

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval ☐ Yes ☒ No
- II. Operator: Amstar Energy Corporation
Address: 8416 Wayne Avenue Lubbock, Texas 79424
Contact party: Gilbert Quintana Phone: 505 852-4481
- 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: N/A
- 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 sample 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: Gilbert Quintana Title Regulatory Consultant
Signature: Gilbert P. Quintana Date: June 26, 1986
- * 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. Logs submitted to Hobbs District office at time of

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.

BEFORE EXAMINER CATANACH	
OIL CONSERVATION DIVISION	
AMSTAR	EXHIBIT NO. <u>1</u>
CASE NO.	<u>8934</u>

AMSTAR ENERGY CORPORATION
APPLICATION FOR SALTWATER DISPOSAL WELL

Part I

The reason for this application is a request for authorization to inject produced water for purposes of disposal into formations that shall not adversely affect fresh water sources or oil and gas producing formations. The subject disposal well is expected to be a commercial operation. This application does not qualify for administrative approval.

Part II

Operator: Amstar Energy Corporation
Address: 8415 Wayne Avenue
Lubbock, Texas 79424

Tommy Hinson and Gerald Bonner, Operators

Contact Party: Gilbert P. Quintana, Regulatory Consultant
Telephone: 505-352-4481

Part III

Proposed Injection Well Data: Please refer to Amstar Exhibits No. 2 and No. 3 entitled, "Wellbore Schematic Current Status" and "Proposed Injection Well Schematic", respectively. Both schematics have included answers to Portion A and Portion B of Part III of OGD Form C-108.

Part IV

This is a new application and is not an expansion of an existing project. There is no Division Order associated with this application.

Part V

Well's area of review: Amstar Exhibit No. 4 entitled, "Area Review Map" shows all wells and leases within two miles of the proposed well. Two, one, and one half mile radius' have been drawn around the proposed well. The one-half mile circle identifies the wells "Area of Review".

Part VI

This portion requires a tabulation of all wells within the "Area of Review" which have penetrated the proposed injection interval. Amstar Exhibit No. 4, "Area of Review Map" shows there are no wells within the review area of the proposed well.

Part VII

Data on the proposed operation of the saltwater disposal well:

1. Proposed Injection Rates: Average: 1 BPM
 Maximum: 4.5 BPM

Proposed Injection Volumes: Average: 1,450 EPD
 Maximum: 2,000 EPD

2. The system shall be an open system. This is meant in the sense that it will be available as a commercial system to those parties that have been contracted to dispose of produced water into the subject well. Physically, the system shall be closed to the atmosphere and shall consist of an injection valve connection with an appropriate meter for measurement of rates and volumes of produced water to be disposed of.

3. Proposed Injection Pressures: Average: Vacuum Injection
 Maximum: 2,172 psi

This is based on the OCD's standard 0.2 psi/ft depth to the uppermost injection perforation limitation. The subject well's uppermost perforation is at 10,860 feet. It should be noted that the well is expected to take water under "vacuum" conditions.

4. The sources of injection waters will be produced waters from the general area in which the well is located. Injected waters should include Bonespring, Wolfcamp, and Morrow. Compatibility of the disposal waters with the injected waters is expected because the waters originated from the same formations in the general area.

5. Chlorides for the Wolfcamp and Morrow formations in this area are 58,000-120,000 ppm and 33,000 ppm, respectively. This is based on the U.S.G.S. Basin Report 75-579, entitled "Water Quality of Oil & Gas Wells in the Permian"

Part VIII

Geologic data on injection zones:

Wolfcamp Formation: The Wolfcamp formation top in the subject well is 10,847 ft (-6,859 ft subsea) and is approximately 728 ft thick. It consists of thin bedded dolomitic shale & sandstone, underlain by a carbonate bank of low porosity of 2-3%, grading into arg. dolomite and dolomite shales.

Penn Formation: The Penn formation top occurs at 11,862 ft (-7,874 ft subsea) and is approximately 318 ft thick. The Penn sequence consists of shales and thin intel-bedded dolomite and clay, grading to thin argillaceous limestone.

Strawn Formation:	The Strawn formation top occurs at 12,180 ft (-8,192 ft subsea) and is approximately 302 ft thick. It consists of Arenaceous limestone and shale at the top grading to a massive limestone at the base with porosity of 2-3%.
Atoka Formation:	The Atoka formation top occurs at 12,482 ft (-8,494 ft subsea) and is approximately 538 ft thick. It consists of thin bedded shales and limestone with some dolomitic shalestone at the top. The mid-Atoka is characterized by a massive shale grading into a massive carbonate. Its porosity is from 2-3%.
Morrow Formation:	The Morrow formation top occurs at 12,844 ft (-8,856 ft subsea) and is approximately 504 ft thick. It consists of limestone, sand, and thin shales interbedded.
Devonian Formation:	The Devonian formation top should occur at approximately 14,500 ft (-10,512 ft subsea) and is approximately 300 ft thick.
Fresh Water Sources:	
Ogallala Formation:	The Ogallala formation is the only source of potable water in the area. The base of the formation can be found at 180 ft as confirmed by Jim Wright of the N.M. State Engineers Office in Roswell.
Santa Rosa Formation:	The Santa Rosa formation in this area is not potable as it is salt bearing. Also confirmed by Jim Wright.

Part IX

No stimulation programs have been planned at this time, but should it be necessary 15% HCL with the appropriate volumes for the area to be treated will be used.

Part X

All logs and test data have been previously submitted to the OCD.

Part XI

There are two fresh water wells within a mile of the proposed well:
(Note Amstar Exhibit No. 4 for the well locations)

Fresh Water Well No. 1: This is a domestic well and is located in the SW/4SE/4 NE/4, Sec. 35, T18S, R34E. It is completed in the Ogallala. The State Engineers Office has no other information on the well except that the well tested 21 ppm chlorides in July 1984.

Fresh Water Well No. 2: This well was drilled by Mesa Petroleum as a drilling fluid water supply well. It is located in the NW/4 NW/4, Sec. 35, T18S, R34E. It is completed in the Ogallala to a TD of 180 ft. Perforated at 119-180 ft with the top of water at 130 ft. It is cased with 6 5/8 in casing to TD.

There are two other fresh water wells in the area, but not within a mile of the proposed well. They are denoted on the map as Fresh Water Well No. 3 and No. 4. Information is available on this if requested.

Part XII

Affirmative Statement:

I hereby affirm that I 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.

Gilbert P. Quintana
Gilbert P. Quintana, Regulatory Consultant

Note Amstar Exhibit No. 6, "Geologic Contour Map" of the Strawn formation.

Part XIII

Note Amstar Exhibit No. 7 and No. 8 entitled, "Area of Review Offset Operators" and "Proof of Notice" respectively.

Part XIV

Note Amstar Exhibit No. 1, OCD Form C-108 for Certification.

BEFORE EXAMINER CATANACH

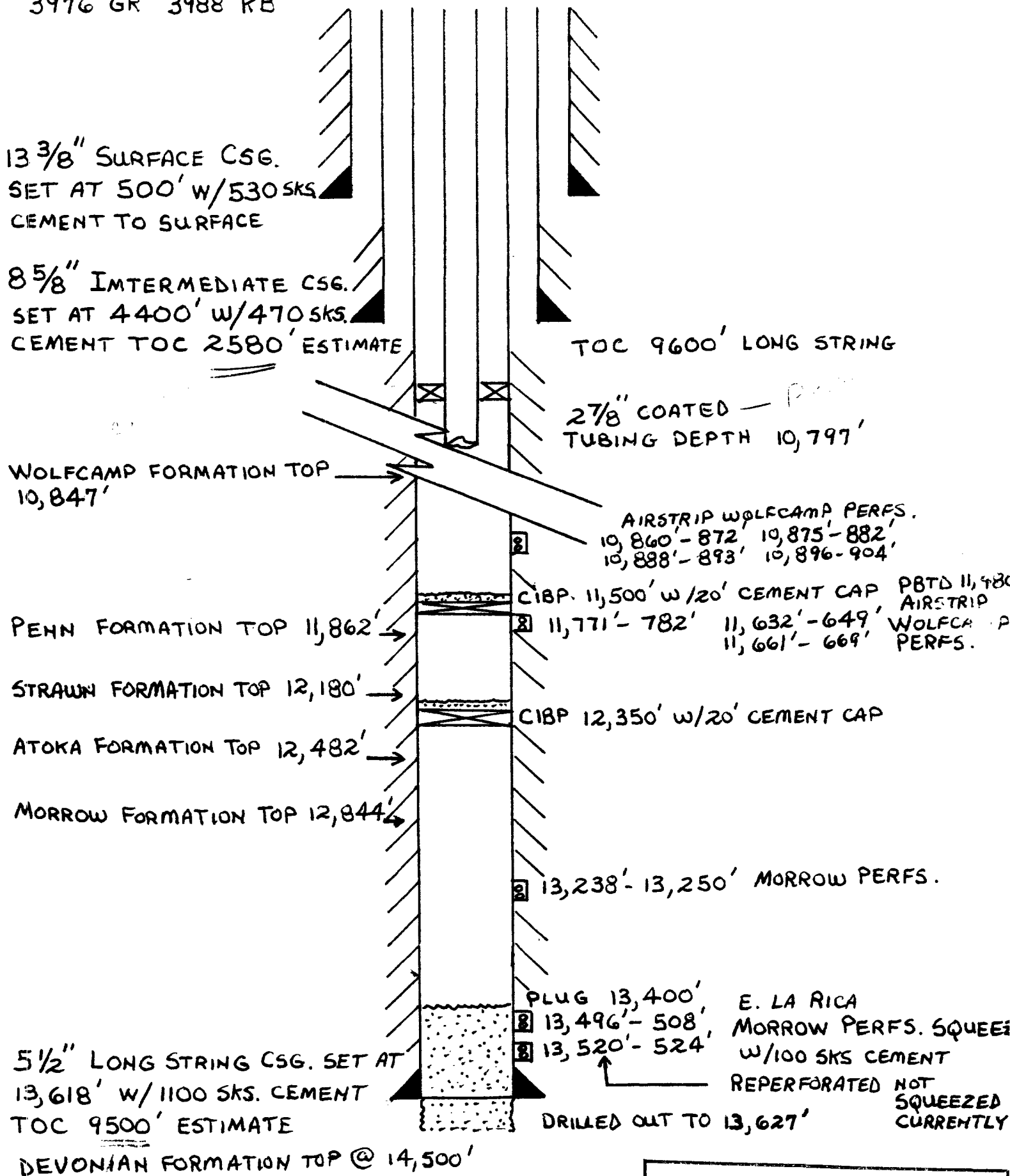
OIL CONSERVATION DIVISION

AMSTAR EXHIBIT NO. 1

CASE NO. 8934

NEW MEXICO "A" STATE WELL NO. 1
660' FSL & 2080' FEL OF SECTION 35
TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM, LEA CO., N.M.

3976' GR 3988' KB



"WELLBORE SCHEMATIC"
"CURRENT STATUS"

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION

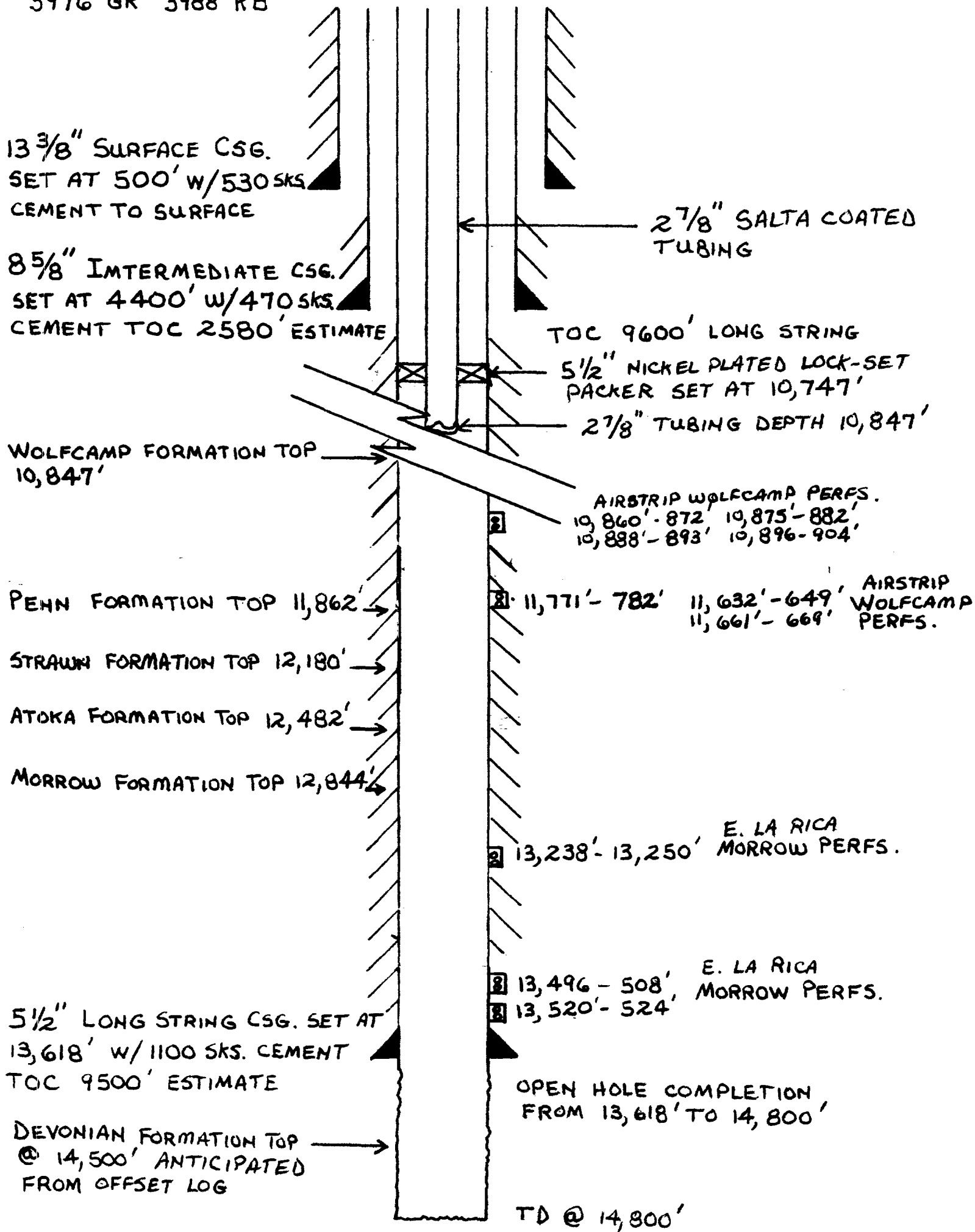
AmSTAR EXHIBIT NO. 2

CASE NO. 8934

AMSTAR ENERGY CORPORATION

NEW MEXICO "A" STATE WELL NO. 1
 660' FSL & 2080' FEL OF SECTION 35
 TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM, LEA CO., N.M.

