

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



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

October 31, 2000

SWD-791

Chris Williams
State of New Mexico
OIL CONSERVATION DIVISION
1625 N. French Drive
Hobbs, NM 88240

Dear Mr. Williams,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for the proposed Sand Springs ASU State #3 located in Unit J of Section 11-T11S-R34E, Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4182.

Sincerely,

James W. Pringle
Operations Engineer

JWP/th

Enclosure

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TREASURER

October 31, 2000

Mark Ashley
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 Sand Springs ASU State #3 located in Unit J of Section 11-T11S-R34E, Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4182.

Sincerely,

A handwritten signature in black ink that reads 'James W. Pringle'. The signature is written in a cursive style with a large, prominent 'J' and 'P'.

James W. Pringle
Operations Engineer

JWP/th

Enclosure

SAND SPRINGS ASU STATE #3
Unit J of Sec. 11-11S-34E

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: James W. Pringle PHONE: (505) 748-4182

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

IX. Describe the proposed stimulation program, if any.

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

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

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

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

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

NAME: James W. Pringle TITLE: Operations Engineer

SIGNATURE: James W. Pringle DATE: October 31, 2000

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

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days.

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

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

**C-108 Application for Authorization to Inject
Yates Petroleum Corporation
Sand Springs ASU State #3
J 11-11S-34E
Lea County, New Mexico**

- I. The purpose of completing this well is for disposal of produced Devonian, Morrow, Atoka water into the Devonian.
- II. Operator: Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
James W. Pringle (505) 748-4182
- III. Well Data: See Attachment A
- IV. This is not an expansion of an existing project.
- V. See attached map, Attachment B.
- VI. There is 2 wells within the area of review penetrating the proposed injection zone. (Attachment C)
- VII.
 1. Proposed average daily injection volume approximately 1,000 BWPD.
Maximum daily injection volume approximately 10,000 BWPD.
 2. This will be a closed system.
 3. Proposed average injection pressure--unknown.
Proposed maximum injection pressure--3000 psi.
 4. Sources of injected water would be produced water from the Devonian, Morrow, Atoka. (Attachment D)
 5. See Attachment D.
- VIII. The injection interval is Devonian from 13,184'–13,400'.

Underground water sources of drinking water are in the Alluvial fill from surface to 200'.
- 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. Any new logs run after deepening will also be submitted to your office.

Application for Authorization to Inject
Sand Springs ASU State #3

-2-

- XI. There is 2 windmills that exist within a one mile radius of the subject location. Chemical analysis is attached. (Attachment E)

- XII. Available engineering and geologic data have been examined and no evidence of open faults or hydrologic connection between the disposal zone and any underground sources of drinking water have been found.

- XIII. Proof of notice
 - A. Surface owners and offset operators have been notified. (Attachment F)

 - B. Copy of legal advertisement attached. (Attachment G)

- XIV. Certification is signed.

**Yates Petroleum Corporation
Sand Springs ASU State #3
J-11-11S-34E**

**Attachment A
Page 1**

III. Well Data

- A. 1. Lease Name/Location:
Sand Springs ASU State #3
J 11-11S-34E
1500'FSL & 1500'FEL
2. Casing Strings:
a. Proposed well condition:
See Attachment A – Proposed Status.
13 3/8" 48#, H-40 at 444' (circ).
9 5/8" 36#, 40#, J-55 at 4,172' (circ).
7" 26#, 29#, HC-P110, S95 at 13,184'.
2 2-3/8" L-80 plastic-coated tubing w/nickel plated packer at 12,000' &
13,000'.
3. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at
12,000' & 13,000'.
- B. 1. Injection Formation: Devonian
2. Injection interval into open hole 13,184'–13,400'.
3. Well was originally drilled as an exploratory Devonian, Morrow, Atoka well.
Well will be a Devonian water disposal well when work is completed.
4. Next higher (shallower) oil or gas zone within 2 miles—Mississippi Sand
Next lower (deeper) oil or gas zone within 2 miles—None

INJECTION WELL DATA SHEET

OPERATOR: Yates Petroleum Corporation

WELL NAME & NUMBER: Sand Springs ASU State #3

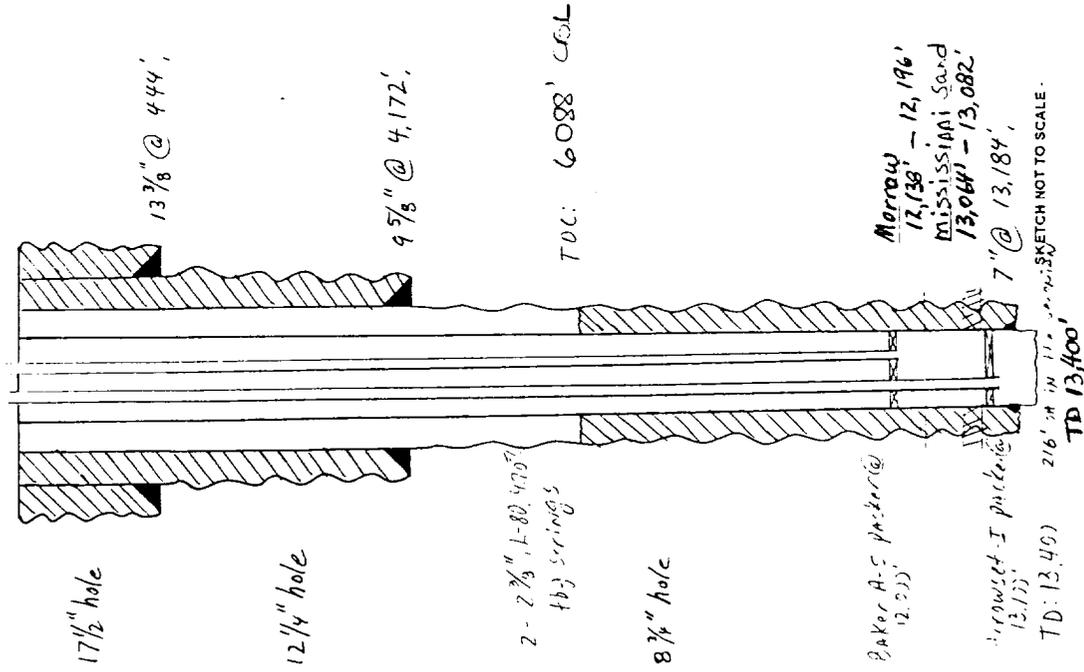
WELL LOCATION: 1500'FSL & 1500'FEL
FOOTAGE LOCATION

UNIT LETTER: J SECTION: 11 TOWNSHIP: 11S RANGE: 34E

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing	
Hole Size: 17-1/2"	Casing Size: 13-3/8" @ 444'
Cemented with: 375 sx.	or _____ ft ³
Top of Cement: Surface	Method Determined: Circulated
Intermediate Casing	
Hole Size: 12-1/4"	Casing Size: 9-5/8" @ 4,172'
Cemented with: 1850' sx.	or _____ ft ³
Top of Cement: Surface	Method Determined: Circulated
Production Casing	
Hole Size: 8-3/4"	Casing Size: 7" @ 13,184'
Cemented with: 1675 sx.	or _____ ft ³
Top of Cement: 6088'	Method Determined: CBL
Total Depth: 13,400'	
Open Hole: 13,184 feet	to 13,400 feet
(Perforated or Open Hole; indicate which)	



INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" L-80 Lining Material: plastic-coated

Type of Packer: Guiberson Uni VI - Nickel-plated

Packer Setting Depth: 12,000' & 13,000'

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1 Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? Devonian, Morrow, Atoka

2 Name of the Injection Formation: Devonian

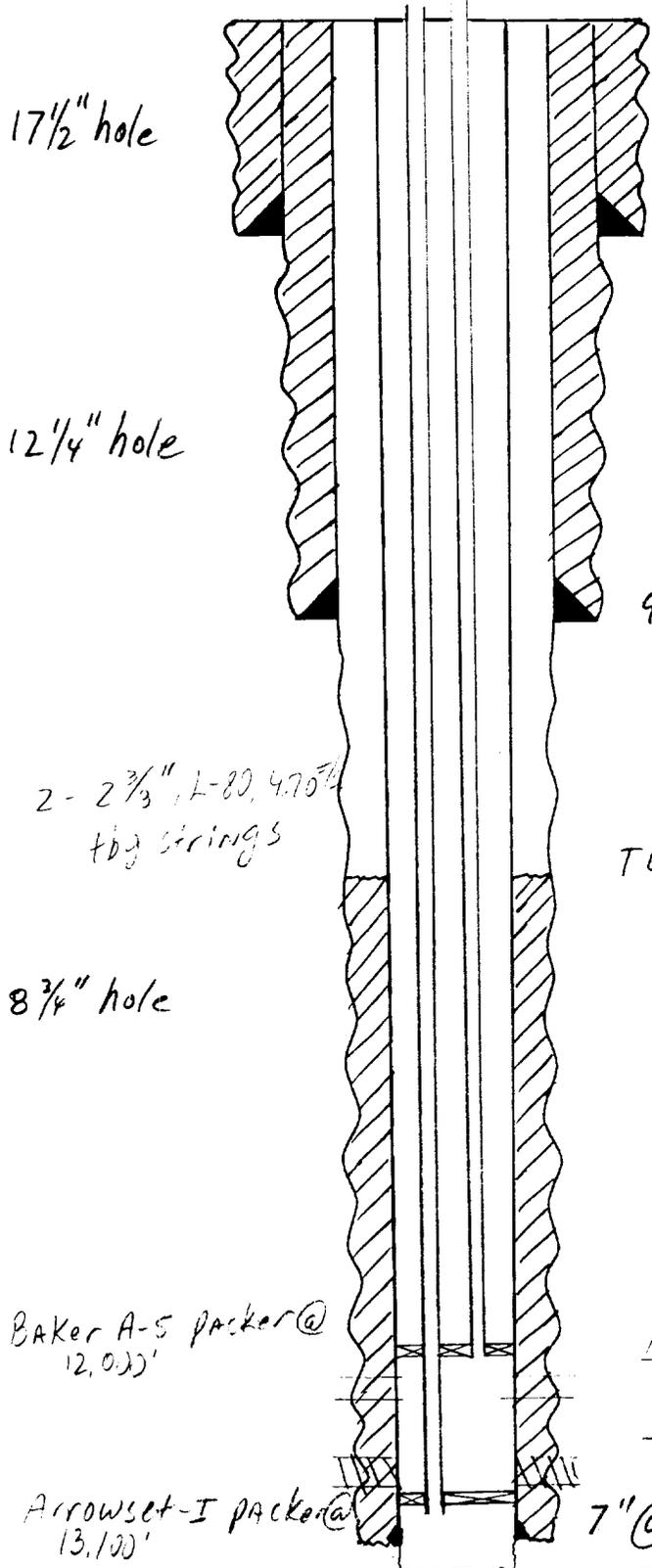
3 Name of Field or Pool (if applicable): None

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Yes, Mississippian sand 13,064'-13,082'.
Will be squeezed w/200 sacks when the work to do the dual completion is started.

5 Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Mississippi Sand

WELLNAME: SAND Springs "ASU" State #3 FIELD: SAND Springs
 LOCATION: 1500' FSL & 1500' FEL, Sec 11, T11S, R34E, Lea Co, NM.
 GL: 4,142' ZERO: _____ AGL: _____ KB: 4,160'
 SPUD DATE: _____ COMPLETION DATE: _____
 COMMENTS: _____

CASING PROGRAM	
SIZE/WT/GR/CONN	DEPTH SET
13 3/8", 48.0 #/ft, H-40, ST+C	444'
9 5/8", 36.00+40.0 #/ft, J-55, ST+C	4,172'
7", 26.0+29.0 #/ft, HC-P110+S-95 LTC	13,184'



13 3/8" @ 444', CMTD w/ 375 sacks, circ to surface

9 5/8" @ 4,172', CMTD w/ 1,850 sacks, circ to surface

2 - 2 3/8" L-80, 4,700' tubing strings

TOC: 8,500' EST

Attachment A
Page 4

after

Baker A-5 packer @ 12,000'

Mudstone
12,133' - 12,196'

Woodford SAND
13,064' - 13,082' 592D w/ 200 sack cement

Arrowset-I packer @ 13,100'

