RALPH NIX

101 SOUTH SEVENTH — PHONE 746-2341 — 746-9829

P. O. BOX 617

ARTESIA, NEW MEXICO 88210

July 7, 1982

Mr. Roy Johnson
Energy & Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Ann Water Disposal Well
T-19-S, R-26-E, Sec. 18
1980' FNL, 1980' FEL
Eddy County, New Mexico

Dear Mr. Johnson:

We agree to set a plug from 8150' to 8250' as requested from Mr. Roy Johnson with the Oil Conservation Commission in Santa Fe.

Also, enclosed is a water analysis,from Halliburton, on two Yeso wells in the area.

If you have any questions feel free to give me a call.

Yours truly,

William J McCaw

William J. McCaw

WJM/lr
enclosure

1342-A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W82-605

To RALPH NIX

BOX 617

Artesia, New Mexico

Date 6-6-82

Submitted by

Date Rec. 6-6-82

Well No. Depth Formation

County Field File Source File

	[redacted] #7	[redacted] #1	
Resistivity	.050 @ 80°F	.054 @ 80°F	
Specific Gravity	1.120	1.135	
pH	7.2	5.8	
Calcium (Ca)	4500	17000	*MPL
Magnesium (Mg)	240	6900	
Chlorides (Cl)	117000	116000	
Sulfates (SO_4)	800	300	
Bicarbonates (HCO_3)	490	545	
Soluble Iron (Fe)	nil	75	

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Esquivel

HALLIBURTON COMPANY

cc:

By

CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

Affidavit of Publication

No. 9588

STATE OF NEW MEXICO,
County of Eddy:

Gary D. Scott being duly sworn, says: That he is the Business Manager of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for 1 consecutive days weeks on the same day as follows:

First Publication June 18, 1982

Second Publication

Third Publication

Fourth Publication

and that payment therefore in the amount of $

has been made.

Gary D. Scott

Subscribed and sworn to before me this 23rd day of June, 19 82

Notary Public, Eddy County, New Mexico

My Commission expires

OFFICIAL SEAL
Signature: Barbara Ann Boans
BARBARA ANN BOANS
NOTARY PUBLIC - NEW MEXICO
NOTARY BOND FILED WITH SECRETARY OF STATE
My Commission Expires 9-10-83

Copy of Publication

LEGAL NOTICE

NOTICE [redacted] GIVEN THAT the [redacted] named party has made application before the New Mexico Oil Conservation Division for a water disposal well in Eddy County, New Mexico.

1. The name, address, phone number, and contact party for the applicant is:
Applicant: Ralph Nix
Address: P.O. Box 617, Artesia, New Mexico 88210
Phone Number: (505) 746-2314
Contact Party: William J. McCaw

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 is:
Purpose: Water disposal
Location: 1,980 FNL and 1980 FEL Section 18, Township 19 South, Range 26 East, N.M.P.M.

3. The formation name and depth with expected maximum injection rates and pressures is:
Formation Name and Depth: Cisco formation from 7,770 feet beneath the surface down to 8,155 feet beneath the surface
Maximum injection rate: 5,000 barrels of water per day
Maximum injection pressure: 1,560 PSI

4. All 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.

Published in The Artesia Daily Press, Artesia, N.M., June 18, 1982.

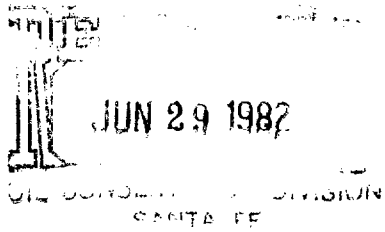
Legal No. 9588.

LAW OFFICES
LOSEE, CARSON & DICKERSON, P. A.
300 AMERICAN HOME BUILDING
P. O. DRAWER 239
ARTESIA, NEW MEXICO 88211-0239

A. J. LOSEE
JOEL M. CARSON
CHAD DICKERSON
DAVID R. VANDIVER
ELIZABETH LOSEE

AREA CODE 505
746-3508

June 28, 1982



Mr. Joe D. Ramey, Director
Energy an Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: In the Matter of the Application of Ralph Nix for Authorization to Inject, Eddy County, New Mexico

Dear Mr. Ramey:

In connection with the C-108 filed in your office by Ralph Nix concerning a water disposal well in Section 18, Township 19 South, Range 26 East, N.M.P.M., Eddy County, New Mexico, please find an Affidavit of Publication, reflecting the publication of a Notice of such application in the Artesia Daily Press on June 18, 1982.