3976' GR 3988' KB



"PROPOSED INJECTION"
 "WELL SCHEMATIC"

BEFORE EXAMINER CATAÑACH	
OIL CONSERVATION DIVISION	
AmSTAR	EXHIBIT NO. 3
CASE NO.	8934

"AREA REVIEW MAP"

EAST F-K
UNIT State
CONT' (OPER)

WOLF CAMP
MORROW
PROPOSED INJECTION WELL
WATER WELL (FRESH)

FBI EXAMINER CATALOG

EXHIBIT NO. 4

Recd 8434

Reed, E. C.

5

"AREA PRODUCING POOL" "BOUNDARIES"

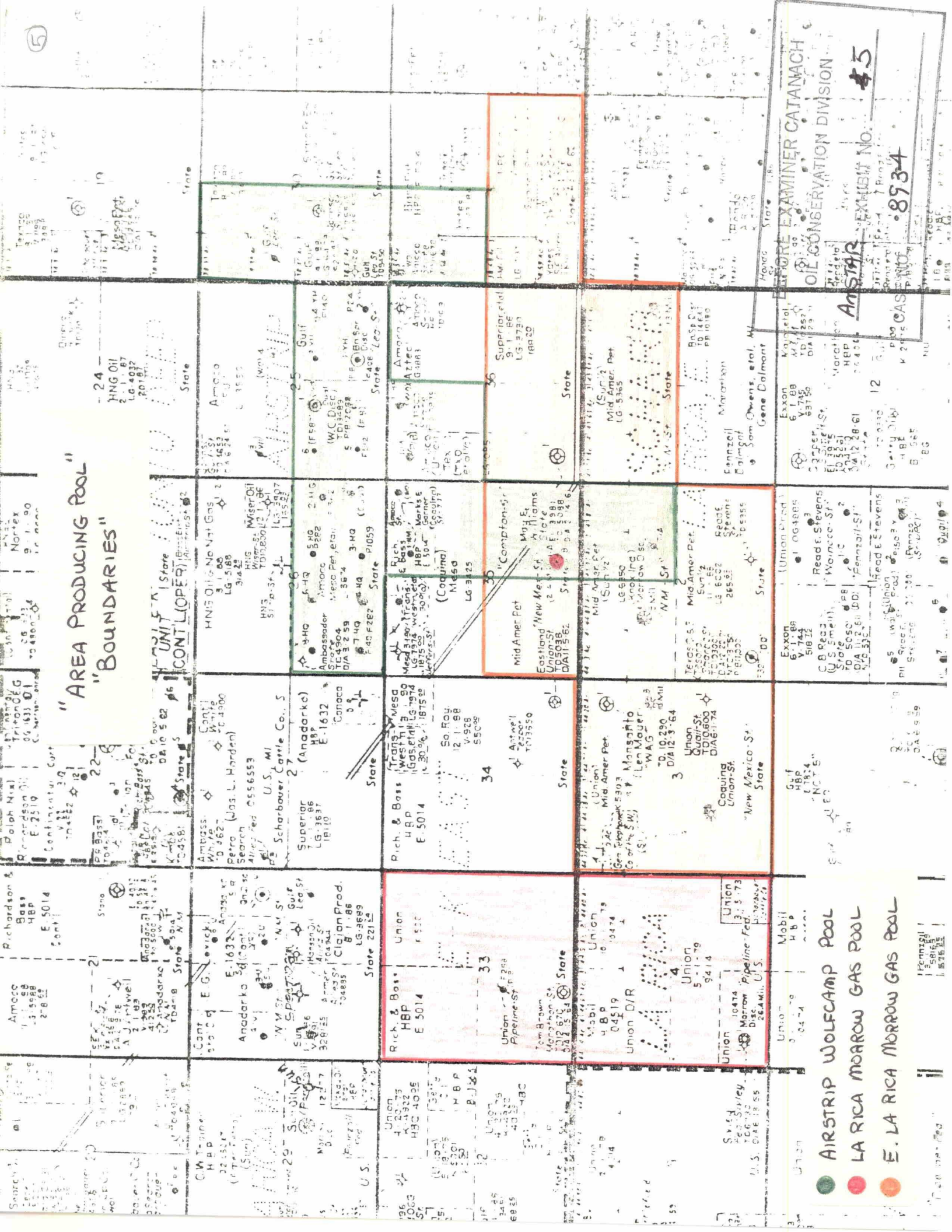


EXHIBIT NO. 45
8934

AMOCO
SHELL
GULF
MID AMERICAN PETROLEUM
SUPERIOR
WOLFECAMP
LA RICA
MORROW
E. LA RICA

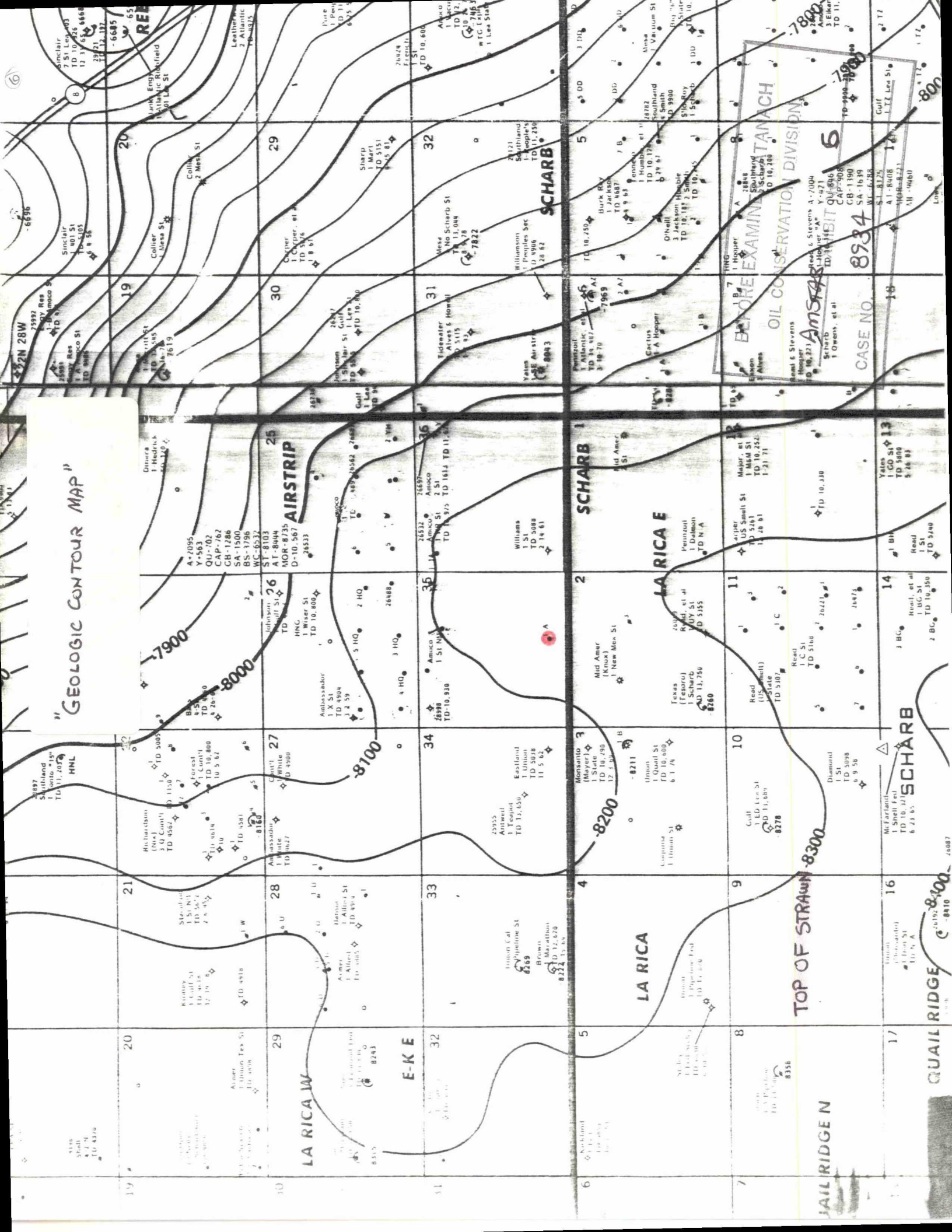
AMOCO
SHELL
GULF
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SUPERIOR
WOLFECAMP
LA RICA
MORROW
E. LA RICA

AMOCO
SHELL
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SUPERIOR
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MORROW
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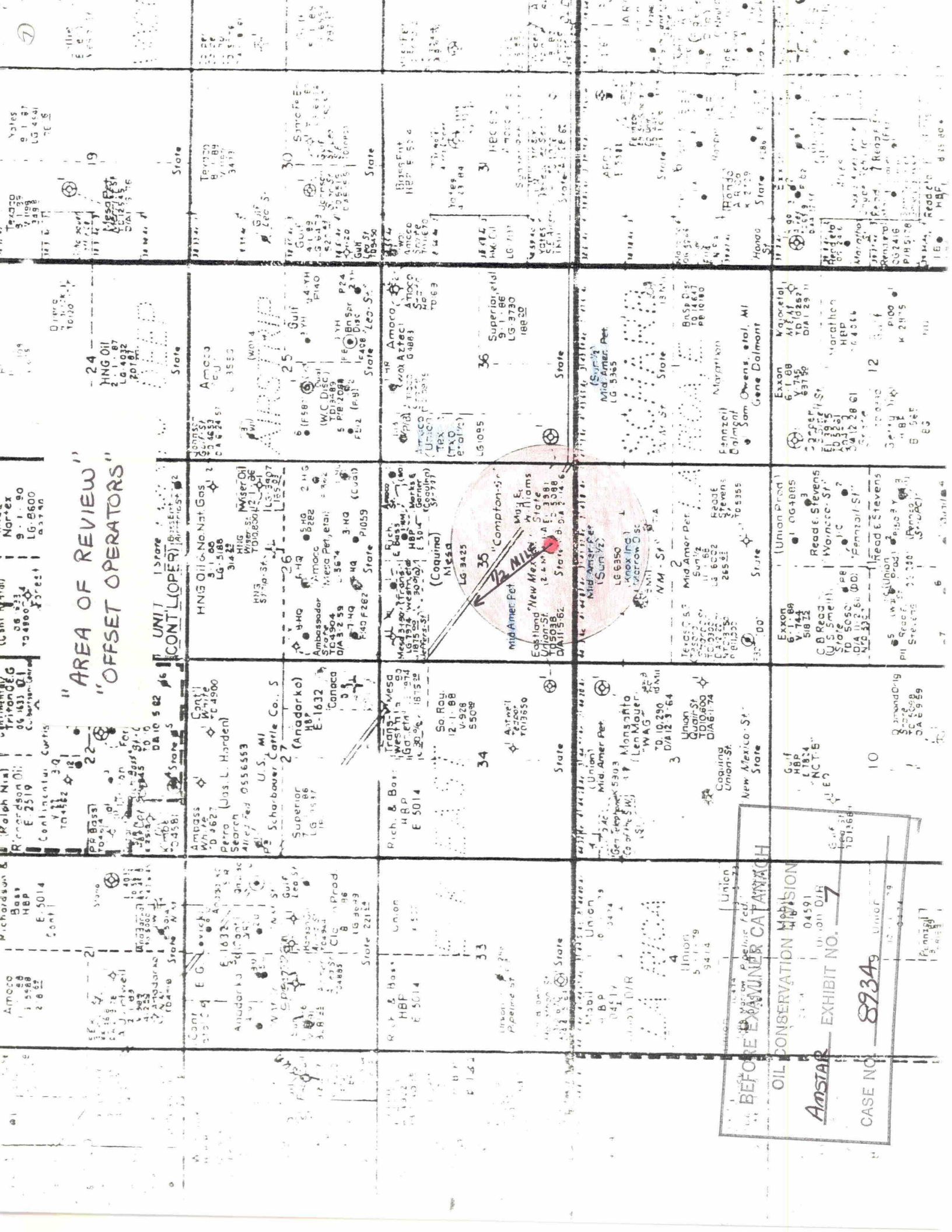
AMOCO
SHELL
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MID AMERICAN PETROLEUM
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WOLFECAMP
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MORROW
E. LA RICA

AMOCO
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SUPERIOR
WOLFECAMP
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MORROW
E. LA RICA

"GEOLOGIC CONTOUR MAP"



"AREA OF REVIEW" "OFFSET OPERATORS"



BEFORE EXAMINER CATAVACH
OIL CONSERVATION DIVISION
EXHIBIT NO. 7
CASE NO. 89349

● **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space
on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery..
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to
the return receipt fee.)

