

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: Yates Petroleum Corp. Well: MIRCOSA SWD No. 5
Contact: John Brown Title: Eng. Phone: 798-~~4771~~⁴²¹⁹

DATE IN 7-16-96 RELEASE DATE 10-1-96 DATE OUT 10-22-96

Proposed Injection Application is for: WATERFLOOD Expansion Initial

Original Order: R- Secondary Recovery Pressure Maintenance

SENSITIVE AREAS

SALT WATER DISPOSAL Commercial Well

WIPP Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd _____

AREA of REVIEW WELLS

2 Total # of AOR

0 # of Plugged Wells

YES Tabulation Complete

NA Schematics of P & A's

YES Cement Tops Adequate

NA AOR Repair Required

INJECTION FORMATION

Injection Formation(s) DEVONIAN, ELLERSBURGH Compatible Analysis YES

Source of Water or Injectate AREA PRODUCTION

PROOF of NOTICE

YES Copy of Legal Notice

YES Information Printed Correctly

YES Correct Operators

YES Copies of Certified Mail Receipts

NO Objection Received

Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion _____
2nd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion _____
3rd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion _____

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

SWD - 10/1/76
645
~~S. P. YATES~~
S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

September 11, 1996

David Catanach
State of New Mexico
OIL CONSERVATION DIVISION
2040 S. Pacheco Street
Santa Fe, NM 87505-5472

Dear Mr. Catanach,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Mimosa SWD #3 located in Unit P of Section 4-T20S-R24E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4219

Sincerely,

John F. Brown
Operations Engineer

JFB/th

Enclosure

CALL RUSTY w/ ORDER NO 211
IN A.M.

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Yates Petroleum Corporation

Address: 105 South Fourth Street Artesia, NM 88210

Contact party: John F. Brown Phone: (505) 748-4219

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? yes no
If yes, give the Division order number authorizing the project _____.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

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

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: John F. Brown Title Operations Engineer

Signature: *John F. Brown* Date: 9-11-96

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. _____

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



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ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

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TREASURER

September 11, 1996

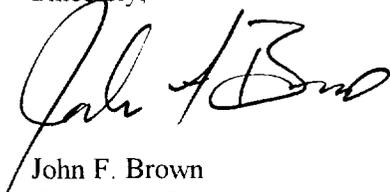
Tim Gum
State of New Mexico
OIL CONSERVATION DIVISION
811 South First Street
Artesia, NM 88210

Dear Mr. Gum,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Mimosa SWD #3 located in Unit P of Section 4-T20S-R24E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4219

Sincerely,



John F. Brown
Operations Engineer

JFB/th

Enclosure

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TREASURER

September 11, 1996

Richard Manus
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292

Dear Mr. Manus,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Mimosa SWD #3 located in Unit P of Section 4-T20S-R24E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4219

Sincerely,

A handwritten signature in cursive script that reads 'John F. Brown'.

John F. Brown
Operations Engineer

JFB/th

Enclosure

C-108
Application For Authorization To Inject
Yates Petroleum Corporation
Mimosa SWD #3
P 4-20S-24E
Eddy County, New Mexico

- I. The purpose of completing this well is to make a disposal well for produced Canyon water into the Devonian and Ellenburger.
- II. Operator: Yates Petroleum Corporation
South Fourth Street
Artesia, NM 88210
John F. Brown (505) 748-4219
- III. Well Data: See Attachment A
- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B
- VI. 2 wells within the area of review penetrate the proposed injection zone. (Attachment C)
- VII.
 1. Proposed average daily injection volume approximately 20,000 BWPD.
Maximum daily injection volume approximately 30,000 BWPD.
 2. This will be a closed system.
 3. Proposed average injection pressure--unknown.
Proposed maximum injection pressure--1886 psi.
 4. Sources of injected water would be produced water from the Canyon. (Attachment D)
 5. See Attachment D.
- VIII. The proposed injection interval is open hole from 9700' to TD or cased with 7" casing to TD.
- IX. The proposed disposal interval may be acidized with 15-20% HCL acid.
- X. Logs were filed at your office when the well was drilled.
- XI. No windmills exist within a one mile radius of the subject location.
- XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.