Thank you.

Sincerely yours,

LOSEE, CARSON & DICKERSON, P.A.

Chad Dickerson

Chad Dickerson

CD:pvm
Enclosure

cc: Mr. William J. McCaw

BEFORE THE OIL CONSERVATION DIVISION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF RALPH NIX FOR AUTHORIZATION TO INJECT, EDDY COUNTY, NEW MEXICO : CASE NO. _____

AFFIDAVIT OF MAILING

STATE OF NEW MEXICO)
: ss.
COUNTY OF EDDY)

The undersigned, being first duly sworn, upon oath, states that the undersigned is an employee of Applicant, and that on the 17th day of June, 1982, the undersigned did mail in the United States Post Office at Artesia, New Mexico, a true copy of the Application of Ralph Nix for Authorization to Inject, Eddy County, New Mexico, for the purpose of water disposal at a location 1,980 feet from the north line and 1,980 feet from the east line of Section 18, Township 19 South, Range 26 East, N.M.P.M., to the following named owners of the surface on which the well is to be located and leasehold operators within one-half mile of the well location, in securely sealed, certified mail, return receipt requested, postage prepaid envelopes addressed to the following named persons:

NAME	ADDRESS
Essie Nix	450 West Scurry Slayton, Texas 79364
Martin Yates, III	207 South Fourth Street Artesia, New Mexico 88210
Stanley L. Jones	P. O. Box 994 Roswell, New Mexico 88201
Jonell Jones Gilmore	201 Richardson Artesia, New Mexico 88210
Yates Petroleum Corporation	207 South Fourth Street Artesia, New Mexico 88210
Richard Moore	P. O. Box 1733 Midland, Texas 79702
Michael Moore	P. O. Box 1733 Midland, Texas 79702

Stephen Moore	P. O. Box 1733 Midland, Texas 79702
Anadarko Production Company	P. O. Box 2497 Midland, Texas 79701
Santa Fe Energy Company	One Security Park 7200 I-40 West Amarillo, Texas 79106

William J. McCaw

SUBSCRIBED AND SWORN TO before me this 17th day of June, 1982.

OFFICIAL SEAL
Mary Lynn Robinson
MARY LYNN ROBINSON
NOTARY PUBLIC - NEW MEXICO
My Commission Expires 5-21-85

Notary Public

My commission expires:
May 21, 1985

RALPH NIX

101 SOUTH SEVENTH — PHONE 746-2341 — 746-9829

P. O. BOX 617
ARTESIA, NEW MEXICO 88210

June 17, 1982

Chad Dickerson

New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico 87501

Gentlemen:

Enclosed please find on completed original copy of Form 108 along with a copy of Affidavit of Mailing.

Sincerely,

William J. McCaw

William J. McCaw

WJM/lr
enclosures

1.) 100' plug @ base
NO 2.) Intermediate string thru Bone Springs fm
3.) water analysis of produced water & water wells in area
4.) Need two more copies of application
NO 5.) will need more cement on 5 ½" string

JUN 18 1982

SANTA FE

6.) Advertisement ?
7.) Rule 104 500'

STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO

JUN 18 1982
OIL CONSERVATION DIVISION
SANTA FE

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: Ralph Nix

Address: P.O. Box 617, Artesia, New Mexico 88210

Contact party: William J. McCaw Phone: 505-746-2341

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. 500 gallons acid

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

• 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. Not available. 0'-1200' fresh H_2O

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: William J. McCaw Title _____

Signature: William J McCaw Date: June 16, 1982

• 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. _____

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

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 parker 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;

