

UNITED BANK PLAZA
400 N. PENN. SUITE 1000

CHARLES B. READ
PRESIDENT

Read & Stevens, Inc.

*Oil Producers
P. O. Box 1518
Roswell, New Mexico 88202*

SWD

752

6/25/99

PHONE 505 622-3770
FAX: 505 622-8643

JUN 10 1999

June 8, 1999

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

RE: Application For Permit To Convert To Salt Water Disposal
Nix Federal SWD
990' FSL & 330' FWL
Section 27 T21S-R28E
Eddy County, New Mexico

Ladies & Gentlemen:

Enclosed is our application for administrative approval to authorize salt water disposal into the subject well. The land owner and offset operator have received a copy of the application as evidenced by the certified mail receipts enclosed.

If you should have any questions, please advise.

Sincerely,

READ & STEVENS, INC.

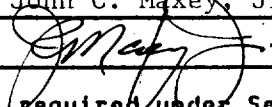


John C. Maxey, Jr.
Operations Manager

JCM/sr/6.1r&sswdltrs/ocdnfswd

Orig: OCD Santa Fe & 1 xc
xc: OCD Artesia

APPLICATION FOR AUTHORIZATION TO INJECT

- ✓ I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- ✓ II. Operator: Read & Stevens, Inc.
Address: P. O. Box 1518 Roswell, New Mexico 88202
Contact party: John C. Maxey, Jr. Phone: 505/622-3770 Ext 224
- ✓ III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- ✓ IV. Is this an expansion of an existing project? ☐ yes ☒ no
If yes, give the Division order number authorizing the project _____.
- ✓ V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- ✓ * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- ✓ VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- * VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological 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 source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source 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: John C. Maxey, Jr. Title Operations Manager
Signature:  Date: 5/26/99
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

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 name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location. Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

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

- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

- (3) the formation name and depth with expected maximum injection rates and pressures; and

- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 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.

Application For Authorization To Inject
Read & Stevens, Inc.
Supplemental Information Per OCD Form C-108
May 26, 1999

- III.A. 1. Nix Federal SWD, 990' FSL & 330' FWL, Section 27 T21S-R28E, Eddy County, New Mexico.

<u>Csg Size</u>	<u>Depth</u>	<u>Cement (sx)</u>	<u>Hole Size</u>	<u>TOC</u>
8 5/8"	550'	375	12 1/4"	Surface
5 1/2"	2,762'	650	7 7/8"	Surface

3. 2 3/8" 2,000 psi fiberglass tubing latched into a nickel plated packer at 2,500'.
4. Baker Lok-set packer set at 2,500' with a 1.78" ID profile and right hand release on-off tool.
5. All packer components nickel plated or plastic coated.

- III.B. 1. The injection interval is the Cherry Canyon Delaware formation in the Fenton field.
2. The injection interval is 2,605' to 2,820' and will be a combination of perforations and open hole.
3. The well was originally drilled as a Delaware developmental oil well and was found to be structurally low and noncommercial.
4. There are no other perforated intervals either open or sealed off.
5. There are no oil or gas zones higher than the injection interval. The depth of the next lower oil and gas zone in the area of the well is 3,791' in the Nix Federal #3 located 1980' FNL & 660' FWL of Section 27 T21S-R28E, Eddy County, New Mexico.

- IV. This is not an expansion of an existing project.

- ✓ V. A map is attached identifying all leases in the area of the proposed disposal well and the one half-mile radius area of interest is drawn around the proposed disposal well.
- ✓ VI. There are no wells plugged and abandoned within the area of review, therefore, no schematic wellbore diagrams are required. There are five other Delaware oil wells which penetrate the proposed injection zone which were all drilled by Read & Stevens, Inc. Attached and made a part of this application are regulatory completion forms showing the well type, construction, date drilled, location, depth, and record of completion.
- ✓ VII.
 - 1. The proposed average daily rate of fluid to be injected is 250 BWPD, and the maximum daily rate of fluids to be injected is 300 BWPD.
 - 2. The system is a closed system.
 - 3. The anticipated average operating pressure is 400 psi and the anticipated maximum operating pressure is 500 psi.
 - 4. The source for injected fluid is Delaware produced water being produced from the Nix lease.
- ✓ VIII. The proposed injection interval, known as the Delaware formation, is a sandstone interval having an average of 15% porosity. It is located at a depth of 2,605' and the thickness of the interval is not known because it has not been drilled through. Offset wells within the area of interest penetrated Delaware sand down to 6,000'. The 8 5/8" casing was set at 550' to protect any underground sources of fresh water. There are no known sources of fresh water below this depth overlying the proposed interval, and no know sources immediately underlying the interval.
- IX. There is no proposed stimulation program for the injection interval.
- X. Appropriate logs have been filed with the Division and do not need to be resubmitted.
- XI. There are no fresh water wells within one mile of the proposed disposal well, according to a search done by the New Mexico State Engineer's office.