TOTAL \$

3. **ARTICLE ADDRESSED TO:**
 Union Texas Petroleum
 4000 Big Spring #500
 Midland, Texas 79701

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
Brown

5. **DATE OF DELIVERY**
 7-2-86

6. **ADDRESSEE'S ADDRESS (Only if requested)**
 7-2-86

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**

● **SENDER:** Complete items 1, 2, 3, and 4.
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the return receipt fee.)

TOTAL \$

2. **ARTICLE ADDRESSED TO:**
 TXO
 900 Wilco Bldg.
 Midland, Texas 79701

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
Rogers Pittman

5. **DATE OF DELIVERY**
 7-2-86

6. **ADDRESSEE'S ADDRESS (Only if requested)**

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TOTAL \$

3. **ARTICLE ADDRESSED TO:**
 Knox Industry, Inc.
 P.O. Box 3023
 Midland, Texas 79702

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
Dieter Nelson

5. **DATE OF DELIVERY**
 7-2-86

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**
 [Circular Postmark: MIDLAND TX JUL 2 1986 USPS]

● **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space
on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery..
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to
the return receipt fee.)

TOTAL \$

2. **ARTICLE ADDRESSED TO:**
 Amstar Ind. Co.
 P.O. Box 98240

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
John Smith

5. **DATE OF DELIVERY**
 7-3-86

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**
 [Circular Postmark: O B B S JUL 3 1986 USPS]

"PROOF OF NOTICE"

AMSTAR

8934

PS Form 3811, Use 1986

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.	
(CONSULT POSTMASTER FOR FEES)	
1. The following service is requested (check one). ☒ Show to whom and date delivered \$ ☐ Show to whom, date, and address of delivery.. \$	
2. ☐ RESTRICTED DELIVERY \$ (The restricted delivery fee is charged in addition to the return receipt fee.)	
TOTAL \$	
3. ARTICLE ADDRESSED TO: Sun Expt. & Prod. Co. Box 1861 Midland Texas 79701	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COO ☐ EXPRESS MAIL	ARTICLE NUMBER
(Always obtain signature of addressee or agent)	
I have received the article described above.	
SIGNATURE ☐ Addressee ☒ Authorized agent [Signature]	
5. DATE OF DELIVERY [Stamp: MIDLAND, TX JUL 2 1986]	
6. ADDRESSEE'S ADDRESS (Only if requested) Sun Expt. & Prod. Co. Box 1861 Midland TX	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS [Initials]

PS Form 3811, Use 1986

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(CONSULT POSTMASTER FOR FEES)	
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2. ☐ RESTRICTED DELIVERY \$ (The restricted delivery fee is charged in addition to the return receipt fee.)	
TOTAL \$	
3. ARTICLE ADDRESSED TO: State Land Office P.O. Box 1148 Santa Fe, N.M. 87504-1148	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COO ☐ EXPRESS MAIL	ARTICLE NUMBER
(Always obtain signature of addressee or agent)	
I have received the article described above.	
SIGNATURE ☐ Addressee ☒ Authorized agent [Signature]	
5. DATE OF DELIVERY [Stamp: SANTA FE, NM JUL 1 1986]	
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

2. ARTICLE ADDRESSED TO: NMD CD P.O. Box 1980 Hobbs NM 88240	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COO ☐ EXPRESS MAIL	ARTICLE NUMBER
(Always obtain signature of addressee or agent)	
I have received the article described above.	
SIGNATURE ☐ Addressee ☒ Authorized agent [Signature]	
5. DATE OF DELIVERY [Stamp: Hobbs NM JUL 7 1986]	
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE: 7-7-86	7a. EMPLOYEE'S INITIALS

APPLICATION FOR AUTHORIZATION TO INJECT

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Application qualifies for administrative approval? ☐ yes ☒ no
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I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Gilbert Quintana

Title Regulatory Consultant

Signature: Gilbert P. Quintana

Date: June 26, 1986

- * 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. Logs submitted to Hobbs District office at time of

drilling.

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

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- (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.

AMSTAR ENERGY CORPORATION
APPLICATION FOR SALTWATER DISPOSAL WELL

Part I

The reason for this application is a request for authorization to inject produced water for purposes of disposal into formations that shall not adversely affect fresh water sources or oil and gas producing formations. The subject disposal well is expected to be a commercial operation. This application does not qualify for administrative approval.

Part II

Operator: Amstar Energy Corporation
Address: 8416 Wayne Avenue
Lubbock, Texas 79424

Tommy Hinson and Gerald Bonner, Operators

Contact Party: Gilbert P. Quintana, Regulatory Consultant
Telephone: 505-852-4481

Part III

Proposed Injection Well Data: Please refer to Amstar Exhibits No. 2 and No. 3 entitled, "Wellbore Schematic Current Status" and "Proposed Injection Well Schematic", respectively. Both schematics have included answers to Portion A and Portion B of Part III of OGD Form C-108.

Part IV

This is a new application and is not an expansion of an existing project. There is no Division Order associated with this application.

Part V

Well's area of review: Amstar Exhibit No. 4 entitled, "Area Review Map" shows all wells and leases within two miles of the proposed well. Two, one, and one half mile radius' have been drawn around the proposed well. The one-half mile circle identifies the wells "Area of Review".

Part VI

This portion requires a tabulation of all wells within the "Area of Review" which have penetrated the proposed injection interval. Amstar Exhibit No. 4, "Area of Review Map" shows there are no wells within the review area of the proposed well.

Part VII

Data on the proposed operation of the saltwater disposal well:

1. Proposed Injection Rates: Average: 1 BPD
 Maximum: 4.5 BPD

Proposed Injection Volumes: Average: 1,450 BPD
 Maximum: 2,000 BPD

2. The system shall be an open system. This is meant in the sense that it will be available as a commercial system to those parties that have been contracted to dispose of produced water into the subject well. Physically, the system shall be closed to the atmosphere and shall consist of an injection valve connection with an appropriate meter for measurement of rates and volumes of produced water to be disposed of.
3. Proposed Injection Pressures: Average: Vacuum Injection
 Maximum: 2,172 psi
This is based on the OCD's standard 0.2 psi/ft depth to the uppermost injection perforation limitation. The subject well's uppermost perforation is at 10,860 feet. It should be noted that the well is expected to take water under "vacuum" conditions.
4. The sources of injection waters will be produced waters from the general area in which the well is located. Injected waters should include Bonespring, Wolfcamp, and Morrow. Compatibility of the disposal waters with the injected waters is expected because the waters originated from the same formations in the general area.
5. Chlorides for the Wolfcamp and Morrow formations in this area are 58,000-120,000 ppm and 33,000 ppm, respectively. This is based on the U.S.G.S. Basin Report 75-579, entitled "Water Quality of Oil & Gas Wells in the Permian"

Part VIII

Geologic data on injection zones:

Wolfcamp Formation: The Wolfcamp formation top in the subject well is 10,847 ft (-6,859 ft subsea) and is approximately 728 ft thick. It consists of thin bedded dolomitic shale & sandstone, underlain by a carbonate bank of low porosity of 2-3%, grading into arg. dolomite and dolomite shales.

Penn Formation: The Penn formation top occurs at 11,862 ft (-7,874 ft subsea) and is approximately 318 ft thick. The Penn sequence consists of shales and thin intel-bedded dolomite and clay, grading to thin argillaceous limestone.

Strawn Formation: The Strawn formation top occurs at 12,131 ft (-6,161 ft subsea) and is approximately 300 ft thick. It consists of Arenaceous limestone and shale at the top grading to a massive limestone at the base with porosity of 2-3%.

Atoka Formation: The Atoka formation top occurs at 12,481 ft (-8,494 ft subsea) and is approximately 536 ft thick. It consists of thin bedded shales and limestone with some dolomitic shalestone at the top. The mid-Atoka is characterized by a massive shale grading into a massive carbonate. Its porosity is from 2-3%.

Morrow Formation: The Morrow formation top occurs at 12,844 ft (-8,856 ft subsea) and is approximately 504 ft thick. It consists of limestone, sand, and thin shales interbedded.

Devonian Formation: The Devonian formation top should occur at approximately 14,500 ft (-10,512 ft subsea) and is approximately 300 ft thick.

Fresh Water Sources:

Ogallala Formation: The Ogallala formation is the only source of potable water in the area. The base of the formation can be found at 180 ft as confirmed by Jim Wright of the N.M. State Engineers Office in Roswell.

Santa Rosa Formation: The Santa Rosa formation in this area is not potable as it is salt bearing. Also confirmed by Jim Wright.

Part IX

No stimulation programs have been planned at this time, but should it be necessary 15% HCL with the appropriate volumes for the area to be treated will be used.

Part X

All logs and test data have been previously submitted to the OCD.

Part XI

There are two fresh water wells within a mile of the proposed well:
(Note Amstar Exhibit No. 4 for the well locations)

Fresh Water Well No. 1: This is a domestic well and is located in the SW/4SE/4 NE/4, Sec. 35, T18S, R34E. It is completed in the Ogallala. The State Engineers Office has no other information on the well except that the well tested 21 ppm chlorides in July 1984.

Fresh Water Well No. 2: This well was drilled by Mesa Petroleum as a drilling fluid water supply well. It is located in the NW/4 NW/4, Sec. 35, T18S, R34E. It is completed in the Ogallala to a TD of 180 ft. Perforated at 119-180 ft with the top of water at 130 ft. It is cased with 6 5/8 in casing to TD.

There are two other fresh water wells in the area, but not within a mile of the proposed well. They are denoted on the map as Fresh Water Well No. 3 and No. 4. Information is available on this if requested.

Part XII

Affirmative Statement:

I hereby affirm that I 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.

Gilbert P. Quintana
Gilbert P. Quintana, Regulatory Consultant

Note Amstar Exhibit . 6, "Geologic Contour Map" of the Strawn formation.

Part XIII

Note Amstar Exhibit No. 7 and No. 8 entitled, " Area of Review Offset Operators" and "Proof of Notice" respectively.

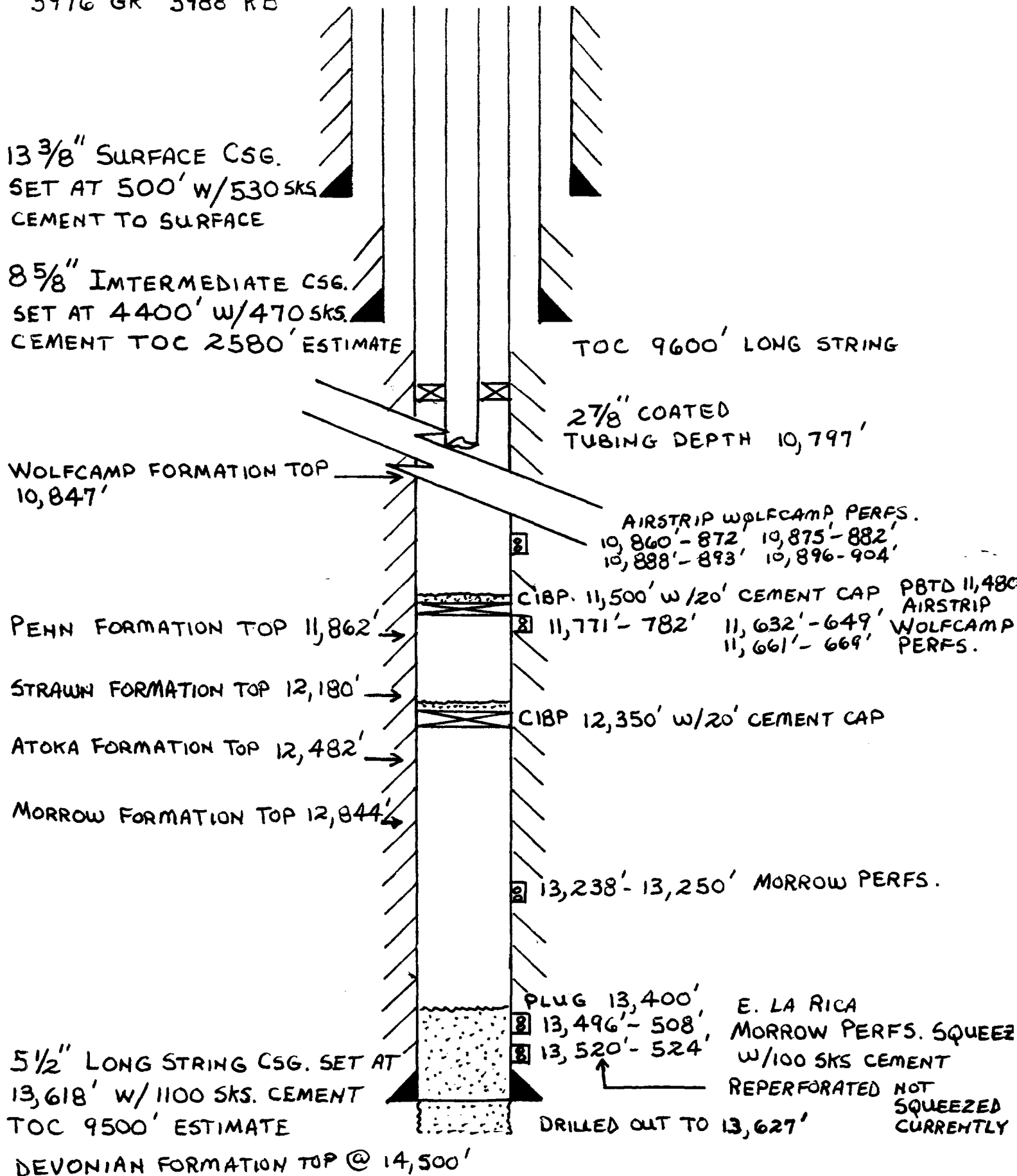
Part XIV

Note Amstar Exhibit No. 1, OCD Form C-108 for Certification.