7" @ 13,184', CMTD w/ 1,675 sacks

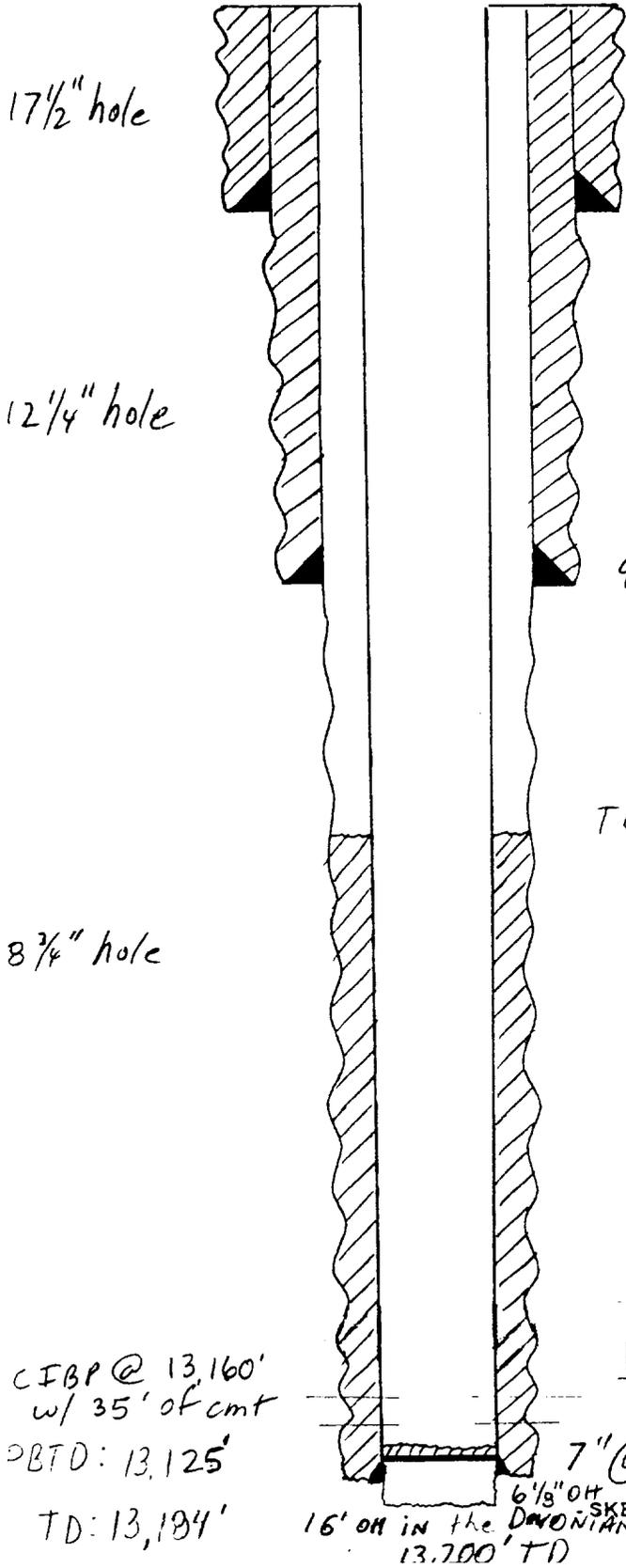
DATE: 4/14/00 JWP

TD: 13,400' 216' OH in the Devonian

SKETCH NOT TO SCALE -

WELLNAME: SAND Springs "HSL" State #3 FIELD: SAND Springs
 LOCATION: 1500' FSL & 1500' FEL, Sec 11, T11S, R34E, Lea Co, NM.
 GL: 4,142' ZERO: _____ AGL: _____ KB: 4,160'
 SPUD DATE: _____ COMPLETION DATE: _____
 COMMENTS: _____

CASING PROGRAM	
SIZE/WT/GR/CONN	DEPTH SET
13 3/8", 48.0 #/ft, H-40, ST+L	444'
9 5/8", 36.00+40.0 #/ft, J-55, ST+L	4,172'
7", 26.0+29.0 #/ft, HC-P110+S-95 L+L	13,184'



13 3/8" @ 444', CMTD w/ 375 SACKS, circ to surface

9 5/8" @ 4,172', CMTD w/ 1,850 SACKS, circ to surface

Attachment A
Page 5

TOL: 6,088' CBL

before

CIBP @ 13,160'
w/ 35' of cmt
DBTD: 13,125'
TD: 13,184'

WOODFORD SAND
13,064' - 13,082'

7" @ 13,184', CMTD w/ 1,675 SACKS

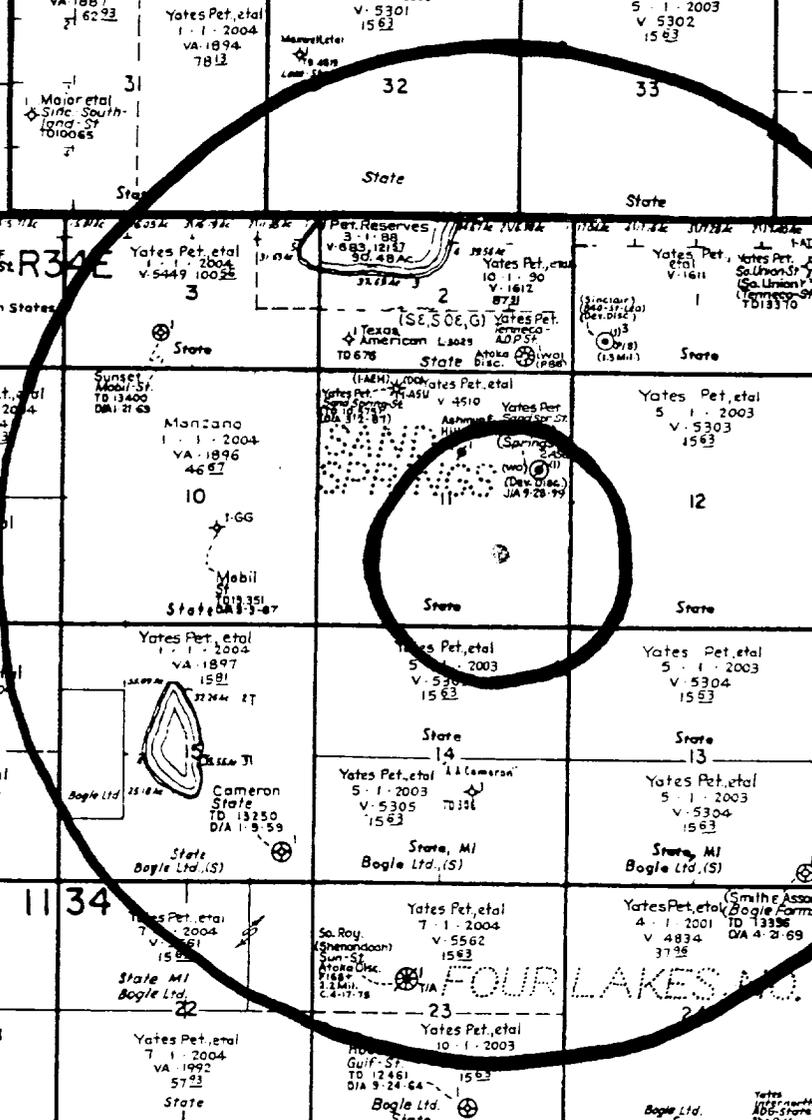
DATE: 4/14/00 JWP

6 1/8" OH
16' OH in the Devonian
13,700' TD
SKETCH NOT TO SCALE -

YATES PETROLEUM CORPORATION
SAND SPRINGS ASU STATE #3
Proposed Salt Water Disposal Well
Sec. 11-T11S-R34E
1500'FSL & 1500'FEL
Lea County, New Mexico