- XII. Upon examination of the available geologic and engineering data, no evidence of open faults of any other hydrologic connection between the disposal zone and any underground source of drinking water was found.
- XIII. Notice of this application has been furnished by certified mail to the owner of the surface of the land on which the well is located and to each leasehold operator within one-half mile of the well location. The land owner and leasehold operators are listed below. Since this application is subject to administrative approval, proof of publication is also attached to this application and was published in the Carlsbad Current-Argus, Eddy County, New Mexico.

Land Owner:

Bureau of Land Management
P. O. Box 1778
620 E. Greene Street
Carlsbad, New Mexico 88220

Leasehold Operators:

Yates Petroleum Corporation
105 S. Fourth Street
Artesia, New Mexico 88210

Ralph Nix, Jr., Personal Representative
P. O. Box 440
Artesia, New Mexico 88211-0440

William J. McCaw
P. O. Box 376
Artesia, New Mexico 88211-0376

Bass Enterprises Production Company
201 Main Street
Suite 2900
Fort Worth, Texas 76102

JCM/sr/r&sswdapp/nixfed
Attachments

Affidavit of Publication

No 19879

State of New Mexico,
County of Eddy, ss.

Amy McKay,
being first duly sworn, on oath says:

That she is Business Manager
of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

May 28, 1999
May 29, 1999
May 30, 1999
June 1, 1999
June 2, 1999
_____, 19____

That the cost of publication is \$ 113.73,
and that payment thereof has been made and will
be assessed as court costs.

Amy McKay

Subscribed and sworn to before me this

2nd day of June, 1999
Patricia Mann

My commission expires 1/27/01
Notary Public

May 28, 29, 30, 1999
June 1, 2, 1999

LEGAL NOTICE

Read & Stevens, Inc. will apply for authority to convert the Nix Federal #5 well located 990' FSL & 330' FWL of Section 27 T21S-R28E of Eddy County, New Mexico into a salt water disposal well. Water produced from the Delaware formation on the Read & Stevens, Inc. Nix lease will be disposed of into the Delaware formation from 2,605' to 2,820'. The maximum daily injection rate will be 300 BWPD with a maximum injection pressure of 500 psi. Interested parties must file objections or requests for hearing with the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, New Mexico 87505 within fifteen (15) days of this notice.

John C. Maxey, Jr.
Operations Manager
Read & Stevens, Inc.
P.O. Box 1518
Roswell, New Mexico 88202
505/622-3770

ILLEGIBLE

Is your RETURN ADDRESS completed on the reverse side?

SENDER: ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Bass Enterprises Production Co. 201 Main Street Suite 2900 Fort Worth, Texas 76102		4a. Article Number Z 410 092 916	
		4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
		7. Date of Delivery JUN 21 1994	
5. Received By: (Print Name)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X <i>David E. Bass</i>			

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER: ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: Ralph Nix, Jr., Personal Rep. P. O. Box 440 Artesia, New Mexico 88211-0440		4a. Article Number Z 410 092 915	
		4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
		7. Date of Delivery 5-27-99	
5. Received By: (Print Name)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X <i>Ralph Nix Jr.</i>			

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER: ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery	
3. Article Addressed to: Bureau of Land Management 620 E. Greene Street P. O. Box 1778 Carlsbad, New Mexico 88220		4a. Article Number Z 410 092 912	
		4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
		7. Date of Delivery JUN 27 1999	
5. Received By: (Print Name)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X <i>Betty Hill</i>			

PS Form 3811, December 1994 102595-99-B-0223 Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

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

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

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

Consult postmaster for fee.