Application for Authorization to Inject
Mimosa SWD #3

-2-

XIII. Proof of Notice

- A. No other surface owners or offset operators located in the area of review.
- B. Copy of legal advertisement attached. (Attachment E)

XIV. Certification is signed.

Yates Petroleum Corporation
Mimosa SWD #3
P 4-20S-24E

Attachment A
Page 1

III. Well Data

- A. 1. Lease Name/Location:
Mimosa SWD #3
P 4-20S-24E
635'FSL & 330'FEL
2. Casing Strings:
a. Proposed well condition:
See Attachment A - Proposed Status.
13 3/8" 54#, J-55 at 404' (circ).
9 5/8" 36#, J-55 at 1163' (circ).
7" 26#, S95, N80 at 9800' (circ) or
7" 26#, S95 & N-80 at 11,300'.
4 1/2" 11.6#, plastic-coated tubing w/nickel plated packer at 9700'
3. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at 9700'.
- B. 1. Injection Formation: Devonian, Ellenburger.
2. Option I - Injection interval will be open hole from 9700' to TD.
Option II - Injection interval from perforations 9700'-11,300'.
3. Well was originally drilled as an exploratory Canyon/Morrow well. Well will be a Devonian and Ellenburger water disposal well (11,300'-TD) when work is completed.
4. Next higher (shallower) oil or gas zone within 2 miles--Morrow.
Next lower (deeper) oil or gas zone within 2 miles--None.

WELL NAME: Yuma SWD #3 FIELD AREA: _____

LOCATION: 635' FSL & 330' FEL P 4-203-24E

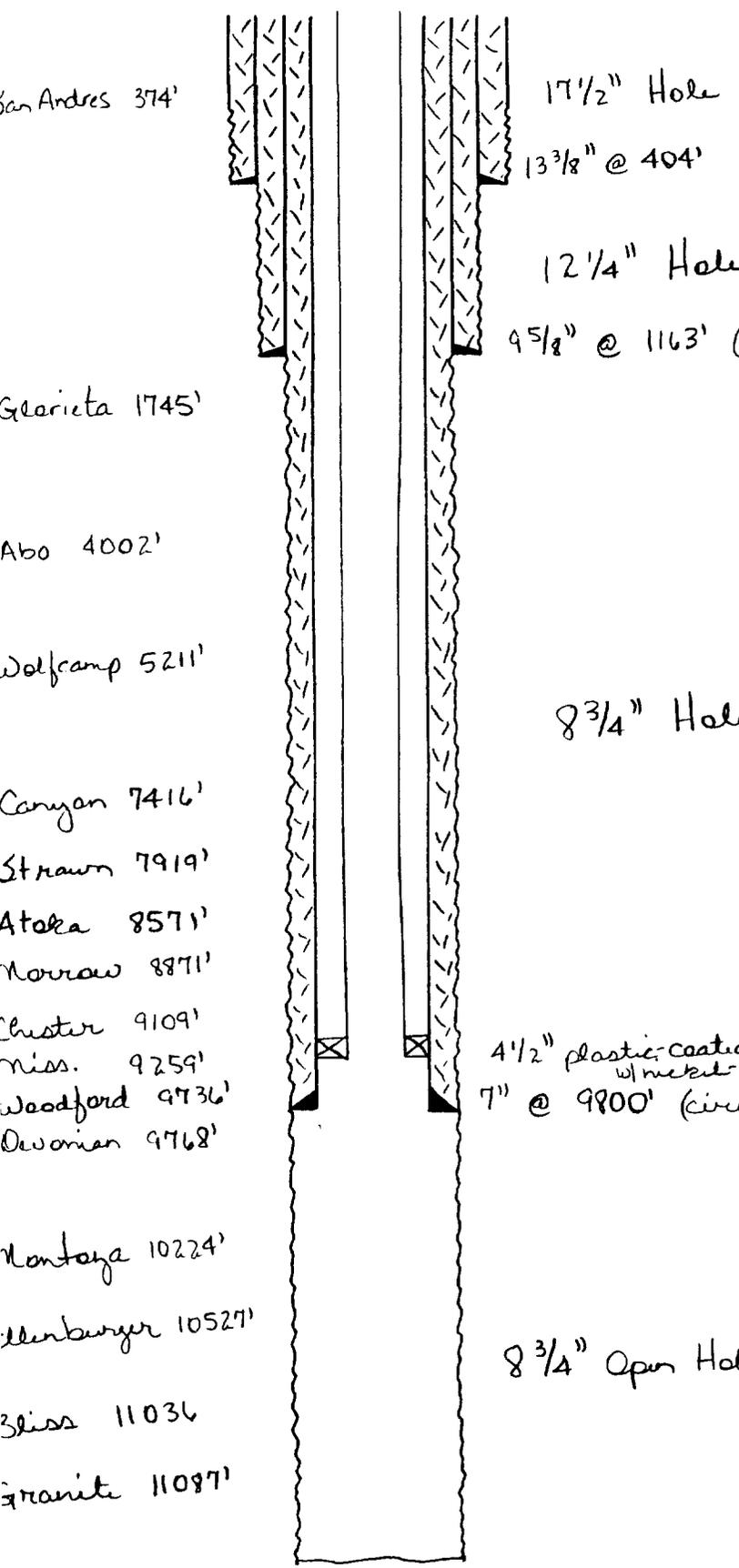
GL: 3795' ZERO: _____ ' AGL: _____ ' _____