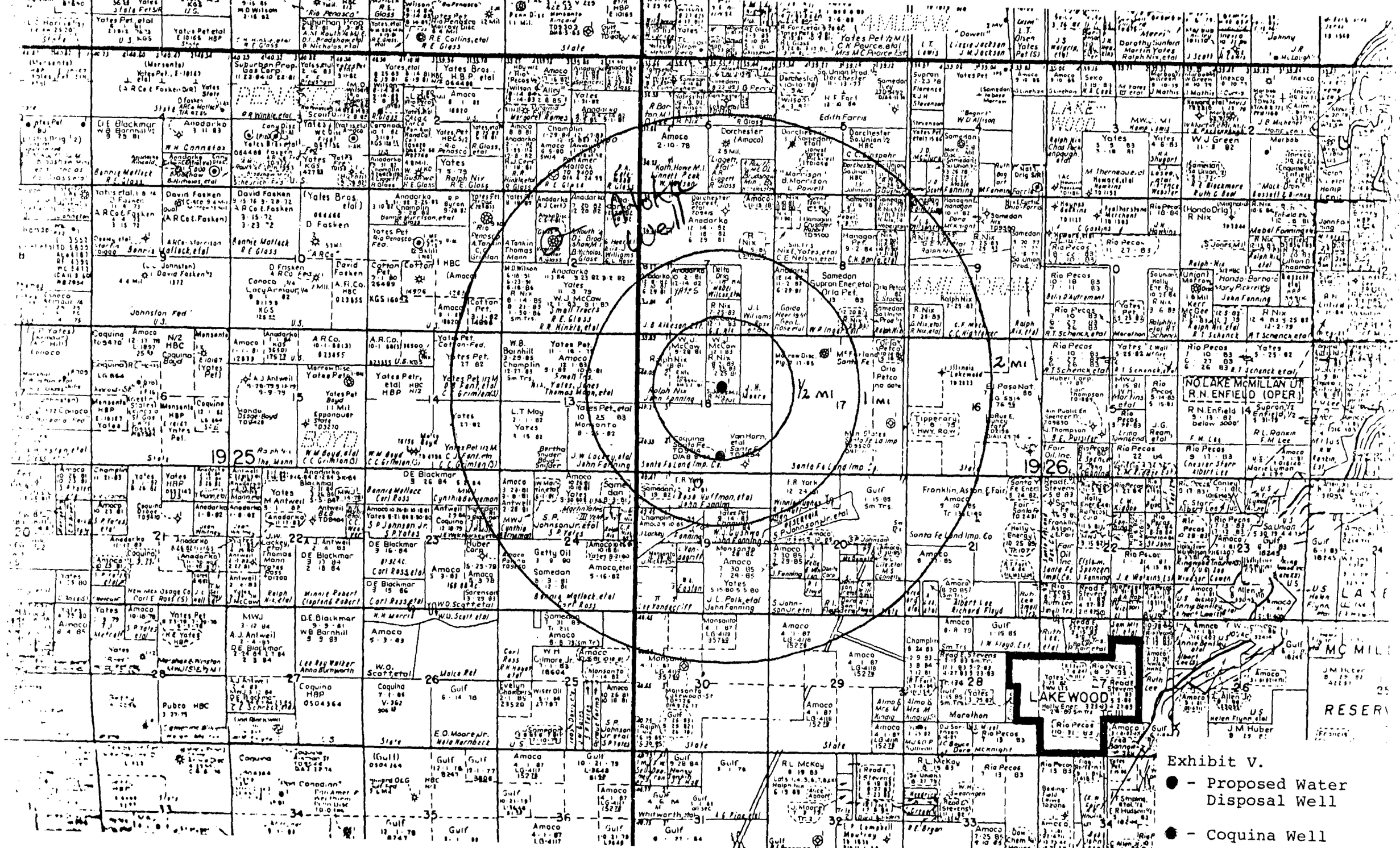
(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(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.