3. Article Addressed to:

William J. McCaw
P. O. Box 376
Artesia, New Mexico 88211-0376

4a. Article Number

Z 410 092 914

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

5-27-99

5. Received By: (Print Name)

W MCCAW

6. Signature: (Addressee or Agent)

X 

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

PS Form 3811, December 1994

102505-97-8-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

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

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

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

Consult postmaster for fee.

3. Article Addressed to:

Yates Petroleum Corporation
105 S. Fourth Street
Artesia, New Mexico 88210

4a. Article Number

Z 410 092 913

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

5-27-99

5. Received By: (Print Name)

JOANN GRIGGS

6. Signature: (Addressee or Agent)

X 

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

PS Form 3811, December 1994

102505-97-8-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

R.M. Bass, etal
HBP
059365
Ralph Nix, S/R

R.M. Bass, etal
HBP
059365
Ralph Nix, S/R

Read & Stevens, Inc.
SWD Application
Area of Review
Form C-108, Item V
05/26/99

11(2)
16

7-1-61(2)
063516

10-1-
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Yates Ent.
HBP
059365
Ralph Nix, S/R

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2-
Pan Amer
Big Eddy Unit
Cany. Disc.
Big Eddy
U.S.

R.M. Bass, etal
HBP
059365
Ralph Nix S/R

Miller
Vix & Yates

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Bass Ent.
Big Eddy
U.S.

Bass Ent.
Big Eddy
Atoka Disc.
U.S.

Richardson Oil, etal
S/R
06148

Richardson Oil, etal
S/R
06148

Richardson Oil, etal
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Richardson Oil, etal
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Richardson Oil, etal
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Richardson Oil, etal
S/R
06148

P.R. Bass, etal
S/R
066067
M. Yates, 1/2 S/R
Ralph Nix, S/R

Yates Pet, etal
2-1-99

Mamie West

Bass Ent.
(R. Lee Tr.)

Joe V. Lusk
Claude West

HBC
Joe V. Lusk
Claude West

29
BASS

"Big Eddy"
U.S.

Yates Pet, etal
S/R
06148

Bettis Bros.
1-29-98
G.C. Mann

P.R. Bass
HBP
E-5232

M. Yates, III 1/2 S/R
Ralph Nix 1/2 S/R
Rich E. Bass D/R
HBP B-10005

P.R. Bass
HBP
E-5232

Richardson Oil, etal
S/R
06148

Richardson Oil, etal
S/R
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Richardson Oil, etal
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Richardson Oil, etal
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Richardson Oil, etal
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Richardson Oil, etal
Ralph Nix, etal, S/R
0486
Yates Pet.
Garretson 3-AMI
Fed.
TO 6080

Yates Pet.
Garretson Fed.
TO 6080

(Richardson Oil, etal)
0486
(Ralph Nix, etal, S/R)
Bass Ent

28
"Big Eddy"
U.S.

(Richardson Oil, etal)
Bass Ent.
0486

Bass Ent.
(Thru Line Inc., etal)
070061

"Big Eddy"
U.S.

Richardson Oil
S/R
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Richardson Oil
S/R
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Richardson Oil
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Richardson Oil
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Richardson Oil
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Richardson Oil
S/R
060853

Richardson Oil, etal
Yates-Nix
Matthews
HBP
0486

Yates Pet.
Garretson Fed.
TO 6080

Richardson Oil, etal
0486
Ralph Nix, etal S/R

27
"Big Eddy"
U.S.

S.R. Bass
Thru Line, etal
C-1-61(2)
069707

S.R. Bass
Thru Line Inc., etal
HBP
070061

S.R. Bass
Thru Line Inc., etal
HBP
070111

S.R. Bass
Thru Line Inc., etal
HBP
070111

S.R. Bass
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Thru Line Inc., etal
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S.R. Bass
Thru Line Inc., etal
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070111

S.R. Bass
Thru Line Inc., etal
HBP
070111

S.R. Bass
Thru Line Inc., etal
HBP
070111

Bass Ent.
069219

"Big Eddy"
U.S.

Bass Ent.
069219

"Big Eddy"
U.S.