KB: _____ ' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 3/8" 54 # J-55	404'
9 5/8" 36 # J-55	1163'
7" 26 # 595, N80	9800'
4 1/2" 11.6 # PC Ebg. + per	9700'

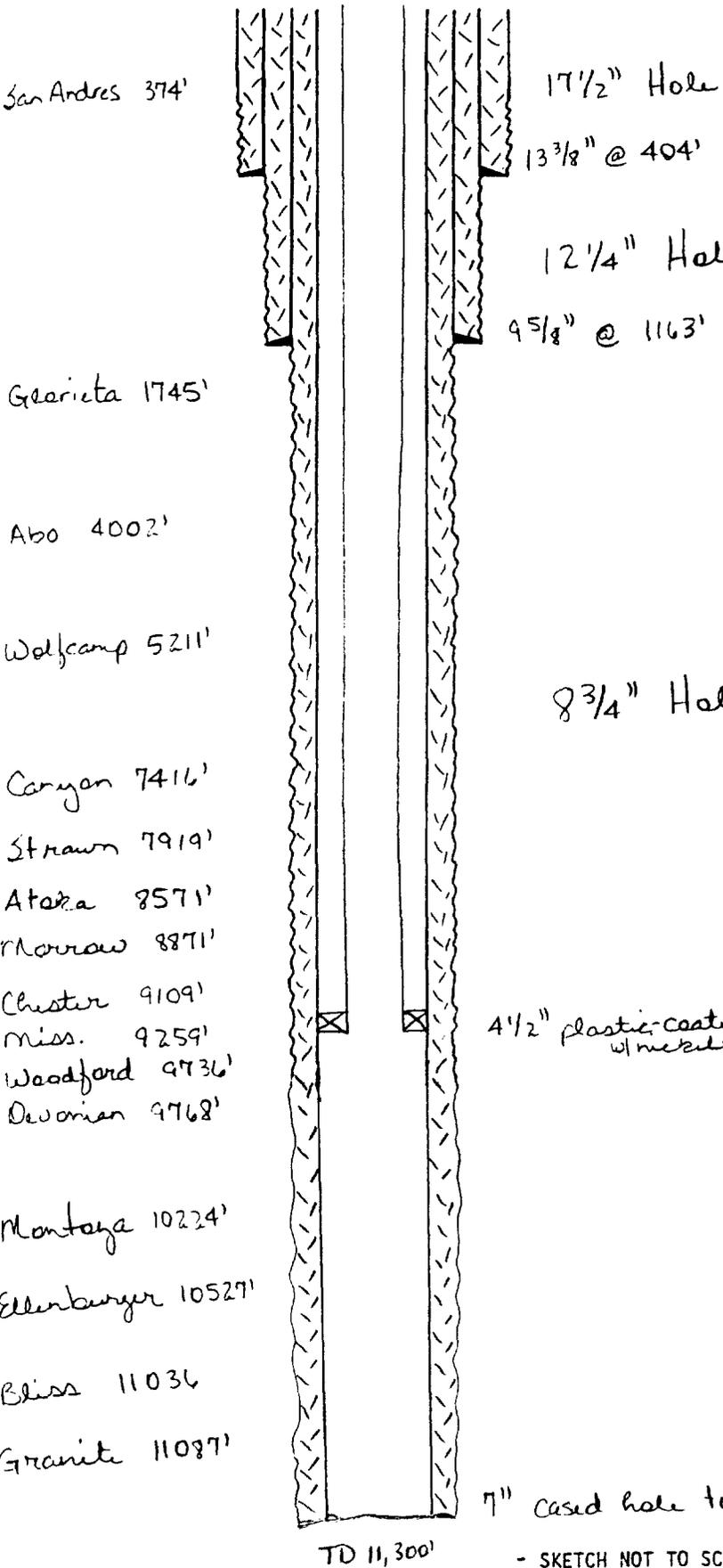


Open Hole Option

WELL NAME: Yrimosa SWD #3 FIELD AREA: _____
 LOCATION: 635' ESL & 330' FEL P 4-205-24E
 GL: 3795' ZERO: _____' AGL: _____'
 KB: _____' ORIG. DRLG./COMPL. DATE: _____
 COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 3/8" 54 # J-55	404'
9 5/8" 36 # J-55	1163'
7" 26 # S95, N80	11300'
4 1/2" 11.6 # PC Hdg. + per	9700'



