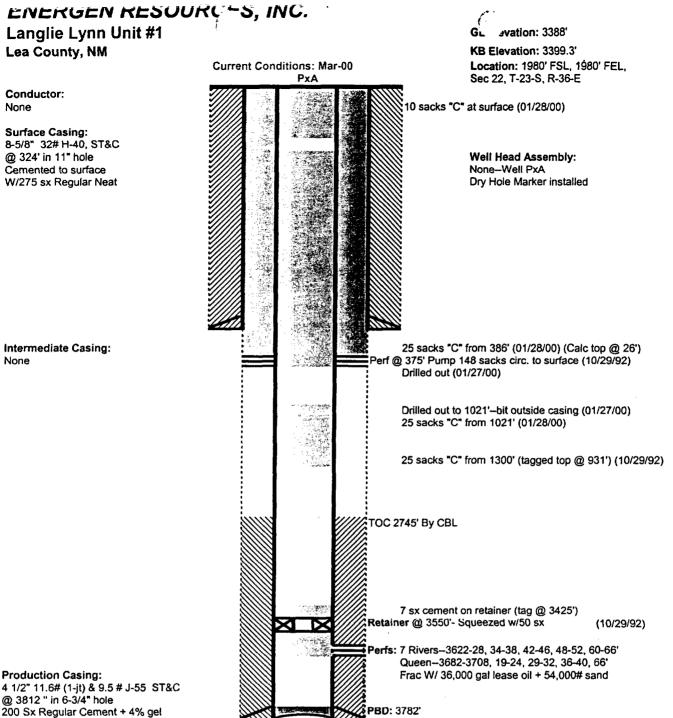
Acid, Shot, Fracture, Squeeze:

| والتواجيد المكشي | Energy Minerals and Natural Re | econos Decoment | Form C-103 |
|---------------------------------------------------|-----------------------------------------------------------------|------------------------|---------------------------------------|
| to Appropriate District Office | | Sources tychardisent i | Revised 1-1-89 |
| DISTRICT | OIL CONSERVATIO | N DIVISION | WELL API NO. |
| P.O. Box 1980, Hobbs, NM \$\$240 | 2040 Pacheco | | 30-025-09380 |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, M | M 87505 | 5. Indicate Type of Longe |
| DISTRICT III | | | STATE KX FEE |
| 1000 Rio Brazos Rd., Aztoc, NM 87410 | | | 6. State Oil & Gas Lease No. 23267 |
| | CES AND REPORTS ON WEL | | |
| (DO NOT USE THIS FORM FOR PRO DIFFERENT RESER | DPOSALS TO DRILL OR TO DEEPEN NVOR. USE "APPLICATION FOR PEI | | 7. Lease Name or Unit Agreement Name |
| (FORM C | 101) FOR SUCH PROPOSALS.) | | Langlie Lynn Queen Unit |
| 1. Type of Well: | | | |
| 2. Name of Operator | OTHER Plugge | ed | |
| Energen Resources Corp | oration | | 8. Well Na. 1 |
| 3. Address of Operator | | | 9. Pool name or Wildcat |
| 3300 N. A St, Bldg 4, | Ste 100, Midland, TX | 79705 | Langlie Mattix 7 RVS Queen |
| 4. Well Location | · | | |
| Unit Letter : 198 | 0 Feet From The South | Line and198 | 0 Feet From The East Line |
| | | 26 5 | _ |
| Section 22 | Township 23-S Re | mge 36-E | NMPM Lea County |
| | 3388' GL | | |
| 11. Check | Appropriate Box to Indicate 1 | Nature of Notice, Re | eport, or Other Data |
| NOTICE OF INT | •••• | | SEQUENT REPORT OF: |
| | | REMEDIAL WORK | |
| | CHANGE PLANS | | |
| PULL OR ALTER CASING | | CASING TEST AND CE | MENT JOB |
| OTHER: | | OTHER: | |
| | | 1 | |

12. Describe Proposed or Completed Operations (Clearly state all periment details, and give periment 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 casin 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 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 a | mowledge and belief. | |
|--------------------------------------------------------------------------------------|----------------------|----------------------------|
| SIONATURE Menacul | Production Tech. | DATE2/15/00 |
| TYTE OF FRINT NAME Denise Menoud | | TELEPHONE NO. (915) 687-20 |
| (This space for State Use) | | |
| CONDITIONS OF APPROVAL, IF ANY: | TITLE | DATE |



TD = 3812'

4 1/2" 11.6# (1-jt) & 9.5 # J-55 ST&C @ 3812 " in 6-3/4" hole

| OPERATOR: | <u></u> | Energen F | Resource | es | | | | | |
|-------------------------------------------------|------------------|----------------|------------|------------------|------------------|--------------|----------------------------------------|--------------|----------|
| WELL NAME & NUM | BER: | Langlie Ly | nn Que | en Unit #2 | | | | | |
| WELL LOCATION: | 1980' FSL | ., 660' FEL | | <u></u> | <u> </u> | 22 | T-23-S | R-36-E | Lea |
| | (Foolage Localic | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL | CONSTRU | CTION DATA | | | | |
| | | | | <u>Surface C</u> | asing | | | | |
| Hole Size: | 11" | | _ | | | | | | |
| Casing Size: | 8-5/8" @ 3 | 320' | _ | | | | | | |
| Cemented with: | 275 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | - | | | | | | |
| Method Determined: | Visual | | _ | | | | | | |
| | | | | | | | | | |
| | | | 1 | Production | <u>Casing</u> | | | | |
| 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 I | tonial | | | | |
| | | | | Injection Ir | iterval | | | | |
| 3510' | feet to | 3732' | | | (Indicate whethe | er Open Hole | or perforated) | perforated | |
| | | | | | | | | | |
| | | | | <u>Tubing D</u> | etail | | | | |
| Tubing Size: | 2-3/8" @ | | | | | | | | |
| Lining Material: | | | | | | | | | |
| Type of Packer: | None | | | | ····· | | | | |
| Packer Setting Depth: | | | | ······ | | | | | |
| Other Type of Tubing | g/Casing Se | eal (if applic | able): | | | | | | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1 le this a new wall | drillod for i | nightion? | | | No | | | | |
| 1. Is this a new well If no, for what purpos | | - | | | No Oil and ga | <u> </u> | | | |
| 2. Name of the Inject | | - | iny united | J: | n/a | 3 | ······································ | | |
| 3. Name of Field or | | | | | | attix Seven | Rivers-Que | een-Graybu | |
| | | - | | <u></u> | | | | | |
| 4. Has the well ever | | | y other z | zone(s)? Lis | | orated inter | vals and giv | ve plugging | detail, |
| I.e. sacks of cement | or plug(s) i | used. | <u></u> | | No | | | | |
| | | | <u> </u> | | | | | | |
| 5. Give the name an | | - | - | es underlyin | g or overlying t | he propos | ed injection | zone in this | area: |
| Jaimat Yates Gas Zo | one, Top @ | approx. 30 |)40' | | | | | | |
| | <u> </u> | | | | <u> </u> | | | | |
| Completion Record | 1 | | | | | | | | |
| Defe | | 0 e = -11. | والمحط | | | | | | |
| Perfs: | | See attac | mea ala | gram | | | | | |

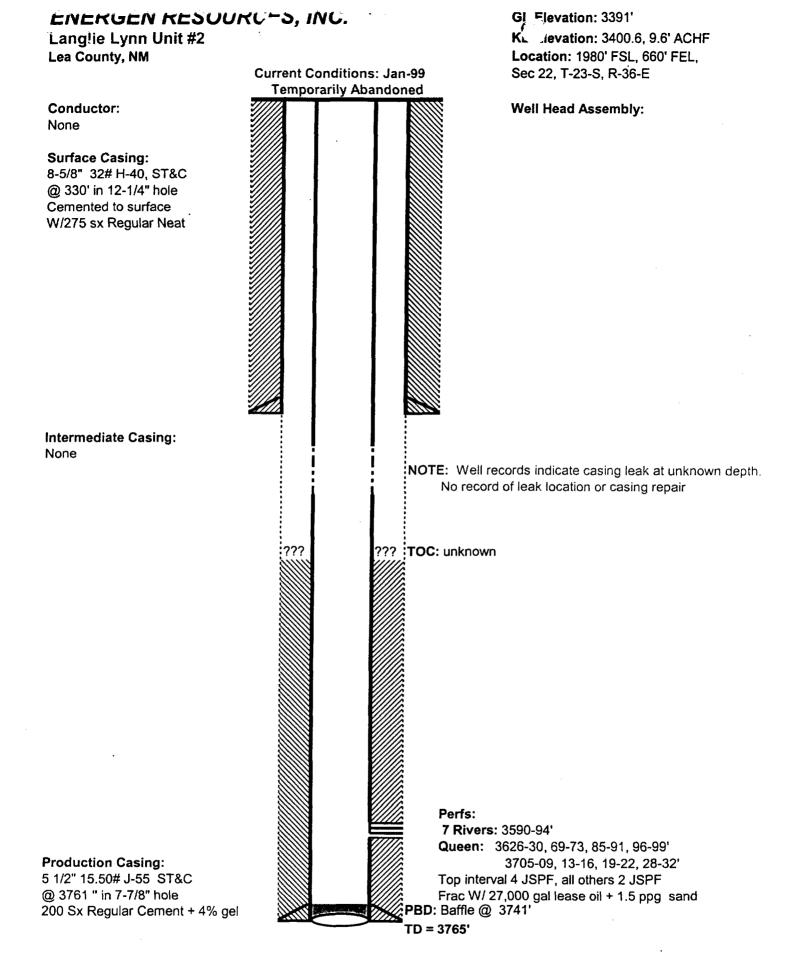
.

Acid, Shot, Fracture, Squeeze:

See attached diagram

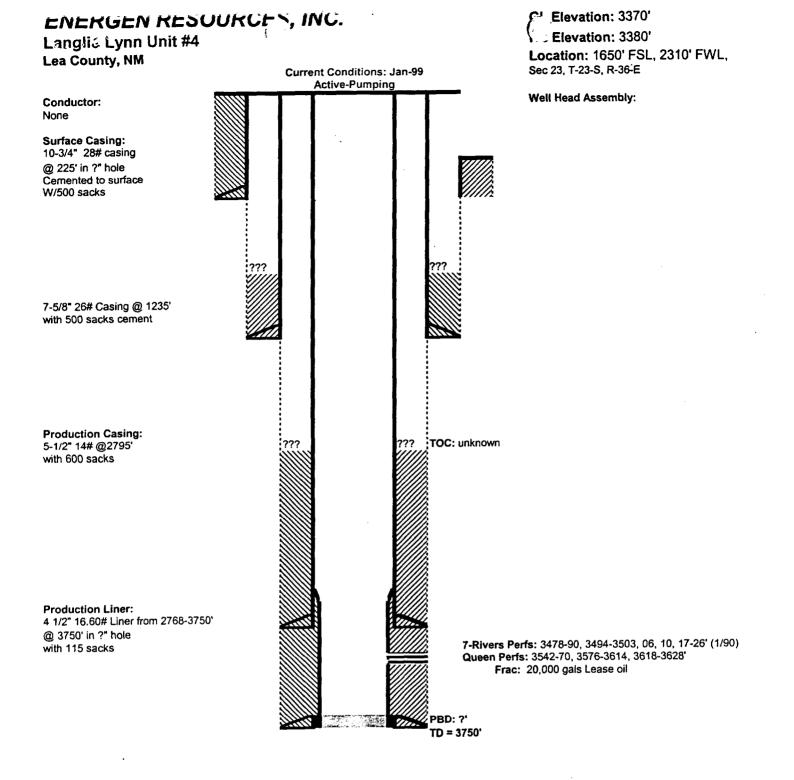
_

| District III 2040 South Facheco ST 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 ST District IV 2040 South Pacheco, Santa Fe, NM 87505 6. State 0 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease | 100. 30-025-09379 te Type of Lease ATE X FEE |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| 811 South First, Artesia, NM 8/210 2040 South Pacheco 5. Indica District III 2040 South Pacheco ST 1000 Rio Brazos Rd., Aztec, NM 87410 Santa Fe, NM 87505 ST District IV 2040 South Pacheco, Santa Fe, NM 87505 6. State C SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease | |
| District IV 2040 South Pacheco, Santa Fe, NM 87505 6. State (SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease | |
| 2040 South Pacheco, Santa Fe, NM 87505 6. State 0 SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease | |
| SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease | Dil & Gas Lease No. |
| (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 | Name or Unit Agreement Name: |
| PROPOSALS.) Langlie 1. Type of Well: Oil Well X Gas Well Other | Lynn Queen Unit |
| 2. Name of Operator 8. Well N | lo. |
| Energen Resources Corporation23. Address of Operator9. Pool n | ame or Wildcat |
| | Mattix 7 RVRS/Queen/GB |
| 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 |
| 10. Elevation (Show whether DR, RKB, RT, GR, etc.) | |
| 11. Check Appropriate Box to Indicate Nature of Notice, Report, c | or Other Data |
| NOTICE OF INTENTION TO: SUBSEQUEI | NT REPORT OF: |
| TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. | |
| PULL OR ALTER CASING CASING TEST AND COMPLETION | |
| | |
| 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinen of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore d or recompilation. | |
| 02/02/00: MIRUPU to repair csg leak between 570'-602' FS. Shot 4 sqz holes @ 2 FS. Set cmt ret @ 1,521'. sqz'd the 5 1/2" x 8 5/8" annulus in 2 stages: 400 & 175 sx Cl 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 follo 2702'(slurry-16.2 cu.ft.), 6 sx @ 1622'. & 12 sx @ 608'. D.O. cmt. tested sqz. 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 | · . |
| hereby certify that the information above is true and complete to the best of my knowledge and belief. | |
| SIGNATURE_ XI- Menous TITLE Production Tech | DATE3/15/2000 |
| Type or print name Denise Menoud | Telephone No. (915)687-2074 |
| (This space for State use) | |
| ORIGINAL SIGNED BY CHRIS WILLIAMS APPROVED BYDISTRICT I SUPERVISCHTLE Conditions of approval, if any: | DATE MAR 2 3 2000 |



| (Foodage Location) (Unit Letter) (Section) (Township) (Range) (Countly) WELL CONSTRUCTION DATA Surface Casing Hole Size: 15" Casing Size: 10-3/4" @ 750' Cemented with: 500 Sacks (or)f13 Top of Cement: Surface Method Determined: Visual Intermediate Casing Hole Size: 10" Casing Size: 7-5/8" @ 1235' Cemented with: 500 Sacks (or) | OPERATOR: | Energen R | esources | ; | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------|------------------|----------------------------------------------|----------------------------------------|----------------|-----------|
| Procession (Min Latter) Galaxy Procession Marget County WELL CONSTRUCTION DATA Surface Casing Commod with: 500 sacks (or) | WELL NAME & NUM | BER: Langlie Ly | nn Queer | Unit #4 | | | | | <u></u> |
| WELL CONSTRUCTION DATA Sufface Casing Comented with: 500 Comented with: 500 State (or) Informediate Casing Method Determined: States Mole Size: 10° Casing Size: 7-58° @ 1235 Cannented with: 500 States (or) Mole Size: 10° Casing Size: 5-344 Consentined with: 500 State: 5-412° @ 2900° Casing Size: 5-112° @ 2900° Difaction Interval Total Depth: Top of Coment: Unknown Method Determined | WELL LOCATION: | 1650' FSL, 2310' FW | L | | к | 23 | T-23-S | R-36-E | Lea |
| Surface Casing Hole Size: 10:34* @ 750'' Cemented with: 500 Sourface | | (Foolage Location) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| Surface Casing Hole Size: 10:34* @ 750'' Cemented with: 500 Sourface | | | | | | | | | |
| Hole Size: 10-344@ 7.50" Casing Size: 10-344@ 7.50" Top of Cernent: Surface Method Determined: Intermediate Casing Hole Size: 10" Casing Size: 7-568"@ 1235" Cemented with: 500 Stop of Cernent: Unknown Mote Size: 500 Top of Cernent: Unknown Mote Size: 6-344" Casing Size: 5-1/2"@ 3750" Casing Size: 5-1/2"@ 2800" Casing Size: 5-1/2"@ 3750" Casing Size: 5-1/2"@ 2800" Casing Size: 5-1/2"@ 3750" Top of Carenet: Unknown Top o | | | WELL C | ONSTRUC | CTION DATA | | | | |
| Casing Size: 10:34f @ 750 Cemented with: 500 State State Method Determined: Strate Hole Size: 10 Casing Size: 7.56f @ 1235 Camented with: 500 State State Production Casing ft3 Top of Cement: Unknown Method Determined: 115 Casing Size: 5-112 ⁻ @ 2900 ⁻ Casing Size: 5-112 ⁻ @ 2900 ⁻ Camented with: 500 Size: 5-12 ⁻ @ 3750 ⁻ Casing Size: 5-112 ⁻ @ 2900 ⁻ Camented with: 105 Size: 5-12 ⁻ @ 3750 ⁻ Camented with: 105 Size: 5-12 ⁻ @ 3750 ⁻ Casing Size: 5-12 ⁻ @ 3750 ⁻ Casing Size: 10 ⁻ Monon Tobil Depth: 3751 ⁻ OWDD Infection Interval Interval 3440 feet to 3628 (Indicate whether Open Hole or perforated) perforated Tubing Materiat: None Productional Deta 10 ⁻ </td <td></td> <td></td> <td>ź</td> <td><u>Surface Ca</u></td> <td>nsing</td> <td></td> <td></td> <td></td> <td></td> | | | ź | <u>Surface Ca</u> | nsing | | | | |
| Cemented with: 500 | | | - | | | | | | |
| Top of Cament: Surface Method Determined: Visual Hole Size: 10" Casing Size: 7:56" (2135') Camented with: 500 Sard Corrent: Unknown Method Determined: Production Casing Production Casing Production Casing Hole Size: 6:3/4" Gasing Size: 4:1(2" (2) 3750') Casing Size: 5:1/2" (2) 2900' Size: 5:1/2" (2) 2900' Comment: Unknown Method Determined: Top of Cement: Top of Cement: Unknown Method Determined: Top of Cement: Top of Cement: Unknown Method Determined: Top of Cement: Tubing Materiat: Top of Cement: Typ of Packer: None Packer Setting Dapth: | - | | | | | | | | |
| Intermediate Casing Intermediate Casing Hole Size: 10" Casing Size: 7.798" @ 1235" Cemented with: 500 sacks (or) ft3 Top of Cement: Unknown ft3 ft3 Method Determined: 413 ft3 Casing Size: 6-3/4" Hole Size: 4-3/4" Casing Size: 6-1/2" @ 2900' sacks Casing Size: 4-1/2" @ 3750' Casing Size: 6-1/2" @ 2900' sacks Casing Size: 4-3/4" Casing Size: 6-1/2" @ 2900' sacks Casing Size: 4-3/4" Top of Cement: Unknown Method Determined: Top of Cement: Unknown Method Determined: 3751' OWDD Total Depth: 3751' OWDD Intertrue Intertrue 115 sacks Method Packer: None Packer Setting Depth: Production Interval Tubing Material: Type of Packer: No Tobing Vasing Seal (If applicable): Additional Data None Packer Setting Depth: OII and gas 1. Is this a new | | A DESCRIPTION OF THE OWNER OWNE | sacks | (or) | | | _ft3 | | |
| Intermediate Casing Hole Size: 10" Casing Size: 7.58" @ 1235" Cemented with: 500 sacks (or) Top of Cement: Unknown Method Determined: — Hole Size: 6-3/4" Hole Size: 6-3/4" Hole Size: 6-3/4" Casing Size: 5-1/2" @ 2500" Top of Cement: Unknown Method Determined: Total Depth: Total Depth: 3751' OWDD Infection Interval Indicate whether Open Hole or perforated State: 2-3/8" Uning Materia: Type of Packer: None Indicate whether Open Hole or perforated) Packer Setting Depth: Oll and gas Other Type of Tubing/Casing Seal (if applicable): Iangle Mattix Seven Rivers-Queen-Grayburg 1. Is this a new well drilled for injection? No | • | | - | | | | | | |
| Hole Size: 10" Casing Size: 1.5/8" @ 1235' Commented with: 500 Size: 5.3/4" Hole Size: 6.3/4" Casing Size: 1.1/2" @ 3750' Casended with: 600 Size: 5.3/4" Hole Size: 6.3/4" Casing Size: 1.1/2" @ 3750' Casing Size: 5.1/2" @ 3750' Casented with: 600 Size: 5.3/4" Hole Size: 5.3/4" Casing Size: 5.3/4" Total Depth: 3751' OWDD Size: 5.3/8" Unknown Method Determined: Tubing Detail 1. Inigetion Interval 10* Size: 2.3/8" (Indicate whether Open Hole or perforated Tubing Material: Trotal Depth: Type of Packer: None Packer Seting Depth: Commotion: | Method Determined: | Visual | - | | | | | | |
| Hole Size: 10" Casing Size: 1.5/8" @ 1235' Commented with: 500 Size: 5.3/4" Hole Size: 6.3/4" Hole Size: 6.3/4" Casing Size: 5.1/2" @ 3750' Casing Size: 5.3/4" Hole Size: 115 Size: 5.3/4" Hole Determined: Unknown Method Determined: Top of Cement: Unknown Method Determined: Total Depth: 3751' OWDD Injection Interval Injection Interval Ster: None Packer Setting Depth: | | | | | | | | | |
| Casing Size: 7.5/8* @ 1235' Cemented with: 500 sacks (or) [13 Production Casing Method Determined: [15 Froduction Casing [12] Hole Size: 6-3/4* Hole Size: 4-3/4* Casing Size: 5-1/2* @ 2900' Casing Size: 4-1/2* @ 3750' Cemented with: 115 sacks Cemented Sacks Cemented Tubing Casing Sack (If applicable): Cemented Cemented Cement Cemented Cement | | 4.01 | <u>Int</u> | <u>ermediate</u> | Casing | | | | |
| Cemented with: 500 sacks (or) ft3 Top of Cement: Unknown ft3 Method Determined: | | | - | | | | | | |
| Top of Cement: Unknown Method Determined: | Casing Size: | | - | | | | _ | | |
| Method Determined: Production Casing Production Liner Hole Size: 6-3/4" Hole Size: 4-3/4" Casing Size: 5-1/2" @ 2900' Casing Size: 4-1/2" @ 3750' Cemented with: 115 sacks Cemented with: 115 Top of Cement: Unknown 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 Type of Packer: None Packer Setting Depth: Oil and gas 2. 3/8" Saing Seal (if applicable): Additional Data 1. Is this a new well drilled for injection? No 1. Is this a new well drilled for injection? No 1. Is this a new 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. Giv | Cemented with: | 500 | sacks | (or) | | | _ft3 | | |
| Production Casing Production Liner Hole Size: 6-3/4" Hole Size: 4-3/4" Casing Size: 5-1/2" @ 2900' Casing Size: 4-3/4" Casing Size: 6-1/2" @ 3750' Casing Size: 4-3/4" Casing Size: 6-1/2" @ 3750' Casing Size: 4-3/4" Casing Size: 6-1/2" @ 3750' Sacks Cemented with: 115 sacks Top of Cement: Unknown Method Determined: Total Depth: 3751' OWDD Interval 3440' feet to 3628' (Indicate whether Open Hole or perforated) perforated Interval Tubing Size: 2-3/8" Indicate whether Open Hole or perforated) perforated Interval Tubing Size: 2-3/8" Indicate whether Open Hole or perforated) perforated Interval Tubing Material: Type of Packer: None None None Interval Additional Data Interval Oil and gas Interval Interval Interval Additional Data In originally drilled? Oil and gas Interval Indig Matirix Seven Rivers-Queen-Grayburg In stike a new well drilled for injection? No | Top of Cement: | Unknown | - | | | | | | |
| Hole Size: 6-3/4" Hole Size: 4-3/4" Casing Size: 5-1/2" @ 2900' casing Size: 4-3/4" Cemented with: 600 sacks Cemented with: 115 sacks Top of Cement: Unknown Top of Cement: Unknown sacks Cemented with: 115 sacks Method Determined: Top of Cement: Unknown Method Determined: method Determined: method 3440' feet to 3628' (Indicate whether Open Hole or perforated) perforated Tubing Detail 754 'Pop OF Acker: None Packer Setting Depth: 754' 'Pop OF Acker: Type of Packer: None Packer Setting Depth: Other Type of Tubing/Casing Seal (if applicable): Method gas Additional Data 1. Is this a new well drilled for injection? No No No 1. Is this a new well drilled for injection? No I. Langlie Mattix Seven Rivers-Queen-Grayburg A. Has the well even 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. | Method Determined: | | - | | | | | | |
| Hole Size: 6-3/4" Hole Size: 4-3/4" Casing Size: 5-1/2" @ 2900' casing Size: 4-3/4" Cemented with: 1102" @ 3750' sacks Top of Cement: Unknown Top of Cement: Unknown Method Determined: | | | | | | | | | |
| Casing Size: 5-1/2" @ 2900" Casing Size: 4-1/2" @ 3750" Cemented with: 600 sacks Cemented with: 115 sacks Top of Cement: Unknown Method Determined: Unknown sacks Top of Cement: Unknown Method Determined: | <u>P</u> | | | | | <u>Pro</u> | | <u>ier</u> | |
| Cemented with: 600 sacks Cemented with: 115 sacks Top of Cement: Unknown Method Determined: Iniection Interval Method Determined: 3751' OWDD Iniection Interval Sacks Gement: Unknown Method Determined: Total Depth: 3751' OWDD Iniection Interval Sacks OWDD Iniection Interval Sacks Gemented with: 115 Sacks Total Depth: Gene to a Sacks Iniection Interval Iniection Interval Tubing Detail Tubing Material: Tubing Material: Type of Packer: None Packer Setting Depth: Oli and gas 1. Is this a new well drilled for injection? No Name of Field or Pool (if applicable): Langli | Hole Size: | 6-3/4" | - | | Hole Size: | | 4-3/4" | | _ |
| Top of Cement: Unknown Method Determined: Top of Cement: Unknown Method Determined: Total Depth: 3751' OWDD Injection Interval Method Determined: 3440' feet to 3628' Injection Interval Total Depth: 3751' OWDD Injection Interval Total Depth: 3751' OWDD Injection Interval Injection Interval Tubing Detail Tubing Detail Tubing Detail Type of Packer: None Packer: None Packer: None Packer: None Other Type of Tubing/Casing Seal (if applicable): Other Type of Tubing/Casing Seal (if applicable): No Interval No In no, for what purpose was the well originally drilled? Oil and gas No Interval Langlie Mat | Casing Size: | 5-1/2" @ 2900' | _ | | Casing Size | e: | 4-1/2" @ 3 | 3750' | _ |
| Method Determined: | Cemented with: | 600 | sacks | | Cemented | with: | 115 | | sacks |
| Method Determined: | Top of Cement: | Unknown | - | | Top of Cen | nent: | Unknown | | - |
| Total Depth: 3751' OWDD Injection Interval 3440' feet to 3628' (Indicate whether Open Hole or perforated) Tubing Detail Tubing Detail Type of Packer: None Packer Setting Depth: Other Type of Tubing/Casing Seal (if applicable): Additional Data No 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): Langlile 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, l.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 | • | | - | | Method De | termined: | | | - |
| 3440' feet to 3628' (Indicate whether Open Hole or perforated) perforated Indiaga Detail Tubing Size: 2-3/8" Lining Material: Type of Packer: None Packer Setting Depth: Packer Setting Depth: Other Type of Tubing/Casing Seal (if applicable): Addtitional Data No 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, l.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: Jaimat Yates Gas Zone, Top @ approx. 3040' Completion Record Perfs: See attached diagram | | | - | | Total Depth | า: | 3751' OW | DD | - |
| 3440' feet to 3628' (Indicate whether Open Hole or perforated) perforated Indiaga Detail Tubing Size: 2-3/8" Lining Material: Type of Packer: None Packer Setting Depth: Packer Setting Depth: Other Type of Tubing/Casing Seal (if applicable): Addtitional Data No 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, l.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: Jaimat Yates Gas Zone, Top @ approx. 3040' Completion Record Perfs: See attached diagram | | | 1 | njection In | iterval | | | | |
| Tubing Detail Tubing Size: 2-3/8" Lining Material: | 2440 | fact to 2628 | - | | | a | | n o sto solo o | |
| Tubing Size: 2-3/8" Lining Material: | 3440 | | <u> </u> | | (Indicate whethe | er Open Hole | e or perforated | periorated |] |
| Tubing Size: 2-3/8" Lining Material: | | | | Tubina D | otail | | | | |
| Lining Material: | Tubing Size | 2-3/8" | | | etan | | | | |
| Type of Packer: None Packer Setting Depth: | - | | - | | | | | | |
| Packer Setting Depth: | v | None | | | | | | | |
| Other Type of Tubing/Casing Seal (if applicable): Addtitional 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, 1.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 | | | | ······································ | | | | | |
| 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 | | g/Casing Seal (if applic | able): | | | | | | |
| 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 | | | | | | | | | ····· |
| 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 | Addtitional Data | | | | | | | | |
| 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 | | | | | | | | | |
| 2. Name of the Injection Formation: | | = | | | | | | | |
| 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 | | | lly drilled? | ′ <u> </u> | | 5 | | | ····· |
| 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' <u>Completion Record</u> Perfs: See attached diagram | = | | | | | | ······································ | | |
| 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 | 3. Name of Field or | Pool (if applicable): | | | Langlie Ma | attix Sever | n Rivers-Qu | een-Graybu | urg |
| Jalmat Yates Gas Zone, Top @ approx. 3040' Completion Record Perfs: See attached diagram | | | y other zo | one(s)? Lis | t all such perfo | orated inte | rvals and gi | ve plugging | ı detail, |
| Jalmat Yates Gas Zone, Top @ approx. 3040' Completion Record Perfs: See attached diagram | <u></u> | | | | ····· | | | | |
| Completion Record Perfs: | | • | - | s underlying | g or overlying t | he propos | ed injection | zone in thi | s area: |
| Perfs: See attached diagram | Jaimat rates Gas Z | опе, тор @ арргох. 30 | 140 | <u> </u> | <u></u> | <u> </u> | | <u> </u> | |
| | Completion Record | <u>d</u> | · | <u></u> | | <u>. </u> | | | |
| | Perfs [.] | See atta | hed diac | ram | | | | | |
| | | والمجيد والمنابعة والأخار والمراخذ والمراجع والمراجع والمراجع والمراجع | | - 499 - 1 | | | | | |