P.R. Bass
Thru Line, etal
C-1-61(2)
069707

P.R. Bass
Thru Line Inc., etal
HBP
070061

P.R. Bass
Thru Line Inc., etal
HBP
070111

P.R. Bass
Thru Line Inc., etal
HBP
070111

P.R. Bass
Thru Line Inc., etal
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Thru Line Inc., etal
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070111

P.R. Bass
Thru Line Inc., etal
HBP
070111

Nix Federal SWD
990' FSL & 330' FWL
Section 27 T21S-R28E
Eddy County, New Mexico

P.R. Bass
Bass-Fed.

P.R. Bass
Bass-Fed.

P.R. Bass
Bass-Fed.

P.R. Bass
Bass-Fed.

"Ford St."
State

S.R. Bass
Thru Line, Inc., etal
069140
HBP

RECEIVED MAR 29 1995
SUBMIT IN DUPLICATE
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
(See cover instructions on reverse side)FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

NM-0486

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Nix Federal #3

9. API WELL NO.

30-015-28235

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Section 27 T21S-R28E

12. COUNTY OR PARISH

Eddy County

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

Read & Stevens, Inc.

3. ADDRESS AND TELEPHONE NO.

P. O. Box 1518, Roswell, New Mexico 505-622-3770

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1980' FNL & 660' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 01-07-95 16. DATE T.D. REACHED 01-26-95 17. DATE COMPL. (Ready to prod.) 02-28-95 18. ELEVATIONS (DF, RKB, RT, CR, ETC.)* 3187' GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6100' 21. PLUG, BACK T.D., MD & TVD 4115' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 10-6100' ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

3791-3800' Cherry Canyon

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-DLL-MSFL GR-CNL-LDT

27. WAS WELL CORRED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48 & 54.5#	415'	17 1/2"	200 SX PP Lite	cem to surf
8 5/8"	32 & 24#	2520'	12 1/4"	200 SX PP Lite w/2% CaCl	cem to surf
5 1/2"	17#	6044'	7 7/8"	200 SX PP Lite w/2% CaCl	cem to surf
				430 SX 50/50 Poz	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	4072'	

31. PERFORATION RECORD (Interval, size and number)

5804-5903' 34 holes .4
3929-3932' 6 holes .4
3791-3800' 19 holes .4

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5804-5903'	1650 gal 7 1/2% NeFe HCL
BP @4115'	14000 gal x-linked Borate gel
3929-3932'	5000 gal 7 1/2% NeFe HCL Squeeze w 31 SX
3791-3800'	100 gal 7 1/2% NeFe HCL

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
03-03-95		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
03-03-95	24		→	107	22	70	206/1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→	107	22	70	42.4	

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

Vented pending connection

ACCEPTED FOR RECORD

TEST WITNESSED BY

William V. Palmer

35. LIST OF ATTACHMENTS

Deviation Survey

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

SIGNED

John C. Maxey, Jr.

CARL SADD, NEW MEXICO

DATE March 6, 1995

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

GEOLOGIC MARKERS

Top of Salt	415'
Base of Salt	948'
Captain	1027'
Delaware	2524'
Cherry Canyon	3408'
Brushy Canyon	5074'
Bone Spring	5964'
TD	6100'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN

RECEIVED
OPERATORS COPY
EXPIRES: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

NM-0486

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Nix Federal #4

9. API WELL NO.

30-015-28492

10. FIELD AND POOL, OR WILDCAT

Fenton Delaware

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Section 28 T21S-R28E

12. COUNTY OR PARISH

Eddy County

13. STATE

New Mexico

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

Read & Stevens, Inc

3. ADDRESS AND TELEPHONE NO.

P. O. Box 1518, Roswell, New Mexico 88202-1518 505-622-3770

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1980' FSL & 660' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 05-01-95 16. DATE T.D. REACHED 05-15-95 17. DATE COMPL. (Ready to prod.) 06-09-95 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 3183' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 6090' 21. PLUG BACK T.D., MD & TVD 6000' 22. IF MULTIPLE COMPLETIONS, LIST INTERVALS DRILLED BY All 23. ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