Attachment B - Map

18-3360 M.M. St. 11-1-93 V-2643 11154	19-3360 Lg. L.d., Expl Monsanto 8-11-93 V-5447 11154	20-3360 M.L. Brown Blue Coat O'Neill-St. 33114	21-3360 Yates Pet. etal 10-1-93 V-4477 3732 20	22-3360 Brosoco Christensen Pet. 5-1-2004 V-5522 24375	23-3360 Yates Pet. etal 1-2004 V-1621 26	24-3360 Yates Pet. etal 2-1-99 V-4284 2793	25-3360 Yates Pet. etal 4-1-2004 V-1947 1712	D.J. Schutz 4-1-2004 V-1946 5633	
26-3360 Yates Pet. etal 1-1-2004 V-5447 1628	27-3360 Yates Pet. etal 1-1-2004 V-1893 1563	28-3360 Yates Pet. etal 2-1-2004 V-1911 1563	29-3360 Yates Pet. etal 2-1-2004 V-1911 1563	30-3360 Yates Pet. etal 2-1-2004 V-1911 1563	31-3360 Yates Pet. etal 2-1-2004 V-1911 1563	32-3360 Yates Pet. etal 2-1-2004 V-1911 1563	33-3360 Yates Pet. etal 2-1-2004 V-1911 1563	34-3360 Yates Pet. etal 2-1-2004 V-1911 1563	35-3360 Yates Pet. etal 2-1-2004 V-1911 1563
36-3360 Yates Pet. etal 1-1-2004 V-5448 1563	37-3360 Yates Pet. etal 1-1-2004 V-5448 1563	38-3360 Yates Pet. etal 1-1-2004 V-5448 1563	39-3360 Yates Pet. etal 1-1-2004 V-5448 1563	40-3360 Yates Pet. etal 1-1-2004 V-5448 1563	41-3360 Yates Pet. etal 1-1-2004 V-5448 1563	42-3360 Yates Pet. etal 1-1-2004 V-5448 1563	43-3360 Yates Pet. etal 1-1-2004 V-5448 1563	44-3360 Yates Pet. etal 1-1-2004 V-5448 1563	45-3360 Yates Pet. etal 1-1-2004 V-5448 1563
46-3360 Yates Pet. etal 1-1-2004 V-5450 1528	47-3360 Yates Pet. etal 1-1-2004 V-5450 1528	48-3360 Yates Pet. etal 1-1-2004 V-5450 1528	49-3360 Yates Pet. etal 1-1-2004 V-5450 1528	50-3360 Yates Pet. etal 1-1-2004 V-5450 1528	51-3360 Yates Pet. etal 1-1-2004 V-5450 1528	52-3360 Yates Pet. etal 1-1-2004 V-5450 1528	53-3360 Yates Pet. etal 1-1-2004 V-5450 1528	54-3360 Yates Pet. etal 1-1-2004 V-5450 1528	55-3360 Yates Pet. etal 1-1-2004 V-5450 1528
56-3360 Yates Pet. etal 1-1-2004 V-5450 1528	57-3360 Yates Pet. etal 1-1-2004 V-5450 1528	58-3360 Yates Pet. etal 1-1-2004 V-5450 1528	59-3360 Yates Pet. etal 1-1-2004 V-5450 1528	60-3360 Yates Pet. etal 1-1-2004 V-5450 1528	61-3360 Yates Pet. etal 1-1-2004 V-5450 1528	62-3360 Yates Pet. etal 1-1-2004 V-5450 1528	63-3360 Yates Pet. etal 1-1-2004 V-5450 1528	64-3360 Yates Pet. etal 1-1-2004 V-5450 1528	65-3360 Yates Pet. etal 1-1-2004 V-5450 1528
66-3360 Yates Pet. etal 1-1-2004 V-5450 1528	67-3360 Yates Pet. etal 1-1-2004 V-5450 1528	68-3360 Yates Pet. etal 1-1-2004 V-5450 1528	69-3360 Yates Pet. etal 1-1-2004 V-5450 1528	70-3360 Yates Pet. etal 1-1-2004 V-5450 1528	71-3360 Yates Pet. etal 1-1-2004 V-5450 1528	72-3360 Yates Pet. etal 1-1-2004 V-5450 1528	73-3360 Yates Pet. etal 1-1-2004 V-5450 1528	74-3360 Yates Pet. etal 1-1-2004 V-5450 1528	75-3360 Yates Pet. etal 1-1-2004 V-5450 1528
76-3360 Yates Pet. etal 1-1-2004 V-5450 1528	77-3360 Yates Pet. etal 1-1-2004 V-5450 1528	78-3360 Yates Pet. etal 1-1-2004 V-5450 1528	79-3360 Yates Pet. etal 1-1-2004 V-5450 1528	80-3360 Yates Pet. etal 1-1-2004 V-5450 1528	81-3360 Yates Pet. etal 1-1-2004 V-5450 1528	82-3360 Yates Pet. etal 1-1-2004 V-5450 1528	83-3360 Yates Pet. etal 1-1-2004 V-5450 1528	84-3360 Yates Pet. etal 1-1-2004 V-5450 1528	85-3360 Yates Pet. etal 1-1-2004 V-5450 1528
86-3360 Yates Pet. etal 1-1-2004 V-5450 1528	87-3360 Yates Pet. etal 1-1-2004 V-5450 1528	88-3360 Yates Pet. etal 1-1-2004 V-5450 1528	89-3360 Yates Pet. etal 1-1-2004 V-5450 1528	90-3360 Yates Pet. etal 1-1-2004 V-5450 1528	91-3360 Yates Pet. etal 1-1-2004 V-5450 1528	92-3360 Yates Pet. etal 1-1-2004 V-5450 1528	93-3360 Yates Pet. etal 1-1-2004 V-5450 1528	94-3360 Yates Pet. etal 1-1-2004 V-5450 1528	95-3360 Yates Pet. etal 1-1-2004 V-5450 1528
96-3360 Yates Pet. etal 1-1-2004 V-5450 1528	97-3360 Yates Pet. etal 1-1-2004 V-5450 1528	98-3360 Yates Pet. etal 1-1-2004 V-5450 1528	99-3360 Yates Pet. etal 1-1-2004 V-5450 1528	100-3360 Yates Pet. etal 1-1-2004 V-5450 1528	101-3360 Yates Pet. etal 1-1-2004 V-5450 1528	102-3360 Yates Pet. etal 1-1-2004 V-5450 1528	103-3360 Yates Pet. etal 1-1-2004 V-5450 1528	104-3360 Yates Pet. etal 1-1-2004 V-5450 1528	105-3360 Yates Pet. etal 1-1-2004 V-5450 1528



ISLAND MAP

FOUR LAKES NO.