| Submit 3 Copies 10 Appropriate District State of New Mexico Office En , Minerals and Natural Resources | Form C-103 Revised March 25, 1999 | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--|--|--|--|
| 1625 N. French Dr., Hobbs, NM 87240 District II OIL CONSERVATION DIVISION | WELL API NO. 30-025-09387 | | | | |
| District III 2040 South Pacheco | 5. Indicate Type of Lease | | | | |
| 1000 Rio Brazos Rd., Aztec, NM 87410 District IV District IV | 6. State Oil & Gas Lease No. | | | | |
| 2040 South Pacheco, Santa Fe, NM 87505 | 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 X Gas Well Other | Langrie Lynn queen onre | | | | |
| 2. Name of Operator | 8. Well No. | | | | |
| Energen Resources Corporation | 4 | | | | |
| 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>K</u> : 1650 feet from the <u>South</u> 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: SUB | SEQUENT REPORT OF: | | | | |
| | | | | | |
| PULL OR ALTER CASING IN MULTIPLE CASING TEST AND COMPLETION | | | | | |
| | | | | | |
| 12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and gi of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach or recompilation. | | | | | |
| 02/22-23/00: MIRUPU, pulled production equipment. Cleaned out fill bail any deeper). | to new PBTD of 3.685', (could not | | | | |
| 02/24/00: Re-perforated the 7 RVRS/ Queen @ 3.440'-78'. (total of 15 & 3.542'-3.628'. Acidized perfs w/ 3M gals 15% HCL acid. | 2 holes). Old perfs @ 3,440'-3.526' | | | | |
| 02/29/00: RIH w/ rods & 2 3/8" tubing. Tubing landed @ 3,660'. RDP | J & RWTP. | | | | |
| 03/05/00; Retest: 3 BO/ 27 BW. | | | | | |
| | | | | | |
| | | | | | |
| [hereby certify that the information above is true and complete to the best of my knowledge and belief | | | | | |
| | | | | | |
| SIGNATURE Denie Mensue TITLE Production Tech. | DATE03/21/00 | | | | |
| Type or print name Denise Menoud | Telephone No. (915)687-2074 | | | | |
| (This space for State use) URIGINAL SIGNED BY CHRIS WELLAMS DISTRICT & SUPERVISOR | MAR 2 4 2000 | | | | |
| APPROVED BYTITLETITLE | DATE | | | | |



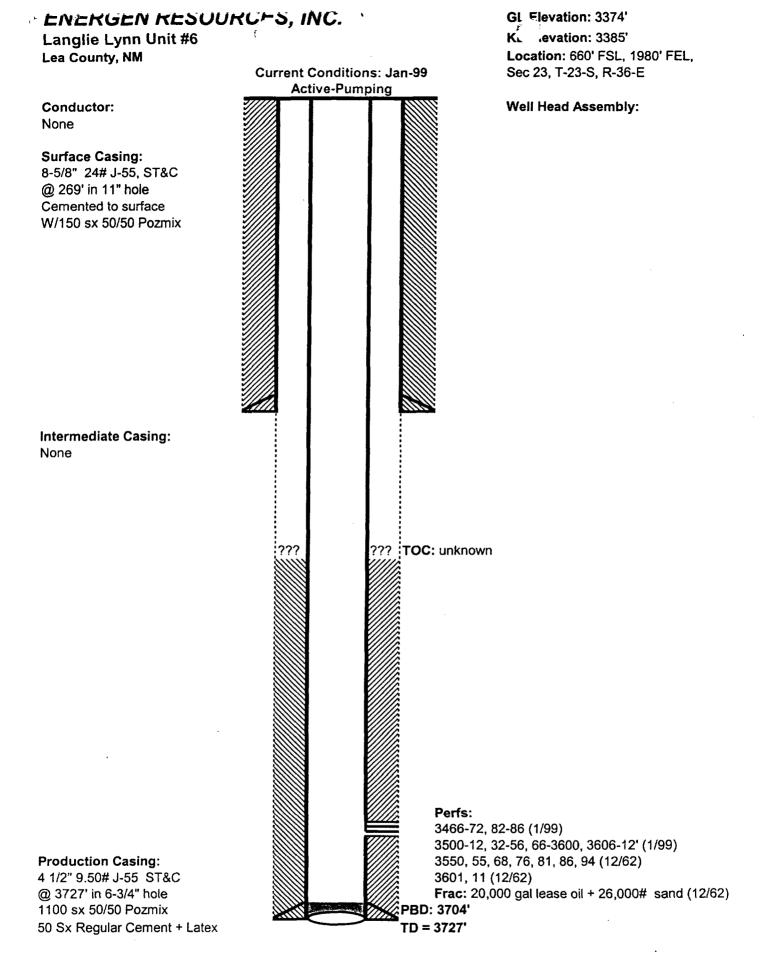
| OPERATOR: | | Energen R | esource | <u>s</u> | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------|------------|------------------|------------------|--------------|------------------|-------------|----------|
| WELL NAME & NUM | BER: | Langlie Ly | nn Quee | n Unit #6 | | | | | |
| WELL LOCATION: | 660' FSL, | 1980' FEL | | | 0 | 23 | T-23-S | R-36-E | Lea |
| | (Foolage Localio | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL | CONSTRUC | TION DATA | | | | |
| | | | | Surface Cas | sing | | | | |
| Hole Size: | 11" | | | | | | | | |
| Casing Size: | 8-5/8" | <u></u> | - | 1 2 | | | • | | |
| Cemented with: | 150 | | sacks | (or) | | <u> </u> | _ft3 | | |
| Top of Cement: Method Determined: | Surface Visual | | - , | | | | | | |
| Method Determined. | VISUAI | <u> </u> | - | | | | | | |
| | | | | | | | | | |
| | | | Ē | Production C | asing | | | | |
| Hole Size: | 6-3/4" | | - | | | | | | |
| Casing Size: | 4-1/2" | | - | | | | | | |
| Cemented with: | 1150 | <u></u> | sacks | (or) | <u> </u> | · | ft3 | | |
| Top of Cement: | Unknown | | - | | | | | | |
| Method Determined: | 3728' | | - | | | | | | |
| Total Depth: | 5120 | | - | | | | | | |
| | | | | Injection Int | <u>erval</u> | | | | |
| 3456' | feet to | 3612' | | | (Indicate whethe | er Open Hole | e or perforated) | perforated | |
| | | | | | | | | | |
| | | | | <u>Tubing De</u> | tail | | | | |
| Tubing Size: | 2-3/8" | | - | | | | | | |
| Lining Material: | | | | | | | | | |
| Type of Packer: | None | | | | | | | | |
| Packer Setting Depth: Other Type of Tubing | | al (if applic | - ahla) | | | | | | |
| | greasing se | ai (ii appiic | abie). | | | | | | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well drilled for injection? | | | | | | | | | |
| If no, for what purpos | | - | ly drilled | ? | Oil and ga | <u>s</u> | · | | |
| 2. Name of the Inject | | | · | | n/a | | | | |
| 3. Name of Field or | Pool (il app | licable): | | | Langlie Ma | attix Sever | n Rivers-Que | en-Graybu | rg |
| 4. Has the well ever I.e. sacks of cement | | | other ze | one(s)? List | all such perfo | rated inte | rvals and giv | ve 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 | ! | · · · · · · · · · · · · · · · · · · · | | | | | | | |

.

Acid, Shot, Fracture, Squeeze:

Perfs:

See attached diagram



| OPERATOR: | . | Energen F | Resource | S | <u> </u> | | | | | |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------|------------------|------------------|----------------------------------------------------------------------------------------------------------------|-----------------|----------------------|-------------------|-----------------|--|
| WELL NAME & NUM | BER: | Langlie Ly | nn Quee | n Unit #8 | | | | | | |
| WELL LOCATION: | 660' FSL, (Footage Location | 660' FWL | | | M (Unit Letter) | 23 (Section) | T-23-S (Township) | R-36-E (Range) | Lea (County) | |
| | | | WELL | CONSTRU | JCTION DATA | | | | | |
| | | | | <u>Surface (</u> | Casing | | | | | |
| Hole Size: Casing Size: | <u>11"</u> 8-5/8" | <u> </u> | | | | | | | | |
| Cemented with: | 150 | | sacks | (or) | | | ft3 | | | |
| Top of Cement: | Surface | | _ | | | | - | | | |
| Method Determined: | Visual | | , | | | | | | | |
| | | | | | | | | | | |
| | | | <u> </u> | Production | <u>Casing</u> | | | | | |
| Hole Size: | 6-3/4" | | _ | | | | | | | |
| Casing Size: | 4-1/2" | | - . | | | | | | | |
| Cemented with: | <u>1926</u> | | sacks | (or) | - <u></u> | | _ft3 | | | |
| Top of Cement: | Surface | | <u></u> | | | | | | | |
| Method Determined: Total Depth: | Visual 3712' | | - | | | | | | | |
| | <u> </u> | <u></u> | - | | | | | | | |
| | | | | Injection | Interval | | | | | |
| 3482' | _ feet to | 3673' | | | (Indicate whethe | er Open Hole | or perforated) | perforated | | |
| | | | | | | | | | | |
| • | | | | Tubing | <u>Detail</u> | | | | | |
| Tubing Size: | 2-3/8" | | | | | | | | | |
| Lining Material: | | | | | | | | | | |
| Type of Packer: | | <u> </u> | <u> </u> | | | | | | | |
| Packer Setting Depth: Other Type of Tubing | /Casing Se | eal (if applic | able). | | | | | | | |
| | groading of | | аысу. | · | | | <u></u> | | | |
| | | | | | | | | | | |
| 1. Is this a new well | drilled for i | njection? | | | No | | | | | |
| If no, for what purpos | se was the | well origina | lly drilled | ? | Oil and gas | | | | | |
| 2. Name of the Injection Formation: | | | | | n/a | | | | | |
| 3. Name of Field or | Pool (if app | olicable): | | | Langlie Ma | ittix Seven | Rivers-Que | en-Graybur | g | |
| 4. Has the well ever I.e. sacks of cement | | | y other z | | st all such perfo | | - | | detail, | |
| 5. Give the name an Jalmat Yates Gas Zo | | | | es underlyir | | | ed injection | | area: | |
| Completion Record | ! | <u></u> | | | | | <u> </u> | | | |
| Perfs: | | See attac | h ed diac | iram | | | | | | |
| a a constant and a co | أكامه الأجرب يجمع ومحبو معارد براساره | | | | والمتحد والمتحدين بالمتحد والمتحد والم | | | | | |

-

Acid, Shot, Fracture, Squeeze:



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

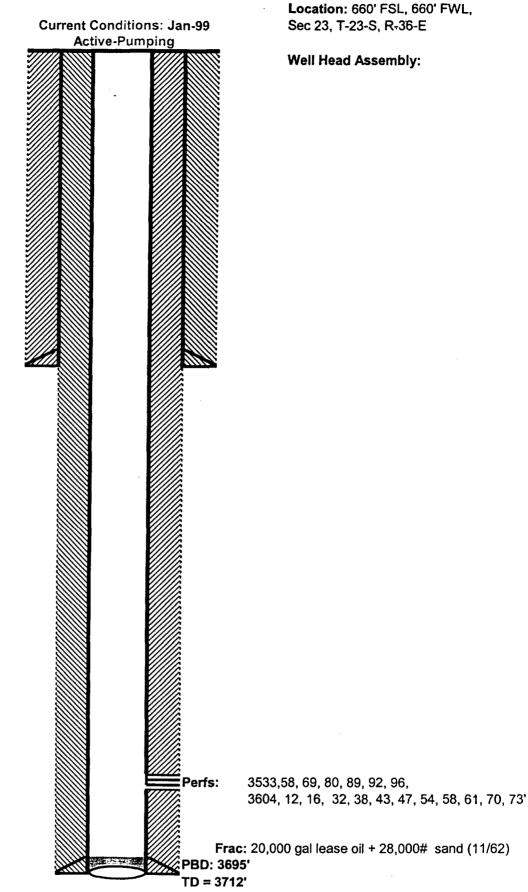
Intermediate Casing: None

Production Casing: 4 1/2" 9.50# J-55 ST&C @ 3712' in 6-3/4" hole

1876 sx 50/50 Pozmix

Cement Circulated

50 sx Regular cement + Latex



GL Flevation: 3358

.evation: 3370'

KĹ

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

| NATELL DATA OUT | |
|-----------------|------------|
| | |
| WELL DATA SHE | r 1 |
| | |

. • 😼

| OPERATOR: | | Energen R | Resource |)S | | | | | | |
|-----------------------------------------------------------------------------------------------------------------|-----------------|----------------|-----------|---------------|------------------|--------------------------------------------------|------------------|--------------|----------|--|
| WELL NAME & NUM | BER: | Langlie Ly | nn Quee | en Unit #10 | | | | | | |
| WELL LOCATION: | 660' FSL, | 1650' FEL | | | 0 | 22 | T-23-S | R-36-E | Lea | |
| | (Foolage Locali | on) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) | |
| | | | WELL | CONSTRUC | TION DATA | | | | | |
| | | | | Surface Ca | <u>sing</u> | | | | | |
| Hole Size: | 9-7/8" | ······ | - | | | | | | | |
| Casing Size: | 7-5/8" | | | <i>.</i> | | | | | | |
| Cemented with: | 225 | | sacks | (or) | | | _ft3 | | | |
| Top of Cement: | Surface | <u> </u> | - , | | | | | | | |
| Method Determined: | Visual | | - | | | | | | | |
| | · | | F | Production C | 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 In | terval | | | | | |
| | | | | | | | | | | |
| P&A | feet to | <u></u> | | | (Indicate whethe | er Open Hole | e or perforated) |) | | |
| | | | | Tubing D | stail | | | | | |
| Tubing Size: | | | | Tubing De | stan | | | | | |
| Lining Material: | ······ | | - | | | | | | | |
| Type of Packer: | | | | | | | | | | |
| Packer Setting Depth: | | <u> </u> | | | | | | | | |
| Other Type of Tubing | g/Casing S | eal (if applic | able): | | <u></u> | | | | | |
| | | | | | | | | | | |
| Addtitional Data | | | | | | | | | | |
| 1. Is this a new well | | - | | | 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 N | | | | | | attix Sever | n Rivers-Qu | een-Graybu | | |
| | | · · · | | iono(o)? Liot | | | | | | |
| Has the well ever sacks of cement | • | | | • • | all such perio | | • | | detail, | |
| Old perfs in interval i | | | 'd 7-2-86 | δ | | | | | | |
| See attached sheet | for plugging | g detail | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | |
| | ····· | | | | | | | | | |
| 5. Give the name ar Jalmat Yates Gas Zo | • | | | es underlying | or overlying t | the propos | ed injection | zone in this | area: | |
| · | | | | | | | | | | |
| Completion Record | Ţ | | | | | | | | | |

| Acid. | Shot. | Fracture. | Squeeze: |
|-------|-------|-----------|----------|
| | 01104 | | oquouzo. |

Perfs:

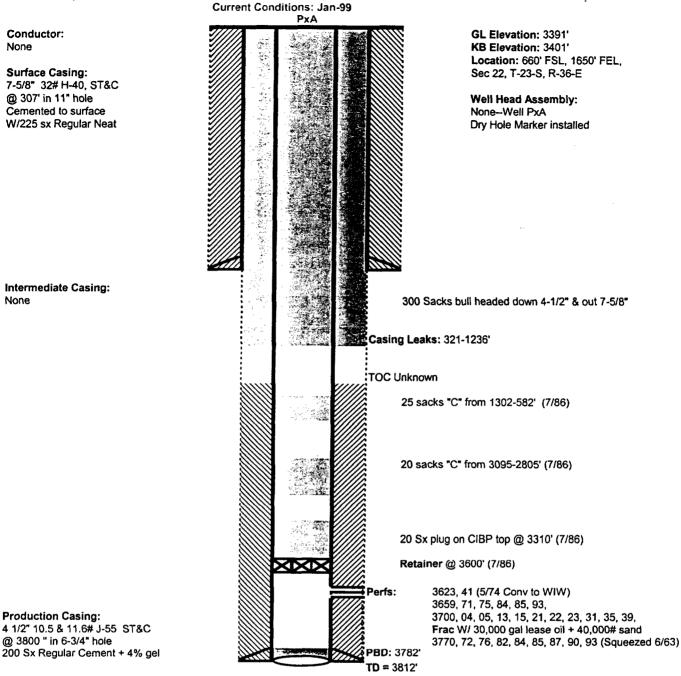
See attached diagram

| * | | | |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------|
| NO. OF COPIES RECEIVED DISTRIBUTION SANTA FE FILE | NEW MEXICO OIL CONSERVA | TION COMMISSION | Form C-103 Supersedes Old C-102 and C-103 Effective 1-1-65 |
| U.S.G.3. LAND OFFICE OPERATOR | | | Sa. Indicate Type of Lease State Fee S. State Cil S Gas Lease Na. B-1167 |
| IDO NOT USE THIS FORM FOR PROP | NOTICES AND REPORTS ON WELL | A PIPPPARUT APARAUNIA | |
| 2. Name of Operator | OTHER. INI. Well | · | 7. Unit Agreement Name |
| CONOCO IN | с. | | Langlie Lynn Queer |
| P. O. Box 460, | Hobbs, N.M. 88240 | | 9. Well/No. |
| 4. Location of Well UNIT LETTER | 40 PEET FROM THE South LINE | AND 1650 PEET FROM | 10. Field and Pool, or Wildow Langlie Mattix Thir |
| THE <u>East</u> LINE, BECTION | 22 TOWNSHIP 235 | AANGE <u>36E</u> 4MAN. | |
| | 15. Elevation (Show whether DF, RT | , CR, etc.) | 12. County Lea |
| 16. Check A | ppropriate Box To Indicate Nature | | |
| PERFORM REMEDIAL WORK | PUIG AND ABANDON | AL WORK | ALTERING CASING PLUG AND ABANDONWENT |
| | ۵۳, | | |
| 17. Describe Proposed of Completed Oper work) SEE RULE 1103. | ations (Clearly state all pertinent details, and | l give pertinent dates, including | estimated date of starting any prop |
| DMIRU on 7-1-51 Det CIBP@3 Hop of plug Bullhead 300 Out 758" csg. A Rig down on | 6. PooH w/ tbg 600', Displace hole after waiting on cmt sxs Class "C" cmt de Installed PFA mar 7-2-86. | W/mud, Set: - 35 hrs. (Top own 45 csq, h -ker, | 3 cmt plugs. Tag @ 1140?) ad good return |
| | | | - |
| | | | |
| 13. I hereby certify that the information ab | ove is true and complete to the best of my known | wledge and belief. trative Supervisor | DATE 7-18-86 |

CONDITIONS OF APPROVAL, IF ANY:

NIMORD-4

ENERGEN RESOURCES, INC. Langlie Lynn Unit #10 Lea County, NM



4 1/2" 10.5 & 11.6# J-55 ST&C @ 3800 " in 6-3/4" hole

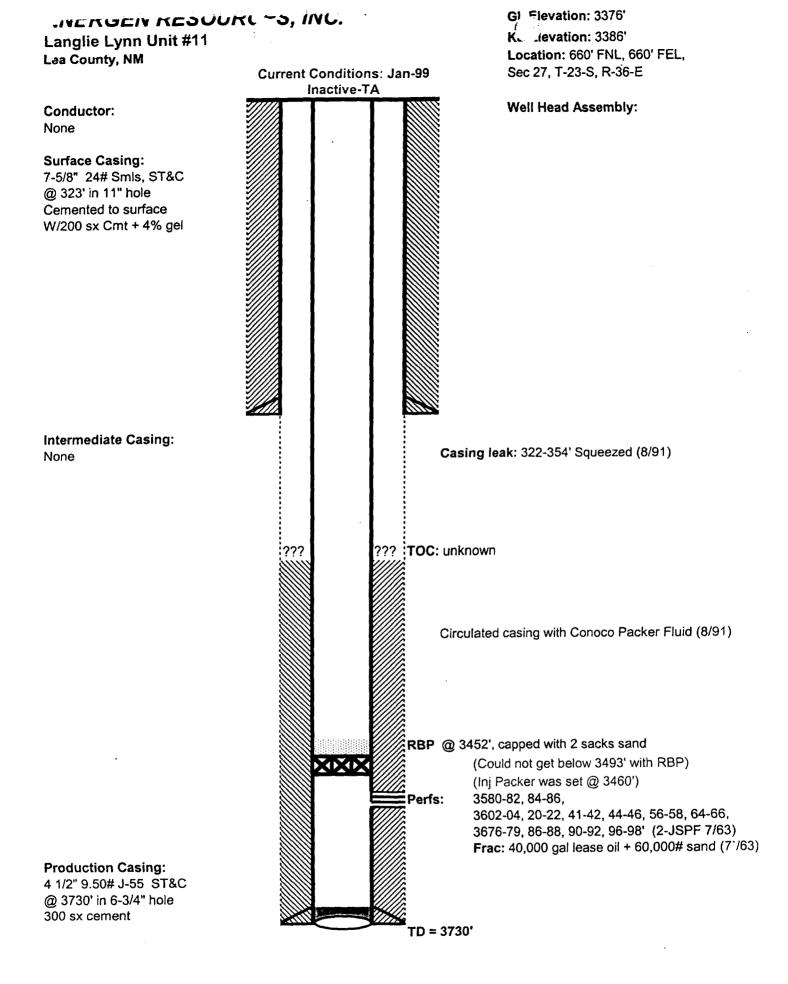
| (Footage Lo Hole Size: 11" Casing Size: 7-5/8" Cemented with: 200 Top of Cement: Surface Method Determined: Visual Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknow Method Determined: 3730' Top of Cement: Unknow Method Determined: 3730' | | | Unit #11 | A (Unit Letter) | 27 | | . <u>سر میں مصر میں م</u> | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------|-----------------|--------------------|--------------|---------------|---------------------------|----------|
| (Footage Lo ole Size: 11" asing Size: 7-5/8" emented with: 200 op of Cement: Surface lethod Determined: Visual lole Size: 6-3/4" asing Size: 4-1/2" cemented with: 300 op of Cement: Unknow lole Size: 4-1/2" cemented with: 300 op of Cement: Unknow lethod Determined: 3730' dethod Determined: 3730' iotal Depth: 3730' 3532' feet ubing Size: 2-3/8" ining Material: | ocation) | VELL C | | | 27 | | | |
| Hole Size: 11" Casing Size: 7-5/8" Cemented with: 200 Top of Cement: Surface Method Determined: Visual Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknow Method Determined: Tunknow Top of Cement: Unknow Method Determined: 730' Total Depth: 3730' 3532' feet . . Tubing Size: 2-3/8" Lining Material: . Type of Packer: . Packer Setting Depth: . Other Type of Tubing/Casing . Addtitional Data . 1. Is this a new well drilled for . 1. Is this a new well drilled for . . Name of the Injection For . Name of Field or Pool (if and the propose was the set of the set of the propose was the set of the set of the propose was the set of the prool (if and the set of the propose was the set of the pr | | VELL C | | (Unit Letter) | | | R-36-E | Lea |
| Casing Size: 7-5/8" Cemented with: 200 Top of Cement: Surface Method Determined: Visual Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknow Method Determined: Total Depth: 3730' 3532' feet Tubing Size: 2-3/8" Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing/Casing Addtitional Data 1. Is this a new well drilled for If no, for what purpose was to 2. Name of the Injection For 3. Name of Field or Pool (if a 4. Has the well ever been performed to the set of t | N | VELL C | | | (Section) | (Township) | (Range) | (County) |
| Casing Size: 7-5/8" Cemented with: 200 Top of Cement: Surface Method Determined: Visual Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknow Method Determined: Top of Cement: Comented with: 300 Top of Cement: Unknow Method Determined: Total Depth: Total Depth: 3730' State 2-3/8" Lining Material: Fype of Packer: Packer Setting Depth: Dether Type of Tubing/Casing Addtitional Data 1. Is this a new well drilled for I. Is this a new well drilled for For I. Is this a new well drilled for For I. Is this a new well drilled for For I. Is this a new well drilled for For I. Is this a new well drilled for For I. Is this a new well drilled for For I. Name of the Injection For S. Name of Field or Pool (if and the set of the Injection For I. Has the well ever been per the set of the Injection For | _ | | ONSTRU | CTION DATA | | | | |
| Casing Size: 7-5/8" Cemented with: 200 Top of Cement: Surface Method Determined: Visual Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknow Method Determined: Top of Cement: Comented with: 300 Top of Cement: Unknow Method Determined: Total Depth: Total Depth: 3730' State 2-3/8" Lining Material: Fype of Packer: Packer Setting Depth: Dether Type of Tubing/Casing Addtitional Data 1. Is this a new well drilled for I. Is this a new well drilled for For I. Is this a new well drilled for For I. Is this a new well drilled for For I. Is this a new well drilled for For I. Is this a new well drilled for For I. Is this a new well drilled for For I. Name of the Injection For S. Name of Field or Pool (if and the set of the Injection For I. Has the well ever been per the set of the Injection For | | | Surface C | asing | | | | |
| Cemented with: 200 Top of Cement: Surface Method Determined: Visual Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknow Method Determined: 300 Top of Cement: Unknow Method Determined: 3730' Total Depth: 3730' 3532' feet Sing Size: 2-3/8" Lining Material: | | - | | | | | | |
| Top of Cement: Surfact Method Determined: Visual Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknown Method Determined: 3730" Fotal Depth: 3730" State 2-3/8" Lining Material: | | | | | | | | |
| Method Determined: Visual Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknow Method Determined: 700 Total Depth: 3730' Get 3532' Fubing Size: 2-3/8" Lining Material: 700 Type of Packer: 200 Daker Setting Depth: 200 Other Type of Tubing/Casing 4. Addtitional Data 1. Is this a new well drilled for | sa | acks | (or) | · | | ft3 | | |
| Hole Size: 6-3/4" Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknown Method Determined: 3730' Total Depth: 3730' 3532' feet <t< td=""><td>e</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | e | | | | | | | |
| Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknown Method Determined: 500 Total Depth: 3730' 3532' feet Tubing Size: 2-3/8" Lining Material: 500 Type of Packer: 500 Packer Setting Depth: 500 Other Type of Tubing/Casing 600 Addtitional Data 61 I. Is this a new well drilled for 61 J. Is this a new well drilled for 61 J. Name of the Injection For 53 Name of Field or Pool (if an expection For 53 Mame of Field or Pool (if an expection For 54 | | | | | | | | |
| asing Size: 4-1/2" gemented with: 300 op of Cement: Unknown lethod Determined: 0 otal Depth: 3730' 3532' feet "ubing Size: 2-3/8" ining Material: | | Pr | oduction | Casing | | | | |
| Casing Size: 4-1/2" Cemented with: 300 Top of Cement: Unknown Method Determined: 1 Total Depth: 3730' 3532' feet Gubing Size: 2-3/8" Lining Material: 1 Type of Packer: 1 Packer Setting Depth: 1 Other Type of Tubing/Casing 1 Addtitional Data 1 1. Is this a new well drilled for 1 2. Name of the Injection For 3 3. Name of Field or Pool (if a 1 4. Has the well ever been per 1 | | <u></u> | <u> </u> | | | | | |
| Cemented with: 300 Top of Cement: Unknow Method Determined: Total Depth: 3730' 3532' feet | | | | | | | | |
| Method Determined: 3730' Fotal Depth: 3730' Solar Depth: 3730' Joing Depth: 2-3/8" Lining Material: | S; | acks | (or) | | | ft3 | | |
| Method Determined: 3730' Fotal Depth: 3730' Solar Depth: 3730' Joing Depth: 2-3/8" Lining Material: | wn | | • • | - <u></u> | | - | | |
| 3532' feet Fubing Size: 2-3/8" Lining Material: | | | | | | | | |
| Fubing Size: 2-3/8" Lining Material: | <u> </u> | | | | | | | |
| Tubing Size: 2-3/8" Lining Material: | | | | | | | | |
| Fubing Size: 2-3/8" Lining Material: | | <u>1</u> | njection l | <u>nterval</u> | | | | |
| Lining Material: Type of Packer: Packer Setting Depth: Dther Type of Tubing/Casing Addtitional Data 1. Is this a new well drilled for If no, for what purpose was the 2. Name of the Injection For 3. Name of Field or Pool (if a 4. Has the well ever been pe | to <u>3698'</u> | | | (Indicate whethe | er Open Hole | or perforated | perforated | |
| Lining Material: Type of Packer: Packer Setting Depth: Dther Type of Tubing/Casing Addtitional Data 1. Is this a new well drilled for If no, for what purpose was the 2. Name of the Injection For 3. Name of Field or Pool (if a 4. Has the well ever been pe | | | <u>Tubing (</u> | Detail | | | | |
| Lining Material: Type of Packer: Packer Setting Depth: Dther Type of Tubing/Casing Addtitional Data 1. Is this a new well drilled for if no, for what purpose was the 2. Name of the Injection For 3. Name of Field or Pool (if a 4. Has the well ever been pe | | | Tubing L | 201011 | | | | |
| Type of Packer: Packer Setting Depth: Other Type of Tubing/Casing Addtitional Data 1. Is this a new well drilled for if no, for what purpose was th 2. Name of the Injection For 3. Name of Field or Pool (if a 4. Has the well ever been pe | | | | | | | | |
| Packer Setting Depth: Dther Type of Tubing/Casing Addtitional Data 1. Is this a new well drilled for if no, for what purpose was the 2. Name of the Injection For 3. Name of Field or Pool (if a 4. Has the well ever been pe | | | | | | | | |
| Addtitional Data 1. Is this a new well drilled for if no, for what purpose was the 2. Name of the Injection For 3. Name of Field or Pool (if an 4. Has the well ever been pe | | | | | | | | |
| Is this a new well drilled for f no, for what purpose was the Name of the Injection For Name of Field or Pool (if an any state of Field or Pool (if any state of | Seal (if applicab | ie): | | | | | | |
| Is this a new well drilled for if no, for what purpose was the Name of the Injection For Name of Field or Pool (if a Has the well ever been performed to the performance of the performed to the performance of the performanc | | | | | | | | |
| if no, for what purpose was to 2. Name of the Injection For 3. Name of Field or Pool (if a 4. Has the well ever been pe | | | | | | | | |
| Name of the Injection For Name of Field or Pool (if a Has the well ever been per | | | | No | | | | |
| Name of Field or Pool (if a Has the well ever been pe | | drilled? | , | Oil and gas n/a | <u>s</u> | | | |
| 4. Has the well ever been pe | 2. Name of the Injection Formation: | | | | | | | <u> </u> |
| | applicable): | | <u></u> | Langlie Ma | attix Sever | Rivers-Qu | een-Graybur | g |
| adora or coment or plug | • | ther zo | | st all such perfo | | - | | detail, |
| | ··· · · · · · · · · · · · · · · · | | | | | <u></u> | 4 | |
| Give the name and depth Jaimat Yates Gas Zone, Top | | | s underlyin | g or overlying t | he propos | ed injection | zone in this | area: |
| WILLING THIS GAS FOLID, 100 | | | | | | | | |

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

| Submit 3 Copies to Appropriate District Office | · · · · · · · · · · · · · · · · · · · | ew Mexico Iral Resources Department | Form C-103 Revised 1-1-89 | | | | |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------|--|--|--|--|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVA P.O. Bo | | WELL API NO. | | | | |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New Me | 30-025-20521 5. Indicate Type of Lease STATE THE FEE | | | | | |
| DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 | | | | | | | |
| (DO NOT USE THIS FORM FOR PRO DIFFERENT RESER (FORM C- | CES AND REPORTS ON POSALS TO DRILL OR TO DE VOIR. USE "APPLICATION FO 101) FOR SUCH PROPOSALS | EPEN OR PLUG BACK TO A | 23267 7. Lease Name or Unit Agreement Name Langlie Lynn Queen Unit | | | | |
| 1. Type of Well: OIL WELL X WEL | OTTER | | | | | | |
| 2. Name of Operator Energen Resources Corpo | oration | | 8. Well No. 11 | | | | |
| 3. Address of Operator 3300 N. A St, Bldg 4, 1 | Ste 100, Midland, T | TX 79705 | 9. Pool name or Wildcat Langlie Mattix 7 RVRS/Queen/GB | | | | |
| 4. Well Location | Feet From The North | | | | | | |
| 07 | | | | | | | |
| Section 21 | | Range 30E M hether DF, RKB, RT, GR, etc.) | MPM Lea County | | | | |
| 11. Check A NOTICE OF INT | | cate Nature of Notice, Re | port, or Other Data SEQUENT REPORT OF: | | | | |
| | PLUG AND ABANDON | | | | | | |
| | CHANGE PLANS | | | | | | |
| PULL OR ALTER CASING | | CASING TEST AND CE | | | | | |
| OTHER: | | | · [] | | | | |
| 12. Describe Proposed or Completed Operati work) SEE RULE 1103. | oos (Clearly state all pertinent deu | ails, and give pertinent dates, includ | ing estimated date of starting any proposed | | | | |
| MIRU WSU, pressure test Re-perforate the 7 Rive | casing to 500 psi rs/Queen, acidize | for 30 minutes. Re w/ 3,000 gals. Run | ecover RBP @ 3,452'. tubing and rods, RWTP. | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| I hereby certify that the information above is true : | and complete to the best of my knowled | | | | | | |
| SIONATURE | and | _ mle Prod. Tech. | DATE | | | | |
| TYPE OR PRINT NAME Denise | Menoud | | TELEPHONE NO.915-687-207 | | | | |
| (This space for State Use) | | _ | | | | | |
| APPROVED BY URIGHTAL SIC | NED BY CHHID VICENT | — TITLE | DAMAR 20 2008 | | | | |

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| OPERATOR: | R: Energen Resources | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------|------------------|---------------------------------------|--------------------|-----------------|------------------------------------|-------------------|-----------------|--|
| WELL NAME & NUM | BER: | Langlie Lynn Queen Unit #13 | | | | | | | | |
| WELL LOCATION: | 660' FNL, (Footage Locatio | 1980' FWL | | | C (Unit Letter) | 26 (Section) | T-23-S (Township) | R-36-E (Range) | Lea (County) | |
| | | | WELL | CONSTRI | JCTION DATA | | | | | |
| | | | | <u>Surface (</u> | Casing | | | | | |
| Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: | 11" 7-5/8" 200 Surface Visual | | sacks | (or) | | | _ft3 | | | |
| | | | F | Production | ı Casina | | | | | |
| Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: Total Depth: | 6-3/4" 4-1/2" 250 2500' TS 3700' | | sacks | (or) | <u></u> | | _ft3 | | | |
| | | | | Injection | Interval | | | | | |
| 3446' | feet to | 3638' | | | (Indicate whethe | er Open Hole | or perforated) | perforated | | |
| Tubing Size: Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing | 2-3/8" | eal (if applic | - - able): | <u>Tubing</u> | <u>Detail</u> | | | | | |
| Addtitional Data | | | | | | | | | | |
| Is this a new well drilled for injection? If no, for what purpose was the well originally drilled Name of the Injection Formation: Name of Field or Pool (if applicable): | | | ? | No Oil and ga n/a Langlie Ma | | Rivers-Que | een-Graybur | | | |
| 4. Has the well ever I.e. sacks of cement | | | other z | one(s)? Li | ist all such perfo | orated inter | vals and giv | ve plugging o | detail, | |
| 5. Give the name an Jalmat Yates Gas Zo | | | | es underlyi | ng or overlying t | he propos | ed injection | zone in this | area: | |
| Completion Record | ! | | | | | | ara a r a ala, "mangala | <u></u> | | |

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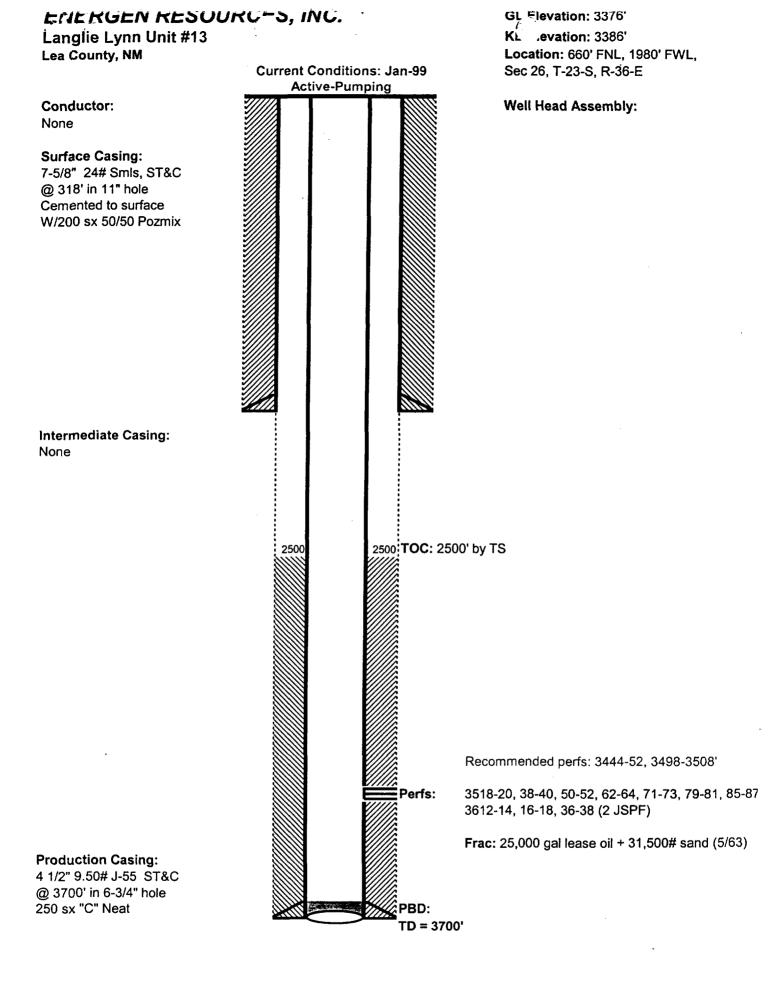
| Acid, | Shot, | Fracture, | Squeeze: |
|-------|-------|-----------|----------|
|-------|-------|-----------|----------|