5760-5886' Delaware

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-CNL-LDT, DLL, GR-CBL-VDL

27. WAS WELL CORED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8"	48#	402'	17 1/2"	400 sx @ surf	None
8 5/8"	24# & 32#	2530'	11"	800 sx to surf	None
5 1/2"	17#	6070'	7 7/8"	910 sx TOC @1340'	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	5885'	N/A

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

5760-5766' 5878-5886'
5802-5806'
5810-5816' 94 holes 0.46" EHD
5820-5830'
5852-5862'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5760--5882'	2000 gal 7 1/2% NeFe 45,000 gal x-link, 120,000# 20/40

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
06-11-95		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
06-21-95	24		→	25	100 est	258	4000/1
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
	25	→	25	100 est	258	40.0	

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

Vented

TEST WITNESSED BY

William V. Palmer

35. LIST OF ATTACHMENTS

Deviation Survey. Logs previously sent.

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

SIGNED

John C. Maxey, Jr.

TITLE Petroleum Engineer

DATE June 27, 1995

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Brushy Canyon	5760'	5886'	Sandstone

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Red Bed	800'	
Anhydrite	1960'	
Captian Reef	2480'	
Cherry Canyon	2580'	
Brushy Canyon	4915'	
Bone Spring	5965'	

OPERATOR'S COPY

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

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

2. Name of Operator
Read & Stevens, Inc.

3. Address and Telephone No.
P. O. Bxo 1518, Roswell, New Mexico 88202-1518 505-622-3770

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FSL & 660' FEL
Seciton 28 T21S-R28E

5. Lease Designation and Serial No.

NM-0486

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Nix Federal #4

9. API Well No.

30-015-28492

10. Field and Pool, or Exploratory Area

Fenton Delaware

11. County or Parish, State

Eddy County, New Mexico

12 CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Perf

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

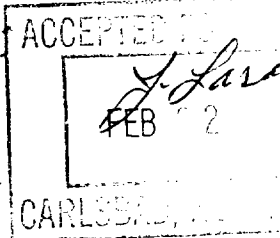
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)*

Set RBP @5,654' & perf 5,496-5,508' (15 holes). Pmp tested 13 BOPD, 200 BWPD, & 60 MCFD w/no stimulation. Rls RBP & POH. Set CIBP @5,450' over Delaware perfs. Perf additional Delaware 2,565-2,732' (41 holes). Acidize w/1500 gal 7 1/2% NEFe & frac w/25,000# 16/30 sd. Pmp testing & recovering load.

Note to Operator

In the future, give dates for relevant work that was done.



JAN 16 10 44 AM '96
RECEIVED

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

Signed

Title Petroleum Engineer

Date January 16, 1996

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

ROSWELL TRIST COOKS
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See Owner In-
structions on
reverse side)FOR APPROVAL
OMB NO. 100-200-0000
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/>		RECEIVED	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. DENVR. <input type="checkbox"/>		1997 JUN 25 A 9 48	
2. NAME OF OPERATOR Read & Stevens, Inc.			
3. ADDRESS AND TELEPHONE NO. P. O. Box 1518 Roswell, New Mexico 88202-1518 505/622-3770			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 990' FSL & 330' FWL At top prod. interval reported below At total depth			
14. PERMIT NO.		DATE ISSUED	
15. DATE SPUDDED 4-30-97		16. DATE T.D. REACHED 5-7-97	
17. DATE COMPL. (Ready to prod.) 6-1-97		18. ELEVATIONS (OF, HKB, RT, GR, ETC.)* 3175' GR	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 2762'	
21. PLUG. BACK T.D., MD & TVD 2715'		22. IF MULTIPLE COMPL., HOW MANY*	
23. INTERVALS DRILLED BY A11		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 2636-2652' Delaware	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN GR CBL Sector Log	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
Casing Size/Grade		Weight, LB./FT.	
8 5/8"		24#	
5 1/2"		15.5#	
Depth Set (MD)		Hole Size	
550'		12 1/4"	
2762'		7 7/8"	
Top of Cement, Cementing Record		Amount Pulled	
375 sx Class C w/add		70 sx to surface	
400 sx lead HL w/ add		70 sx to surface	
250 sx PP&50/50 Poz w/ add			
29. LINER RECORD		30. TUBING RECORD	
Size		Depth Set (MD)	
2 3/8"		2570'	
31. PREPARATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
2636-2652' 65 holes 0.544"		Depth Interval (MD)	
		Amount and Kind of Material Used	
		1000g 7 1/2% NFE HCl	
		18500g 30# borate x-link gel	
		48000# 16/30 mesh sd proppant	
33. PRODUCTION		34. DISPOSITION OF GAS (Gels, used for fuel, vented, etc.)	
Date First Production		Vented	
6-1-97		Production Method (Flowing, gas lift, pumping—size and type of pump)	
Pumping		Well Status (Producing or shut-in)	
Producing		Date of Test	
6-3-97		Hours Tested	
24		Choked Size	
PROD'N. FOR TEST PERIOD		OIL—BBL.	
1		GAS—MCF.	
TSTM		WATER—BBL.	
157		OIL GRAVITY-API (CORR.)	
38		Flow, Tubing Pressure	
Casing Pressure		Calculated 24-Hour Rate	
1		OIL—BBL.	
TSTM		GAS—MCF.	
157		WATER—BBL.	
38		34. DISPOSITION OF GAS (Gels, used for fuel, vented, etc.)	
Vented		35. LIST OF ATTACHMENTS	
Deviation survey, Logs previously sent		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED		TITLE	
John C. Mahey, Jr.		Petroleum Engineer	
DATE		6-17-97	