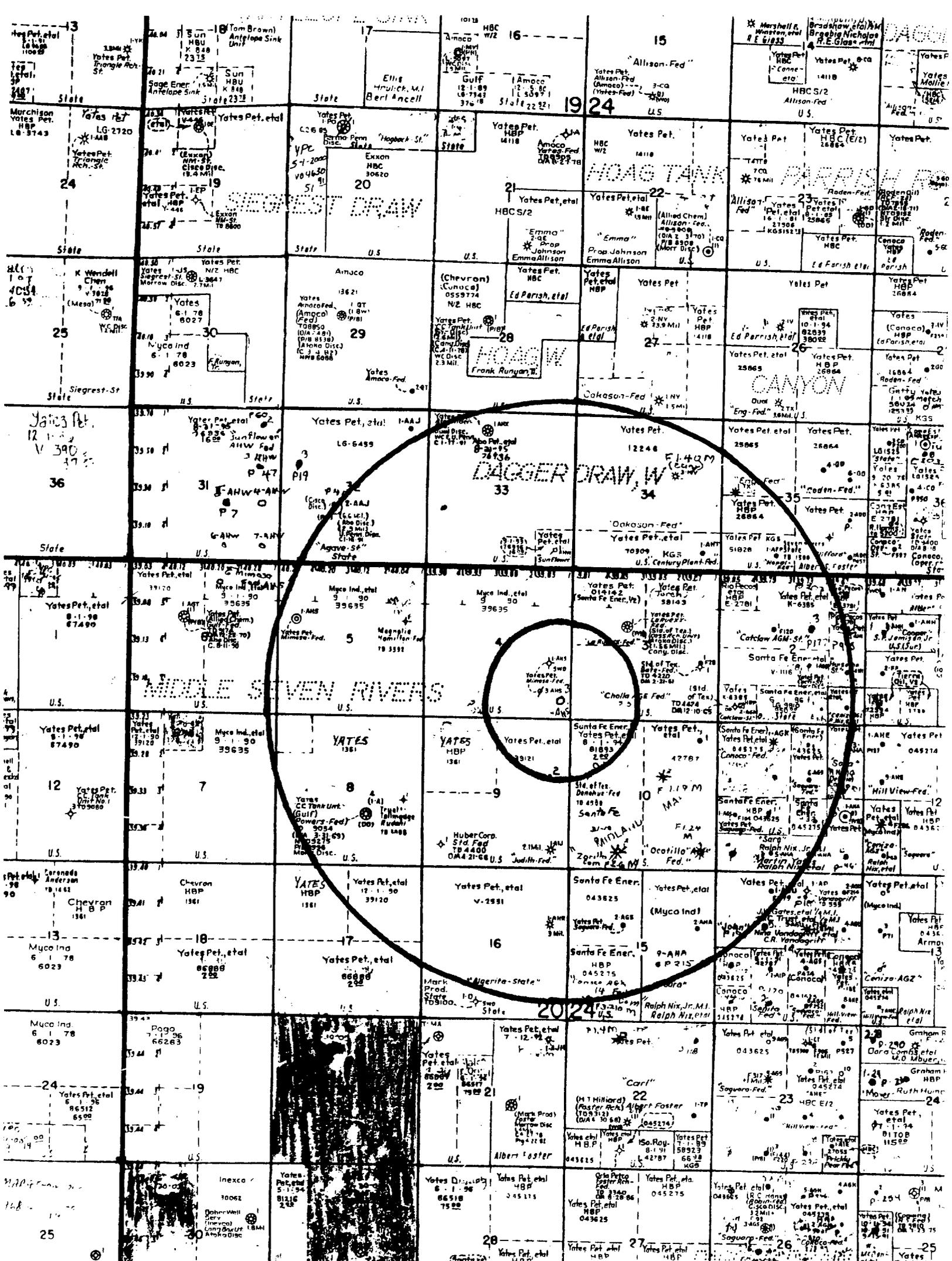
Cased Hole Option

4 1/2" plastic-coated tbg w/ metal-plated packer @ 9700'

TD 11,300'

- SKETCH NOT TO SCALE -

REVISED: _____



YATES PETROLEUM CORPORATION
MIMOSA SWD #3
PROPOSED SALT WATER DISPOSAL WELL
SEC. 4-T20S-R24E
635'FSL & 330'FEL
EDDY COUNTY, NEW MEXICO

Mimosa SWD #3
Form C-108

Tabulation of Data on Well Within Area of Review

<u>Well Name</u>	<u>Operator</u>	<u>Type</u>	<u>Spud</u>	<u>Completed</u>	<u>Total Depth</u>	<u>Injection Zone</u>	<u>Perforations</u>	<u>Completion Information</u>
Mimosa AHS Federal #1	YPC	Injection	08/28/90	1/26/91	11,150	Mississippian Devonian Ellenburger	9515'-9551' 9814'-11,011' 8925'-8940' 7553'-7560'	9 5/8" @ 1305' w/1100 7 @ 11,150 w/3125
Mimosa AHS Federal #4	YPC	Injection	03/03/92	8/16/92	11,159	Devonian Montoya Ellenburger	9950'-11,159'	9 5/8" @ 1169 w/1500 7 @ 9950 w/1200

TRETOLITE DMSION

(505) 746-3588
Fax (505) 746-3580

Reply to:
P.O. Box FF
Artesia, NM
88211-7531

WATER ANALYSIS REPORT

Company : YATES PETROLEUM Date : 01/12/94
Address : ARTESIA, NEW MEXICO Date Sampled : 01/12/94
Lease : CLIFFORD Analysis No. : 546
Well : BATTERY
Sample Pt. : TANK

ANALYSIS		mg/L		* meq/L
1. pH	7.0			
2. H2S	140 PPM			
3. Specific Gravity	1.005			