See attached diagram

Perfs:

| Submit 3 Copies to Appropriate District Office | State of New Ene.,, Minerals and Natural | | | Form C-103 Revised 1-1-89 |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------------------|---------------------------------------|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVAT | | WELL API NO. | |
| DISTRICT II | P.O. Box : Santa Fe, New Mexic | | | 5-20335 |
| P.O. Drawer DD, Artesia, NM 88210 | | | 5. Indicate Type of Lea | STATE T |
| DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | | | 6. State Oil & Gas Lea 23267 | |
| (DO NOT USE THIS FORM FOR PR DIFFERENT RESE | ICES AND REPORTS ON W OPOSALS TO DRILL OR TO DEEP RVOR. USE "APPLICATION FOR >-101) FOR SUCH PROPOSALS.) | PEN OR PLUG BACK TO A | 7. Lease Name or Unit | - |
| 1. Type of Well: OL WELL X WELL | | · · · · · · · · · · · · · · · · · · · | Langlie Lynn | Queen Unit |
| 2. Name of Operator | | = | 8. Well No. | |
| Energen Resources Corp | poration | | 13 | · · · · · · · · · · · · · · · · · · · |
| 3. Address of Operator 3300 N. A St, Bldg 4, | Ste 100. Midland TY | 79705 | 9. Pool name or Wildca Langlie Mattix | |
| 4. Well Location | | | | . / KVK5/Quee |
| Unit Letter:660 |) Feet From The North | Line and198 |) Feet From The | East |
| Section 26 | Township 23S | | NMPM | Lea C |
| | 10. Elevation (Show whee) | her DF, RKB, RT, GR, etc.) | | |
| 11. Check | Appropriate Box to Indicat | e Nature of Notice. R | eport, or Other Da | <i></i> |
| NOTICE OF IN | | | SEQUENT REP | |
| | | | | |
| | CHANGE PLANS | | | |
| | | | | G AND ABANDONM |
| PULL OR ALTER CASING | | CASING TEST AND CE | | |
| OTHER: | [_ | | · | |
| 12 Describe Proposed or Completed Opera work) SEE RULE 1103. MIRU WSU, pull product @ 3,466'-72', and @ 3; | tion equipment. Re-pa | erforate the 7 RV | RS/Queen @ 3,44 | |
| | | | | |
| | | | | |
| | | | • | |
| | - | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| I hereby certify that the information above is true | and complete to the best of my knowledge | nod belief. | | |
| \sim h | and complete to the best of my knowledge i | mabelia. Prod. Tea | ch. | 3/13/20 |
| SIGNATURE | Jenour | | D | AIE |
| SIGNATURE | Jenour | | D | ELEPHONE NO. 915-6 |
| SIGNATURE | Menoud | mre Prod. Te | D | ELEPHONE NO. 915-6 |
| SIGNATURE | Jenour | MILLIANS | D | AIE |

•



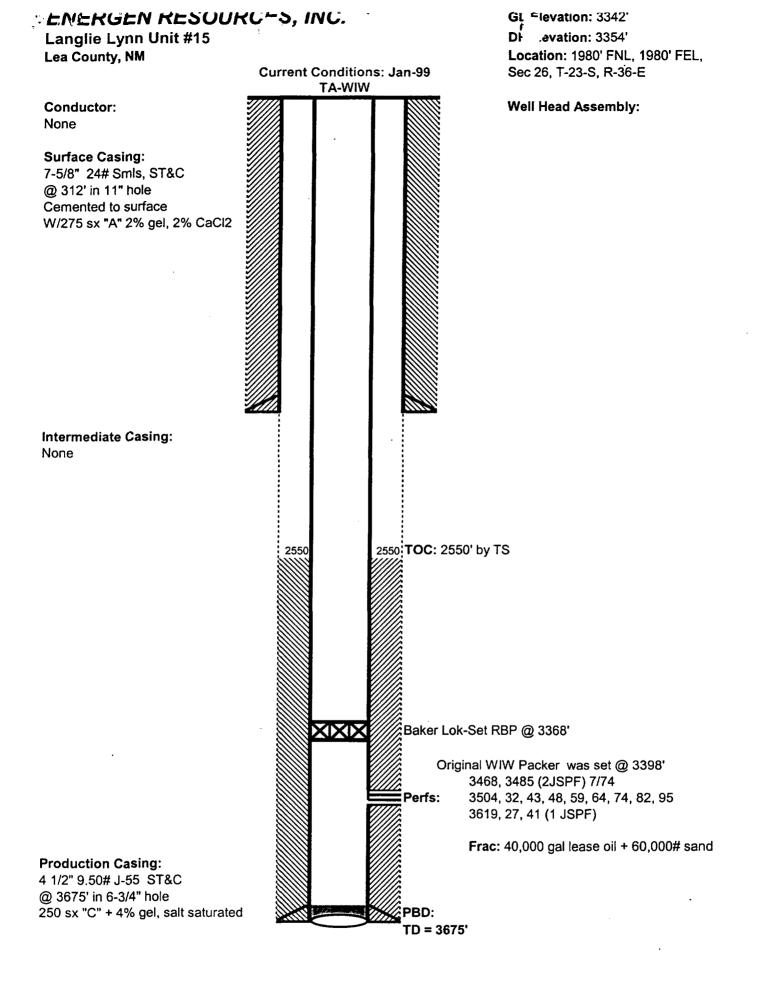
| OPERATOR: | Energen Resources | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------|----------|-------------------|-------------------------------------|-----------------|----------------------------------------|-------------------|-----------------|--|--|
| WELL NAME & NUM | BER: | Langlie Lynn Queen Unit #15 | | | | | | | | | |
| WELL LOCATION: | 1980' FNL (Foolage Locatio | , 1980' FEL | | | G (Unit Letter) | 26 (Section) | T-23-S (Township) | R-36-E (Range) | Lea (County) | | |
| | | | WELL | CONSTRUC | CTION DATA | | | | | | |
| | | | | <u>Surface Ca</u> | nsing | | | | | | |
| Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: | 9-7/8" 7-5/8" 275 Surface | | sacks | (or) | | | _ft3 | | | | |
| | | | F | Production | Casina | | | | | | |
| Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: Total Depth: | 6-3/4" 4-1/2" 200 2550' TS 3675' | | sacks | (or) | | | _ft3 | · | | | |
| 3416' | feet to | 3641' | | Injection In | i <u>terval</u> (Indicate whethe | er Open Hole | or perforated) | perforated | | | |
| Tubing Size: Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing | 2-3/8" | al (if applica | able): | <u>Tubing D</u> | <u>etail</u> | | | | | | |
| Addtitional Data | | | | | | | | | | | |
| Is this a new well drilled for injection? If no, for what purpose was the well originally drilled? | | | ? | No Oil and ga | s | | ····· | | | | |
| Name of the Injection Formation; Name of Field or Pool (if applicable): | | | | | n/a | | Rivers-Que | een-Graybu | rg | | |
| 4. Has the well ever I.e. sacks of cement | | | other z | one(s)? List | all such perfo | orated inter | vals and giv | ve plugging | detail, | | |
| 5. Give the name an Jalmat Yates Gas Zo | | | | | g or overlying t | | • | zone in this | area: | | |
| Completion Record | | | | | | | ······································ | ···· | <u> </u> | | |
| Perfs: | - | See attac | hed diag | gram | | | | | | | |

| Acid, | Shot, | Fracture, | Squeeze: |
|-------|-------|-----------|----------|
|-------|-------|-----------|----------|

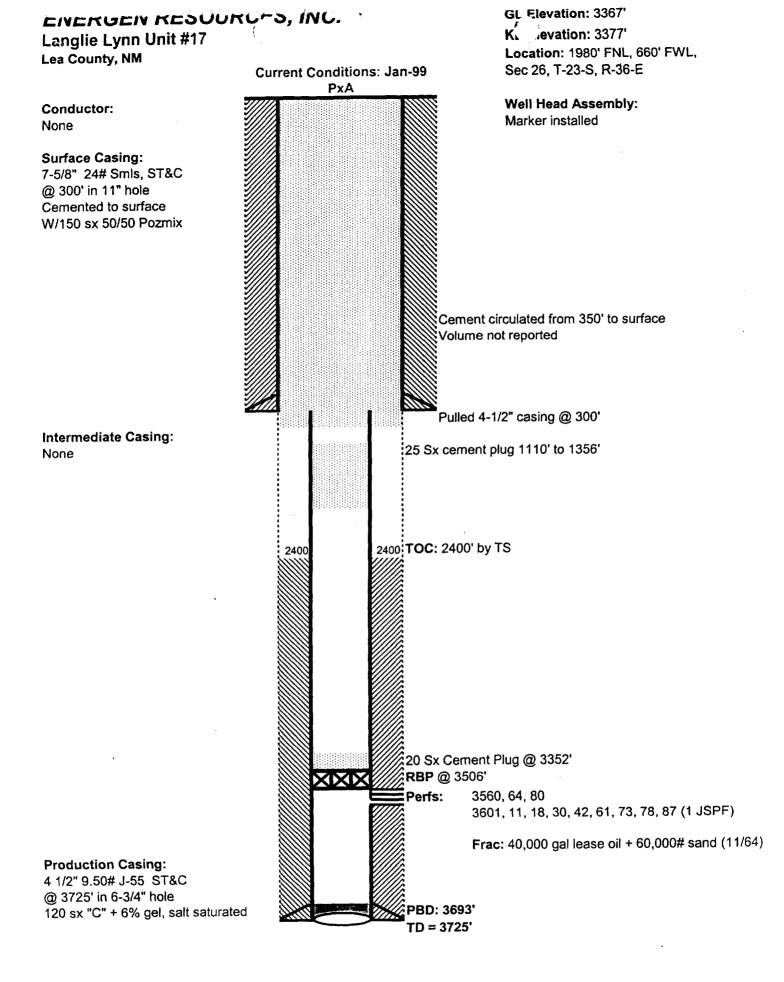
| Subrist 3 Copies to Appropriate District Office | State of New M Er , Minerals and Natural R | | Form C-103 Revised 1-1-89 |
|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------------------|
| DISTRICT I P.O. Box 1980, Hobbs, NM 88240 | OIL CONSERVATIO | 88 | WELL API NO. 30-025-21067 |
| DISTRICT II P.O. Drawer DD, Artesia, NM 88210 | Santa Fe, New Mexico | 87504-2088 | 5. Indicate Type of Lease |
| DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 | | | 6. State Oil & Gas Lease No. 23267 |
| (DO NOT USE THIS FORM FOR PRO DIFFERENT RESEF | CES AND REPORTS ON WE POSALS TO DRILL OR TO DEEPEN IVOR. USE "APPLICATION FOR PE 101) FOR SUCH PROPOSALS.) | OR PLUG BACK TO A | 7. Lease Name or Unit Agreement Name |
| 1. Type of Well: OL CAS WELL X WELL | OTHER CONV | ert to Producer | Langlie Lynn Queen Unit |
| 2. Name of Operator Energen Resources Corp | oration | | 8. Well No. 15 |
| 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/C |
| 4. Well Location Unit Letter _ 26 : 198 | 0_ Feet From The North | Line and1980 | Feet From The East |
| Section 26 | Township 23S R: 10. Elevation (Show whether | | MPM Lea County |
| 11. Check A NOTICE OF INT | Appropriate Box to Indicate 2 ENTION TO: | | port, or Other Data SEQUENT REPORT OF: |
| | | REMEDIAL WORK | |
| | CHANGE PLANS | COMMENCE DRILLING | OPNS. DPLUG AND ABANDONMENT |
| PULL OR ALTER CASING | | | |
| OTHER: Convert from WIW | to Producer | OTHER: | |

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 inform | nation above is true and complete to the best of my know | whedge and belief. | |
|----------------------------------|----------------------------------------------------------|--------------------|-------------------------|
| SIONATURE | Menaud | Prod. Tech. | DATE3/13/2000 |
| TYPE OR PRINT NAME | Denise Menoud | | TELEPHONE NO.915-687-20 |
| (This space for State Use) | I COLED BY | | Value |
| | OBIGINAL SICILED BY GARY WINK FIELD REP. 1 | | DATE |

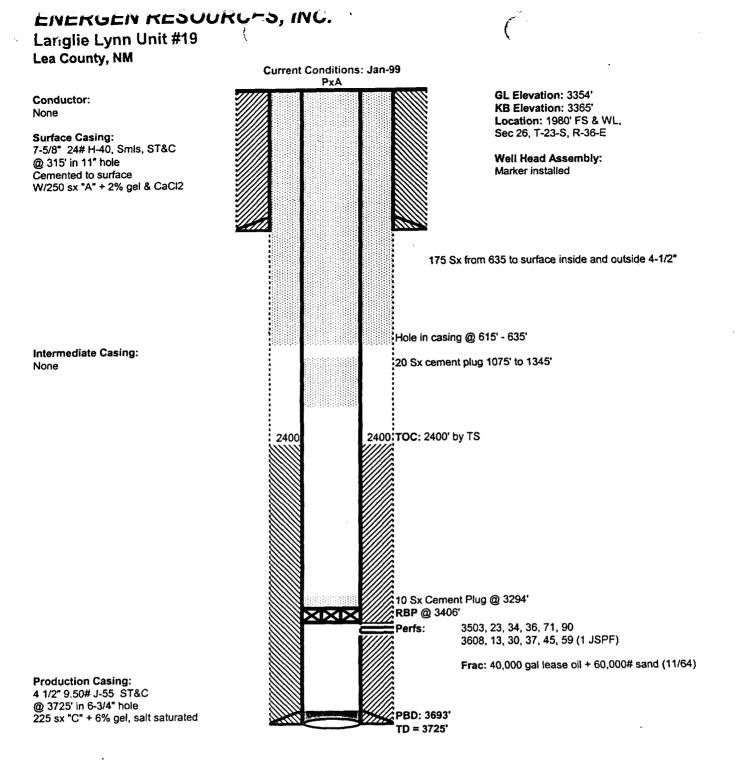


| PERATOR: | | Energen R | Resources | 5 | | | | <u> </u> | |
|----------------------------------------------|-------------------|---------------|-------------|-----------------|------------------|--------------|---------------|--------------|---------|
| /ELL NAME & NUM | BER: | Langlie Ly | nn Queei | n Unit #17 | | | | | |
| VELL LOCATION: | 1980' FNL | , 660' FWL | | | E | 26 | T-23-S | R-36-E | Lea |
| | (Foolage Location | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (Counly |
| | | | WELL (| CONSTRU | CTION DATA | | | | |
| | | | | Surface C | asing | | | | |
| lole Size: | 11" | | - | | | | | | |
| Casing Size: | 7-5/8" | | | | | | | | |
| cemented with: | 150 | | sacks | (or) | | | _ft3 | | |
| op of Cement: | Surface | <u> </u> | - | | | | | | |
| Method Determined: | Visual | | - | | | | | | |
| | | | <u>P</u> | roduction | Casing | | | | |
| lole Size: | 6-3/4" | | _ | | | | | | |
| Casing Size: | 4-1/2" | | _ | | | | | | |
| Cemented with: | 120 | 1 | sacks | (or) | | | _ft3 | | |
| Fop of Cement: | 2400' v | / | - | | | | | | |
| Method Determined: | TS | | - | | | | | | |
| fotal Depth: | 3725' | | - | | | | | | |
| | | | 4 | Injection II | nterval | | | | |
| 3506' | feet to | 3560' | | | (Indicate whethe | er Open Hole | or perforated | perforated | |
| | _ | | | | | | | · | |
| Tubing Size: | | | | <u>Tubing D</u> | <u>vetan</u> | | | | |
| ining Material: | | | - | | | | | | |
| Type of Packer: | | | | | <u> </u> | | | | |
| Packer Setting Depth: | | | | | | | | | |
| Other Type of Tubing | g/Casing Se | al (if applic | - able): | | | | | | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | njection? | | | No | | | | |
| f no, for what purpos | se was the | well original | lly drilled | ? | Oil and ga | s | | | |
| 2. Name of the Inject | tion Forma | tion: | | | n/a | | | | |
| 3. Name of Field or | Pool (if app | licable): | · | | Langlie Ma | attix Seven | Rivers-Qu | een-Graybu | g |
| 4. Has the well ever | - | | y other zo | one(s)? Lis | t all such perfo | prated inter | vals and giv | ve plugging | detail, |
| I.e. sacks of cement | | | follows | | | | | | · |
| Old perfs @ 3560'-30 | | | | | ······ | | | | |
| RBP at 3506' w/ 20 s Set cmt plug at 1356 | | | | | | | ······ | | |
| Set cmt plug at 1550 | | | | | | | | ····· | |
| | | | | | | | | | |
| 5. Give the name ar Jalmat Yates Gas Zo | - | - | - | is underlyin | g or overlying t | he propos | ed injection | zone in this | area: |
| | | | | | | | | ····· | |
| Completion Record | 4 | | | | | | | | |
| | 5 | | | | | | | | |



| OPERATOR: | <u></u> | Energen R | esource | <u>s</u> | <u></u> | | | | | | |
|----------------------------------------------|-----------------------------|---------------------------------------|-----------------------------|--------------------------------------|------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|--|--|
| WELL NAME & NUM | BER: | Langlie Lynn Queen Unit #19 | | | | | | | | | |
| WELL LOCATION: | 1980' FNL | , 660' FWL | | | к | 26 | T-23-S | R-36-E | Lea | | |
| | (Footage Locatio | | | ····· | (Unit Letter) | (Section) | (Township) | (Range) | (County) | | |
| | | | | | | | | | | | |
| | | | WELL | CONSTRUC | TION DATA | | | | | | |
| | | | | <u>Surface Ca</u> | sing | | | | | | |
| Hole Size: | 11" | | | | | | | | | | |
| Casing Size: | 7-5/8" | <u></u> | | | | | | | | | |
| Cemented with: | 150 | | sacks | (or) | <u> </u> | | ft3 | | | | |
| Top of Cement: | Surface | | • | | | | | | | | |
| Method Determined: | Visual | <u> </u> | • | | | | | | | | |
| | | | P | roduction (| Casing | | | · | | | |
| Hole Size: | 6-3/4" | | ÷ | | , , | | | | | | |
| Casing Size: | 4-1/2" | | • | | | | | | | | |
| Cemented with: | 225 | 1 | sacks | (or) | | | _ft3 | | | | |
| Top of Cement: | 2800' | | - | | | | _ | | | | |
| Method Determined: | TS | | - | | | | | | | | |
| Total Depth: | 3725' | | - | | | | | | | | |
| | | | | Injection In | <u>terval</u> | | | | | | |
| | | | | | | | | | | | |
| 3480' | feet to | 3500' | | | (Indicate whethe | er Open Hole | e or perforated | perforated | | | |
| | | | | Tubing D | <u>etail</u> | | | | | | |
| Tubing Size: | | | _ | | | | | | | | |
| Lining Material: | | | | | | | | | | | |
| Type of Packer: | | | | | | | | | | | |
| Packer Setting Depth: | نعا المراجع المراجع المراجع | | - | | | | | | | | |
| Other Type of Tubing | /Casing Se | eal (if application | able): | | | | | | | | |
| | | | | | | | | | | | |
| Addtitional Data | | | | | | | | | | | |
| 1. Is this a new well | | - | | | No | | | ****** | | | |
| If no, for what purpos | | | ly drilled | 7 | Oil and ga | <u>s</u> | <u> </u> | | | | |
| 2. Name of the Inject | | | <u> </u> | | n/a | 444 | | 0 | ······ | | |
| 3. Name of Field or I | | · | <u></u> | | | | n Rivers-Qu | | | | |
| 4. Has the well ever | • | • | other z | one(s)? List | all such perfo | orated inte | rvals and given the second sec | ve plugging | detail, | | |
| I.e. sacks of cement | | | | | · | | | | | | |
| Old perfs @ 3503'-36 | 559'. PA'd | 10-22-92 as | tollows | • | | | | | | | |
| RBP at 3406' | 'w/ 10 cv c | mt on ton (| | 204" | | | · | | | | |
| Set cmt plug at 3375 Set cmt plug at 1345 | | _ الأوالي التي يتحدث ويست المتحدث وال | يوجدون المتحد المتحد المتحد | ويرجوه والمتحد بمتحد والقنين والمتحد | | | | | | | |
| Set cmt plug at 635' | | | | | | | | | | | |
| | | | | | | | | | | | |
| 5. Give the name an | | | | es underlying | or overlying t | the propos | sed injection | zone in this | area: | | |
| Jalmat Yates Gas Zo | one, top @ | approx. 30 | 40' | | | | | | | | |
| | | | ····· | <u> </u> | | <u> </u> | | | | | |

| Completion Record |
|-------------------|
| |

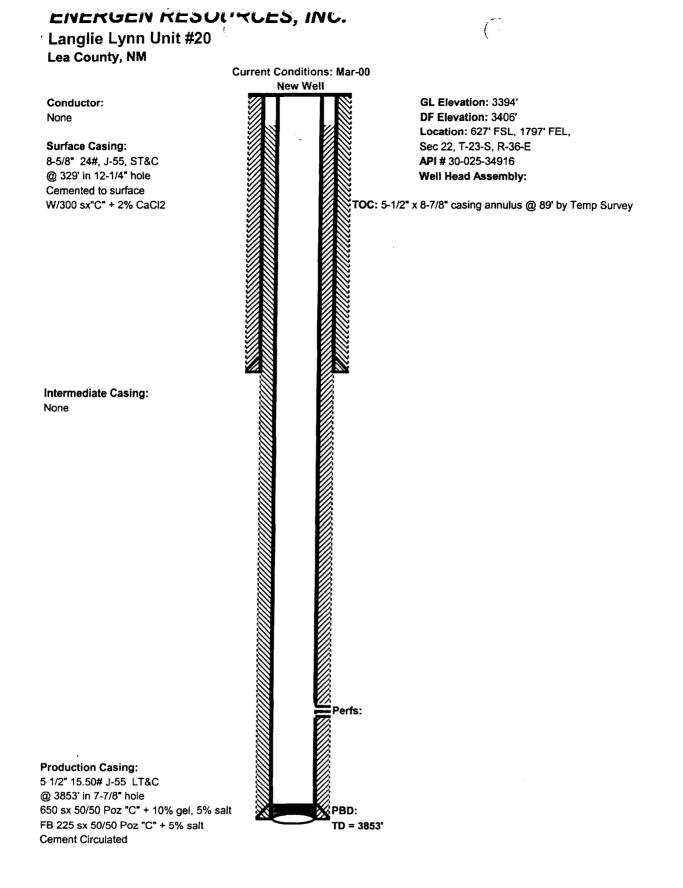


| WELL | DATA | SHEET |
|------|------|-------|
| | | |

| OPERATOR: | | Energen R | Resource | s | | . <u></u> | | | | | |
|--------------------------------------------|-----------------|----------------------------------------|-------------|------------------|----------------------------|--------------|----------------|--------------|----------|--|--|
| WELL NAME & NUMI | BER: | Langlie Lynn Queen Unit #20 | | | | | | | | | |
| WELL LOCATION: | 672' FSL, | 1797' FEL | | ······ | 00 | 22 | T-23-S | R-36-E | Lea | | |
| | (Foolage Locali | on) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) | | |
| | | | WELL | CONSTRU | ICTION DATA | | | | | | |
| | | | | <u>Surface C</u> | asing | | | | | | |
| Hole Size: | 12-1/4" | | _ | | | | | | | | |
| Casing Size: | 8-5/8" | | - | | | | | | | | |
| Cemented with: | 300 | | sacks | (or) | | | _ft3 | | | | |
| Top of Cement: | Surface | | _ | | | | | | | | |
| Method Determined: | | | | | | | | | | | |
| | | | _ | | | | | | | | |
| | | | Produ | ction Casi | ng (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' | | - | | | | | | | | |
| | _ feet to | 3804' | | Tubing I | (Indicate whethe Detail | er Open Hole | or perforated | perforated | | | |
| Tubing Size: | | | | | | | | | | | |
| Lining Material: | | | | | | | | | | | |
| Type of Packer: | . <u></u> | | | | | | | | | | |
| Packer Setting Depth: | | | | | | | | | | | |
| Other Type of Tubing | /Casing S | eal (if applic | able): | | <u></u> | | <u></u> | | | | |
| Addtitional Data | | | | | | | | | | | |
| 1. Is this a new well | drilled for i | njection? | | | No | | | | | | |
| If no, for what purpos | | • | lly drilled | ? | Spudded 2 | 2-24-00. Pr | resently drill | ing as a pro | ducer | | |
| 2. Name of the Injec | tion Forma | ation: | | | n/a | | | | | | |
| 3. Name of Field or I | Pool (if ap | olicable): | | | Langlie Ma | attix Seven | Rivers-Qu | een-Graybu | rg | | |
| 4. Has the well ever I.e. sacks of cement | | | y other z | one(s)? Li | st all such perfo No | orated inter | rvals and gi | ve plugging | detail, | | |
| | | | | | | | | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | - | | | es underlyir | ng or overlying t | he propos | ed injection | zone in this | area: | | |
| | | ······································ | | | | | | | | | |