EIGHT M

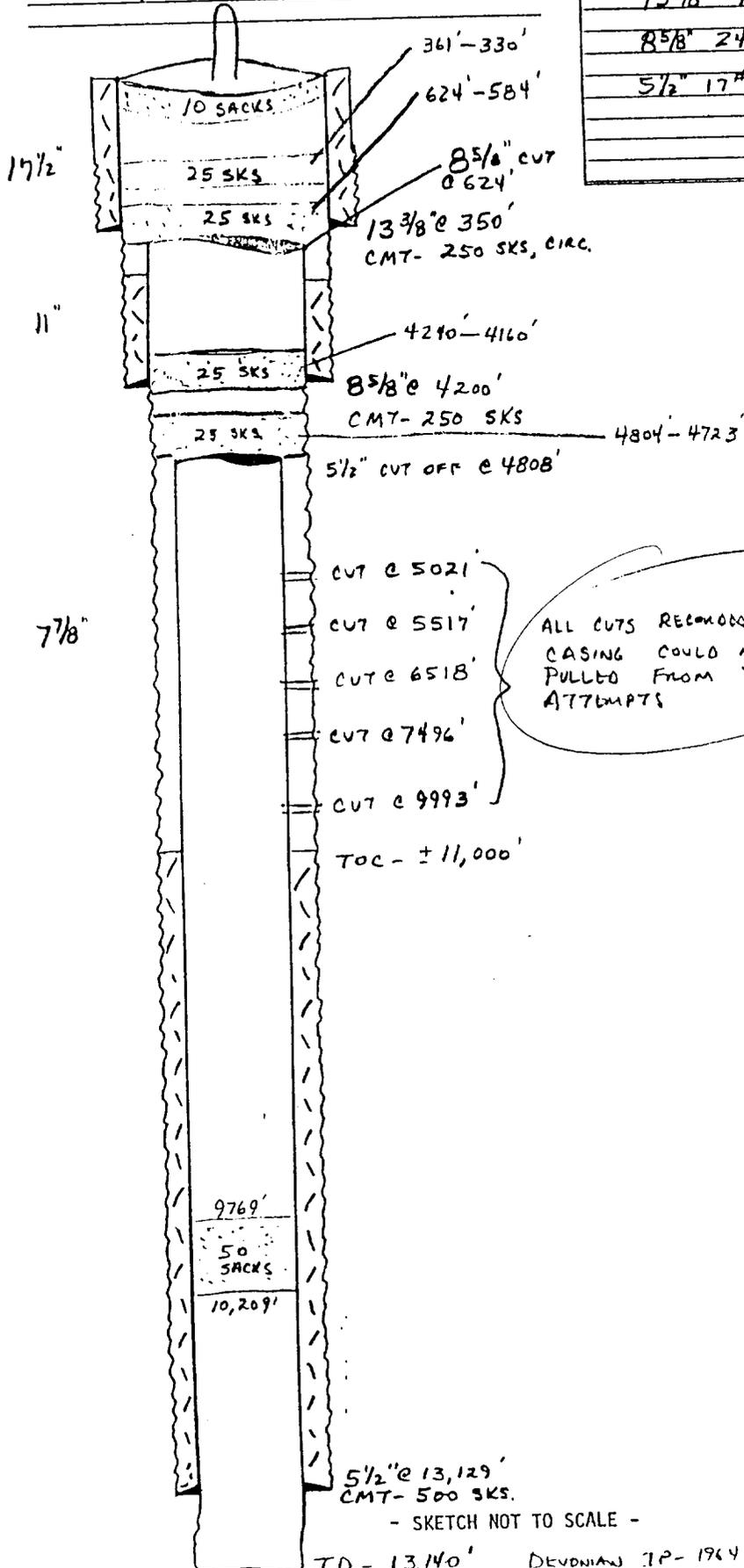
SOUTH FOUR LAKES UNIT

35

WELL NAME: HILL & MEEKE STATE 11" #1 FIELD AREA: _____
 LOCATION: 1650' FNL & 2310' FEL SEC 11 T11S R34E LEA CO, NM
 GL: 4153' ZERO: _____' AGL: _____'
 KB: _____' ORIG. DRLG./COMPL. DATE: _____
 COMMENTS: DRILLED & COMPLETED - 1964
P + A - 1970

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 3/8" 48#	
8 5/8" 24#, 32# J-55 STC	4200'
5 1/2" 17#, 20# LTC	13,129'



ALL CUTS RECORDED AS "SHOT"
 CASING COULD NOT BE
 PULLED FROM THESE 5
 ATTEMPTS

TOPS

- T SALT - 2088
- B SALT - 2680
- SAN ANTONIO - 4145
- GLORIA - 5490
- ABO - 7760
- BOUGH C - 9944
- MISS - 12,110
- DEVONIAN - 13,096

- SKETCH NOT TO SCALE -

REVISED: 12/78 M Keill

TD - 13,140' DEVONIAN TP - 1964 215 BOPD 46" API NO WATER

TRAINER SPRINGS 11 → YPC Sand Springs ASU St# 2

WELL NAME: NEW MEXICO Sp Water Disposal FIELD AREA: _____

LOCATION: 1980' FNL & 660' FEL SEC 11 T11S R34E L1A CO, NM

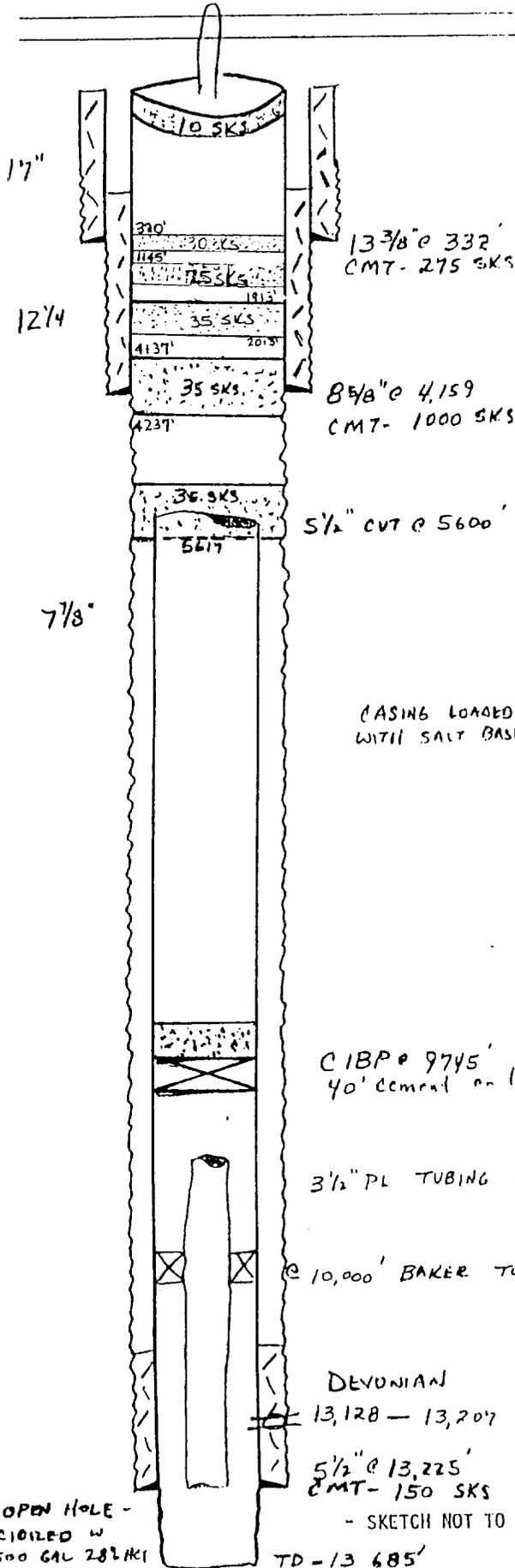
GL: _____ ZERO: _____ AGL: _____

KB: 4165' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: Drilled & Completed 1961