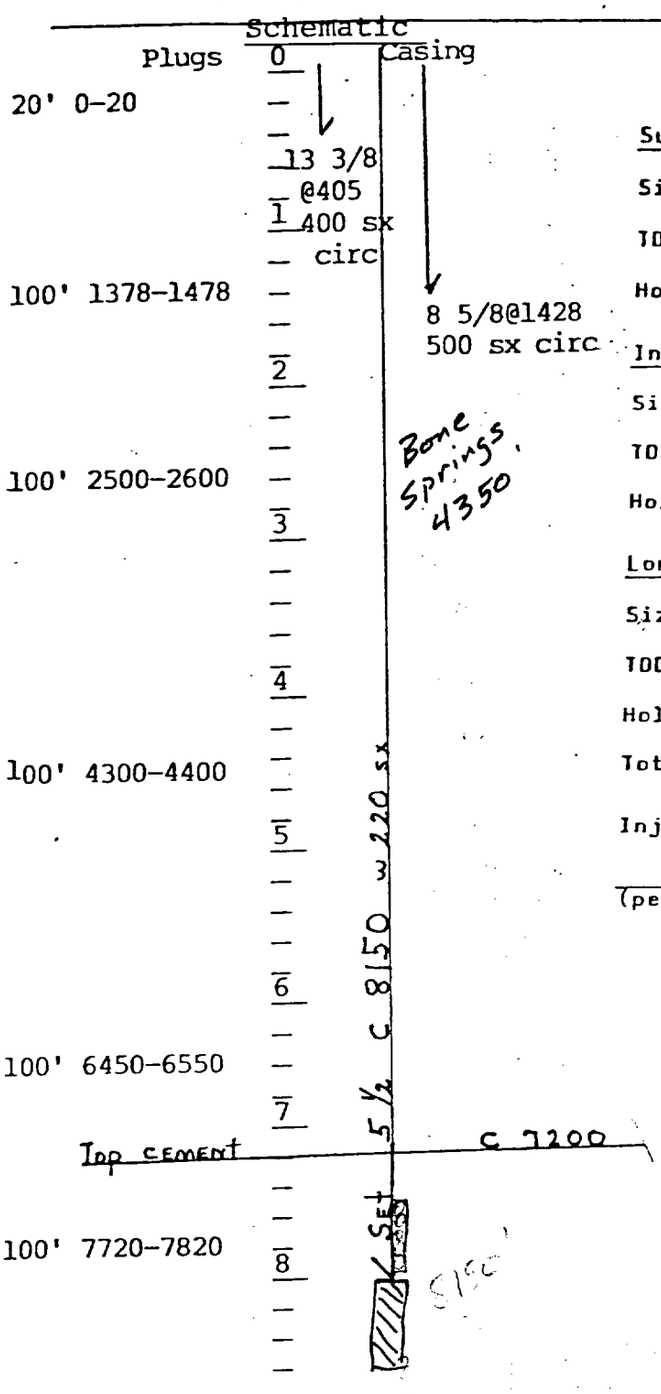
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.


½ MI
1 MI
2 MI
LAKEWOOD
NO LAKE McMILLAN UT
R.N. ENFIELD (OPER.)
Exhibit V.
● - Proposed Water Disposal Well
● - Coquina Well

Ralph Nix — Ann
OPERATOR — LEASE

#1 — 1980' FNL, 1980' FEL — 18 — 19S — 26E
WELL NO. — FOOTAGE LOCATION — SECTION — TOWNSHIP — RANGE



Tabular Data

Surface Casing

Size 13 3/8" Cemented with 400 sx

TOC Surface feet determined by Circulation

Hole size 17½"

Intermediate Casing

Size 8 5/8" Cemented with 500 sx

TOC Surface feet determined by Circulation

Hole size 11"

Long string

Size 5½" Cemented with 220 sx

TOC 7200 feet determined by Temperature Survey

Hole size 7 7/8"

Total depth 8150'

Injection interval

7770 feet to 8110 feet
(perforated or open-hole, indicate which)

Tubing size 2 7/8" lined with Plastic (material) set in a

Guiberson Unisex (brand and model) packer at 7750' feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Cisco Canyon

2. Name of Field or Pool (if applicable) None

3. Is this a new well drilled for injection? [ ] Yes [X] No

If no, for what purpose was the well originally drilled? Morrow test

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

No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. None

Coquina Oil Corp #1 Santa Fe 660'FSL, 1980'FEL sec 18 T 19 S R 26 E
Eddy County New Mexico · Drilled and plugged 8-8-74
This well is in the area of review for the proposed Ralph Nix #1 Ann
water injection project 1980 FN&EL sec 18, T 19 S R 26 E Eddy Co. NM.