•

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



| OPERATOR: | | Conoco | | | | | | | |
|--------------------------------------------|-----------------|---------------|-------------|------------|------------------|----------------------------------------|--------------|--------------|----------|
| WELL NAME & NUM | BER: | Lynn B-1 # | \$7 | | | | | | |
| WELL LOCATION: | 990' FNL, | 990' FEL | | _ | А | 27 | T-23-S | R-36-E | Lea |
| | (Footage Locate | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | ONSTRU | CTION DATA | | | | |
| | | | e | Surface C | asina | | | | |
| Hole Size: | Unknown | | - | | | | | | |
| Casing Size: | 7-5/8" @ | 1244' | - | | | | | | |
| Cemented with: | 500 | | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | - | • • | · | ······································ | | | |
| Method Determined: | Visual | <u></u> | - | | | | | | |
| | | | _ | | . . | | | | |
| Holo Sizo: | Unknown | | <u>Pr</u> | oduction | Casing | | | | |
| Hole Size: Casing Size: | 5-1/2" @ | 2020' | - | | | | | | |
| Cemented with: | <u>500</u> | | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | _ 000110 | (01) | | | _ "" | | |
| Method Determined: | | | | | | | | | |
| Total Depth: | 3480' | | - | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | ijection? | | | No | | | | |
| If no, for what purpos | e was the | well original | ly drilled? | | Oil and gas | S | | | , |
| 2. Name of the Injec | tion Forma | tion: | <u> </u> | | n/a | | | | |
| 3. Name of Field or I | Pool (if app | licable): | · | | Jalmat Tar | nsil-Yates- | Seven Rive | rs | |
| 4. Has the well ever I.e. sacks of cement | - | | other zor | ne(s)? Lis | t all such perfo | orated inter | vals and giv | ve plugging | detail, |
| 5. Give the name an Jalmat Yates Gas Zo | • | | - | underlyin | g or overlying t | he propos | ed injection | zone in this | area: |
| | | | · · · · · · | | | | | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | | Open hole | e 2929'-34 | 80' ? | | | | | |
| Acid, Shot, Fracture, | Squeeze: | | | | | | | | |
| | | · · · · · · | | | | | | | ····· |

| OPERATOR: | | Roca Petro | bleum | <u> </u> | | | | | ······ |
|----------------------------------------------|--------------------|---------------|------------|-------------------|------------------|------------|---------------|-----------------------|----------|
| WELL NAME & NUM | BER: | George Et | z #6 | | | - <u>-</u> | | | |
| WELL LOCATION: | 660' FSL, 6 | 60' FEL | | | Р | 27 | T-23-S | R-36-E | Lea |
| | (Footage Location) | | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | | CONSTRU | | | | | |
| | | | | | CTION DATA | | | | |
| Hole Size: | 12-1/4" | | | <u>Surface Ca</u> | asing | | | | |
| Casing Size: | 8-5/8" @ 44 | 47' | • | | | | | | |
| Cemented with: | 480 | ···, | sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | • | () | • <u> </u> | | | | |
| Method Determined: | Visual | | - | | | | | | |
| | | | • | | | | | | |
| | | | P | roduction | Casing | | | | |
| Hole Size: | 7-7/8" | | - | | | | | | |
| Casing Size: | 4-1/2" @ 30 | 600' | _ | | | | | | |
| Cemented with: | 1000 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | - | | | | | | |
| Method Determined: | | | _ | | | | | | |
| Total Depth: | 3600' | | - | | | | | | |
| | | | | <u>Tubing D</u> | <u>etail</u> | | | | |
| Tubing Size: | 2-3/8" | | | | | | | | |
| Lining Material: | | | - | | | | | | |
| Type of Packer: | | | | | | | | | |
| Packer Setting Depth: | 3140' | | _ | | | | | | |
| Other Type of Tubing | /Casing Sea | l (if applica | able): | | | | | - <u>-</u> | |
| | | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well of | drilled for inj | ection? | | | No | | | | |
| If no, for what purpos | e was the w | ell originall | y drilled' | ? | Oil and gas | S | | | |
| 2. Name of the Inject | tion Formation | on: | | | n/a | | | | |
| 3. Name of Field or F | Pool (if appli | cable): | <u> </u> | | Jalmat Tar | sil-Yates | -Seven Rive | rs | |
| 4. Has the well ever I.e. sacks of cement | | | other zo | one(s)? List | all such perfo | rated inte | rvals and giv | ve plugging | detail, |
| 5. Give the name an Jalmat Yates Gas Zo | • | | | s underlying | g or overlying t | he propos | sed injection | zone in this | area: |
| 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 |
| | |

| OPERATOR: | | Grace Pet | roleum C | orp. | <u> </u> | | | | | |
|--------------------------------------|--------------------|---------------------------------------|----------------------------------|-------------------|----------------|-------------|--------------|--------------|----------|--|
| WELL NAME & NUM | BER: S | State of New Mexico A A/C-1 #6 | | | | | | | | |
| WELL LOCATION: | 990' FNL, 9 | 90' FEL | | | Α | 22 | T-23-S | R-36-E | Lea | |
| • | (Foolage Location) | | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) | |
| | | | WELL (| CONSTRUC | TION DATA | | | | | |
| | | | | <u>Surface Ca</u> | sing | | | | | |
| Hole Size: | 12" | | _ | | | | | | | |
| Casing Size: | 8-5/8" @ 33 | 1' | - | | | | | | | |
| Cemented with: | 170 | | sacks | | | | | | | |
| Top of Cement: | Surface | | _ | | | | | | | |
| Method Determined: Visual | | | | | | | | | | |
| | | | | | | | | | | |
| | 7 7/08 | | <u>P</u> | roduction (| Casing | | | | | |
| Hole Size: | 7-7/8" | 001 | - | | | | | | | |
| Casing Size: | 4-1/2" @ 32 | 93 | - | | | | | | | |
| Cemented with: | 175 | | _sacks | | | | | | | |
| Top of Cement: Method Determined: | n/a | | - | | | | | | | |
| Total Depth: | 3300' | | - | | | | | | | |
| | | | - | | | | | | | |
| Addtitional Data | | | | | | | | | | |
| 1. Is this a new well | drilled for inje | ction? | Νο | | | | | | | |
| If no, for what purpos | se was the we | ll original | ly drilled? |) | Oil and gas | S | | | | |
| 2. Name of the Inject | tion Formatio | n: | n/a | | | | | | | |
| 3. Name of Field or | Pool (if applic | able): | Jalmat Tansil-Yates-Seven Rivers | | | | | | | |
| 4. Has the well ever | been perfora | ted in any | / other zo | ne(s)? List | all such perfo | rated inter | vals and oiv | e plugging | detail | |
| I.e. sacks of cement | | - | , | | | | | | | |
| Old perfs @ 3038'-3 | | | follows: | | | | | | | |
| Set CIBP @ 3000' w | | | | | | | | | | |
| Set cmt plug @ 250 | | | (TOC 23 | 90') | | | | | | |
| Set cmt plug @ 381' | | | <u> </u> | | | | | | | |
| | dditional 35 s | | | |) | | | | | |
| | 5 sx cmt @ 2 | | | | <u> </u> | | | | | |
| <u></u> | <u>₹</u> | · · · · · · · · · · · · · · · · · · · | | | <u></u> | <u> </u> | | | | |
| | | | | | | | | | | |
| 5. Give the name ar | • | • | _ | s underlying | or overlying t | he propose | ed injection | zone in this | area: | |
| Jalmat Yates Gas Zo | one, Top @ a | pprox. 30 | 40' | | | | | | | |

Completion Record

 Perfs:
 3038'-3149'

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

| OPERATOR: | | Raptor Res | ources | | | | | | |
|--------------------------------------------|-------------------|----------------|-------------|------------|------------------|-------------|---------------|--------------|------------|
| WELL NAME & NUM | BER: | State of Ne | w Mexico | A A/C-1 | #97 | | <u> </u> | <u></u> | . <u> </u> |
| WELL LOCATION: | 1980' FNL | , 1980' FWL | | | F | 22 | T-23-S | R-36-E | Lea |
| • | (Footage Location | ן (ו | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | ONSTRU | CTION DATA | | | | |
| | | | 5 | Surface C | asing | | | | |
| Hole Size: | 13-3/4" | | | | | | | | |
| Casing Size: | 9-5/8" @ 3 | 23 | aaaka | (07) | | | #2 | | |
| Cemented with: Top of Cement: | 300 Surface | | sacks | (or) | | | _ft3 | | 1 |
| Method Determined: | Visual | <u>_</u> | | | | | | | |
| Method Determined. | <u>visuai</u> | | | | | | | | |
| | | | Pr | oduction | Casing | | | | |
| Hole Size: | 8-3/4" | | | | | | | | |
| Casing Size: | 7" @ 3635 | 5' | | | | | | | |
| Cemented with: | 250 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Unknown | | | | | | | | |
| Method Determined: | | | • | | | | | | |
| Total Depth: | 3645' | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well of | drilled for in | jection? | | | No | | | | |
| If no, for what purpos | e was the v | vell originall | y drilled? | | Oil and ga | s | | ····· | |
| 2. Name of the Inject | | | | | n/a | | | | |
| 3. Name of Field or I | Pool (if appl | icable): | <u></u> | | Jalmat Tar | nsil-Yates- | Seven Rive | rs | <u></u> |
| 4. Has the well ever I.e. sacks of cement | - | • | other zor | ne(s)? Lis | t all such perfo | rated inter | rvals and giv | ve plugging | detail, |
| 5. Give the name an Jalmat Yates Gas Zo | • | • • | | underlyin | g or overlying t | he propos | ed injection | zone in this | area: |
| Completion Record | | | | 1 | | | | | |
| Perfs: | | 3568'-359 | 4', 3086'-: | 3228' | | | | | |
| Acid, Shot, Fracture, | Squeeze: | | | | o. 3 charges | | | ······ | , |
| | | | | | 10,000 gals. lea | ase crude | & 10,000# s | and | |
| | | Sand oil tr | eat 3086' | -3228' w/2 | 20,000 gals. lea | ase crude | & 60,000# s | and | |

.

| OPERATOR: | Grace Petr | roleum Cor | rp. | <u></u> | | | ···· | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------|---------------------|---------------|-------------|--------------|--------------|----------|
| WELL NAME & NUM | BER: State of No | ew Mexico | AA #5 | | | | | |
| WELL LOCATION: | 1980' FNL, 1980' FEL | | | G | 22 | T-23-S | R-36-E | Lea |
| | (Foolage Location) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | WELL CO | ONSTRUCTI | ON DATA | | | | |
| | | <u>S</u> | <u>urface Casii</u> | <u>19</u> | | | | |
| Hole Size: | 9-7/8" | _ | | | | | | |
| Casing Size: | 7" @ 336' | - | | | | | | |
| Cemented with: | 200 | sacks | | | | | | |
| Top of Cement: | Surface | _ | | | | | | |
| Method Determined: | Visual | - | | | | | | |
| | | | | | | | | |
| Hole Size: | 6-1/4" | <u>Pro</u> | oduction Ca | <u>sing</u> | | | | |
| | <u></u> | - | | | | | | |
| Casing Size: | | - aaaka | | | | | | |
| Cemented with: | 200 | sacks | | | | | | |
| Top of Cement: | n/a | - | | | | | | |
| Method Determined: | 0774 | - | | | | | | |
| Total Depth: | 3774' | - | | | | | | |
| Addtitional Data | | | | | | | | |
| 1. Is this a new well | drilled for injection? | | | No | | | | |
| If no, for what purpos | e was the well original | ly drilled? | | Oil and gas | 3 | | ····· | |
| 2. Name of the Inject | | <u></u> | | n/a | ····· | | | |
| 3. Name of Field or | Pool (if applicable): | <u></u> | | Langlie Ma | ttix Seven | Rivers-Que | en-Graybu | g |
| 4. Has the well ever | been perforated in any | other zon | e(s)? List all | such perfo | rated inter | vals and giv | e plugging | detail, |
| I.e. sacks of cement | or plug(s) used. | | | | | | | |
| Old perfs @ 3713'-37 | 721' & 3729'-3735'. PA | <u>vd 5-15-79</u> | as follows: | | | | | |
| Set CIBP @ 3650' w/ | 4 sx cmt on top | | | | | | | |
| Set cmt plug @ 2600 |)' w/ 50 sx cmt. (TOC 2 | 2500') | | | | | | |
| Set cmt plug @ 336' | w/ 25 sx cmt. on top | | | | | | | |
| and the second sec | 5 sx cmt @ 336' (TOC | | | | | | | |
| spotted 1 | 5 sx cmt @ 170' to sur | face. | | | | | | |
| | | <u></u> | | | | | <u> </u> | |
| 5. Give the name an | nd depths of any oil or g | jas zones i | underlying or | overlying th | he propose | ed injection | zone in this | area: |
| Jalmat Yates Gas Zo | one, Top @ approx. 30 | 40' | <u></u> | | | | | |
| | | | | | | | | |

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 |
| | |

| OPERATOR: | | Doyle Hart | man | | | | | | |
|----------------------------------------------|-------------------|----------------|------------|------------|-------------------|------------|---------------|--------------|----------|
| WELL NAME & NUM | BER: | State of Ne | ew Mexico | o AA #1 | | | | | |
| WELL LOCATION: | 1980' FNL | , 660' FEL | | | н | 22 | T-23-S | R-36-E | Lea |
| | (Footage Location | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (Counly) |
| | | | WELL C | ONSTRU | CTION DATA | | | | |
| | | | | | | | | | |
| Hole Size: | 13-3/4 | | 2 | Surface Ca | asing | | | | |
| Casing Size: | 10-3/4" @ | 305.26' | - | | | | | | |
| Cemented with: | 300 | | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | - | • • | | | _ | | |
| Method Determined: | Visual | | - | | | | | | |
| | | | | | | | | | |
| | | | <u>Pr</u> | roduction | <u>Casing</u> | | | | |
| Hole Size: | 8-3/4" | | - | | | | | | |
| Casing Size: | 7" @ 2906 |)' | - | | | | | | |
| Cemented with: | 2350 | | sacks | (or) | <u> </u> | | _ft3 | | |
| Top of Cement: | n/a | | - | | | | | | |
| Method Determined: | 24201 | | - | | | | | | |
| Total Depth: | 3130' | | - | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | jection? | | | No | | | | _ |
| If no, for what purpos | se was the v | vell originall | y drilled? | | Oil and gas | 3 | | | |
| 2. Name of the Injec | tion Format | ion: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if appl | icable): | <u></u> | | Jalmat Tan | sil-Yates- | Seven Rive | rs | |
| 4. Has the well ever I.e. sacks of cement | • | • | other zoi | ne(s)? Lis | t all such perfo | rated inte | rvals and giv | ve plugging | detail, |
| | | | | | | | | | |
| • <u> </u> | | | | | | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | | | | underlying | g or overlying th | he propos | ed injection | zone in this | area: |
| Jaimat Tates Gas Zt | nie, rop @ | | +0 | | | | | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | | Open hole | e 2906'-31 | 130' | | | | | |
| Acid, Shot, Fracture, | Squeeze: | None | | ····· | ······ | | ······ | | |
| | | | | | | | | | |

| OPERATOR: | | Grace Pet | roleum Co | orp. | | | | | |
|--------------------------------------------|------------------|--------------|-------------|------------|------------------|-------------|----------------------------------------|--------------|----------|
| WELL NAME & NUM | BER: | State of N | ew Mexico | D AA #3 | | | | | |
| WELL LOCATION: | 2310' FNL | , 330' FEL | | | н | 22 | T-23-S | R-36-E | Lea |
| | (Footage Locatio | | | | (Unil Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | ONSTRU | CTION DATA | | | | |
| | | | | Surface C | asina | | | | |
| Hole Size: | 9-7/8" | | - | | | | | | |
| Casing Size: | 7-5/8" @ 3 | 328' | - | | | | | | |
| Cemented with: | 175 | | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | - | | <u></u> | | _ | | |
| Method Determined: | Visual | | - | | | | | | |
| | · · · | | - | | | | | | |
| | | | Pr | oduction | Casing | | | | |
| Hole Size: | 6-3/4" | | _ | | | | | | |
| Casing Size: | 2-7/8" @ 3 | 3629' | - | | | | | | |
| Cemented with: | 200 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | n/a | | _ | | | | _ | | |
| Method Determined: | | | | | | | | | |
| Total Depth: | 3630' | | - | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | jection? | | | No | | | | |
| If no, for what purpos | | - | ly drilled? | | Oil and gas | s | | | |
| 2. Name of the Inject | tion Format | tion: | • | | n/a | | | | |
| 3. Name of Field or | Pool (if app | licable): | | ····· | Langlie Ma | attix Seve | n Rivers-Que | en-Graybu | rg |
| 4. Has the well ever | been perfo | rated in any | other zor | ne(s)? Lis | t all such perfo | brated inte | rvals and give | ve plugging | detail. |
| I.e. sacks of cement | - | - | | ., | · | | | | |
| Old perfs @ 3613'-30 | | | ollows: | | ,,,,,,,, | | | | |
| Set 100' cmt plug 50 | | | | b @ 2050 | 'w/ 30 sx (TOC | C 1950') | | | |
| Set 100' cmt plug @ | | | | | | | | | ······ |
| Spot 15 sx cmt @ su | | | | | | | | | |
| | | | | | | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | • | • | - | underlyin | g or overlying t | he propos | sed injection | zone in this | area: |
| | | | <u> </u> | | | | ······································ | | |
| <u></u> | | | | | | | | | |

Completion Record

| Perfs: | 3613'-3621' |
|--------------------------------|-----------------------------------------------|
| Acid, Shot, Fracture, Squeeze: | Frac w/ 15,000 gal refined oil & 30,000# sand |

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| OPERATOR: | Clayton W | illiams Er | ergy | | | | | |
|--------------------------|----------------------------------------------------|----------------|----------------------------------------|-----------------|-------------|--------------|--------------|----------|
| WELL NAME & NUM | BER: State of Ne | ew Mexic | o 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 C | ONSTRUC | TION DATA | | | | |
| | | 5 | Surface Cas | sing | | | | |
| Hole Size: | Unknown | _ | | | | | | |
| Casing Size: | 7" @ 4234' | - | | | | | | |
| Cemented with: | Unknown | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | - | | | | | | |
| Method Determined: | Visual | | | | | | | |
| | • | | | | | | | |
| | | Pr | roduction C | asing | | | | |
| Hole Size: | | _ | | | | | | |
| Casing Size: | | _ | | | | | | |
| Cemented with: | | sacks | (or) | | · | _ft3 | | |
| Top of Cement: | | - | | | | | | |
| Method Determined: | <u></u> | - | | | | | | |
| Total Depth: | 5095' OWDD | - | | | | | | |
| Addtitional Data | | | | | | | | |
| 1. Is this a new well | drilled for injection? | | | No | | | | |
| | e was the well original | ly drilled? | | Oil and gas | S | | | |
| 2. Name of the Injec | tion Formation: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if applicable): | | | Jalmat Tar | nsil-Yates- | Seven Rive | rs | |
| 4. Has the well ever | been perforated in any | other zo | ne(s)? List a | all such perfo | rated inter | vals and giv | e plugging | detail, |
| I.e. sacks of cement | or plug(s) used. | | | | | | | |
| PB from 5095' to 362 | | | ······································ | | <u> </u> | | | |
| | 575', P&A'd 6-22-93 as | follows: | | | | <u></u> | | |
| Set CIBP at 3120' w/ | | 10110110. | | ····· | | | | |
| | it 370'. Pumped 130 s | x cmt dov | vn 7" casing | and up 7" / 9 | -5/8" anni | ilus | | |
| Circulate 10 sx to su | | | <u></u> | خيرن حيالت غينت | | | | |
| | | | | | | | | |
| E. Cive the name of | d dontho of ony oil or o | | underly in a | | . | | | |
| | id depths of any oil or g one, Top @ approx. 30 | | underlying | or overlying ti | ne propos | ed injection | zone in this | area: |
| | ,, & oppion. 00 | · - | | | | · <u> </u> | | |
| | | | <u> </u> | | | | | |
| Completion Record | ! | | | | | | | |

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

Acid, Shot, Fracture, Squeeze: Unknown

| OPERATOR: | Gruy Petro | pleum Mai | nagement | <u></u> | | | | |
|-----------------------|-------------------------|--------------|-------------------|----------------|------------|----------------|--------------|----------------------------------------|
| WELL NAME & NUM | BER: Shell State | e #3 | | | | | | |
| WELL LOCATION: | 660' FSL, 660' FEL | | | Р | 22 | T-23-S | R-36-E | Lea |
| | (Footage Location) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | WELL C | ONSTRUC | TION DATA | | | | |
| | | 2 | <u>Surface Ca</u> | <u>ising</u> | | | | |
| Hole Size: | 17-1/2" | - | | | | | | |
| Casing Size: | 13-3/8" @ 287' | - | | | | | | |
| Cemented with: | 350 | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | - | | | | | | |
| Method Determined: | Visual | _ | | | | | | |
| | | Int | <u>ermediate</u> | Casing | | | | |
| Hole Size: | 11-1/4" | | | <u></u> | | | | |
| Casing Size: | 8-5/8" @ 1213' | | | | | | | |
| Cemented with: | 500 | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | _ 000.00 | (0)) | | | | | |
| Method Determined: | | - | | | | | | |
| | | - | | | | | | |
| | | <u>P1</u> | roduction | 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' | - | | | | | | |
| Addtitional Data | | | | | | | | |
| 1. Is this a new well | • | | | No | | | | |
| • • • | se was the well origina | lly drilled? | ····· | Oil and ga | S | | | |
| 2. Name of the Inject | | | | n/a | | | | |
| 3. Name of Field or I | Pool (if applicable): | | <u></u> | Jalmat Tar | nsil-Yates | -Seven Rive | rs | |
| | been perforated in any | y other zo | ne(s)? List | all such perfo | rated inte | rvals and give | ve plugging | detail, |
| I.e. sacks of cement | or plug(s) used. | | | n/a | <u> </u> | | | |
| 5. Give the name an | d depths of any oil or | gas zones | underlying | or overlying t | he propos | sed injection | zone in this | area: |
| | one, Top @ approx. 30 | | | | | | · | |
| | | | | | | | | ······································ |
| Completion Record | ! | | | | | | | |