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 3/8" 40#	
8 5/8" 24# 32#	4159
5 1/2" 17# 20# pulled from 5600'	13,225



Attachment C
Page 3

TOPS

- T SALT 2140
- B SALT 2735
- SAN ANTONIO 4056
- GLOBETA 5517
- ABO 7800
- WOLF CAMP 9087
- MISSISSIPPIAN 12,265
- DEVONIAN 13,126

(CASING LOADED WITH SALT BASED MUD)

CIBP @ 9745'
40' Cement on top

3 1/2" PL TUBING ~~10,000~~ ^{10,089} - 13,100'

@ 10,000' BAKER TUBING HAZARD

DEVONIAN
13,128 - 13,207

IP - 384 BOPD 44° API
O BWFO

5 1/2" @ 13,225'
CMT - 150 SKS

9/13/99 Ray S

REVISED: 12/98 M Keith

OPEN HOLE -
1000 GAL 28% HCl

- SKETCH NOT TO SCALE -

TD - 13,685'



Water Analysis

Date: 01-May-00

2708 West County Road, Hobbs NM 88240
Phone (505) 392-5556 Fax (505) 392-7307

Analyzed For *Devonian*

Company	Well Name	County	State
Yates Petroleum Corp.	sand spring asu st.3	Lea	New Mexico

Sample Source	Swab Sample	Sample #	1
Formation	Depth		
Specific Gravity	1.010	SG @ 60 °F	1.012
pH	8.08	Sulfides	Absent
Temperature (°F)	68	Reducing Agents	Not Tested

Cations

Sodium (Calc)	in Mg/L	7,516	in PPM	7,429
Calcium	in Mg/L	224	in PPM	221
Magnesium	in Mg/L	41	in PPM	40
Soluable Iron (FE2)	in Mg/L	0.0	in PPM	0

Anions

Chlorides	in Mg/L	11,760	in PPM	11,625
Sulfates	in Mg/L	310	in PPM	306
Bicarbonates	in Mg/L	107	in PPM	106
Total Hardness (as CaCO3)	in Mg/L	730	in PPM	722
Total Dissolved Solids (Calc)	in Mg/L	19,958	in PPM	19,729
Equivalent NaCl Concentration	in Mg/L	19,527	in PPM	19,303

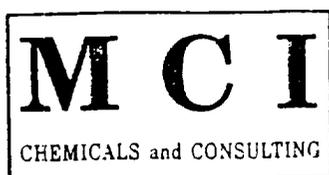
Scaling Tendencies

*Calcium Carbonate Index	24,049
<i>Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable</i>	
*Calcium Sulfate (Gyp) Index	69,440
<i>Below 500,000 Remote / 500,000 - 10,000,00 Possible / Above 10,000,000 Probable</i>	

*This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.

Remarks rw = .33 potassium =1500 mike allen 505-385-8908 or 505-748-3628

Report # 457



MILLER CHEMICALS, INC.

Post Office Box 298
Artesia, N.M. 88211-0298
(505) 746-1919 Artesia Office
(505) 393-2893 Hobbs Office
(505) 746-1913 Fax

WATER ANALYSIS REPORT

Company	: YATES PETROLEUM	Date	: 9/22/00
Address	: ARTESIA, NM	Date Sampled	: 9/20/00
Lease	: SAND SPRINGS "ASU" S	Analysis No.	: 00189
Well	: #4		
Sample Pt.	: WELLHEAD		<i>Dwanian</i>

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.7			
2. H2S	0			
3. Specific Gravity	1.030			
4. Total Dissolved Solids		50952.1		
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	512.0	HCO3	8.4
12. Chloride	Cl	29820.0	Cl	841.2
13. Sulfate	SO4	1250.0	SO4	26.0
14. Calcium	Ca	1920.0	Ca	95.8
15. Magnesium	Mg	535.6	Mg	44.1
16. Sodium (calculated)	Na	16914.5	Na	735.7
17. Iron	Fe	0.0		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		7000.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	=	mg/L
+-----+	+-----+	-----	-----		-----
96 *Ca <----- *HCO3 8		Ca(HCO3)2	81.0	8.4	680
----- /----->	-----	CaSO4	68.1	26.0	1772
44 *Mg -----> *SO4 26		CaCl2	55.5	61.4	3406
----- <-----/ -----	-----	Mg(HCO3)2	73.2		
736 *Na -----> *Cl 841		MgSO4	60.2		
+-----+	+-----+	MgCl2	47.6	44.1	2098
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3	13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	735.7	42996
BaSO4	2.4 mg/L				

REMARKS: 0 % KCL PRESENT

SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 9/22/00
Address : ARTESIA, NM Date Sampled : 9/20/00
Lease : SAND SPRINGS "ASU" S Analysis No. : 00189
Well : #4 Analyst : A. MILLER
Sample Pt. : WELLHEAD

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

S.I. = 0.4 at 70 deg. F or 21 deg. C
S.I. = 0.5 at 90 deg. F or 32 deg. C
S.I. = 0.5 at 110 deg. F or 43 deg. C
S.I. = 0.6 at 130 deg. F or 54 deg. C
S.I. = 0.7 at 150 deg. F or 66 deg. C

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

S = 3775 at 70 deg. F or 21 deg C
S = 3933 at 90 deg. F or 32 deg C
S = 4028 at 110 deg. F or 43 deg C
S = 4044 at 130 deg. F or 54 deg C
S = 4017 at 150 deg. F or 66 deg C

Respectfully submitted,
A. MILLER

B J Services Water Analysis

Artesia District Laboratory
(505)-746-3140

Date: 11-Aug-00	Test #:
Company: Yates Petroleum	Well #: AUM#1
Lease: Hylack	County:
State: N.M.	Formation: <i>Morrow</i>
Depth:	Source:

pH:	5.17	Temp (F):	70.5
Specific Gravity	1.006		

<u>CATIONS</u>	mg/l	mol/l	ppm
Sodium (calc.)	3792	165.0	3773
Calcium	80	4.0	80
Magnesium	49	4.0	48
Barium	< 26	—	—
Potassium	< 10	—	—
Iron	26	0.9	26

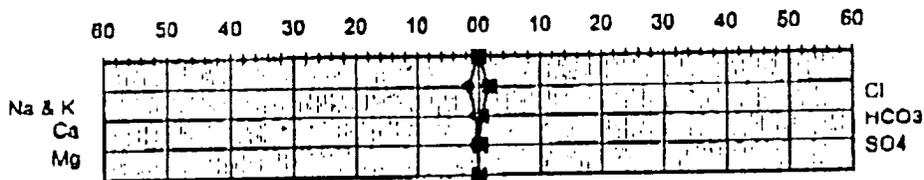
<u>ANIONS</u>	mg/l	mol/l	ppm
Chloride	6000	189.3	5970
Sulfate	80	1.2	59
Carbonate	< 1	—	—
Bicarbonate	244	4.0	243
Total Dissolved Solids(calc.)	10250		10199
Total Hardness as CaCO3	400	8.0	398