AMSTAR ENERGY CORPORATION

NEW MEXICO "A" STATE WELL NO. 1
66C FSL & 2080' FEL OF SECTION 35
TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM, LEA CO., N.M.

3976' GR 3988' KB

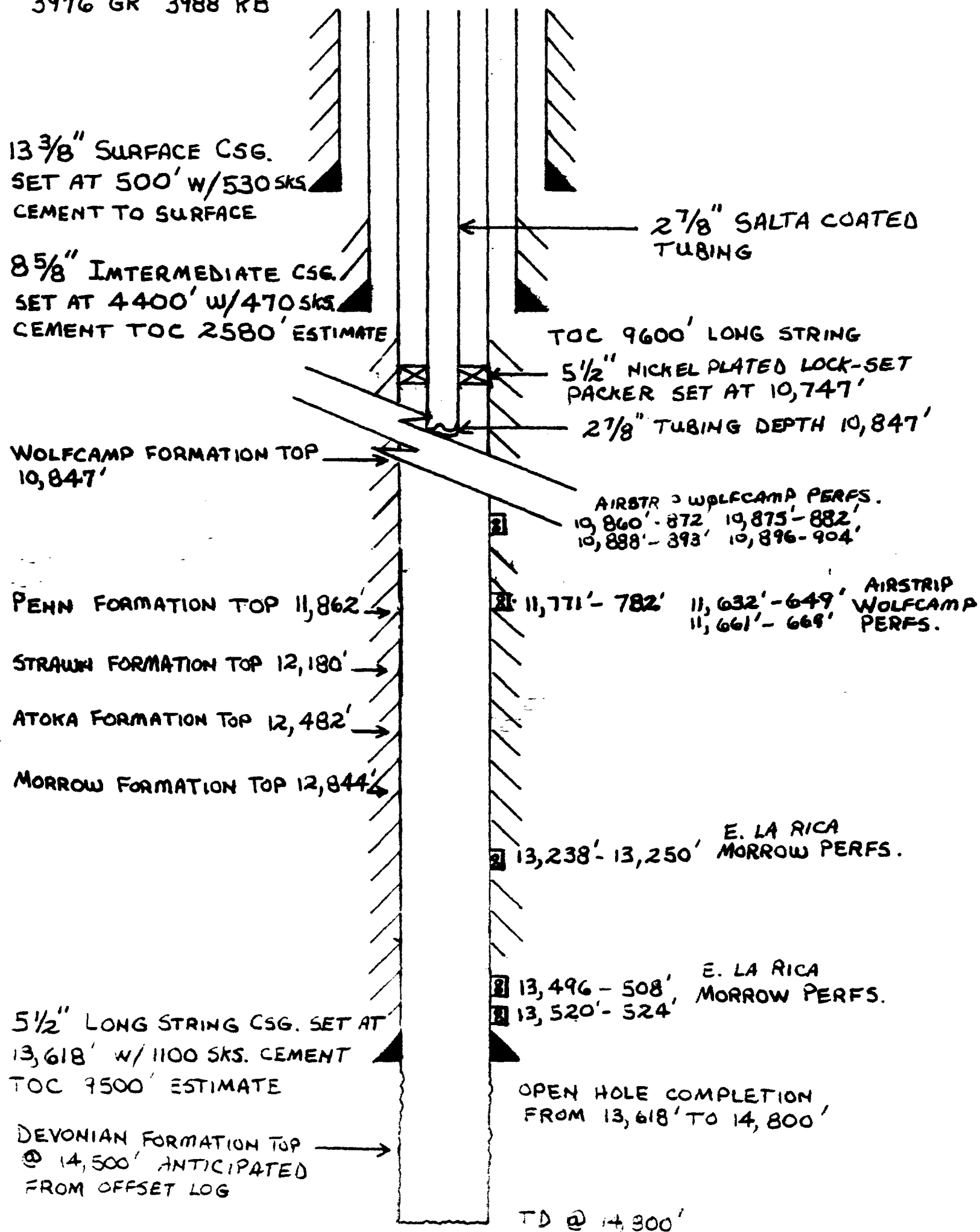


"WELLBORE SCHEMATIC"
"CURRENT STATUS"

AMSTAR ENERGY CORPORATION

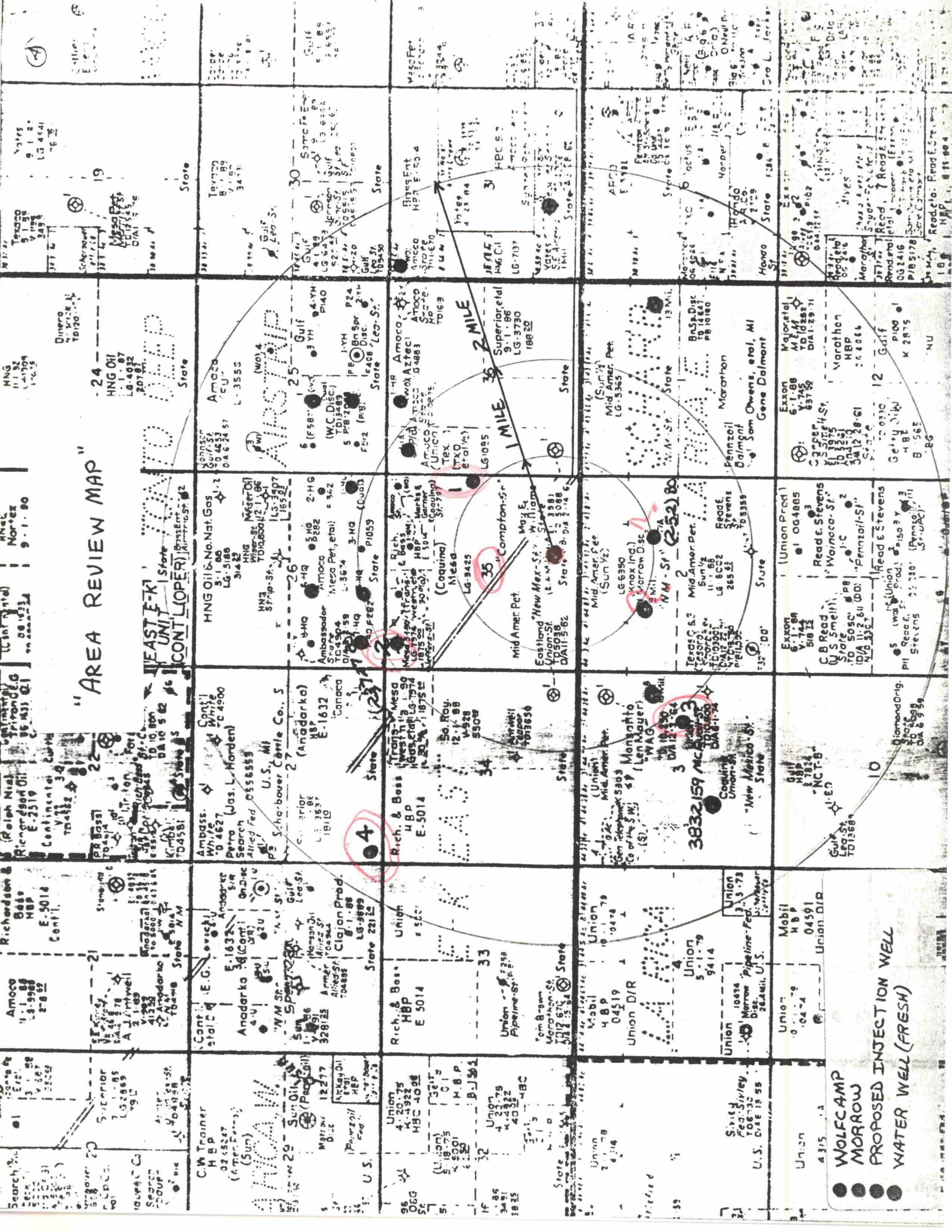
NEW MEXICO "A" STATE WELL NO. 1
660' FSL & 2080' FEL OF SECTION 35
TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM, LEA Co., N.M.

3976' GR 3988' KB



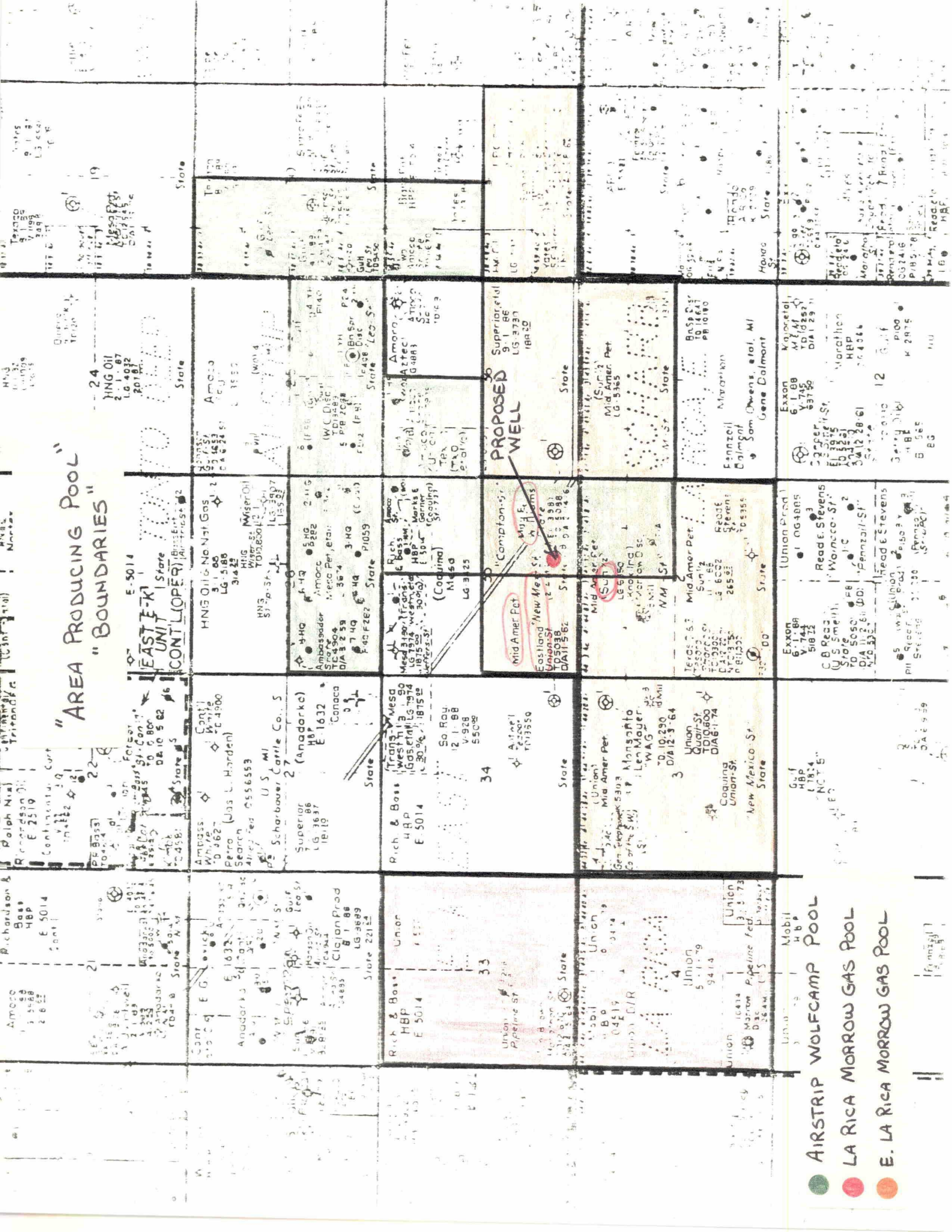
"PROPOSED INJECTION"
WELL SCHEMATIC

"AREA REVIEW MAP"