4. Total Dissolved Solids		6842.7		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	817.0	HCO3	13.4
12. Chloride	Cl	2449.0	Cl	69.1
13. Sulfate	SO4	1375.0	SO4	28.6
14. Calcium	Ca	700.0	Ca	34.9
15. Magnesium	Mg	280.0	Mg	23.0
16. Sodium (calculated)	Na	1221.7	Na	53.1
17. Iron	Fe	NR		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		2901.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
35 *Ca <----- *HCO3	Ca(HCO3)2	81.0	13.4	1085
/----->	CaSO4	68.1	21.5	1466
23 *Mg -----> *SO4	CaCl2	55.5		
<-----> /	Mg(HCO3)2	73.2		
53 *Na -----> *Cl	MgSO4	60.2	7.1	427
	MgCl2	47.6	15.9	759
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	53.1	3106
BaSO4 2.4 mg/L				

REMARKS:

----- A. MILLER / FILE

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 01/12/94
Address	: ARTESIA, NEW MEXICO	Date Sampled	: 01/12/94
Lease	: CLIFFORD	Analysis No.	: 546
Well	: BATTERY	Analyst	: STEVE TIGERT
Sample Pt.	: TANK		

STABILITY INDEX CALCULATIONS
(Stiff-Davis Method)
CaCO₃ Scaling Tendency

S.I. =	0.8	at	60 deg. F	or	16 deg. C
S.I. =	0.8	at	80 deg. F	or	27 deg. C
S.I. =	0.9	at	100 deg. F	or	38 deg. C
S.I. =	0.9	at	120 deg. F	or	49 deg. C
S.I. =	0.9	at	140 deg. F	or	60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
(Skillman-McDonald-Stiff Method)
Calcium Sulfate