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENT, ETC.
Delaware	2636'	2652'	Sand

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	2604'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

RECEIVED NOV 20 9 08 AM '96
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
December 31, 1991
INSTRUCTIONS ON REVERSE SIDE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REVR. ☐ OTHER ☐

2. NAME OF OPERATOR

Read & Stevens, Inc.

3. ADDRESS AND TELEPHONE NO.

P. O. Box 1518, Roswell, New Mexico 88202-1518 505-622-3770

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 2310' FNL & 330' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

NM-0486

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Nix Federal #7

9. API WELL NO.

30-015-28934

10. FIELD AND POOL, OR WILDCAT

Fenton Delaware

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 28 T21S-R28E

12. COUNTY OR PARISH

13. STATE

Eddy County New Mexico

15. DATE SPUDDED

16. DATE T.D. REACHED

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

19. ELEV. CASINGHEAD

10-12-96

10-20-96

11-10-96

3,189' GR

20. TOTAL DEPTH, MD & TVD

21. PLUG BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

2,900'

2,819'

→

All

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

2571---2657' Delaware

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR-DLL CNL-LDT

27. WAS WELL CORED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	409'	12 1/2"	250 sx Class "C" w/add	surf
5 1/2"	15.5#	2869'	7 7/8"	550 sx HOWCO & Poz w/add	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	2,660'	

31. PERFORATION RECORD (Interval, size and number)

2571---2657' 0.38" EHD 73 Holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2571---2657'	1000 gal NEFe
	16,250 gal 30# x-link gel
	40,000# 16/30 sd

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
11-10-96		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-11-96	24		→	100	15	190	150/1
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (COR.)	
		→	100	15	190	40.0	

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

Flared

TEST WITNESSED BY

William Palmer

35. LIST OF ATTACHMENTS

Deviation Survey. Logs previously sent.

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

SIGNED

John C. Maxey, Jr.

TITLE

Petroleum Engineer

DATE November 19, 1996

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Delaware	2571'	2657'	Sand	Delaware	2534'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

RECEIVED JUL 24 1996

FOR APPROVED
OMB NO. 1004-0137
EFFECTIVE DATE: November 31, 1991

CLASSIFICATION AND SERIAL NO.

OPERATOR'S COPY

NM-0486

IF INDIAN, ALLOTTEE OR TRIBE NAME

7. PERMIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Federal #8

API WELL NO.

30-015-28935

10. FIELD AND POOL, OR WILDCAT

Fenton Delaware

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 28 T21S-R28E

12. COUNTY OR PARISH

Eddy County

13. STATE

New Mexico

WELL COMPLETION OR RECOMPLETION REPORT

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RENVR. ☐ Other ☐

2. NAME OF OPERATOR

Read & Stevens, Inc.

3. ADDRESS AND TELEPHONE NO.

P. O. Box 1518, Roswell, New Mexico 88202-1518 505-622-3770

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements).