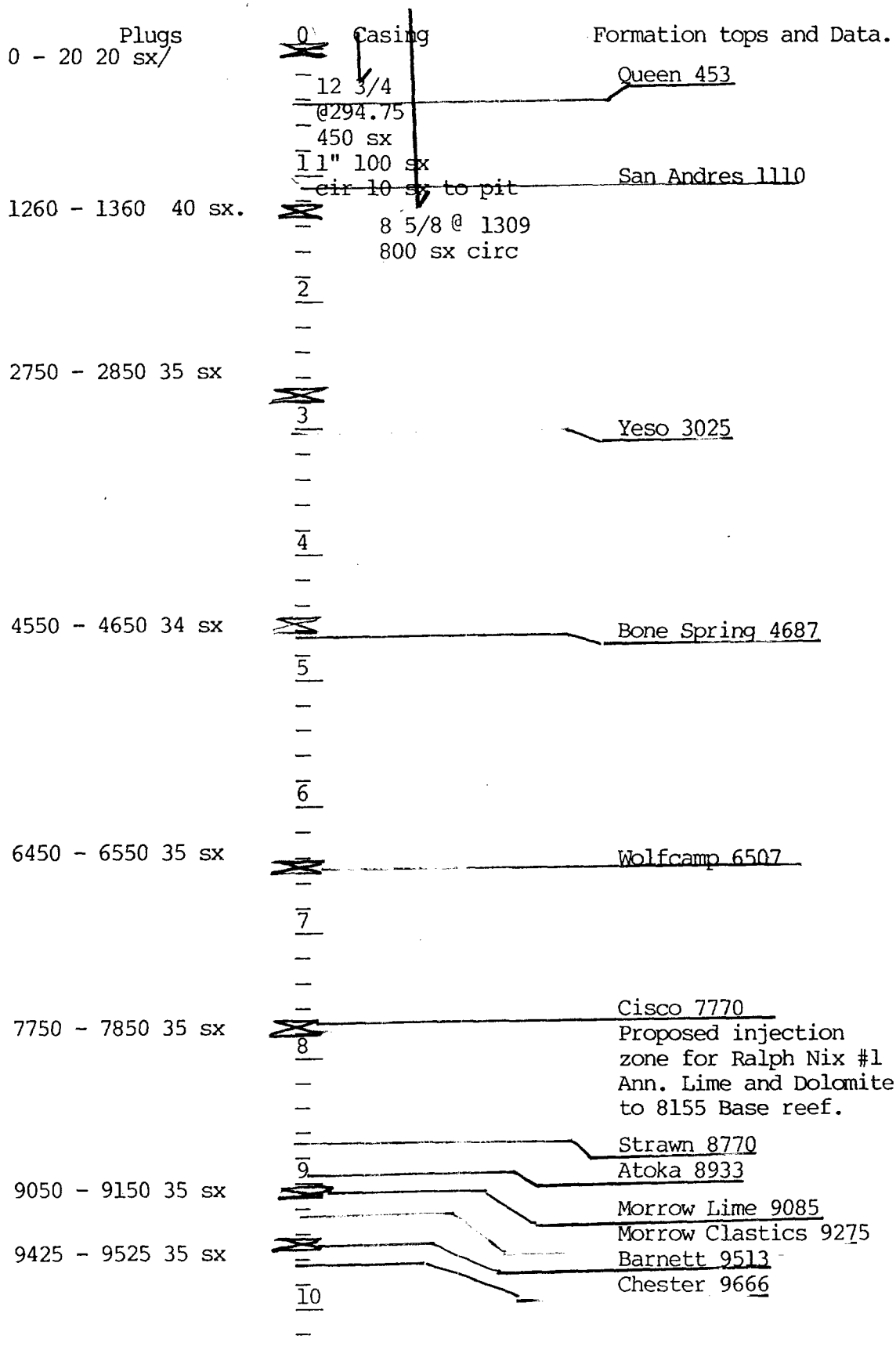


Exhibit VI

Coquina Well

II

1. Proposed average daily rate - 106 BPH, Volume 2500 BPD
   Maximum daily rate - 208 BPH, Volume 5000 BPD

2. Closed.

3. Average injection pressure - 200 lbs.
   Maximum injection pressure - 1560 lbs.

4. Injecting produced water.

5. N/A

Exhibit VII

Ralph Nix #1 ANN Unit G 1980 N &E Sec 18 T 19S R 26E
Eddy Co., New Mexico

Proposed Water Injection Well.