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

| OPERATOR: | | Raptor Re | sources | | | | | | |
|----------------------------------------------|------------------|---------------|---------------------|-------------|--------------------|-------------|--------------|--------------|----------|
| WELL NAME & NUM | BER: | State of No | ew Mexico | A A/C- | 1 #98 | | | · | |
| WELL LOCATION: | 660' FNL, | 2310' FEL | | | В | 23 | T-23-S | R-36-E | Lea |
| | (Footage Locatio | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | ONSTR | UCTION DATA | | | | |
| | | | | Surface | Casing | | | | |
| Hole Size: | 12-1/4" | | - | | Casing | | | | |
| Casing Size: | 8-5/8" @ 3 | 323' | - | | | | | | |
| Cemented with: | 300 | | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | _ | | <u></u> | | | | |
| Method Determined: | Visual | | - | | • | | | | |
| | | | | | | | | | |
| | | | Pre | oductio | n 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' | | - | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for ir | jection? | | | No | | | | |
| If no, for what purpos | se was the v | well original | y drilled? | | Oil and gas | S | | | |
| 2. Name of the Injec | tion Forma | tion: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if app | licable): | | | Langlie Ma | attix Sever | Rivers-Que | en-Graybu | g |
| 4. Has the well ever I.e. sacks of cement | | | other zon | ie(s)? L | ist all such perfo | rated inter | vals and giv | ve plugging | detail, |
| 5. Give the name an Jalmat Yates Gas Zo | • | • | | underlyi | ng or overlying ti | he propos | ed injection | zone in this | area: |
| Completion Record | ! | | · <u> </u> | | | | | | |
| Perfs: | | Open hole | 3580'-35 | 95' | | | | | |
| Acid, Shot, Fracture, | Squeeze: | Open hole | e Vibro-fra | c @ 357 | '8'-3582' w/ 3 No | . 3 charge | es | | |
| | | Sand oil tr | eat w/10,0 | 000 gals | . lease crude & ' | 10,000# sa | and w/ 500# | Adomite | |

| OPERATOR: | | Raptor Res | sources | | | | | | |
|----------------------------------------------|------------------|----------------|------------|-------------|-----------------|-------------|--------------|--------------|------------|
| WELL NAME & NUM | BER: | State of Ne | ew Mexico | A A/C-1 # | 73 | | | | <u>~</u> _ |
| WELL LOCATION: | 660' FNL, | 1980' FWL | | | С | 23 | T-23-S | R-36-E | Lea |
| | (Footage Locatio | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL CO | ONSTRUC | TION DATA | | | | |
| | | | s | urface Ca | sing | | | | |
| Hole Size: | 13-3/4" | | | | | | | | |
| Casing Size: | 9-5/8" @ 3 | 325' | | | | | | | |
| Cemented with: | 300 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | | | | | | | |
| Method Determined: | Visual | <u> </u> | | | | | | | |
| | | | | | | | | | |
| | | | Pro | oduction (| Casing | | | | |
| Hole Size: | 8-3/4" | | | | | | | | |
| Casing Size: | 7" @ 353 | 7' | - | | | | | | |
| Cemented with: | 250 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | _ | | | | - | | |
| Method Determined: | | | _ | | | | | | |
| Total Depth: | 3577' | | - | | | | | | |
| Addtitional Data | | | | | | | | | , |
| 1. Is this a new well | drilled for ir | jection? | | | No | | | | |
| If no, for what purpos | e was the v | vell originall | y drilled? | | Oil and gas | 5 | | | |
| 2. Name of the Injec | tion Forma | lion: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if app | licable): | | | Langlie Ma | ttix Seven | Rivers-Que | een-Graybu | rg |
| 4. Has the well ever I.e. sacks of cement | • | - | other zon | e(s)? List | all such perfor | rated inter | vals and giv | ve plugging | detail, |
| 5. Give the name an Jalmat Yates Gas Zo | • | • • | | underlying | or overlying th | ne propose | ed injection | zone in this | area: |
| | | · | | | · | <u>-</u> | | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | | Open hole | 3527'-35 | 77' | | | | | |
| Acid, Shot, Fracture, | Squeeze: | Open hole | sand jette | ed at 3554 | for 2 hrs. | | | | |
| | | SOT w/ 10 |),000 gal. | refined oil | & 10,000# sar | nd | | | |

| OPERATOR: | | Raptor Res | sources | | | | | | |
|------------------------|------------------|---------------|-------------|-------------------|--------------------|-------------|---------------|---------------|-----------|
| WELL NAME & NUM | BER: | State of Ne | ew Mexico | D A A/C-1 | #65 | | ····· | | - <u></u> |
| WELL LOCATION: | 660' FNL, | 760' FWL | | | D | 23 | T-23-S | R-36-E | Lea |
| , | (Foolage Locatio | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | ONSTRU | JCTION DATA | | | | |
| | | | 9 | Surface (| Casing | | | | |
| Hole Size: | 13-1/4" | | - | | | | | | |
| Casing Size: | 9-5/8" @ 3 | 35' | • | | | | | | |
| Cemented with: | 300 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | | | | | | | |
| Method Determined: | Visual | | ŀ | | | | | | |
| | | _ | - | | | | | | |
| | | | <u>Pr</u> | oductior | Casing | | | | |
| Hole Size: | 8-3/4" | | _ | | | | | | |
| Casing Size: | 7" @ 3537 | n | - | | | | | | |
| Cemented with: | 250 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Unknown | | _ | | | | | | |
| Method Determined: | | | - | | | | | | |
| Total Depth: | 3569' | | - | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | jection? | | | No | | | | |
| If no, for what purpos | e was the v | vell original | y drilled? | | Oil and gas | s | | | |
| 2. Name of the Injec | tion Format | ion: | <u></u> | | n/a | | | | |
| 3. Name of Field or I | Pool (if appl | icable): | <u></u> | | Langlie Ma | ttix Seven | Rivers-Que | en-Graybur | g |
| 4. Has the well ever | been perfo | ated in any | other zor | n e(s)? Li | st all such perfo | rated inter | rvals and giv | ve plugging | detail, |
| I.e. sacks of cement | or plug(s) u | sed. | | | <u></u> | · | <u></u> | | ~ |
| | | | | | | | . <u> </u> | | |
| 5. Give the name an | • | | | underlyir | ng or overlying th | ne propos | ed injection | zone in this | area: |
| Jalmat Yates Gas Zo | one, Top @ | approx. 304 | 40' | | | | | | |
| Completion Record | ! | | | <u> </u> | | | | <u> </u> | |
| Perfs: | | Open hole | 3537'-35 | 69' | | | | | |
| Acid, Shot, Fracture, | Squeeze: | Open hole | e perforati | on w/Abr | asi Jet @ 3562' | w/10,000 | gals. refine | d oil & 10,00 | 0# sand |

| OPERATOR: | | Raptor Re | sources | Inc. | <u>, a</u> . ,, | <u></u> | | | |
|------------------------------------------------------------------------------------------------------|----------------------------------|--------------|------------------|-----------------|--------------------|-----------------|----------------------|-------------------|-----------------|
| WELL NAME & NUM | BER: | State of Ne | ew Mexi | co A A/C-1 | ¥72 | | | | |
| WELL LOCATION: | 1980' FNL, (Footage Location) | | | | E (Unit Letter) | 23 (Section) | T-23-S (Township) | R-36-E (Range) | Lea (County) |
| | | | WELL | CONSTRU | CTION DATA | | | | |
| | | | | Surface Ca | sing | | | | |
| Hole Size: | 13-3/4" | <u> </u> | • | | | | | | |
| Casing Size: | 9-5/8" @ 32 | 28' | | | | | 4 2 | | |
| Cemented with: Top of Cement: | 300 Surface | | sacks | (or) | | | _ft3 | | |
| Method Determined: | Visual | - <u>- ·</u> | - | | | | | | |
| | | | F | Production | Casing | | | | |
| Hole Size: | 8-3/4" | | <u>'</u> | Todaction | Casing | | | | |
| Casing Size: | 7" @ 3560' | | - | | | | | | |
| Cemented with: | 250 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | - | | | | | | |
| Method Determined: | | | - | | | | | | |
| Total Depth: | 3587' | | - | | | | | | |
| Tubing Size: Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing | 2-3/8"@ 33 | | - - able): | <u>Tubing D</u> | <u>etail</u> | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for inj | ection? | | | No | | | | |
| If no, for what purpos | | - | ly drilled | l? | Oil and ga | S | | | |
| 2. Name of the Injec | | | | | n/a | | | | |
| 3. Name of Field or I | Pool (if appli | cable): | | | Jalmat Tar | nsil-Yates | -Seven Rive | rs | |
| 4. Has the well ever I.e. sacks of cement | • | - | other z | one(s)? Lis | t all such perfo | orated inte | rvals and giv | ve plugging | detail, |
| 5. Give the name an Jalmat Yates Gas Zo | - | | - | es underlying | g or overlying t | he propos | sed injection | zone in this | area: |
| Completion Record | ! | <u></u> | | <u></u> | | | | | |
| Perfs: | | Open hole | a 3560'-: | 3587': PBTC |) 3513'; 3506'-: | 3482' | | | |
| Acid, Shot, Fracture, | Squeeze: | | | etted @ 356 | | | | <u></u> | |
| | - | | SOT w | v/10,000 gal | s refined oil & | 10,000# s | and | | · |
| · | · | 3506'-348 | 2' 1750 | gal. 7.5% H | CIW / 100 BS | | | | |

Frac w/ 22,000 gals. 40# linear gel W 99 T CO2 & 308 MCF N2 & 130,000# 12/20 Brady sand

•

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| OPERATOR: | Raptor | Resources I | nc. | | | | | |
|-------------------------------------------|------------------------|----------------|-------------------|----------------|-------------|---------------|---------------|----------------------------------------|
| WELL NAME & NUM | BER: State of | New Mexic | o A A/C-1 # | 27 | | | | |
| WELL LOCATION: | 1650' FNL, 1650' F | WL | | F | 23 | T-23-S | R-36-E | Lea |
| | (Footage Location) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | WELL C | ONSTRUC | TION DATA | | | | |
| | | | <u>Surface Ca</u> | sina | | | | |
| Hole Size: | 17 " | • | | | | | | |
| Casing Size: | 12-1/2" @ 276' | | | | | | | |
| Cemented with: | 350 | sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | | | | - | | |
| Method Determined: | Visual | | | | | | | |
| | | | | | | | | |
| | | Pi | roduction (| 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 | | | | | | | |
| Addtitional Data | | | | | | | | |
| 1. Is this a new well | drilled for injection? | | | No | | | | |
| If no, for what purpos | e was the well origi | nally drilled? |) | Oil and gas | s | | | |
| 2. Name of the Injec | tion Formation: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if applicable): | - <u>-</u> | | Jalmat Tar | nsil-Yates- | Seven Rive | rs | ······································ |
| 4. Has the well ever I.e. sacks of cement | | any other zo | ne(s)? List | all such perfo | rated inter | rvals and giv | /e plugging (| detail, |
| 5. Give the name an Jalmat Yates Gas Zo | | • | underlying | or overlying t | he propos | ed injection | zone in this | area: |
| Completion Record | | | | | | <u> </u> | | <u> </u> |
| Perfs: | Open h | nole 2880'-30 | 670' | | | | | |
| Acid, Shot, Fracture, | Squeeze: Origina | I TD 3260'; | well shut in | | ······ | | ······· | |
| | | ning to 3670 | | 9-10-51 | | | | |

| OPERATOR: | Raptor Res | sources I | nc. | | | | | |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------|----------------|--------------------|-----------------|---------------------------------------|-------------------|-----------------|
| WELL NAME & NUM | BER: State of Ne | w Mexic | o A A/C-1 #84 | <u>ا</u> | | | | |
| WELL LOCATION: | 1980' FNL, 2310' FEL (Foolage Location) | , <u>, , , , , , , , , , , , , , , , </u> | | G (Unit Letler) | 23 (Section) | T-23-S (Township) | R-36-E (Range) | Lea (County) |
| | | WELL C | CONSTRUCT | ION DATA | | | | |
| | | | Surface Casi | ng | | | | |
| Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: | 12-1/4" 9-5/8" @ 334' 300 Surface Visual | sacks | (or) | | | _ft3 | | |
| | | P | roduction Ca | sina | | | | |
| Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: Total Depth: | 8-3/4" 7" @ 3529' 250 Unknown 3585' | sacks | (or) | | | _ft3 | | |
| | 0.0/07 | | Tubing Deta | <u>ail</u> | | | | |
| Tubing Size: Lining Material: Type of Packer: Packer Setting Depth: Other Type of Tubing | 2-3/8" 2918' /Casing Seal (if applica | able): | | - | | | | |
| Addtitional Data | | | | | | | | |
| 1. Is this a new well | drilled for injection? | | | No | | | | |
| | e was the well original | y drilled? | · | Oil and gas | 3 | | | |
| Name of the Inject Name of Field or I | | | | _n/a Jalmat Tar | sil-Yates | -Seven Rive | | |
| | been perforated in any | other zo | ne(s)? List al | | · | ··· | | detail, |
| | id depths of any oil or g one, Top @ approx. 304 | | s underlying o | | ••• | ed injection | | area: |
| Completion Record | ! | <u></u> | | | | · · · · · · · · · · · · · · · · · · · | | <u> </u> |
| Perfs: | Open hole | 3519'-3 | 585'; PBTD 3 | 380': 2918'-3 | 3123' | | | |

| Sand | -oil treat w/ 10,000 gals. Refined oil & 10,000# sand |
|------------------|------------------------------------------------------------|
| 2918'-3123' Acic | dize w/ 1500 gals. Frac w/ 1400 bbl. & 200,000# 12/30 sand |

Acid, Shot, Fracture, Squeeze: Open hole Vibro-fraced @ 3548'-51' w/3 No. 3 charges

| OPERATOR: | | Raptor Res | ources Ir | 1C. | | <u> </u> | | | |
|-------------------------------------------|-------------------|-----------------|------------|-----------|--------------------|------------|---------------|--------------|----------|
| WELL NAME & NUM | BER: | State of Ner | w Mexico | A A/C-1 | #26 | | | | |
| WELL LOCATION: | 1650' FNL | , 1650' FEL | | | G | 23 | T-23-S | R-36-E | Lea |
| • | (Footage Location |)) | | <u> </u> | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | ONSTRU | ICTION DATA | | | | |
| | | | 5 | Surface (| Casing | | | | |
| Hole Size: | Unknown | | - | | | | | | |
| Casing Size: | 13-3/8" @ | 269' | | | | | | | |
| Cemented with: | Unknown | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | | | | | <u> </u> | | |
| Method Determined: | Visual | | | | | | | | |
| | | | | | | | | | |
| | | | Pr | oduction | Casing | | | | |
| Hole Size: | Unknown | | | | | | | | |
| Casing Size: | 8-5/8" @ 2 | 2777' | | | | | | | |
| Cemented with: | Unknown | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | | | | ····· | - | | |
| Method Determined: | | | | | | | | | |
| Total Depth: | 3148' | | | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well of | drilled for in | jection? | | | No | | | | |
| If no, for what purpos | e was the v | vell originally | / drilled? | | Oil and gas | | | | |
| 2. Name of the Injec | tion Format | ion: | | | n/a | | | | |
| 3. Name of Field or I | ⊃ool (if appl | icable): | | | Jaimat Tan | sil-Yates | Seven Rive | rs | |
| 4. Has the well ever I.e. sacks of cement | • | - | other zor | ne(s)? Li | st all such perfo | rated inte | rvals and giv | ve plugging | detail, |
| | | | | | | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | | | | underlyir | ig or overlying th | ne propos | ed injection | zone in this | area: |
| ••• | | | | | | | | | |
| Completion Record | | | | | | | | | |
| Perfs: | | Open hole | 2777'-31 | 48' | | | | | |
| Acid, Shot, Fracture, | Squeeze: | None | | | | | | | |

| OPERATOR: | | Raptor Re | sources Ir | nc. | | | · | . <u></u> | |
|----------------------------------------------|-------------------|---------------|-------------|-----------|--------------------|-------------|---------------|--------------|----------|
| WELL NAME & NUM | BER: | State of Ne | ew Mexico | D A A/C-1 | #105 | | | | |
| WELL LOCATION: | 2080' FNL | . 660' FEL | | | н | 23 | T-23-S | R-36-E | Lea |
| · · · · · · · · · · · · · · · · · · · | (Footage Location | | | | (Unit Letler) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | ONSTRI | JCTION DATA | | | | |
| | | | 5 | Surface (| Casing | | | | |
| Hole Size: | 11" | | - | | <u></u> | | | | |
| Casing Size: | 7-5/8" @ 3 | 23' | - | | | | | | |
| Cemented with: | 250 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | _ | | | | - | | |
| Method Determined: | Visual | | | | | | | | |
| | | | - | | | | | | |
| | | | Pr | oductio | n Casing | | | | |
| Hole Size: | 6-3/4" | | <u></u> | | | | | | |
| Casing Size: | 4-1/2" @ 3 | 669' | - | | | | | | |
| Cemented with: | 250 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | - | | | | | | |
| Method Determined: | | | _ | | | | | | |
| Total Depth: | 3669' | | - | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | jection? | | | No | | | | |
| If no, for what purpos | e was the v | vell original | ly drilled? | | Oil and gas | 3 | | | |
| 2. Name of the Injec | tion Format | ion: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if appl | icable): | | | Jalmat Tan | sil-Yates- | Seven Rive | rs | |
| 4. Has the well ever I.e. sacks of cement | - | - | other zor | ne(s)? Li | st all such perfo | rated inter | rvals and giv | ve plugging | detail, |
| | | | | | | | | | ····· |
| 5. Give the name an Jalmat Yates Gas Zo | • | | | underlyii | ng or overlying th | ne propos | ed injection | zone in this | area: |
| | · | | | | | | | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | | Unknown | perfs; oil | zone @ | 3646'-3650' | | | | |
| Acid, Shot, Fracture, | Squeeze: | | | | IE acid w/ 20 bal | lls | | | |

| OPERATOR: | Arco Per | rmian | | | <u> </u> | | <u> </u> | |
|-----------------------------------------|------------------------|---------------|------------------|------------------|-------------|---------------|--------------|----------|
| WELL NAME & NUM | BER: Sinclair | A State #1 | | | | | | |
| WELL LOCATION: | 1650' FSL, 990' FE | L | | 1 | 23 | T-23-S | R-36-E | Lea |
| • | (Foolage Location) | | | (Unit Letter) | (Section) | (Township) | (Range) | (Counly) |
| | | WELLO | ONSTRU | CTION DATA | | | | |
| | | | Surface Ca | | | | | |
| Hole Size: | Unknown | 2 | | ISIIIY | | | | |
| Casing Size: | 10-3/4" @ 225' | | | | | | | |
| Cemented with: | Unknown | sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | | | | - | | |
| Method Determined: | Visual | | | | | | | |
| | | | | | | | | |
| | | <u>Int</u> | <u>ermediate</u> | Casing | | | | |
| Hole Size: | Unknown | | | | | | | |
| Casing Size: | 7-5/8" @ 1235' | | | | | | | |
| Cemented with: | Unknown | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Unknown | | | | | | | |
| Method Determined: | <u> </u> | | | | | | | |
| | | Pi | roduction | Casing | | | | |
| Hole Size: | Unknown | <u>نى</u> | ougenen | <u>ouoing</u> | | | | |
| Casing Size: | 5-1/2" @ 2770' | ·· | | | | | | |
| Cemented with: | Unknown | sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | 、 , | | | | | |
| Method Determined: | | | | | | | | |
| Total Depth: | 3300' | | | | | | | |
| Addtitional Data | | | | | | | | |
| 1. Is this a new well | drilled for injection? | | | No | | | | |
| If no, for what purpos | se was the well origir | ally drilled? | | Oil and ga | S | | | |
| 2. Name of the Injec | tion Formation: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if applicable): | | | Jalmat Tai | nsil-Yates | -Seven Rive | ers | |
| 4. Has the well ever | been perforated in a | ny other zo | ne(s)? Lisi | all such perfo | brated inte | ervals and gi | ve plugging | detail, |
| I.e. sacks of cement | or plug(s) used. | | | | | | ······ | |
| | | | ······ | | | ······ | | |
| 5. Give the name an Jalmat Yates Gas Zo | • • | | underlying | g or overlying t | he propos | sed injection | zone in this | area: |
| | | | | | | | | |
| Completion Record | ! | | | | | | | |
| Perfs: | Open h | ole 2770'-3: | 300' | | | | | |

Acid, Shot, Fracture, Squeeze: None

| OPERATOR: | | Arco Perm | ian | | | | | | |
|--------------------------------------------|------------------|------------|-------------|-------------|----------------|------------|---------------|--------------|----------|
| WELL NAME & NUM | BER: | Sinclair A | State #5 | | <u></u> | | | | |
| WELL LOCATION: | 1980' FSL | , 660' FEL | | | 1 | 23 | T-23-S | R-36-E | Lea |
| • | (Foolage Locatio | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL C | ONSTRUC | TION DATA | | | | |
| | | | | | | | | | |
| Hole Size: | 11" | | 3 | Surface Ca | sing | | | | |
| Casing Size: | 8-5/8" @ 2 | 290' | | | | | | | |
| Cemented with: | 200 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | | | | | - | | |
| Method Determined: | Visual | | | | | | | | |
| | | | - | | | | | | |
| | | | D= | advation (| a nina | | | | |
| Hole Size: | 7-7/8" | | <u> </u> | oduction C | asing | | | | |
| Casing Size: | 4-1/2" @ 3 | 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 in | jection? | | | No | | | | |
| If no, for what purpos | | - | y drilled? | | Oil and gas | S | | | |
| 2. Name of the Injec | tion Format | ion: | | | n/a | | | · | |
| 3. Name of Field or I | Pool (if appl | icable): | <u></u> | | Langlie Ma | ttix Sever | n Rivers-Que | een-Graybu | rg |
| 4. Has the well ever I.e. sacks of cement | • | - | other zor | e(s)? List | all such perfo | rated inte | rvals and giv | ve plugging | detail, |
| | | | · | | | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | • | | | underlying | or overlying t | he propos | ed injection | zone in this | area: |
| | | | | | | | | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | | 3695'-369 | 9', 3666'-: | 3668'. 3642 | '-3648', 3570' | -3578'. 35 | 548'-3552' | | |
| Acid, Shot, Fracture, | Squeeze: | 3695'-369 | | | | , | | | |
| | | 3666'-366 | 8' acidize | d 250 gals. | | | | | |
| | | | | d 250 gals. | | | | | |
| | | 3570'-357 | | | | | | | |
| | | 3548'-355 | 2' acidize | d 250 gals. | | | | | |

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| OPERATOR: | Arco Perm | nian | | | | | | |
|--------------------------------------------------------------------------------------|------------------------------------------------------|-------------|-----------------|------------------|-------------|--------------|----------------------------------------|----------|
| WELL NAME & NUM | BER: Sinclair A | State #10 | 0 | | | | | |
| WELL LOCATION: | 990' FSL, 990' FWL | | | М | 23 | T-23-S | R-36-E | Lea |
| | (Footage Location) | | | (Unil Leller) | (Section) | (Township) | (Range) | (County) |
| | | WELL | CONSTRU | CTION DATA | | | | |
| | | | Surface Ca | asina | | | | |
| Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: | 12-1/4" 8-5/8" @ 340' 200 Surface Visual | sacks | (or) | | | _ft3 | | |
| | | P | Production | Casing | | | | |
| Hole Size: | 7-7/8" | - | | <u> </u> | | | | |
| Casing Size: Cemented with: | <u>5-1/2" @ 3550'</u> 700 | _ sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | _ 30013 | (01) | <u> </u> | | _110 | | |
| Method Determined: | | _ | | | | | | |
| Total Depth: | 3550' | _ | | | | | | |
| | | | <u>Tubing D</u> | etail | | | | |
| Tubing Size: | 2-3/8" @ 3241' | - | | | | | | |
| Lining Material: Type of Packer: | | | | | | | | |
| Packer Setting Depth: | | _ | | | | | | |
| Other Type of Tubing | g/Casing Seal (if applic | able): | | | | | ······································ | |
| Addtitional Data | | | | | | | | |
| | | | | | | | | |
| 1. Is this a new well | drilled for injection? se was the well original | lly drilled | 2 | No Oil and ga | | | | ···· |
| 2. Name of the Inject | - | ny urmeu | · | n/a | 5 | | | |
| 3. Name of Field or | | | | Jalmat Tar | nsil-Yates- | Seven Rive | rs | |
| 4. Has the well ever l.e. sacks of cement | been perforated in any or plug(s) used. | y other zo | | t all such perfo | | _ | ve plugging | detail, |
| | nd depths of any oil or gone, Top @ approx. 30 | - | es underlying | g or overlying t | he propos | ed injection | zone in this | area: |
| Completion Record | | <u></u> | | | | | <u></u> | |
| Perfs: | 2980'-34 | | ר 3520' | | | | | |