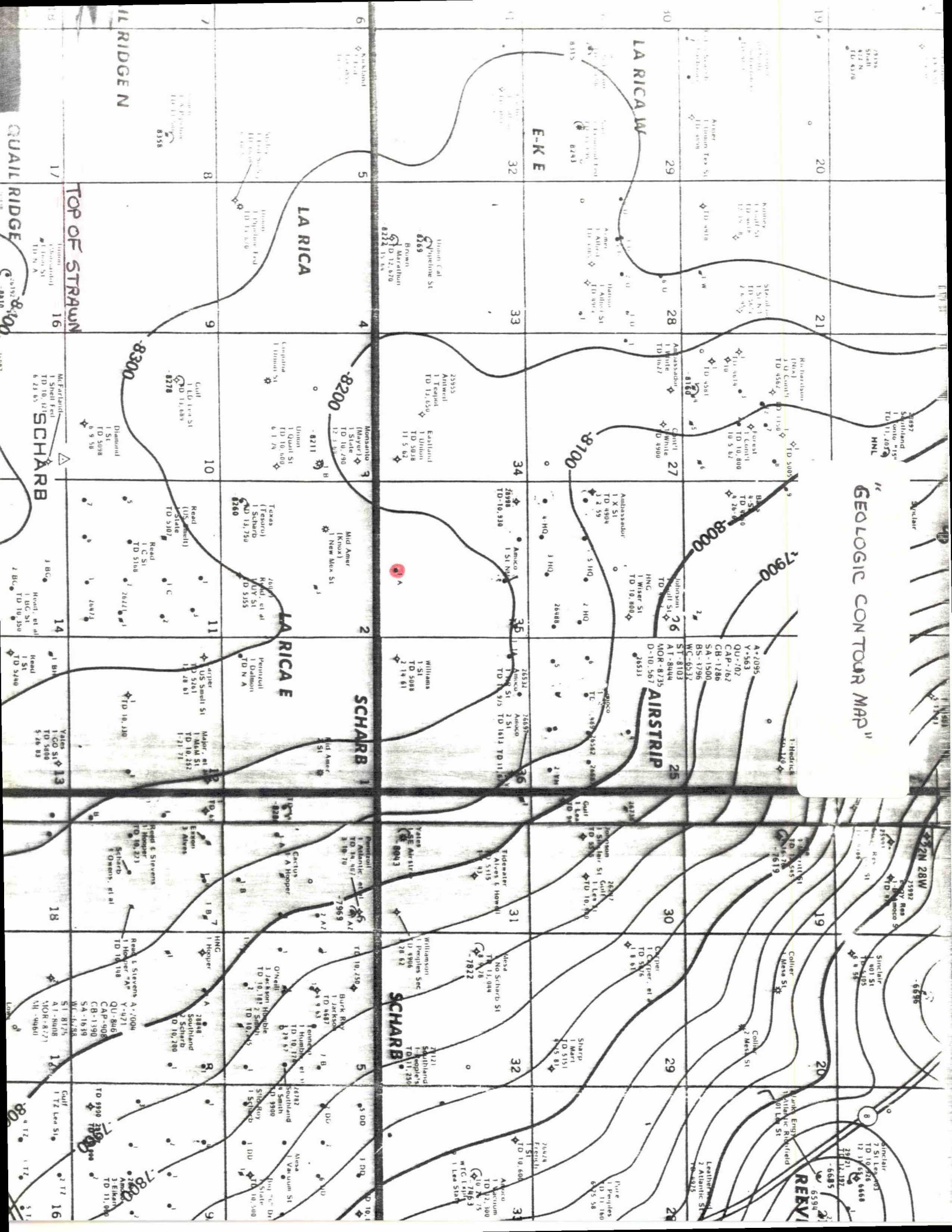
WOLFCAMP
MORROW
PROPOSED INJECTION WELL
WATER WELL (FRESH)

"AREA PRODUCING POOL" "BOUNDARIES"

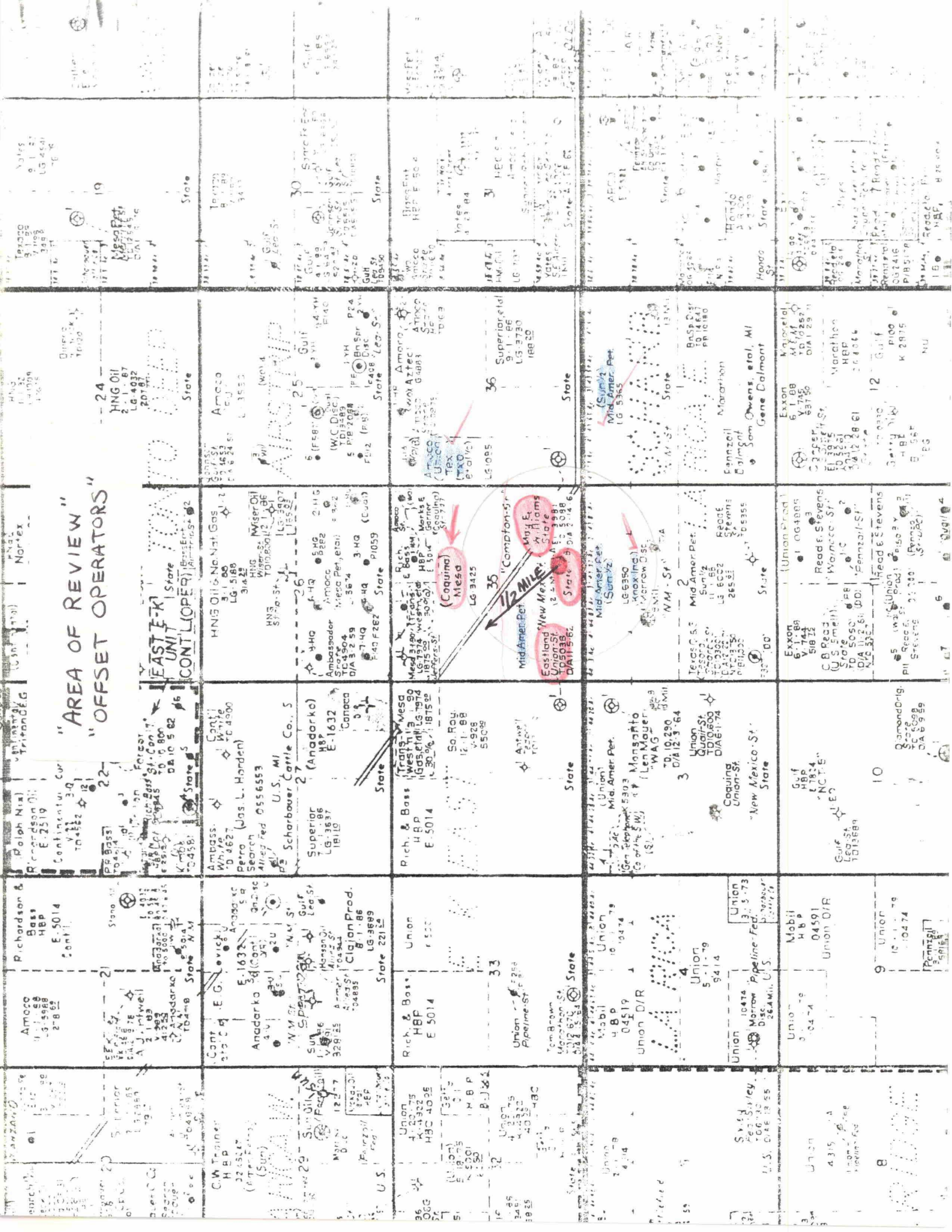


- AIRSTIP WOLFECAMP POOL
- LA RICA MORROW GAS POOL
- E. LA RICA MORROW GAS POOL

Topographic map of the Rio Grande area, showing contour lines, elevation, and geographical features. The map includes labels for 'Rio Grande', 'Rio Puerco', 'Rio San Juan', and 'Rio Santa Fe'. It also shows 'Cerro Puerco', 'Cerro San Juan', and 'Cerro Santa Fe'. The map is divided into sections by a grid, with numbers 19 and 20 visible. A scale bar at the bottom indicates distances in miles (0 to 10) and kilometers (0 to 16). The map is titled 'GEOLOGICAL MAP OF THE RIO GRANDE AREA' and includes a legend for 'Geological Features' and 'Topographic Features'.



EAST E-K UNIT State CONT'LOPER) (Base Entry 102



• **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
☐ **RESTRICTED DELIVERY**
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ _____

3. **ARTICLE ADDRESSED TO:**
 Union Texas Petroleum
 4000 S.W. Spring #500
 Midland, Texas 79701

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
[Signature]

5. **DATE OF DELIVERY** **POSTMARK**
 7-2-86

6. **ADDRESSEE'S ADDRESS (Only if requested)**
 7-2-86

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**

• **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
☐ **RESTRICTED DELIVERY**
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ _____

3. **ARTICLE ADDRESSED TO:**
 TXC
 900 Wilco Bldg.
 Midland, Texas 79701

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
[Signature]

5. **DATE OF DELIVERY** **POSTMARK**
 7-2-86

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**

• **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
☐ **RESTRICTED DELIVERY**
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ _____

3. **ARTICLE ADDRESSED TO:**
 Knox Industry, Inc.
 P.O. Box 3023
 Midland, Texas 79702

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
[Signature]

5. **DATE OF DELIVERY** **POSTMARK**
 7-2-86

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**
 [Circular Postmark: JUL 2 1986 USPO]

• **SENDER:** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one):
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery ..
☐ **RESTRICTED DELIVERY**
(The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$ _____

3. **ARTICLE ADDRESSED TO:**
 Amoco Prod. Co.
 Box 68
 Hobbs, N.M. 88240

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
[Signature]

5. **DATE OF DELIVERY** **POSTMARK**
 7-3-86

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**
 [Circular Postmark: JUL 3 1986 USPO]

● **SENDER** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☐ Show to whom and date delivered
☐ Show to whom, date, and address of delivery.....
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. **ARTICLE ADDRESSED TO:**
 Sun Expt. & Prod. Co.
 Box 186
 Midland Texas 79702

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☒ Authorized agent
[Signature]

5. **DATE OF DELIVERY** **POSTMARK**
 JUL 2 1986
 MIDLAND TX

6. **ADDRESSEE'S ADDRESS (Only if requested)**
 SUN EXP.
 Box 186
 Midland TX

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**
 W

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● **SENDER** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered
☐ Show to whom, date, and address of delivery.....
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. **ARTICLE ADDRESSED TO:**
 State Land Office
 P.O. Box 1142
 Santa Fe, N.M. 87504-1142

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
[Signature]

5. **DATE OF DELIVERY** **POSTMARK**
 JUL 1 1986
 SANTA FE NM

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**
 HCD

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

● **SENDER** Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☐ Show to whom and date delivered
☐ Show to whom, date, and address of delivery.....
 2. ☐ **RESTRICTED DELIVERY**
 (The restricted delivery fee is charged in addition to the return receipt fee.)

TOTAL \$

3. **ARTICLE ADDRESSED TO:**
 NMOC
 P.O. Box 1980
 Hobbs, NM 88240

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**
☐ REGISTERED ☐ INSURED
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
SIGNATURE ☐ Addressee ☐ Authorized agent
[Signature]

5. **DATE OF DELIVERY** **POSTMARK**

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7. **UNABLE TO DELIVER BECAUSE:** 7a. **EMPLOYEE'S INITIALS**
 7-7-86

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

Memo

From

DAVID CATANACH
Petroleum Engineer

To Amstar Energy Corp.

SWD well

660 FSL

2080 FEL Sec. 35, T-18S, R-34E

Lee County, New Mexico

Top Wolfcamp - down to through Morrow.

~~13,600 - 13,627~~

~~13,600 - 13,627~~

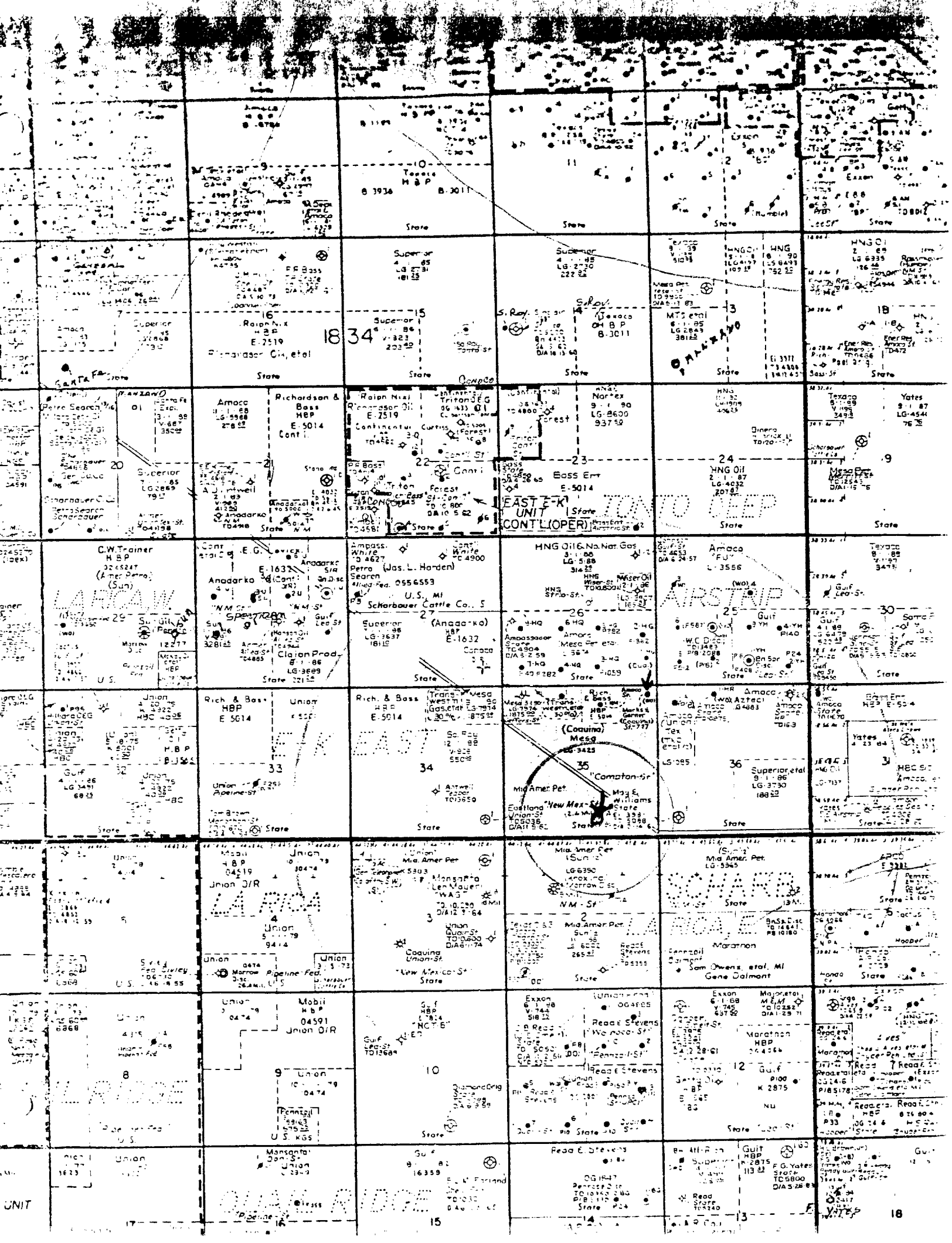
N.M. "A" State No. 1

9600 - 13,627

Bone Springs through Morrow

Called in by
Gilbert D. Quintana
w/ the Public Service
Commission
(11:30 AM)

Oil Conservation Division
PO Box 2088, Santa Fe, New Mexico 87501



Case 8934

REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Mid-America Petroleum, Inc.