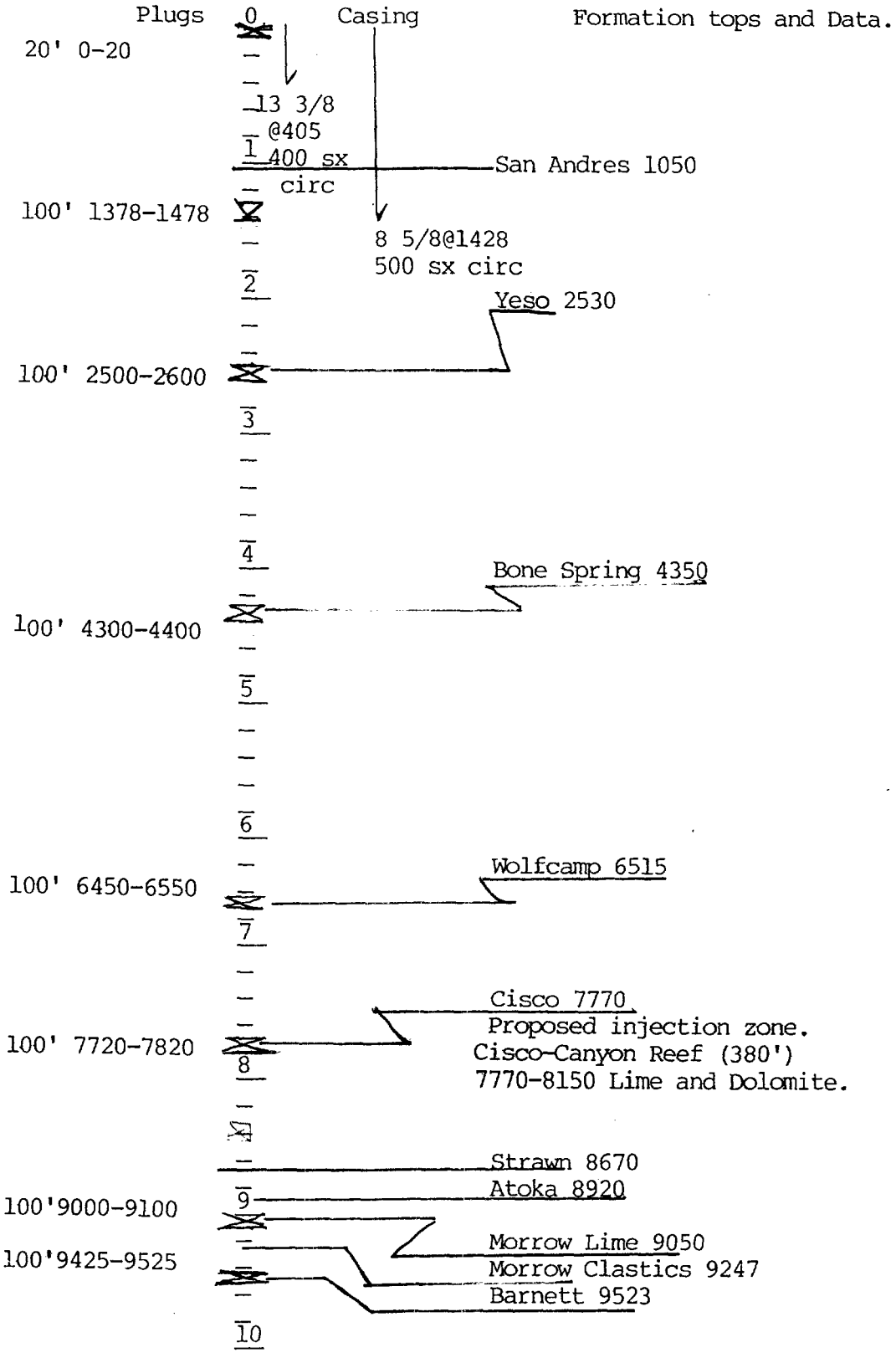


Exhibit VIII
Ann #1

XII 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.

Exhibit XII