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

| OPERATOR: | | Arco Perm | ian | | | | | | |
|----------------------------------------------|----------------|---------------|----------------------------------------------------------------------------------------------------------------|----------------------|----------------|-------------|----------------------------------------|---------------|----------|
| WELL NAME & NUM | BER: | Sinclair A | State #9 | | | | | | |
| WELL LOCATION: | 660' FSL | , 660' FEL | | | Р | 23 | T-23-S | R-36-E | Lea |
| | (Footage Local | ion) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | | | | | | | |
| | | | WELL (| CONSTRUC | TION DATA | | | | |
| | | | | <u>Surface Ca</u> | <u>sing</u> | | | | |
| Hole Size: | | | _ | | | | | | |
| Casing Size: | 8-5/8" @ | 277' | - | | | | | | |
| Cemented with: | 150 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | _ | | | | | | |
| Method Determined: | Visual | | - | | | | | | |
| | • | | | | | | | | |
| | | | Þ | roduction C | asina | | | | |
| Hole Size: | 7-7/8" | | <u>r</u> | | asing | | | | |
| Casing Size: | 4-1/2" @ | 3750' | - | | | | | | |
| Cemented with: | 250 | 0/00 | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknowr | 1 | _ | (0.) | | | | | |
| Method Determined: | | | - | | | | | | |
| Total Depth: | 3750' | | - | | | | | | |
| | | | _ | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for i | injection? | | | No | | | | |
| If no, for what purpos | se was the | well original | lly drilled? | ? | Oil and ga | s | | | |
| 2. Name of the Inject | tion Forma | ation: | | | n/a | | | | |
| 3. Name of Field or | Pool (if ap | plicable): | _ | | Langlie Ma | attix Sever | n Rivers-Qu | een-Graybu | rg |
| | | | . 44 | (.) 0 | | | | | |
| 4. Has the well ever | - | | y other zo | one(s)? List | all such perto | orated inte | rvais and giv | ve plugging | detail, |
| I.e. sacks of cement | | | | | ······ | | | | |
| Old perfs @ 3385'-36 Set CIBP at 3340' w/ | | | the second s | | | | ····· | | |
| Set CR at 620' w/ 15 | | | | | | | | | • |
| Set cmt plug at 550' | | | | urface) | | | | | |
| Oct on plug at 000 | W/ 200 3X | | | | | | ······································ | ····· | |
| 5. Give the name ar Jalmat Yates Gas Zo | • | • | - | s underlying | or overlying t | he propos | sed injection | zone in this | area: |
| | | | | | | | | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | 3385'-34 | 19', 3591'-3 | <u>637', 364</u> | 6'-3654', 36 | 64'-3668' | | | | |
| Acid, Shot, Fracture, | Squeeze: | 3664'-366 | 68' Acidiz | ed w/250 ga | ls. NEA. Rea | cidized w/ | 1000 gals. | | |
| <u></u> , | | RBP @ 3 | | | 4'. Acidized 5 | | 5% NEA. | | |
| | | | | | als. 15% retar | | <u> </u> | | |
| | | CIBP @ | | | 05', 3608', 36 | | | 8', 3635', 36 | 37' |
| | | | | | gals. Oil & 2 | | and | | |
| | | CIBP @ | 3460'. Pe | <u>ərf. 3385'-34</u> | 19' (10 shots) |) | | | |

| OPERATOR: | <u> </u> | Raptor Re | sources | | | | | | |
|-----------------------------------------|-------------------|---------------|------------|---------------------------|-------------------|-------------|---------------|--------------|----------|
| VELL NAME & NUM | BER: | State A A/ | C-1 #107 | 7 | | | | | |
| WELL LOCATION: | 1980' FSL, | 660' FWL | | | L | 24 | T-23-S | R-36-E | Lea |
| | (Foolage Location |) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL | CONSTRU | CTION DATA | | | | |
| | | | | Surface C | asing | | | | |
| Hole Size: | 11" | | _ | | | | | | |
| Casing Size: | 7-5/8" @ 3 | 25' | - | | | | | | |
| Cemented with: | Circulated | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | _ | | | | | | |
| Method Determined: | Visual | | | | | | | | |
| | · | | - | | | | | | |
| | | | Ē | Production | Casing | | | | |
| Hole Size: | 6-3/4" | | | | | | | | |
| Casing Size: | 4-1/2" @ 3 | 664' | _ | | | | | | |
| Cemented with: | 250 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | 2620' | | _ | | | | _ | | |
| Method Determined: | | | - | | | | | | |
| Total Depth: | 3664' | | - | | | | | | |
| | | | | <u>Tubing L</u> | Detail | | | | |
| Tubing Size: | 2-3/8" @ 3 | 8176' | | Tubing | | | | | |
| Lining Material: | | | - | | | | | | |
| Type of Packer: | | | | | | | | | |
| Packer Setting Depth: | <u></u> | | | | | | | | |
| Other Type of Tubing | /Casing Se | al (if applic | able): | | | | | | |
| | | | · | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for in | jection? | | | No | | | | |
| If no, for what purpos | | - | ly drilled | ? | Oil and ga | S | | | |
| 2. Name of the Inject | tion Format | ion: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if appl | icable): | | | Jalmat Tai | nsil-Yates | -Seven Rive | ers | |
| 4. Has the well ever | | | y other z | one(s)? Lis | at all such perfo | brated inte | rvals and gi | ve plugging | detail, |
| I.e. sacks of cement | or plug(s) u | sed. | <u></u> | <u> </u> | | | <u> </u> | | |
| 5. Give the name an Jalmat Yates Gas Zo | - | - | - | es underlyin | g or overlying t | he propos | sed injection | zone in this | area: |
| | | | | | | | | | |
| Completion Record | t | | | | | | | | |
| | - | | | | | | | | |
| Perfs: | | 3515'-364 | 4', 3306 | 6'-3351', 29 [.] | 12'-3114'; PBTI | D 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# |
| | |

| /ELL NAME & NUM | BER: Lankford | d #3 | | | | | | |
|-----------------------|------------------------|---------------|---------------------------------------|----------------|-------------|---------------|-------------|----------|
| VELL LOCATION: | 660' FNL, 660' FW | L | | D | 25 | T-23-S | R-36-E | Lea |
| | (Foolage Localion) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | | | | | | |
| | | WELL | CONSTRUC | TION DATA | | | | |
| | | | <u>Surface Ca</u> | ising | | | | |
| lole Size: | 12-1/4" | | | | | | | |
| asing Size: | 8-5/8" @ 1211' | | | | | | | |
| Cemented with: | 850 | sacks | (or) | | | _ft3 | | |
| op of Cement: | Surface | | | | | | | |
| lethod Determined: | Visual | · | | | | | | |
| | | | Production | Casing | | | | |
| lole Size: | 7-7/8" | <u> </u> | Toduction | Justing | | | | |
| Casing Size: | 5-1/2" @ 3724' | | | | | | | |
| cemented with: | 850 | sacks | (or) | | | ft3 | | |
| op of Cement: | Unknown | | (•••) | | | | | |
| lethod Determined: | | | | | | | | |
| otal Depth: | 3750' | | | | | | | |
| otal Deptil. | <u> </u> | | | | | | | |
| | | | <u>Tubing D</u> | <u>etail</u> | | | | |
| ubing Size: | 2-3/8" @ 3646' | | | | | | | |
| ining Material: | | | | | | | | |
| ype of Packer: | | | | | | | | |
| Packer Setting Depth: | | | | | | | | |
| Other Type of Tubing | g/Casing Seal (if app | licable): | ······· | | | | | |
| | | | | | | | | |
| ddtitional Data | | | | | | | | |
| . Is this a new well | drilled for injection? | | | No | | | | |
| f no, for what purpos | se was the well origin | nally drilled | ? | Oil and ga | s | | | |
| 2. Name of the Inject | ction Formation: | | | n/a | | | | |
| 3. Name of Field or | Pool (if applicable): | | · · · · · · · · · · · · · · · · · · · | Langlie Ma | attix Sever | Rivers-Qu | een-Graybu | rg |
| | been perforated in a | any other z | one(s)? Lis | all such perfo | orated inte | rvals and giv | ve plugging | detail, |
| .e. sacks of cement | | | <u> </u> | | | | | |
| | 664'. PA'd 6-5-89 as | | | | | · | | ··· |
| | / 25 sx cmt on top (T | | | | | | | |
| | 96' w/ 35 sx on top (1 | | | | | | ······· | |
| Spot cmt plug at 135 | 53' w/ 25 sx on top (1 | | | | | | | |
| Spot cmt plug at 30' | | | | | | | | |

Jalmat Yates Gas Zone, Top @ approx. 3040'

| Completion Record | | |
|--------------------------------|---------------------------------------------------------------|--|
| Perfs: | 3445-3664'; PBTD 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 | |

| OPERATOR: | Rhombus | Operatin | Ig | | | | | |
|-------------------------------------------|-------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|---------------------|-------------|---------------|--------------|----------|
| WELL NAME & NUM | BER: Lankford | #4 | | | | | | |
| WELL LOCATION: | 1650' FNL, 330' FWI | | | E | 25 | T-23-S | R-36-E | Lea |
| | (Foolage Localion) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | WELL | CONSTRUC | | | | | |
| | | <u> </u> | | | | | | |
| Hole Size: | 12-1/8" | | <u>Surface Ca</u> | sing | | | | |
| Casing Size: | 8-5/8" @ 416' | - | | | | | | |
| Cemented with: | 450 | sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | _ | \ = - j | · <u>·····</u> ···· | | | | |
| Method Determined: | Visual | | | | | | | |
| | | — | | | | | | |
| | | | Production C | Seina | | | | |
| Hole Size: | 7-7/8" | <u>r</u> | | asing | | | | |
| Casing Size: | 5-1/2" @ 3800' | | | | | | | |
| Cemented with: | 850 | sacks | (or) | | | ft3 | • | |
| Top of Cement: | Surface | _ | () | | | | | |
| Method Determined: | Visual | _ | | | | | | |
| Total Depth: | 3800' | | | | | | | |
| · • • • • • • • • • • | | | | | | | | |
| | | | <u>Tubing De</u> | etail | | | | |
| Tubing Size: | 2" | | | | | | | |
| Lining Material: | | | | | | | | |
| Type of Packer: | | | | | | | | |
| Packer Setting Depth: | 3658' | | | | | | | |
| Other Type of Tubing | /Casing Seal (if appli | cable): | | | | | | |
| Addtitional Data | | | | | | | | |
| | deille d'fan inie stien 2 | | | Na | | | | |
| 1. Is this a new well | e was the well originate | lly drillod | 2 | No Oil and gas | | | | |
| 2. Name of the Injec | - | iny urmeu | | n/a | <u>></u> | | | |
| Name of Field or I | | | | | attix Sever | n Rivers-Qu | een-Gravbu | |
| | | | | | | | | - |
| 4. Has the well ever I.e. sacks of cement | been perforated in ar or plug(s) used. | y other z | one(s)? List | all such perfo | prated inte | rvals and giv | ve plugging | detail, |
| | <u></u> | | <u> </u> | | | | | |
| | id depths of any oil or one, Top @ approx. 3 | - | es underlying | or overlying t | he propos | ed injection | zone in this | area: |
| <u></u> | | | | · | <u> </u> | | | |
| Completion Record | ! | | | | | | | |
| Perfs: | 3416'-36 | 60'; PBT | D 3745' | | | | | |
| Acid, Shot, Fracture, | | | and the second | | | | | |

| OPERATOR: | Conoco | <u></u> | | | | | | |
|--------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------|---------------------------|----------------|--------------|--------------|--------------|----------|
| WELL NAME & NUM | BER: Lynn B-1 # | ¥17 | | | | | | |
| WELL LOCATION: | 810' FNL, 660' FEL | | | А | 26 | T-23-S | R-36-E | Lea |
| | (Footage Location) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | 14/-11 | CONCERNS | | | | | |
| | | WELL | | TION DATA | | | | |
| Hole Size: Casing Size: Cemented with: Top of Cement: Method Determined: | 12-1/4" 8-5/8" @445' 350 Surface Visual | - sacks - | <u>Surface Ca</u> (or) | <u>sing</u> | | _ft3 | | |
| | | c | Production (| Socia | | | | |
| Hole Size: | 7-7/8" | <u>r</u> | Production (| Jasing | | | | |
| Casing Size: | 4-1/2" @ 3270' | - | 4 | | | <i></i> | | |
| Cemented with: Top of Cement: | 960 Unknown | _sacks | (or) | | | _ft3 | | |
| Aethod Determined: | | - | | | | | | |
| Total Depth: | 3270' | - | | | | | | |
| | | | Tubing De | etail | | | | |
| Tubing Size: | 2-3/8" @3203' | ~ | | | | | | |
| Lining Material: Type of Packer: | | | | — | | | | |
| Packer Setting Depth: | | | | | | | | |
| Other Type of Tubing | g/Casing Seal (if applic | able): | <u> </u> | | | | · | |
| | | | | | | | | |
| Addtitional Data | | | | | | | | |
| 1. Is this a new well | - | | | No | | | | |
| | se was the well origina | lly drilled | ? | Oil and ga | s | | | |
| Name of the Inject Name of Field or | | <u> </u> | | | nsil-Yates- | Seven Rive | rs | |
| | been perforated in any | y other ze | one(s)? List | all such perfo | orated inter | rvals and gi | ve plugging | detail, |
| I.e. sacks of cement | or plug(s) used. | | | | | <u> </u> | | |
| | nd depths of any oil or pone, Top @ approx. 30 | - | es underlying | or overlying t | he propos | ed injection | zone in this | area: |
| | | | | | | | | |
| Completion Record | ! | | | | | | | |
| Perfs: | 2914'-300 | 04', 3026 | -3102', 3108 | 3'-3204'; PBT | D 3225' | | | |

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

| OPERATOR: | Conoco | | | | | | | |
|-----------------------|-------------------------------------------------|-------------------|------------------|----------------|------------|----------------------------------------|--------------|----------|
| WELL NAME & NUM | BER: Lynn B-1 | #16 | | _ | | · | | |
| WELL LOCATION: | 660' FNL, 660' FEL | | | А | 26 | T-23-S | R-36-E | Lea |
| • | (Foolage Location) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | | | | | | |
| | | <u>WELL</u> | CONSTRUC | TION DATA | | | | |
| | | | Surface Ca | <u>sing</u> | | | | |
| Hole Size: | 12-1/4" | _ | | | | | | |
| Casing Size: | 8-5/8" @ 400' | _ | | | | | | |
| Cemented with: | 250 | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | | | | | | |
| Method Determined: | Visual | <u> </u> | | | | | | |
| | | | | | | | | |
| | | ŀ | Production C | asing | | | | |
| 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' | | | | | | | |
| | | | <i>-</i> | | | | | |
| Tubine Oine | 0.0/01 @ 04001 | | <u>Tubing De</u> | tail | | | | |
| Tubing Size: | 2-3/8" @ 3106' | - | | | | | | |
| Lining Material: | <u></u> | | | | | | | |
| Type of Packer: | SN | | | | | | | |
| Packer Setting Depth: | 3074' | | | | | | | |
| | /Casing Seal (if applic | | <u></u> | | | | | |
| Addtitional Data | | | | | | | | |
| | | | | | | | | |
| 1. Is this a new well | • | | | No | | | | |
| · · · | e was the well origina | lly drilled | ? | Oil and gas | <u> </u> | | | |
| 2. Name of the Injec | | | | n/a | | | ······ | |
| 3. Name of Field or I | Pool (if applicable): | | | Jalmat Lar | sil-Yates | -Seven Rive | rs | <u> </u> |
| 4. Has the well ever | been perforated in an | y other z | one(s)? List | all such perfo | rated inte | rvals and giv | ve plugging | detail, |
| I.e. sacks of cement | | | | | | - | | |
| | | | | | | ************************************** | , | |
| | d depths of any oil or one, Top @ approx. 30 | | es underlying | or overlying t | he propos | ed injection | zone in this | area: |
| | · | | | <u> </u> | | | | |
| Completion Record | ! | | | | | | | |
| Perfs: | Open hol | <u>e 2900'-</u> : | 3400' | | | | | |
| Acid, Shot, Fracture, | Squeeze: None | | | | | | | |

| OPERATOR: | | Conoco | | | | | | | | | | |
|--------------------------------------------|------------------|----------------|------------|-------------|-----------------|-------------|--------------|---------------|---------------------------------------|--|--|--|
| WELL NAME & NUM | BER: | Lynn B-1 #3 | | | | | | | | | | |
| WELL LOCATION: | 990' FNL, | 1650' FWL | | | С | 26 | T-23-S | R-36-E | Lea | | | |
| • | (Foolage Localio | n) | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) | | | |
| | | | WELL C | ONSTRUC | CTION DATA | | | | | | | |
| | | | s | Surface Ca | sina | | | | | | | |
| Hole Size: | Unknown | | 2 | | <u></u> | | | | | | | |
| Casing Size: | 7-5/8" @ | 1214' | - | | | | | | | | | |
| Cemented with: | 500 | | sacks | (or) | | | ft3 | | | | | |
| Top of Cement: | Surface | | | | | | - | | | | | |
| Method Determined: | Visual | | · , | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Pro | oduction | <u>Casing</u> | | | | | | | |
| Hole Size: | Unknown | | - | | | | | | | | | |
| Casing Size: | 5-1/2" @ 2 | 2882' | - | | | | | | | | | |
| Cemented with: | 690 | | sacks | (or) | | | _ft3 | | | | | |
| Top of Cement: | Unknown | | | | | | | | | | | |
| Method Determined: | | | _ | | | | | | | | | |
| Total Depth: | 3385' | | - | | | | | | | | | |
| Addtitional Data | | | | | | | | | | | | |
| 1. Is this a new well | drilled for ir | jection? | | | No | | | | | | | |
| If no, for what purpos | e was the v | vell originall | y drilled? | | Oil and gas | 5 | | | | | | |
| 2. Name of the Injec | tion Format | tion: | | | n/a | | | | | | | |
| 3. Name of Field or I | Pool (if app | licable): | | | Langlie Ma | ttix Seven | Rivers-Que | en-Graybu | g | | | |
| 4. Has the well ever | been perfo | rated in any | other zon | ie(s)? List | all such perfor | rated inter | vals and giv | ve oluaaina (| detail. | | | |
| I.e. sacks of cement | • | - | | | • | | | | · · · · · · · · · · · · · · · · · · · | | | |
| | | <u></u> | <u></u> | | | <u></u> | | | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | - | | | underlying | or overlying th | ne propos | ed injection | zone in this | area: | | | |
| | | | | | | | | | | | | |
| Completion Record | ! | | | | | | | | | | | |
| Perfs: | | Open hole | 2882'-33 | 85' | | | | | | | | |
| Acid, Shot, Fracture, | Squeeze: | | | | | | | | | | | |
| | | | | | | | | | | | | |

| OPERATOR: | | Conoco | | | | | | | |
|-------------------------------------------|------------------|-------------------------------|-------------|---------------------------------------|----------------|------------|---------------------------------------|----------|----------------|
| WELL NAME & NUM | BER: | Lynn B-1 # | 1 | | | | | | |
| WELL LOCATION: | 2310' FSL | , 2310' FEL | · | | J | 26 | T-23-S | R-36-E | Lea |
| | (Foolage Locatio | in} | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) |
| | | | WELL | CONSTRUC | TION DATA | | | | |
| | | | | | | | | | |
| Hole Size: | Unknown | | | Surface Ca | sing | | | | |
| Casing Size: | 20" @ 41' | | - | | | | | | |
| Cemented with: | 76 | . <u></u> | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Surface | | | (01) | | | | | |
| Method Determined: | | | | | | | | | |
| Method Determined. | Visual | | - | | | | | | |
| | | | In | termediate (| Casing | | | | |
| Hole Size: | Unknown | | - | | | | | | |
| Casing Size: | 8-1/4" @ 3 | 2873' | _ | | | | | | |
| Cemented with: | 300 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | - | | | | | | |
| Method Determined: | | | - | | | | | | |
| | <u></u> | | - | | | | | | |
| | | | P | Production C | asing | | | | |
| Hole Size: | Unknown | | | | | | | | |
| Casing Size: | 7" @ 314 | | - | | | | | | |
| Cemented with: | 100 | | sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | - | | <u> </u> | | _ | | |
| Method Determined: | | | - | | | | | | |
| Total Depth: | 3614' | | _ | | | | | | |
| | | | | Tubing De | Anil | | | | |
| Tubine Oine | 07 | | | <u>Tubing De</u> | <u>ildii</u> | | | | |
| Tubing Size: | <u>Z'</u> | | - | | | | | | |
| Lining Material: | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| Type of Packer: | | | | ····· | | | | | |
| Packer Setting Depth: | <u>3930'</u> | -1 /:6 | <u>_</u> | | | | | | |
| Other Type of Tubing | Casing Si | eal (ir applic | able): | | | | | <u> </u> | |
| | | | | | | | | | |
| <u>Addtitional Data</u> | | | | | | | | , . | |
| 1. Is this a new well | | | | | No | | | | |
| If no, for what purpos | | - | lly drilled | ? | Oil and ga | S | | | |
| 2. Name of the Injec | | | | | n/a | ····· | | | |
| 3. Name of Field or I | Pool (if app | licable): | | | Jalmat Ta | nsil-Yates | -Seven Rive | ers | |
| 4. Has the well ever I.e. sacks of cement | | | y other zo | | all such perfo | | - | | detail, |
| 5. Give the name an Jalmat Yates Gas Zo | - | | + | s underlying | • • | • • | sed injection | | ar ea : |
| Completion Record | ! | <u></u> | · | ······ | | | · · · · · · · · · · · · · · · · · · · | | |
| Dorfe [,] | | Open hel | o 31/01 1 | מדמי סמדה | 2450' | | | | |
| Perfs: | | Open noli | U J 140'-3 | 3458'; PBTD | 3430 | | | | |