P. O. Box 2515, Midland, TX 79702

Reason(s) for filing (Check proper box)		Other (Please explain)	
New Well ☐	Change in Transporter of:		
Completion ☒	Oil ☐	Dry Gas ☐	
Change in Ownership ☐	Casinghead Gas ☐	Condensate ☐	

Change of ownership give name
and address of previous owner

THIS WELL HAS BEEN PLACED IN THE POOL
DESIGNATED BELOW. IF YOU DO NOT CONCUR
NOTIFY THIS OFFICE. (2-1-83)

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, including Formation	Kind of Lease	Lease No.
New Mexico "A" State	1	Airport Wolfcamp R-7193	State, Federal or Fee State	LG 3425
Location				
Unit Corner	0	660	Feet From The South Line and	2080
			Feet From The East	
Line of Section	35	Township	18-S	Range
		34-E		NMPM, Lea County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent)
The Permian Corporation	P. O. Box 1183, Houston, TX 77001
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent)
Warren Petroleum Company	P. O. Box 1589, Tulsa, OK 74102
Well produces oil or liquids, Location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	0 35 18S 34E yes 10-12-82

this production is commingled with that from any other lease or pool, give commingling order number:

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well ☒	Gas Well ☐	New Well ☐	Workover ☐	Deepen ☐	Plug Back ☒	Same Hestv. ☐	Diff. Res. ☐
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
7-24-82	9-21-82	13,618	11,480					
Elevations (DF, RAB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
3976 GR 3988 KB	Wolfcamp	10,850	10,797					
Perforations							Depth Casing Shoe	
10,862-872 - 10,875-882 - 10,888-893 - 10,896-904 - 10,906-910								

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8"	520	500
11"	8-5/8"	4400	220 Lite & 250 CL. C
7-7/8"	5-1/2"	13,618	1100 CL. H.

TEST DATA AND REQUEST FOR ALLOWABLE
OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top oil-
able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
8-21-82	9-24-82	Pump	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
24 hrs.	-	Packer	NA
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF
	40	-0-	

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (spiral, back pr.)	Tubing Pressure (Shot-in)	Casing Pressure (Shot-in)	Choke Size

CERTIFICATE OF COMPLIANCE

OIL CONSERVATION DIVISION

NEW MEXICO
OIL CONSERVATION DIVISION
P. O. BOX 1980
HOBBS, NEW MEXICO
88240

Date December 17, 1982

NOTICE OF LLANO'S GAS DISCONNECTION:

OPERATOR: Mid-America Petroleum, Inc.

LEASE: New Mexico State "A"

WELL NUMBER AND UNIT: 1 0

LOCATION: 35 - 18S - 34E

POOL: East La Rica Morrow

DATE WELL DISCONNECTED: December 8, 1982 10:00 A.M.

LLANO'S STATION NUMBER: 320

LLANO, INC.
TRANSPORTER



REPRESENTATIVE
AL KLAAR

VICE PRESIDENT-ENGINEERING
TITLE

xc: Oil Conservation Division, Box 2088, Santa Fe, New Mexico 87501

NAME (Underline)	DATE	INJECTION		TOTAL LIQUIDS PRODUCED			GAS PRODUCED (MCF)	DAYS PRODUCTION	DISPOSITION OF GAS			DISPOSITION OF OIL			
		VOLUME	PRESS.	MONTHLY GEL ALLOWABLE PRODUCED	ACTUAL BARRELS OF WATER PRODUCED	BARRELS OF WATER PRODUCED			SOLD	TRANS. FOR USE	OTHER	OIL ON HAND AT BEG. OF MONTH	BARRELS TO OTHER	OTHER	OIL ON HAND AT END OF MONTH
TRIP WOLF CAMP															
State #3	T			WELL IS TEMPORARILY ABANDONED											
A State #1	T			WELL IS TEMPORARILY ABANDONED											
35 18S 34E															
END GROUP 10															
SECTION															
CA MORROW, EAST (Gas)															
M. State #1	F														
2 19S 34E															
M. State #2	D														
1 19S 34E															
State B	F														
3 19S 34E															

DISPOSITION	STATUS CODE	OTHER GAS DISPOSITION CODE	OTHER OIL DISPOSITION CODE
ORIGINAL TO SEC SANTA FE	1. FILLING	1. USED FOR LEASE	1. CIRCULATING OIL
CO COPY TO SEC DIST. OFFICE	2. PUMPING	2. USED FOR DRILLING	2. CIRCULATING OIL
CO COPY TO TRANSPORTERS	3. GAS LIFT	3. GAS LIFT	3. CIRCULATING OIL
	4. GAS LIFT	4. GAS LIFT	4. CIRCULATING OIL
	5. GAS LIFT	5. GAS LIFT	5. CIRCULATING OIL
	6. GAS LIFT	6. GAS LIFT	6. CIRCULATING OIL
	7. GAS LIFT	7. GAS LIFT	7. CIRCULATING OIL
	8. GAS LIFT	8. GAS LIFT	8. CIRCULATING OIL
	9. GAS LIFT	9. GAS LIFT	9. CIRCULATING OIL
	10. GAS LIFT	10. GAS LIFT	10. CIRCULATING OIL
	11. GAS LIFT	11. GAS LIFT	11. CIRCULATING OIL
	12. GAS LIFT	12. GAS LIFT	12. CIRCULATING OIL
	13. GAS LIFT	13. GAS LIFT	13. CIRCULATING OIL
	14. GAS LIFT	14. GAS LIFT	14. CIRCULATING OIL
	15. GAS LIFT	15. GAS LIFT	15. CIRCULATING OIL
	16. GAS LIFT	16. GAS LIFT	16. CIRCULATING OIL
	17. GAS LIFT	17. GAS LIFT	17. CIRCULATING OIL
	18. GAS LIFT	18. GAS LIFT	18. CIRCULATING OIL
	19. GAS LIFT	19. GAS LIFT	19. CIRCULATING OIL
	20. GAS LIFT	20. GAS LIFT	20. CIRCULATING OIL
	21. GAS LIFT	21. GAS LIFT	21. CIRCULATING OIL
	22. GAS LIFT	22. GAS LIFT	22. CIRCULATING OIL
	23. GAS LIFT	23. GAS LIFT	23. CIRCULATING OIL
	24. GAS LIFT	24. GAS LIFT	24. CIRCULATING OIL
	25. GAS LIFT	25. GAS LIFT	25. CIRCULATING OIL
	26. GAS LIFT	26. GAS LIFT	26. CIRCULATING OIL
	27. GAS LIFT	27. GAS LIFT	27. CIRCULATING OIL
	28. GAS LIFT	28. GAS LIFT	28. CIRCULATING OIL
	29. GAS LIFT	29. GAS LIFT	29. CIRCULATING OIL
	30. GAS LIFT	30. GAS LIFT	30. CIRCULATING OIL
	31. GAS LIFT	31. GAS LIFT	31. CIRCULATING OIL
	32. GAS LIFT	32. GAS LIFT	32. CIRCULATING OIL
	33. GAS LIFT	33. GAS LIFT	33. CIRCULATING OIL
	34. GAS LIFT	34. GAS LIFT	34. CIRCULATING OIL
	35. GAS LIFT	35. GAS LIFT	35. CIRCULATING OIL
	36. GAS LIFT	36. GAS LIFT	36. CIRCULATING OIL
	37. GAS LIFT	37. GAS LIFT	37. CIRCULATING OIL
	38. GAS LIFT	38. GAS LIFT	38. CIRCULATING OIL
	39. GAS LIFT	39. GAS LIFT	39. CIRCULATING OIL
	40. GAS LIFT	40. GAS LIFT	40. CIRCULATING OIL
	41. GAS LIFT	41. GAS LIFT	41. CIRCULATING OIL
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	99. GAS LIFT	99. GAS LIFT	99. CIRCULATING OIL
	100. GAS LIFT	100. GAS LIFT	100. CIRCULATING OIL

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE

Sondra G. Lawbaugh, Prod. Clerk

FILE		
U.S.O.B.		
LAND OFFICE		
OPERATOR		



State TX
3. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. ☐ OIL WELL ☒ GAS WELL ☐ OTHER		7. Unit Agreement Name
2. Name of Operator Mid-America Petroleum, Inc.		8. Farm or Lease Name New Mexico "A" State
3. Address of Operator P. O. Box 2515, Midland, TX 79702		9. Well No. 1
4. Location of Well UNIT LETTER <u>0</u> <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>2080</u> FEET FROM THE <u>East</u> LINE, SECTION <u>35</u> TOWNSHIP <u>18S</u> RANGE <u>34E</u> NMPM.		10. Field and Pool, or Wildcat East La Rica
11. Elevation (Show whether DF, RT, GR, etc.) 3976' GR 3988 KB		12. County Lea

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPS. ☐	PLUG AND ABANDON ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOB ☐	

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

1. RIH milled over permanent packer and pulled same.
2. Squeezed perfs 13,496-508; 13,520-524 with 100 sx Class "H" cement, 1/2 BPM 6500 p
3. RIH w/bit tagged top of cement @ 12,895', drilled out cement to 13,627'.
4. Reperforated Morrow Sand 13,520-524 with 2 JSPF and acidized with 500 gals 7-1/2% HCL. Swabbed and tested with no results.
5. RIH and set CIBP @ 12,350' and capped w/20' cement.
6. Perforated Wolfcamp formation 11,771-11,782 1 JSPF (12 holes). Acidized w/500 gal HCL, swabbed and tested. No shows.
7. RIH and set RBP @ 11,700'. Perforated Wolfcamp 11,632-649; 11,661-669 1 JSPF. Acidized perfs w/7500 gals 15% MSL acid. Flowed and swabbed with no shows.
8. Recovered RBP, set CIBP 11,500', capped with 20' cement. PBTD 11,480'.
9. RIH and perforated Upper Wolfcamp 10,860-10872; 10,875-882; 10,888-893; 10,896-90
- 10,906-10,910. Acidized with 1500 gals 15% HCL. Presently flowing and testing.

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

Signed Ed Robinson TITLE Engineer DATE 8-31-82

APPROVED BY ORIGINAL SIGNED BY TITLE Y. GARY SEXTON DATE SEP 3 1
CONDITIONS OF APPROVAL (IF ANY)
0.00000000

Testing Method (piston, back pr.)	Tubing Pressure (fsat-in)	Casing Pressure (fsat-in)	Choke Size
-----------------------------------	---------------------------	---------------------------	------------

CERTIFICATE OF COMPLIANCE

OIL CONSERVATION DIVISION

SEP 2 1982

Change in Ownership ☐Casinghead Gas ☐Condensate ☐

If change of ownership give name
and address of previous owner _____

DESCRIPTION OF WELL AND LEASE

P-7009

4-1-82

Well Name New Mexico "A" State	Well No. 1	Pool Name, Including Formation East La Rica Morrow	Kind of Lease State, Federal or Fee	State Lea	Lessor's LG 3425
Location					
Unit Letter Q	: 660	Feet From The South	Line and 2080	Feet From The East	
Line of Section 35	Township 18S	Range 34E	, NMPM,		County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)	
The Permian Corporation	P. O. Box 1183, Houston, TX 77001	
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)	
Lano Inc.	P. O. Box 1320, Hobbs, New Mexico 88240	
If well produces oil or liquids, give location of tanks.	Unit 0	Sec. 35
	Twp. 18S	Rce. 34E
Is gas actually connected?	No	When Within 45 days

If this production is commingled with that from any other lease or pool, give commingling order number: _____

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res't.
		X	X				
Date Spudded 8-13-81	Date Compl. Ready to Prod. 2-15-82	Total Depth 13,618	P.B.T.D. 13,400				
Elevations (DF, RKB, RT, GR, etc.) 3976' GR 3988 KB	Name of Producing Formation Morrow	Top Oil/Gas Pay 13,238	Tubing Depth 13,050				
Perforations 13,238 - 13,250 (13 holes)	Depth Casing Shoe NA						

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17-1/2"	13-3/8	520	500
11"	8-5/8"	4400	220 Lite + 250 C1. C
7-7/8"	5-1/2"	13,618'	1100 C1. H

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top o.
able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D 2880	Length of Test 4 Hrs.	Bbls. Condensate/MMCF 52.8	Gravity of Condensate 49.9
Testing Method (pilot, back pr.) back pressure	Tubing Pressure (shot-in) 2050	Casing Pressure (shot-in) packer	Choke Size 6/64-8/64-6/64

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Barbara M. McLean
(Signature)

Engineering Assistant

(Title)

March 3, 1982

OIL CONSERVATION DIVISION

APPROVED APR 17 1982, 19
BY JERRY SEATON
TITLE DISTRICT LEADER

This form is to be used in compliance with RULE 1.01.