At surface 1,980' FSL & 1,650' FEL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED

04-30-96

16. DATE T.D. REACHED

05-22-96

17. DATE COMPL. (Ready to prod.)

06-21-96

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

3,187' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

4,200'

21. PLUG, BACK T.D., MD & TVD

2,783'

22. IF MULTIPLE COMPL., HOW MANY*

1

23. INTERVALS DRILLED BY

ROTARY TOOLS

All

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME

2,557---2,628 Delaware

25. TYPE ELECTRIC AND OTHER LOGS RUN

GR-DLL DNL-FDC

25. WAS DIRECTIONAL SURVEY MADE

No

27. WAS WELL CORRED

No

CASING RECORD (Attach all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	AMOUNT PULLED
8 5/8"	32# & 24#	403'	surf
5 1/2"	17#	2,826'	130 sx surf

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	2,532'	

31. PERFORATION RECORD (Interval, size and number)

2,557---2,628' 38 holes 0.528" Squeeze
2,557---2,628' 38 holes 0.48"

ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2,557---2,628'	1000 gal 7 1/2% NEFe
2,557---2,628'	50 sx C w/Halad 322 tail in w ¹⁰
2,557---2,628'	1000 gal 7 1/2% NEFe w/40,000#
	16/30 sd w/13,500 gal x-link

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
06-21-96		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
06-21-96	24		→	37	TSTM	65	N/A
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→	37	TSTM	65	42.0	

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

Flared.

TEST WITNESSED BY

William Palmer

35. LIST OF ATTACHMENTS

Deviation Survey. Logs previously sent.

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

SIGNED

John C. Maxey, Jr.

TITLE Petroleum Engineer

DATE July 2, 1996

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

CONFIDENTIAL

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

38.

GEOLOGIC MARKERS

FORMATION		TOP	
FORMATION	NO.	TOP	BOTTOM
Delaware	2,557'	2,628'	
DESCRIPTION, CONTENTS, ETC.		NAME	MEAS. DEPTH
		Delaware	2,534'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See Instructions on
reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-0486

6. IF INDICATED, TYPE OF, FIRST NAME
OPERATOR'S COPY

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Nix Federal #9

9. API WELL NO.

30-015-29251

10. FIELD AND POOL, OR WILDCAT

Fenton Delaware

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Section 28 T21S-R28E

12. COUNTY OR
PARISH

13. STATE

Eddy County New Mexico

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. REMV. ☐ Other ☐

2. NAME OF OPERATOR

Read & Stevens, Inc.

3. ADDRESS AND TELEPHONE NO.

P.O. Box 1518, Roswell, New Mexico 88202-1518 505-622-3720 BLM
RESERVED, NM

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 990' FSL & 990' FEL

At top prod. interval reported below

At total depth

ACCEPTED FOR RECORD

MAY 14 1997

14. PERMIT NO. DATE ISSUED

15. DATE STUDDED 16. DATE T.D. REACHED 17. DATE COMED (Ready to prod.) 18. ELEVATIONS (OF, RKB, RT, CR, ETC.)* 19. ELEV. CASINGHEAD

02-24-97

03-06-97

04-02-97

3175' GR

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

2740'

2680'

All

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

2600-2618' Delaware

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL-ND

27. WAS WELL CORED

No

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD
8 5/8"	24 & 32#	550'	11"	300 sx PP Class H w/add
5 1/2"	17#	2738'	7 7/8"	675 sx HL & 50/50 POZ w/add

AMOUNT PULLED

APR 24 1997

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	BACKS SET (MD)
2 3/8"	2634'	N.A.

31. PERFORATION RECORD (Interval, size and number)

2600-2618' 76 holes 0.48"

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2600-2618	1000g 7 1/2% NEFe
	18000g 30# Borate x-link gel
	48000# 16/30 Mesh sd proppant

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
04-02-97		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
04-13-97	24		→	54	TSTM	90	N/A
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
		→	54	0	90	40.0	

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

Vented

TEST WITNESSED BY
William Palmer

35. LIST OF ATTACHMENTS

Deviation Survey. Logs Previously Sent.

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

SIGNED

John G. Maxey, Jr.

TITLE Petroleum Engineer

DATE April 22, 1997

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Delaware	2600'	2618'	Sand	Delaware	2063'	