Acid, Shot, Fracture, Squeeze:

| OPERATOR: | | Conoco | <u>.</u> | | | | | | |
|----------------------------------------------|------------------|---------------------------------------|------------|-----------------|---------------------------------------|-------------|--------------|----------------------------------------|----------|
| WELL NAME & NUM | BER: | Lynn B-1 # | 4 | | | | | | |
| WELL LOCATION: | 990' FSL, | 990' FWL | | | М | 26 | T-23-S | R-36-E | Lea |
| • | (Foolage Localio | | | | (Unit Letter) | (Section) | (Township) | (Range) | (Counly) |
| | | | WELL C | ONSTRU | JCTION DATA | | | | |
| | | | ź | Surface (| Casing | | | | |
| Hole Size: | Unknown | | | | | | | | |
| Casing Size: | 10-3/4" @ |) 339' | • | | | | | | |
| Cemented with: | 300 | | sacks | (or) | | | _ft3 | | |
| Top of Cement: | Surface | | | | | | | | |
| Method Determined: | Visual | | - | | | | | | |
| | | | 0 | o du otio u | Cooling | | | | |
| Hole Size: | Unknown | | <u> </u> | <u>oductior</u> | i Casing | | | | |
| Casing Size: | 5-1/2" @ | | - | | | | | | |
| Cemented with: | 865 | 2005 | - sacks | (or) | | | ft3 | | |
| Top of Cement: | Unknown | | - | (0.7 | | | _ 10 | | |
| Method Determined: | | | - | | | | | | |
| Total Depth: | 3455' | · · · · · · · · · · · · · · · · · · · | - | | | | | | |
| Addtitional Data | | | | | | | | | |
| 1. Is this a new well | drilled for ir | njection? | | | No | | | | |
| If no, for what purpos | e was the | well originall | y drilled? | | Oil and gas | S | | | |
| 2. Name of the Injec | tion Forma | tion: | | | n/a | | | | |
| 3. Name of Field or I | Pool (if app | licable): | | | Jalmat Tar | nsil-Yates- | Seven Rive | rs | |
| 4. Has the well ever I.e. sacks of cement | | | other zo | ne(s)? Li | st all such perfo | rated inter | vals and giv | ve plugging | detail, |
| | | | | | | | | ······································ | |
| 5. Give the name an Jalmat Yates Gas Zo | | | | underlyir | ng or overlying t | he propos | ed injection | zone in this | area: |
| | | | | | | | | | |
| <u></u> | | | | | · | | | | |
| Completion Record | ! | | | | | | | | |
| Perfs: | | Open hole | 2885'-34 | 155' | | | | • | |
| Acid, Shot, Fracture, | Squeeze: | | | | · · · · · · · · · · · · · · · · · · · | | | | <u></u> |
| | - | | | | | | | | |
| | | | | | | | | | |

.

| OPERATOR: | | HCW Exploration | | | | | | | | | | |
|----------------------------------------------|-------------------|-----------------|------------|-------------------|----------------------------------------|------------|--------------|--------------|-------------|--|--|--|
| WELL NAME & NUM | George Etz #4 | | | | | | | | | | | |
| WELL LOCATION: | 1650' FSL | , 990' FEL | | | ł | 27 | T-23-S | R-36-E | Lea | | | |
| | (Footage Location | | | | (Unit Letter) | (Section) | (Township) | (Range) | (County) | | | |
| | | | WELL C | ONSTRUC | TION DATA | | | | | | | |
| | | | <u>.</u> | <u>Surface Ca</u> | sing | | | | , | | | |
| Hole Size: | 11" | | | | | | | | | | | |
| Casing Size: | 8-5/8" @ 3 | 804' | - | | | | | | | | | |
| Cemented with: | 150 | | sacks | `(or) | <u></u> | | _ft3 | | | | | |
| Top of Cement: | Unknown | | - | | | | | | | | | |
| Method Determined: | | | , | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | <u>Pr</u> | oduction | Casing | | | | | | | |
| Hole Size: | 6-3/4" | | | | | | | | | | | |
| Casing Size: | 5-1/2" @ 2 | 2970' | - | | | | | | | | | |
| Cemented with: | 400 | | sacks | (or) | | | _ft3 | | | | | |
| Top of Cement: | Unknown | | _ | | | | | | | | | |
| Method Determined: | <u></u> | | _ | | | | | | | | | |
| Total Depth: | 3550' | | - | | | | | | | | | |
| Addtitional Data | | | | | | | | | | | | |
| 1. Is this a new well | drilled for in | iection? | | | Νο | | | | | | | |
| If no, for what purpos | | - | y drilled? | | Oil and gas | | | | | | | |
| 2. Name of the Injec | | - | | | n/a | | | | | | | |
| 3. Name of Field or I | Pool (if appl | icable): | | | Jalmat Tan | sil-Yates- | Seven Rive | rs | | | | |
| | | | | | | | | | -1 - 4 - 11 | | | |
| 4. Has the well ever I.e. sacks of cement | | - | | | | | vais and gr | /e plugging | | | | |
| Open hole 2970'-355 | 0' | <u></u> | | | <u></u> | <u></u> | | | | | | |
| PA'd 10-16-84 | | | | | | · | | | | | | |
| See attached sheet f | or plugging | detail | | | | | | | | | | |
| | | | | | | | | | | | | |
| 5. Give the name an Jalmat Yates Gas Zo | • | • • | • | underlying | or overlying th | e propos | ed injection | zone in this | area: | | | |
| | | | | | | | | | · | | | |
| Completion Record | ! | - | | | | | | | | | | |
| Perfs: | | Open hole | 2970-35 | 50' | | | | | | | | |
| Acid, Shot, Fracture, | Squeeze: | Acidized 2 | | | ······································ | · | · | | | | | |
| | • | | | | | | | | | | | |

| STATE OF NEW MEXICO | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| ENERGY AND MINERALS DEPARTMENT | |
| DISTRIBUTION P. O. BOX 2088 | Fora C-103 |
| SANTA FE SANTA FE, NEW MEXICO 87501 | Revised 10- |
| FILE | Sa. Indicate Type of Lease |
| | State Fee X |
| OPERATOR | S. State Oll & Gas Lease No. |
| SUNDRY NOTICES AND REPORTS ON WELLS | |
| USC "APPLICATION FOR FRAMIT -" (FORM C-101) FOR SUCH PROPOSALS.) | 7. Unit Agreement Name |
| OIL CAS X OTHER- | 8. Form or Lease Hame |
| HCW Exploration, Inc. | George Etz. |
| P.O. Box 10585 Midland, TX 79702 | 9. Well No. 4 |
| 4. Location of Well | 10. Field and Pool, or Wildcat |
| UNIT LETTER I 650 FEET FROM THE SOUTH LINE AND 990 FEET FROM | Jalmat |
| THE East LINE, SECTION 27 TOWNSHIP 235 RANGE 36E HAPP. | |
| ite and the second seco | 12. County |
| 3381.5' RT | Lea |
| Check Appropriate Box To Indicate Nature of Notice, Report or Oth NOTICE OF INTENTION TO: | er Data REPORT OF: |
| PEAFORM REMEDIAL WORK | ALTERING CASING |
| TEMPORARILY ABANDON | PLUG AND ABANDOHMENT |
| PULL OR ALTER CASING CHANGE PLANS CASING TEST AND CEMENT JOB | |
| | |
| 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including work) SEE RULE 1103. | • • • • • |
| 10/4/84 Find 2 3/8" EUE, 8rd tbg parted at 700'. 10/5/84 Fishing for | |
| <u>10/6/84</u> Fishing. <u>10/8/84</u> Fishing & washing. Tag fill at 668'. Mill | to 698'. Loosing circ |
| <u>10/9/84</u> Milling & washing. Loosing circ. TD 702'. | |
| <u>10/10/84</u> Milling & washing. Tite spot @ 698'. Work thru to 712'. Loo | • · |
| <u>10/11/84</u> Milling & washing. Hit bridge @ 698', could not work thru bri O pressure. Pump dwn annulus 2 3/8" tbg & 5 1/2" csg 2 1/2 BP 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. | |
| <u>10/13/84</u> Set retainer @ 286' pump 160 sx cement. Cmt to surface in ann & 8 5/8" csg. Close surface valves & squeeze 500 sx cmt below psi. Spot 35 sx cement above retainer. | ulus of 5 1/2" csg retainer. SI 400 |
| <u>10/15/84</u> Open 5 1/2" annulus, flow 1" stream. Pump in to establish a r 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, plate, install dry hole marker. P & A. | weld on top |
| 18. I hereby certify that the information above is true and complete to the bast of my knowledge and belief. sicked Multiple the product of the bast of my knowledge and belief. | DATE 10/26/84 |
| APPROVED BY AND | MAY 1 7 1985 |

,

CONDITIONS OF APPROVAL, IF ANY

| OPERATOR: | | Conoco | ····· | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------|------------|--------------|-----------------|-------------|---------------|---------------|---------------------------------------|--|--|
| WELL NAME & NUMBER: Lynn B-1 #2 | | | | | | | | | | | |
| WELL LOCATION: | 990' FNL, | 990' FEL | | | А | 26 | T-23-S | R-36-E | Lea | | |
| | (Foolage Localio | | | | (Unit Letter) | (Section) | (Township) | (Range) | (Couniy) | | |
| | | | | | | | | | | | |
| | | | WELL C | ONSTRUC | TION DATA | | | | | | |
| | | | <u>s</u> | urface Cas | ing | | | | | | |
| Hole Size: | Unknown | | | | | | | | | | |
| Casing Size: | 7-5/8" @ ' | 1225' | | (| | | (10) | | | | |
| Cemented with: | 500 | sacks (or)ft3 | | | | | | | | | |
| Top of Cement: | Unknown | | • | | | | | | | | |
| Method Determined: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | Pro | duction C | asing | | | | | | |
| Hole Size: | Unknown | | | | | | | | | | |
| Casing Size: | 5-1/2" @ 2 | 2784' | - | | | | | | | | |
| Cemented with: | 500 | | sacks | (or) | | | _ft3 | | | | |
| Top of Cement: | Unknown | | - | | | | | | | | |
| Method Determined: | | | - | | | | | | | | |
| Total Depth: | 3350' | | - | | | | | | | | |
| Addtitional Data | | | | | | | | | | | |
| 1. Is this a new well of | drilled for in | jection? | | | No | | | | | | |
| If no, for what purpos | e was the v | well originall | y drilled? | | Oil and gas | | | | | | |
| 2. Name of the Inject | | | | | _n/a | | | . <u></u> | | | |
| 3. Name of Field or F | Pool (if app | licable): | | | Jalmat Tan | sil-Yates- | Seven Rive | rs | | | |
| 4. Has the well ever I.e. sacks of cement | | | other zon | e(s)? List a | all such perfor | rated inter | rvals and giv | ve plugging o | detail, | | |
| Open hole 2784'-355 | 0' | | | | | | | | | | |
| PA'd 4-12-77 | - | · | | | | | | | · · · · · · · · · · · · · · · · · · · | | |
| See attached sheet for | or plugging | detail | | | | | | | ···· | | |
| | | | | | | | ······· | | | | |
| 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: | Perfs: Open hole 2784'-3350' | | | | | | | | | | |
| Acid, Shot, Fracture, | Squeeze: | | | | | | , | | | | |

STATES BUBMIT IN TRIPILICA Other instructiv "
THE INTERIOR verse side) UNITERSTATES () ANY 1963) Budget Buteau No. 42-R1424. DEPARTMI 5. LEASE DEGIONATION AND BERIAL NO. NM - 21644 GEOLOGICAL SURVEY TRIBE NAME 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.) 7. UNIT AGREE WELL GAS WELL Hbandon OTHER l a 2. NAMI 31 1371 LOCATION OF WELL (Re See also space 17 belo At surface ILDCAT NAM. 990' FNL + 990'F 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO : SUBSEQUENT REPORT OF : TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF REPAIRING WELL FRACTURE TREAT MULTIPLE COMPLETE PRACTURE TREATMENT ALTERING CARING SHOOT OR ACIDIZE ABANDON* BROOTING OR ACIDIZING ABANDONMENT* Plug +Abander REPAIR WELL CHANGE PLANS (Other) (Norz: Report respits of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 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 pertinent to this work.)* 4-9 WIH W/ Baker retainer. Set at 2709' Spotted cmi totool. Stung into retainer, started pumping. Communicate to casing. Pool, pumped approximately 655%. emt. 600'-560 in casing. \$12-17 Tagged top of cmt. at 2497! Tested 51/2" esg. w/15 Spotted 25 Sx plug at 1284 - 1150! spot 10 sx plug at 96 't surface 18. I hereby certify TITLE ADMIN Supr. SIGNED MM DATE 5 (This space for Federal or State office use) "tell. APPRO - -APPROVED BY TTTT OCT 19 197 CONDITIONS OF APPROVAL, IF ANY: ÷ *See Instructions on Reverse SideRTHUR R. BROWN DISTRICT ENGINEER

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 BWPD / 500 BWPD

System is closed

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

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

<u>Geological Data</u>: 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 $325 \pm$ are present in the area of review.

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

| P O. BOX 1468 MONAHANS, TEXAS 79756 PH 943-3234 OR 563-1040 | RESULT OF WATER ANALYSES | | | 709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521 |
|-------------------------------------------------------------------|--------------------------|------------------------------------|---------------------------------|----------------------------------------------------------|
| 111, 545-5254 OT 000-1040 | | | | PHONE 083-4521 |
| TO Mr. Terry Lawler | | LABORATORY NO SAMPLE RECEIVED _ | <u>300184</u> <u>3-24-00</u> | |
| 3300 North "A" Street, 1 | <u>Bldg. 4, Ste. 1</u> | 00 RESULTS REPORTED | 3-27-00 | |
| Midland, TX 79705 | | | | |
| COMPANY Energen Resources Co | orporation | LEASELanglie- | -Lynn | <u></u> |
| FIELD OR POOL | | | | |
| SECTION BLOCK SURVEY | COUNTY | Lea STAT | ENM | |
| SOURCE OF SAMPLE AND DATE TAKEN: | | | | |
| NO.1 <u>Raw water - taken from</u> | n Texaco Jal Wa | ter System. 3-24 | -00 | |
| NO.2 Produced water - taker | n from Langlie- | Lynn. 3-24-00 | | |

NO. 3 _____

NO. 4

REMARKS: ___ CHEMICAL AND PHYSICAL PROPERTIES NO. 3 NO. 1 NO. 2 NO. 4 1.0087 1.0282 Specific Gravity at 60° F. pH When Sampled 7.14 pH When Received 6.94 Bicarbonate as HCO₃ 927 1,586 Supersaturation as CaCO, Undersaturation as CaCO, 6,200 3,200 Total Hardness as CaCO, 720 Calcium as Ca 352 Magnesium as Mg 340 1,293 Sodium and/or Potassium 1,834 9,502 1,751 508 Sulfate as SO. Chloride as Cl 3,266 17,750 Iron as Fe 0.27 12.5 Barium as Ba Turbidity, Electric Color as Pt 8,838 30,991 Total Solids, Calculated Temperature °F Carbon Dioxide, Calculated Dissolved Oxygen. 95.0 27.0 Hydrogen Sulfide 0.740 0.250 Resistivity, ohms/m at 77° F. Suspended Oil Filtrable Solids as mg/l Volume Fiftered, ml Results Reported As Milligrams Per Liter Additional Determinations And Remarks The objective herein is to evaluate the compatibility between the two waters represented. A careful study of these waters has revealed no evidence of any incompatibility in any proportion of mixtures between these two waters. This is to say that we would not expect any scaling potential or precipitation as a result of combining these waters.

Form No. 3

Waylan C. Martin, M.A.

Ву ____

165 Mart 1

| P. O. BOX 1468 MONAHANS, TEXAS 79756 PH. 943-3234 OR 563-1040 WEMALE Martin Water La | aboratories, Inc. | | 709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521 |
|-----------------------------------------------------------------------------------------------|-------------------|---------|----------------------------------------------------------|
| RESULT OF WA | TER ANALYSES | • | FILONE 003-4521 |
| | LABORATORY NO. | 300138 | |
| TO: Mr. Terry Lawler | SAMPLE RECEIVED | 3-14-00 | |
| 3300 North A Street, Bldg. 4, Ste. 100 | RESULTS REPORTED | 3-20-00 | |
| Midland, TX 79705 | | | · · · · · · · · · · · · · · · · · · · |
| COMPANY Energen Resources Corporation | LEASE Langlie-L | ynn | |
| SECTION BLOCK SURVEY COUNTY _ | LeaSTATE | NM | |
| SOURCE OF SAMPLE AND DATE TAKEN: | | | |
| NO.1 <u>Raw water - taken from Dimwidder wi</u> | ndmill. 3-14-00 | | |
| NO.2 Raw water - taken from Myers Ranch | windmill. 3-14-00 | | |
| NO. 3 | · | | |
| | | | |

| Specific Gravity at 60° F. pH When Sampled pH When Received Bicarbonate as HCO, Supersaturation as CaCO, Undersaturation as CaCO, | NO. 1 1.0018 7.49 317 | NO. 2 1.0019 7.39 | NO. 3 | NO. 4 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------|----------------|-----------|
| pH When Sampled pH When Received Bicarbonate as HCO, Supersaturation as CaCO, | 7.49 | 7.39 | | |
| pH When Received Bicarbonate as HCO, Supersaturation as CaCO, | | | | |
| Bicarbonate as HCO, Supersaturation as CaCO, | | | | |
| Supersaturation as CaCO, | 317 | | | |
| | | 224 | | |
| Undersaturation as CaCO, | | | | |
| | | | | |
| Total Hardness as CaCO, | 176 | 312 | · | |
| Calcium as Ca | 61 | 112 | | |
| Magnesium as Mg | 6 | 8 | | |
| Sodium and/or Potassium | 107 | 60 | | |
| Sulfate as SO | 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. | | | 1 | |
| 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 | | | | |
| itrate, as N | 2.9 | 4 1 | 1 | |
| | | | · · | |
| ······································ | | <u>,</u> | | |
| | Results Reported As Milligram | ns Per Liter | | <u>, </u> |
| Additional Determinations And Remarks | The undersigned cert | | ove to be true | and |
| orrect to the best of his | knowledge and belief | | | |

Waylan C. Martin, M.A.

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.

1

of _____

_____ weeks.

- 2000

Beginning with the issue dated

March 25 2000 and ending with the issue dated

March 25 2000

Publisher Sworn and subscribed to before

me this <u>27th</u> day of

March

onson

Notary Public.

My Commission expires October 18, 2000 (Seal)

This newspaper is duly qualified to publish legal notices or advertisements 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 Energen Resources Corporation, 3300 N. A St. Bldg, 4-Ste 100, Midland, TX. 79705 (Contact Person: Denise Menoud) Telephone: 915-687-2074) is applying to the New Mexico Of 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 purposed injection wells are located in Sec. 22, 23 and 26 - T-235 - H365 in the Langlie-Lynn Queen Unit, Langlie Mattix Field Leas County. New Mexico, Fluid will be injected into strata in the subsurface Seven Rivers-Queen-Gravbirg Formation, et a depth interval from 3400-3800'. Expected maximum injection rate is 500 BWPD. Second Conservation Commission.

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01105161000 01539720

Energen Resources Corporation 3300 North "A" Street Building 4, Suite 100 MIDLAND, TX 79705

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO

COUNTY OF ____ Lea

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Before me, the undersigned authority, on this day personally appeared _____, the ____Publisher Kathi Bearden 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)

Faider____

Subscribed and sworn to before me this the <u>3</u> day of <u>Apul</u>,

19 2000, to certify which witness my hand and seal of office.

Notary Public in and for

LO _____ County, New Mexico

| un the reverse side. | Complete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that card to you. Attach this form to the front of the mailpiece, or on the back if sp permit. Write ' <i>Return Receipt Requested</i> ' on the mailpiece below the ar The Return Receipt will show to whom the article was delivered | ace does not 1. □ Addressee's Address ace does not 2. □ Restricted Delivery tide number. 1. □ Addressee's Address | ecelpt Service. |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| vour RETURN ADDRESS commisted f | 3. Article Addressed to: NEW MEX ICO STATE LAND OFFICE P.O. BOX 1148 SANTA FE NM | 4a. Article Number 2-558-120-401 4b. Service Type Registered Expressived Registered Return Receip Our Merchandise COD 7. Date of Detivery 8. Addresseds Address Only if requested and tee is paid | Thank you for using Return Rec |
| | RS Form 3811, December 1994 | 102595-99-B-0223 Domestic Return Rece | • |

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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.

<u>NOTICE:</u> 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 THIS SECTION ON DELIVERY |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 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. Article Addressed to: ORYX ENERGY P.O. BOX 2880 | A. Received by (Please Print Clearly) B. Date/of/Delivery |
| | DALLAS TX 75221-2880 | 3. Service Type Image: Service Type Image: Service Type Image: Service Type |
| n Berking ang kang kang kang kang kang kang kan | 2. Article Number (Copy from service label) 2 - 5 | 58-120-409 |
| | PS Form 3811, July 1999 Domestic F | Return Receipt 102595-99-M-1789 |

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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

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.

<u>NOTICE:</u> 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,

D. menoud

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

Energen Resources Corporation, an Energen Company 3300 North "A" Street, Building 4, Suite 100, Midland, Texas 79705

COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete A. Received by (Please Print Clearly) B. Date of Delivery item 4 if Restricted Delivery is desired. 3 Print your name and address on the reverse C. Signature so that we can return the card to you. Agent Attach this card to the back of the mailpiece, Х Addressee or on the front if space permits. D. Is delivery address different from item 1? X Yes 1. Article Addressed to: D No If YES, enter delivery address below: 901 Rio GRAnde RAPTOR RESOURCES PO BOX 160430 8701 AUSTIN TX 78716 3. Service Type Certified Mail Express Mail Return Receipt for Merchandise Registered Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) C Yes 2. Article Number (Copy from service label) Ņ 2-558-120. 66 PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789



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

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

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PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789



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

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Conoco 10 Desta Dr. Suite 100W Midland TX 79705-4500

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J. Menoud

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

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Doyle Hartman P.O. Box 10426 Midland TX 79701

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

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| i de la construction de la constru La construction de la construction d | STAR RT. 1 BOX 244 JAL NM 88252 | 3. Service Type A Certified Mail Express Mail B Registered Return Receipt for Merchandise Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes |
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Deep Wells Ranch Inc. c/o Kelly Myers Star Rt. 1, Box 244 Jal, New Mexico 88252

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

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Rhombus Operating 200 N. Loraine Suite 1270 Midland TX 79701

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| | L. DREYFUS 14000 QUAIL SPRINGS PRWY STE.600 | |
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L. Dreyfus 14000 Quail Springs Pkwy. Ste. 600 Oklahoma City OK 73134

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Building 4, Suite 100 Midland, Texas 79705 3300 North "A" Street Energen Resources Corporation ENERGEN SOURCES Ν Fold at line over top of envelope to the right of the return address E94 PTT 955 CERTIFIED MAIL TO FORMATO ENERGEN ESOURCE Por Box 1710 ARCO PERMIAN HOBBS NM 88240 AN ENERGEN RESOURCES CORPORATION Midland, Texas 79705 Building 4, Suite 100 3300 North "A" Street 3-20,00 600 N. MARIENFELD. 138 50 **\$ 03.200** MAR 15 00 4314 MAILED FROM MIDLAND TX 79705 * CONTEO SANIES HOSS Į



Arco Permian P.O. Box 1710 Hobbs NM 88240

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Gruy Petroleum Mgmt P.O. Box 14097 Irving TX 75014

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Phone 505/395-3056 Fax 505/395-3205 1105 West Kansas Address Line 2 Jal, New Mexico 88252

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 Litagation.

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