COMMENTS:

SCALE ANALYSIS:

CaCO3 Factor	19588.8 Calcium Carbonate Scale Probability →	Remote
CaSO4 Factor	4812 Calcium Sulfate Scale Probability →	Remote

Stiff Plot





Water Analysis

Date: 01-May-00

2708 West County Road, Hobbs NM 88240
Phone (505) 392-5556 Fax (505) 392-7307

Analyzed For *Atoka*

Company	Well Name	County	State
Yates Petroleum Corp.	Blitzen "AUB" State 1	Lea	New Mexico

Sample Source	Swab Sample	Sample #	1/630 am
Formation		Depth	
Specific Gravity	1.045	SG @ 60 °F	1.048
pH	6.84	Sulfides	Absent
Temperature (°F)	76	Reducing Agents	Not Tested

Cations

Sodium (Calc)	in Mg/L	24,012	in PPM	22,908
Calcium	in Mg/L	6,800	in PPM	6,487
Magnesium	in Mg/L	1,200	in PPM	1,145
Soluable Iron (FE2)	in Mg/L	10.0	in PPM	10

Anions

Chlorides	in Mg/L	52,000	in PPM	49,609
Sulfates	in Mg/L	300	in PPM	286
Bicarbonates	in Mg/L	307	in PPM	293
Total Hardness (as CaCO3)	in Mg/L	22,000	in PPM	20,988
Total Dissolved Solids (Calc)	in Mg/L	84,630	in PPM	80,738
Equivalent NaCl Concentration	in Mg/L	81,192	in PPM	77,459

Scaling Tendencies

*Calcium Carbonate Index 2,090,592

Below 500,000 Remote / 500,000 - 1,000,000 Possible / Above 1,000,000 Probable

*Calcium Sulfate (Gyp) Index 2,040,000

Below 500,000 Remote / 500,000 - 10,000,000 Possible / Above 10,000,000 Probable

**This Calculation is only an approximation and is only valid before treatment of a well or several weeks after treatment.*

Remarks rw = .15 potassium =350 mike allen 505-365-8906 or 505-748-3828

Report # 458



MILLER CHEMICALS, INC.

Post Office Box 298
Artesia, N.M. 88211-0298
(505) 746-1919 Artesia Office
(505) 393-2893 Hobbs Office
(505) 746-1918 Fax

WATER ANALYSIS REPORT

Company	: YATES PETROLEUM	Date	: 10/9/00
Address	: ARTESIA, NM	Date Sampled	: 10/5/00
Lease	: SAND SPRINGS "ASU"#1	Analysis No.	: 00192
Well	: WINDMILL NW		
Sample Pt.	: TANK		

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.9			
2. H2S	0			
3. Specific Gravity	1.000			
4. Total Dissolved Solids		10963.5		
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	329.0	HCO3	5.4
12. Chloride	Cl	6390.0	Cl	180.3
13. Sulfate	SO4	450.0	SO4	9.4
14. Calcium	Ca	560.0	Ca	27.9
15. Magnesium	Mg	680.4	Mg	56.0
16. Sodium (calculated)	Na	2554.0	Na	111.1
17. Iron	Fe	0.0		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		4200.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	=	mg/L
+-----+		-----		-----
28 *Ca <----- *HCO3 5	Ca (HCO3)2	81.0	5.4	437
----- /-----> -----	CaSO4	68.1	9.4	638
56 *Mg -----> *SO4 9	CaCl2	55.5	13.2	731
----- <-----/ -----	Mg (HCO3)2	73.2		
111 *Na -----> *Cl 180	MgSO4	60.2		
+-----+	MgCl2	47.6	56.0	2665
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	111.1	6492
BaSO4 2.4 mg/L				

REMARKS:

SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 10/9/00
Address : ARTESIA, NM Date Sampled : 10/5/00
Lease : SAND SPRINGS "ASU" # Analysis No. : 00192
Well : WINDMILL NW Analyst : A. MILLER
Sample Pt. : TANK

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

S.I. = 0.1 at 70 deg. F or 21 deg. C
S.I. = 0.2 at 90 deg. F or 32 deg. C
S.I. = 0.2 at 110 deg. F or 43 deg. C
S.I. = 0.2 at 130 deg. F or 54 deg. C
S.I. = 0.3 at 150 deg. F or 66 deg. C

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

S = 2508 at 70 deg. F or 21 deg C
S = 2576 at 90 deg. F or 32 deg C
S = 2608 at 110 deg. F or 43 deg C
S = 2600 at 130 deg. F or 54 deg C
S = 2574 at 150 deg. F or 66 deg C

Respectfully submitted,
A. MILLER



MILLER CHEMICALS, INC.
Post Office Box 298
Artesia, N.M. 88211-0298
(505) 746-1919 Artesia Office
(505) 393-2893 Hobbs Office
(505) 746-1918 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM Date : 10/9/00
Address : ARTESIA, NM Date Sampled : 10/5/00
Lease : SAND SPRINGS "ASU" #1 Analysis No. : 00193
Well : WINDMILL NW
Sample Pt. : FILL PIPE

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH	6.9			
2. H2S	0			
3. Specific Gravity	1.000			
4. Total Dissolved Solids		9651.0		
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	427.0	HCO3	7.0
12. Chloride	Cl	5538.0	Cl	156.2
13. Sulfate	SO4	425.0	SO4	8.9
14. Calcium	Ca	600.0	Ca	20.0
15. Magnesium	Mg	680.5	Mg	56.0
16. Sodium (calculated)	Na	1980.5	Na	86.1
17. Iron	Fe	0.0		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		4300.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equip wt X meq/L	-	mg/L
+-----+	+-----+				
30 *Ca <----- *HCO3	7	Ca(HCO3)2	81.0	7.0	567
----- /----->	-----	CaSO4	68.1	8.9	602
56 *Mg -----> *SO4	9	CaCl2	55.5	14.1	782
----- <-----/	-----	Mg(HCO3)2	73.2		
86 *Na -----> *Cl	156	MgSO4	60.2		
+-----+	+-----+	MgCl2	47.6	56.0	2665
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3	13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O	2090 mg/L	NaCl	58.4	86.1	5034
BaSO4	2.4 mg/L				

REMARKS: BOGLE 4 LAKES RANCH

SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 10/9/00
Address : ARTESIA, NM Date Sampled : 10/5/00
Lease : SAND SPRINGS "ASU" # / Analysis No. : 00193
Well : WINDMILL NW Analyst : A. MILLER
Sample Pt. : FILL PIPE

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

S.I. = 0.3 at 70 deg. F or 21 deg. C
S.I. = 0.3 at 90 deg. F or 32 deg. C
S.I. = 0.4 at 110 deg. F or 43 deg. C
S.I. = 0.4 at 130 deg. F or 54 deg. C
S.I. = 0.4 at 150 deg. F or 66 deg. C