S =	2241	at	60 deg. F	or	16 deg C
S =	2331	at	80 deg. F	or	27 deg C
S =	2364	at	100 deg. F	or	38 deg C
S =	2360	at	120 deg. F	or	49 deg C
S =	2346	at	140 deg. F	or	60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

MARTIN YATES, III
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105 SOUTH FOURTH STREET
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September 11, 1996

Artesia Daily Press
503 W. Main
Artesia, NM 88210

Gentlemen,

Yates Petroleum Corporation desires to place a public notice in your newspaper for one day. The notice is enclosed.

Please place this notice in your paper on Sunday, September 15, 1996, and forward a copy of it along with your billing as soon as possible to:

Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210
Attn: John F. Brown

If you have any questions, please contact me at 748-4187. Thank you for your cooperation in this matter.

Sincerely,

John F. Brown
Operations Engineer

JFB/th

Enclosure

Attachment E

Legal Notice

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the "Mimosa SWD #3" located 635'FSL & 330'FEL of Section 4, Township 20 South, Range 24 East of Eddy County, New Mexico. will be used for salt water disposal. Disposal waters from the Canyon will be re-injected into the Devonian and Ellenburger at a depth of 9430'-11,300' with a maximum pressure of 1886 psi and a maximum rate of 30,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting John F. Brown at (505) 748-4219.

Affidavit of Publication

Copy of Publication

No. 15638

STATE OF NEW MEXICO,

County of Eddy:

Gary D. Scott being duly sworn, says: That he is the Publisher 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

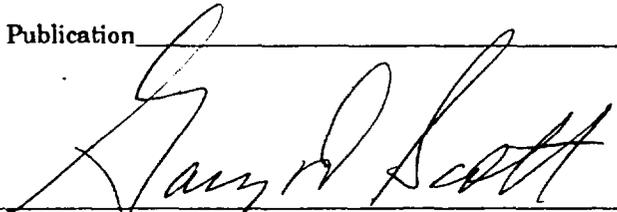
was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 consecutive weeks on the same day as follows:

First Publication September 22, 1996

Second Publication _____

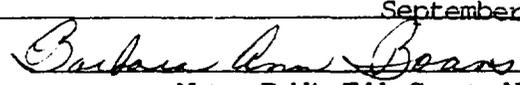
Third Publication _____

Fourth Publication _____



Subscribed and sworn to before me this 23rd day

of September 19, 96



Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1999

LEGAL NOTICE

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the "Mimosa SWD #3," located 635'FSL & 330'FEL, Section 4, Township 20 South, Range 24 East of Eddy County, New Mexico, will be used for salt water disposal. Disposal waters from the Canyon will be re-injected into the Mississippian, Devonian and Ellenburger at a depth of 9430'-11,300' with a maximum pressure of 1886 psi and a maximum rate of 30,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 2040 S. Pacheco Street, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting John F. Brown at (505) 748-4129. Published in the Artesia Daily Press, Artesia, N.M. September 22, 1996.

Legal 15638

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TREASURER

September 19, 1996

Ben Stone
State of New Mexico
OIL CONSERVATION DIVISION
2040 S. Pacheco Street
Santa Fe, NM 87505-5472

Re: *Mimosa SWD #3*
Yates Petroleum Corporation
C-108 Application Revision

Dear Ben,

Per our telephone conversation on Monday, September 9, 1996, I am sending you a revised wellbore diagram of the proposed SWD well at the Mimosa #3. The new sketch shows that we now propose to inject into the Mississippian formation as well as the Devonian and Ellenburger. The packer would then be placed at 9050'.

Also per your direction, we have revised the Public Notice to reflect the changes and will republish it in the Artesia Daily Press as required.

Thank you for working with me on this matter, and if you have any questions, please do not hesitate to call me at 505-748-4219.

Sincerely,

John F. Brown
Operations Engineer

Enclosures

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September 20, 1996

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Attn: John F. Brown

If you have any questions, please contact me at 748-4187. Thank you for your cooperation in this matter.

Sincerely,

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John F. Brown
Operations Engineer

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