If this is a request for allowable for a newly drilled or deep well, this form must be accompanied by a tabulation of the dev. tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for a well on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of well name or number, or transporter, or other such change of data.

DISTRIBUTION		
FE		
G.S.		
NO OFFICE		
ERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. Include Type of Lease	State ☒ Fed ☐
2. State Oil & Gas Lease No.	

TYPE OF WELL	OIL WELL ☐	GAS WELL ☒	DRY ☐	OTHER		
TYPE OF COMPLETION	NEW WELL ☒	WORK OVER ☐	DEEPEN ☐	PLUG BACK ☐	DIFF. RESVR. ☐	OTHER

3. Well Agreement Name	
4. Firm or Lease Name	New Mexico "A" State
5. Well No.	1

Name of Operator
Mid-America Petroleum, Inc.
Address of Operator
P.O. Box 2515, Midland, TX 79702

6. Field and Pool, or Wildcat	East La Rica
-------------------------------	--------------

Location of Well
LETTER 0 LOCATED 660 FEET FROM THE South LINE AND 2080 FEET FROM

7. County	Lea
-----------	-----

East LINE OF SEC. 35 TWP. 18S RGE. 34E

Date Spudded 3-13-81	16. Date T.D. Reached 11-6-81	17. Date Compl. (Ready to Prod.) 2-15-82	18. Elevations (DF, RKB, RT, GR, etc.) 3976' GR 3988 KB	19. Elev. Casinghead
Total Depth 13,618	21. Plug Back T.D. 13,400	22. If Multiple Compl., How Many	23. Interval Rotary Tools Rotary	Cable Tools

Producing Interval(s), of this completion - Top, Bottom, Name 13,238 - 13,250 Morrow	25. Was Directional Survey Made No
---	---------------------------------------

Electric and Other Logs Run DLL & CNL/FDC	27. Was Well Cored No
--	--------------------------

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	520	17-1/2"	500 sx Cl C; Circ.	None
8-5/8"	24# & 32#	4400	11"	220 sx Lite + 250 sx Cl C	None
5-1/2"	17# & 20#	13,618'	7-7/8"	1100 sx Cl. H	None

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
None					2-7/8	13,050	13,020

Perforation Record (Interval, size and number)		12. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
13,238 - 13,250 (13 holes)		13,238-13,250	250 gals 7-1/2% Acid

3. PRODUCTION				Well Status (Prod. or Shut-in)			
Date First Production 12-4-81		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing to clean up			Shut in		
Date of Test 2-15-82	Hours Tested 4	Flowing Rate 6/64 8/64	Prod'n. For Test Period 6/64	Oil - Bbl. 8.8	Gas - MCF 480	Water - Bbl. 8.1	Gas - Oil Ratio 54,545
Flow Tubing Press. 2050	Casing Pressure Packer	Calculated 24-Hour Rate	Oil - Bbl. 52.8	Gas - MCF 2880	Water - Bbl. 48.6	Oil Gravity - API (Corr.) 49.9	
Disposition of Gas (Sold, used for fuel, vented, etc.) Vented				Test Witnessed By Otis Engineering			

5. List of Attachments C-122

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

B. A. Smith

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOLOGICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy <u>1889</u>	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn <u>12,180</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Salt _____	T. Anoka <u>12,676</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>3445</u>	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>4720</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg <u>5298</u>	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzite _____
T. Glorieta _____	T. McKee _____	T. Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blaineby _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs <u>7,974</u>	T. Wingate _____	T. _____
T. Wolfcamp <u>10,847</u>	T. Morrow Lime <u>12,844</u>	T. Chinle _____	T. _____
T. Penn. _____	T. Morrow Pay <u>13,227</u>	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

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

No. 1, from _____ to _____	feet _____
No. 2, from _____ to _____	feet _____
No. 3, from _____ to _____	feet _____
No. 4, from _____ to _____	feet _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	339	339	Surface Rock	11460	12080	620	Lime & Shale
339	520	181	RB & Shale	12080	12212	132	Shale
520	1550	1030	Anhy. & Shale	12212	13114	902	Lime & Shale
1550	3122	1572	Anhydrite & Salt	13114	13203	89	Shale & Chert
3122	3440	318	Anhydrite	13202	13446	243	Lime & Shale
3440	4440	1000	Anhydrite & Lime	13446	13515	59	Shale
4440	6085	1645	Lime	13515	13618	103	Lime, Shale & Sand
6085	6492	407	Lime & Shale				
6492	8945	2453	Lime				
8945	9200	255	Lime & Chert				
9200	9621	421	Lime & Shale				
9621	9840	219	Lime & Chert				
9840	10181	341	Shale				
10181	10287	106	Dolomite & Lime				
10287	10401	114	Dolomite & Shale				
10401	10508	107	Lime, Dolomite & Shale				
10508	11312	804	Lime & Shale				
11312	11460	148	Lime, Shale & Chert				

RECEIVED

MAR - 4 1982

G.C.D.
MOBUS OFFICE

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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-101
Revised 10-1-77

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS

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

OIL WELL ☐	GAS WELL ☒	OTHER ☐	7. Unit Agreement Name
Name of Operator Mid-America Petroleum, Inc.			8. Name of Lease Name New Mexico "A" State
Address of Operator P. O. Box 2515, Midland, TX 79702			9. Well No. 1
Location of Well UNIT LETTER 0 660 FEET FROM THE South LINE AND 2080 FEET FROM THE East LINE, SECTION 35 TOWNSHIP 18S RANGE 34E NMPW.			10. Field and Pool, or Whichever East La Rica
15. Elevation (Show whether DF, RT, GR, etc.) 3976' GR			12. County Lea

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐	ALTERING CASING ☐
COMMENCE DRILLING OPERATIONS ☐	PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOBS ☐	
OTHER Complete Well ☐	

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

MIRU completion rig. Ran correlation logs. Spotted 500 gals. 7-1/2% acid across interval 13,496-13,524'. Perforated Morrow 13,496-13,508' and 13,520-13,524' w/2 shots per foot. Pump spot acid, swab and test. Set blanking plug. Spot 250 gals. 7-1/2% acid across interval 13,238-250'. Perf. 13,238'-250' w/2 shots per foot. RIH and set packer @ 13,020' Swab and test. Shut well in, now preparing to run four point potential test.

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

ORIGINAL SIGNED BY
JERRY SEXTON
DISTRICT 1 SUPR.
CONDITIONS OF APPROVAL, IF ANY:

TITLE C. J. Love
DATE 2-24-82
DATE FEB 26 1982

NAME	
DATE	
WELL	
LEAD OFFICE	
OPERATION	

REGISTRATION DIVISION
P O BOX 2888
SANTA FE, NEW MEXICO 87501

Form
Revised

1. Indicate Type of Lease
State ☒ F
2. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO OPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE APPLICATION FOR PERMIT - 1 (FORM C-101) FOR SUCH PROPOSALS.

3. Oil Well ☐ Gas Well ☒ OTHER ☐

4. Name of Operator
Mid-America Petroleum, Inc.

5. Address of Operator
P. O. Box 2515, Midland, TX 79702

6. Location of Well
UNIT LETTER 0 660 FEET FROM THE South LINE AND 2080 FEET FROM
THE East LINE, SECTION 35 TOWNSHIP 18S RANGE 34E N14PM.

7. Unit Agreement Name

8. Farm or Lease Name
New Mexico "A" St

9. Well No.
1

10. Field and Pool, or Wildcat

11. Elevation (Show whether DF, RT, GR, etc.)
3976 GR

12. County
Lea

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOBS ☒	OTHER ☐

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

Drilled out from under 8-5/8" casing with a 7-7/8" hole to TD of 13,620'. Ran logs. 338 jts of 5-1/2" csg, set @ 13,618'. Cemented w/1100 sx Class "H". PD @ 4:15 A.M. 11-10-81. Calculated top of cement 9500'.

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

SIGNED Charles J. Rowe TITLE Production Manager DATE 2-19-82

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

CO. OF PLUGS REQUIRED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

P O BOX 2088
SANTA FE, NEW MEXICO 87501

Revised 12

5a. Indicate Type of Lease
State ☒ Fee
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	7. Unit Agreement Name
2. Name of Operator Mid-America Petroleum, Inc.	8. Farm or Lease Name New Mexico "A" State
3. Address of Operator P. O. Box 3023, Midland, Texas 79702	9. Well No. 1
4. Location of Well UNIT LETTER <u>0</u> <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>2080</u> FEET FROM THE <u>East</u> LINE, SECTION <u>35</u> TOWNSHIP <u>18-S</u> RANGE <u>34-E</u> N.M.P.M.	10. Field and Pool, or Wildcat East La Rica
15. Elevation (Show whether DF, RT, GR, etc.) 3976' GR	12. County Lea

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	OTHER ☐	CASING TEST AND CEMENT JOBS ☒	
		OTHER <u>Change name of Operator</u>	

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

Drilled a 12-1/4" hole to 4400'. Ran 114 jts 8-5/8" (4402') 24# and 32# casing. Set at 4400'. Cemented with 2200 sx. lite cement and 250 sx Class "C" cement. Plug down @ 7:30 P.M. 8-24-81. Circulated 250 sx excess cement. Tested to 1500# for 30 minutes. Tested OK. Drilled out with a 7-7/8" bit.

This well is now being operated by Mid-America Petroleum, previously operated by Knox Industries, Inc., same address.

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

SIGNED Charles F. Love TITLE Production Manager DATE 8-31-81

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

SANTA FE	
FILE	
U.S.O.B.	
LAND OFFICE	
OPERATOR	

P. O. BOX 208A
SANTA FE, NEW MEXICO 87501

Form G-101
Revised 10-1-

No. Indicate Type of Lease
State ☒ Fee ☐
5. State Oil & Gas Lease No.

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

1. OIL ☐ WELL GAS ☒ WELL OTHER _____

2. Name of Operator
Knox Industries, Inc.

3. Address of Operator
P. O. Box 3023, Midland, Texas 79702

4. Location of Well
UNIT LETTER 0 660 FEET FROM THE South LINE AND 2080 FEET FROM
THE East LINE, SECTION 35 TOWNSHIP 18-S RANGE 34-E NEPM.

7. Unit Agreement Name

8. Farm or Lease Name
New Mexico "A" State

9. Well No.
1

10. Field and Pool, or Wildcat
East La Rica

11. Elevation (Show whether DF, RT, GR, etc.)
3976 GR

12. County
Lea

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

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

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

Spudded well 7:00 P.M. 8-13-81. Drilled 17-1/2" hole to 520'. Ran 13 joints of 13-3/8" 48# H-40 ST&C and set @ 520'. Cemented with 500 sx Class "C" cement with 2% CaCl. Circulated 50 sx excess. NU BOP's. Test BOP's and casing to 600#, held OK for 30 minutes. Drilled out with 12-1/4" bit.