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

S = 2310 at 70 deg. F or 21 deg C
S = 2373 at 90 deg. F or 32 deg C
S = 2401 at 110 deg. F or 43 deg C
S = 2392 at 130 deg. F or 54 deg C
S = 2366 at 150 deg. F or 66 deg C

Respectfully submitted,
A. MILLER



MILLER CHEMICALS, INC.
Post Office Box 298
Artesia, N.M. 88211-0298
(505) 746-1919 Artesia Office
(505) 393-2893 Hobbs Office
(505) 746-1918 Fax

WATER ANALYSIS REPORT

Company	: YATES PETROLEUM	Date	: 10/9/00
Address	: ARTESIA, NM	Date Sampled	: 10/5/00
Lease	: SAND SPRINGS"ASU"#3	Analysis No.	: 00194
Well	: WINDMILL ESE		
Sample Pt.	: TANK		

ANALYSIS		mg/L		* meq/L
-----		----		-----
1. pH		6.9		
2. H2S		0		
3. Specific Gravity		1.000		
4. Total Dissolved Solids		10218.7		
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	329.0	HCO3	5.4
12. Chloride	Cl	5964.0	Cl	168.2
13. Sulfate	SO4	400.0	SO4	8.3
14. Calcium	Ca	640.0	Ca	31.9
15. Magnesium	Mg	631.9	Mg	52.0
16. Sodium (calculated)	Na	2253.8	Na	98.0
17. Iron	Fe	0.0		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		4200.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	=	mg/L
+-----+				
32 *Ca <----- *HCO3 5	Ca(HCO3)2	81.0	5.4	437
----- /-----> -----	CaSO4	68.1	8.3	567
52 *Mg -----> *SO4 8	CaCl2	55.5	18.2	1011
----- <-----/ -----	Mg(HCO3)2	73.2		
98 *Na -----> *Cl 168	MgSO4	60.2		
+-----+	MgCl2	47.6	52.0	2475
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	98.0	5729
BaSO4 2.4 mg/L				

REMARKS: BOGLE 4 LAKE RANCH

SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 10/9/00
Address : ARTESIA, NM Date Sampled : 10/5/00
Lease : SAND SPRINGS"ASU"#3 Analysis No. : 00194
Well : WINDMILL ESE Analyst : A. MILLER
Sample Pt. : TANK

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

S.I. = 0.2 at 70 deg. F or 21 deg. C
S.I. = 0.2 at 90 deg. F or 32 deg. C
S.I. = 0.3 at 110 deg. F or 43 deg. C
S.I. = 0.3 at 130 deg. F or 54 deg. C
S.I. = 0.4 at 150 deg. F or 66 deg. C

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

S = 2297 at 70 deg. F or 21 deg C
S = 2361 at 90 deg. F or 32 deg C
S = 2391 at 110 deg. F or 43 deg C
S = 2382 at 130 deg. F or 54 deg C
S = 2356 at 150 deg. F or 66 deg C

Respectfully submitted,
A. MILLER



MILLER CHEMICALS, INC.

Post Office Box 298
 Artesia, N.M. 88211-0298
 (505) 746-1919 Artesia Office
 (505) 393-2893 Hobbs Office
 (505) 746-1918 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM Date : 10/9/00
 Address : ARTESIA, NM Date Sampled : 10/5/00
 Lease : SAND SPRINGS"ASU"#3 Analysis No. : 00195
 Well : WINDMILL ESE
 Sample Pt. : FILLPIPE

ANALYSIS		mg/L		* meq/L
1. pH	6.9			
2. H2S	0			
3. Specific Gravity	1.000			
4. Total Dissolved Solids		10326.9		
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	439.0	HCO3	7.2
12. Chloride	Cl	5964.0	Cl	168.2
13. Sulfate	SO4	400.0	SO4	8.3
14. Calcium	Ca	640.0	Ca	31.9
15. Magnesium	Mg	680.5	Mg	56.0
16. Sodium (calculated)	Na	2203.4	Na	95.8
17. Iron	Fe	0.0		
18. Barium	Ba	NR		
19. Strontium	Sr	NR		
20. Total Hardness (CaCO3)		4400.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
32 *Ca <----- *HCO3 7	Ca(HCO3)2	81.0	583
----- /-----> -----	CaSO4	68.1	567
56 *Mg -----> *SO4 8	CaCl2	55.5	911
----- <-----/ -----	Mg(HCO3)2	73.2	
96 *Na -----> *Cl 168	MgSO4	60.2	
+-----+	MgCl2	47.6	2665
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3 13 mg/L	Na2SO4	71.0	
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	5601
BaSO4 2.4 mg/L			

REMARKS: BOGLE 4 LAKES RANCH

SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 10/9/00
Address : ARTESIA, NM Date Sampled : 10/5/00
Lease : SAND SPRINGS"ASU"#3 Analysis No. : 00195
Well : WINDMILL ESE Analyst : A. MILLER
Sample Pt. : FILLPIPE

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

S.I. = 0.3 at 70 deg. F or 21 deg. C
S.I. = 0.3 at 90 deg. F or 32 deg. C
S.I. = 0.4 at 110 deg. F or 43 deg. C
S.I. = 0.4 at 130 deg. F or 54 deg. C
S.I. = 0.5 at 150 deg. F or 66 deg. C

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

S = 2319 at 70 deg. F or 21 deg C
S = 2384 at 90 deg. F or 32 deg C
S = 2415 at 110 deg. F or 43 deg C
S = 2406 at 130 deg. F or 54 deg C
S = 2380 at 150 deg. F or 66 deg C

Respectfully submitted,
A. MILLER

Attachment F

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



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

October 31, 2000

Bogle Farms, Inc.
P. O. Box 358
Dexter, NM 88230

Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authorization to Inject) on the Sand Springs ASU State #3 located in Unit J of Section 11-T11S-R34E of Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-4182.

Sincerely,

A handwritten signature in cursive script that reads 'James W. Pringle'.

James W. Pringle
Operations Engineer

JWP/th

Enclosures

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



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

October 31, 2000

Hobbs News Sun
P. O. Box 850
Hobbs, NM 88241

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, November 5, 2000, and forward a copy of it along with your billing as soon as possible to:

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
Attn: James W. Pringle

If you have any questions, please contact me at 748-4182. Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads 'James W. Pringle'.

James W. Pringle
Operations Engineer

JWP/th

Enclosure

ATTACHMENT G

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 "Sand Springs ASU State #3" located 1500'FSL & 1500'FEL of Section 11, Township 11 South, Range 34 East of Lea County, New Mexico, will be used for salt water disposal. Disposal waters from the Devonian, Morrow, Atoka will be re-injected into the Devonian at a depth of 13,184'-13,400' with a maximum pressure of 3000 psi and a maximum rate of 10,000 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 87505-5472, within 15 days. Additional information can be obtained by contacting James W. Pringle at (505) 748-4182.