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

SIGNED Charles J. Rowe TITLE Production Manager DATE 8-18-81

APPROVED BY JOSEPH L. HAY TITLE _____ DATE 8-18-81

CONDITIONS OF APPROVAL, IF ANY:

DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

SANTA FE, NEW MEXICO 87501

5A. Indicate Type of Lease
 STATE ☒ FEDERAL ☐
 5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work AMENDED
 Type of Well DRILL ☒ DEEPEN ☐ PLUG BACK ☐
 OIL WELL ☐ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☐

7. Unit Agreement Name
 8. Farm or Lease Name
 New Mexico "A" State

Name of Operator
 Knox Industries, Inc.
 Address of Operator
 P. O. Box 3023, Midland, Texas 79702

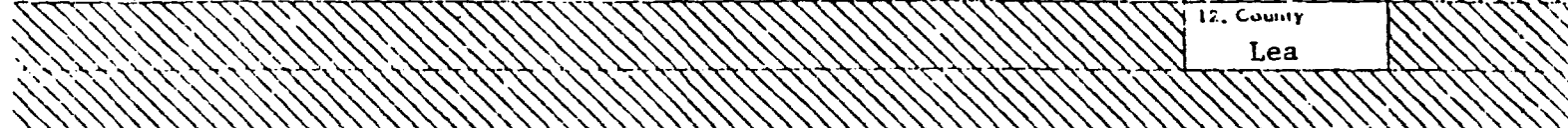
9. Well No.
 1

Location of Well UNIT LETTER 0 LOCATED 660 FEET FROM THE South LINE

10. Field and Pool, or Wildcat
 Undesignated
 Morrow

2080 FEET FROM THE East LINE OF SEC. 35 TWP. 18-S R. 34-E NMPM

12. County
 Lea



19. Proposed Depth 13,700	19A. Formation Morrow	20. Rotary or C.T. Rotary
21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor Willbros Drlg. Co.	22. Approx. Date Work will start August 1, 1981

Elevations (Show whether D.F., R.F., etc.)
 3976 GR

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48	500	530	Surface
12-1/4"	8-5/8"	24 x 32	4400	750	2580
7-7/8"	5-1/2"	17	13,700	800	9700

Drill a 17-1/2" hole with fresh water to 500', run and set 13-3/8" casing, cement to surface. WOC 18 hrs. NUBOP. Test casing and BOP to 600 psi. Drill out and drill ahead in 12-1/4" hole with cut brine to 4400'. Run and set 8-5/8" casing at 4400'. Cement with 750 sx. WOC 18 hrs. NUBOP. Test casing and BOP's to 1500 psi. Drill ahead w/cut brine in 7-7/8" hole. Mud up at 11,000 + to a 30 Vis, 9.5#, 12 to 20 W.L. product. Drill ahead to 13,700', drill stem testing significant shows as indicated from drilling time, samples, and mud log "kicks". Run open hole logs. Run 5-1/2" 17# casing to TD and cement w/800 sx. MORT to complete.

APPROVAL VALID FOR 180 DAYS
 PERMIT EXPIRES 1/17/82
 UNLESS DRILLING UNDERWAY

BOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROD. ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

ed Charles J. Love Title Production Manager Date July 10, 1981

(This space for State Use)

NOVED BY [Signature] TITLE SUPERVISOR DISTRICT 1 DATE JUL 11 1981

DITIONS OF APPROVAL, IF ANY:

10-15-81 Dr1g 12,320
mm 10.3, v1s 39
Dr1g 12,670
10-21-81

Sec 35, T18S, R34E
State

ROLEUM, INC.

MID-AMERICA PET-
ROLEUM, INC.

1 New Mexico "A" State
Sec 35, T18S, R34E

Page #3

5-3-82

Continued

Flwd 406 MCFGPD, chk (NR), 60 mins, TP 2050

Flwd 552 MCFGPD, chk (NR), 60 mins, TP 2050

LOG TOPS: Rustler 1889, Yates 3445.

Queen 4720, Grayburg 5298, Bone Spring 7974,

Wolfcamp 10,847, Strawn 12,180, Atoka 12,676,

Morrow 12,844

LOG RUN: CORL

BHT 180 deg @ 13,244

Rig Released 11-10-81

5-8-82

COMPLETION ISSUED

5-2-50 NM

IC 30-025-70378-81

7788, 5818, 33 Sec

INC.

New Mexico		State	
Sec 35, T18S, R34E		COORD	
660 FSL, 2080 FEL of Sec		5-2-50 NM	
7 mi SW/Buckeye		SPD 8-13-81 EMP 2-15-82	
13 3/8-520-500 sx 8 5/8-4400-450 sx 5 1/2-13,618-1100 sx 2 7/8-13,020		WELL CLASS INIT D FIN DG LSE CODE INFORMATION DATUM INFORMATION DATUM ID 13,618 (MRRW) PRD 13,400	

IP (Morrow) Perfs 13,238-250 CAOF 2429 MCFGPD. GOR 24,500;
 etc (Gas) .6586; (Cond) 49.9; SIWHP 3805; SIBHP 3818

Willeros #5 OPERATES 3676 GL sub-s 13

P.R. 7-20-81

PD 13,700 BT (Morrow)

(Formerly Aban Loc 7-10-81 under AM 9-02-2716,
 located 660 FSL, 1980 FW of Sec)

5-8-82 AMEND OPERATOR: Formerly reported as Knox
 Industries, Inc.

8-20-81 Drilg 3122
 mw 10.4, vis 36

8-26-81 ID 4.00; DOC

9-1-81 Drilg 6492 1m & sh

9-10-81 Drilg 9370

9-16-81 Drilg 9840

mw 10, vis 40

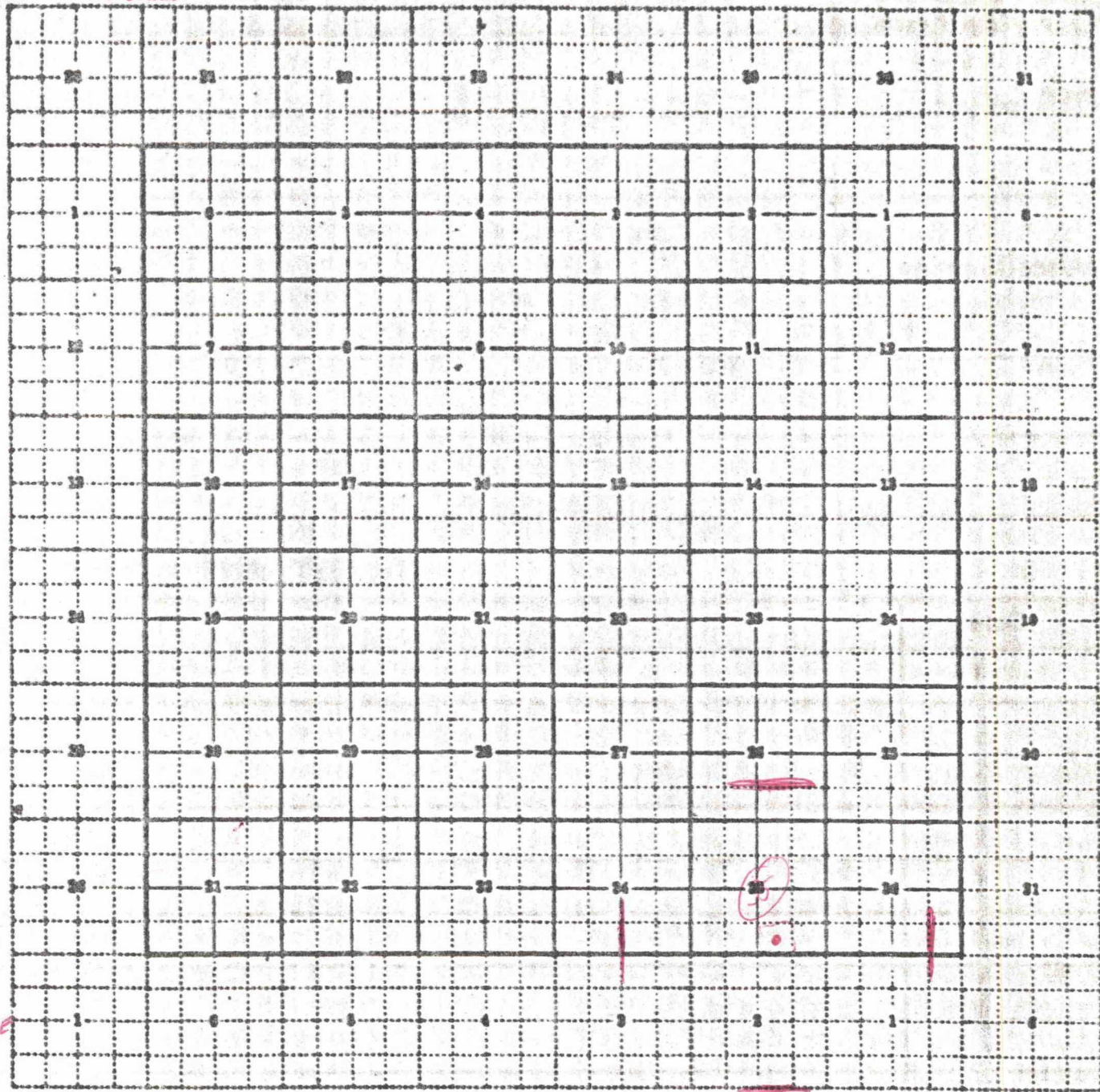
9-22-81 Drilg 10,508 1m & sh
 mw 10, vis 37

10-1-81 Drilg 11,112

10-7-81 Drilg 11,668

mw 10.1, vis 40

Fee



195-34E

Description of
Lands

(Und. Air Strip Bone Spring) (Und. Schenk Bone Spring)
Air Strip Wolfcamp
East La Rica Morrow

Total Acres

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

*M.S.
8/7/86
J 8/11*

*DRC
7-29-86*

11/17/86 8-11-86

CASE NO. 8934

Order No. R- 8278

BK

APPLICATION OF AMSTAR ENERGY
CORPORATION FOR SALT WATER
DISPOSAL, LEA COUNTY, NEW
MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

At, 9, 1986 and on
This cause came on for hearing at 8:15 a.m. on ^vAugust 6,
1986, at Santa Fe, New Mexico, before Examiners Michael E.
Stogner, *respectively.* *David R. Catannach and*

NOW, on this _____ day of August, 1986, the Division
Director, having considered the testimony, the record, and the

recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Amstar Energy Corporation, is the owner and operator of the Mid-American Petroleum Inc. New Mexico State "A" Well No. 1, located ^{560 feet from the Sec. 16 line and 2080 feet from the East line} ~~in~~ (Unit O) of Section 35, Township 18 South, Range 34 East, NMPM, Lea County, New Mexico.

(3) The applicant proposes to utilize said well to ^{commercially} dispose of produced salt water into the ~~Dome Springs~~ Wolfcamp, Cisco, Canyon, Strawn, Atoka, Morrow, and Devonian formations, with injection into the perforated ^{and open hole} interval from approximately ~~9,600~~ feet to 14,800 feet.
10,847

(4) The injection should be accomplished through 2 7/8 inch plastic-lined tubing installed in a packer set at approximately 10,747 feet; ~~that~~ the casing-tubing annulus should be filled with an inert fluid; and ~~that~~ a pressure gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.

(5) Prior to commencing injection operations, the casing in the subject well should be pressure-tested throughout the interval from the surface down to the proposed packer setting depth, to assure the integrity of such casing.

(1)(5) The injection well or system should be equipped with a pressure limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than 2169 psi.

(2) After commencing injection operations into the well, the applicant should be required to run an injection tracer survey in order to determine which formations are receiving the injected fluid.

(3)(6) The Director of the Division should be authorized to administratively approve an increase in the injection pressure upon a proper showing by the operator that such higher pressure will not result in migration of the injected waters from the ~~Dome Spring, Wolfcamp, Cisco, Canyon, Strawn, Atoka, Morrow and Devonian formations~~ injection interval.

(7) The operator should notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.

(4)(8) The operator should give advanced notification to the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment, ~~and~~ and the injection tracer survey ~~of~~ the mechanical integrity pressure test, in order that the same may be witnessed.

(8) The operator should take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

(11)(9) Approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Amstar Energy Corporation, is hereby authorized to utilize ^{the} ~~its~~ Mid-American Petroleum Inc. New Mexico State "A" Well No. 1, located ^{660 feet from the South line and 2080 feet from the East line} ~~in~~ (Unit 0) of Section 35, Township 18 South, Range 34 East, NMPM, Lea County, New Mexico, to dispose of produced salt water into the ~~Bone Spring~~, Wolfcamp, Cisco, Canyon, Strawn, Atoka, Morrow and Devonian formations, injection to be accomplished through 2 7/8-inch tubing installed in a packer set at approximately 10,747 feet, with injection into the perforated ^{and open hole} intervals from approximately ~~9,600~~ 10,847 feet to 14,800 feet;

PROVIDED HOWEVER THAT, the tubing shall be plastic-lined; ~~that~~ the casing-tubing annulus shall be filled with an inert fluid; and ~~that~~ a pressure gauge shall be attached to the annulus or the annulus shall be equipped with an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

PROVIDED FURTHER THAT, prior to commencing injection operations, the casing in the subject well shall be pressure-tested to assure the integrity of such casing in a manner that is satisfactory to the supervisor of the Division's district office at Hobbs.

(2) The injection well or system shall be equipped with a pressure limiting switch or other acceptable device which will limit the wellhead pressure on the injection well to no more than 2169 psi.

(3) After commencing injection operations into the well, the applicant shall run an injection tracer survey in order to determine which formations are receiving the injected fluid.

(4) The applicant shall furnish copies of said tracer survey to both the Santa Fe and Hobbs offices of the Division.

(5) (3) The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the ^{disposed} ~~injected~~ fluid from the ~~Bone Spring, Wolfcamp, Cisco, Canyon, Strawn, Atoka, Morrow and Devonian~~ injection formations.

(4) The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of disposal equipment so that the same may be inspected.

(6) (4) The operator shall notify the supervisor of the Hobbs district office of the Division in advance of the date and time of the installation of disposal equipment, ~~and of~~ the mechanical integrity pressure test, in order that the same may be witnessed. *and the injection tracer survey*

(5) The operator shall immediately notify the supervisor of the Division's Hobbs district office of the failure of the tubing, casing, or packer, in said well or the leakage of water from or around said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

(8) (6) The applicant shall conduct disposal operations and submit monthly reports in accordance with Rules 702, 703, 704, 705, 706, 708, and 1120 of the Division Rules and Regulations.

(9) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO

OIL CONSERVATION DIVISION

R. L. STAMETS,

Director

S E A L