YATES PETROLEUM CORPORATION

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

February 5, 1992

CERTIFIED RETURN RECEIPT

Case 10463

Charles R. Martin, Inc.
P. O. Box 706
Artesia, NM 88210

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Red Hat SWD #1 located in Unit O of Section 2-16S-33E , Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

ENERGY AND MINERALS DEPARTMENT

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

Revised 7-1-81

Case 10463

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 S. 4th Street, Artesia, NM 88210

Contact party: Jim Brown Phone: (505) 748-1471

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: Jim Brown Title Operations Engineering Supervisor

Signature: Jim Brown Date: February 5, 1992

* 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 applicat 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 we

(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.

C-108
Application For Authorization To Inject
Yates Petroleum Corporation
Red Hat SWD #1
O 2-16S-33E
Lea County, New Mexico

I. The purpose of completing this well is to make a disposal well for produced San Andres water into the San Andres and Glorieta.

II. Operator: Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
Jim Brown (505) 748-1471

III. Well Data: See Attachment A

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

V. See attached map, Attachment B

VI. No wells within the area of review penetrate the proposed injection zone.

VII. 1. Proposed average daily injection volume approximately 4000 BWPD.
Maximum daily injection volume approximately 10,000 BWPD.

2. This will be a closed system.

3. Proposed average injection pressure-900 psi
Proposed maximum injection pressure--1150 psi.

4. Sources of injected water would be produced water from the San Andres formation from nearby wells. (See Attachment C)

5. See Attachment C.

VIII. 1. The proposed injection interval is the San Andres and Glorieta formations from 5805'-5818' and 5900'-5920'.

2. Ogallala zones overlie the proposed injection formations at depths to approximately 300' feet.

IX. The proposed disposal intervals will be acidized with 2,000 gallons of 15 HCL.

X. Well logs have been filed with the Division.

XI. 3 water wells exists within a one mile radius of the subject location. (Attachment D) Water analyses are attached.

XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.

XIII. Proof of Notice

A. Certified letters sent to the surface owner and offset operators-attached. (Attachment E)

B. Copy of legal advertisement attached. (Attachment F)

XIV. Certification is signed.

5. Next higher (shallower) oil or gas zone within the area of review--None
Next lower (deeper) oil or gas zone within the area of review--Wolfcamp 9849'.

ATTACHMENT A

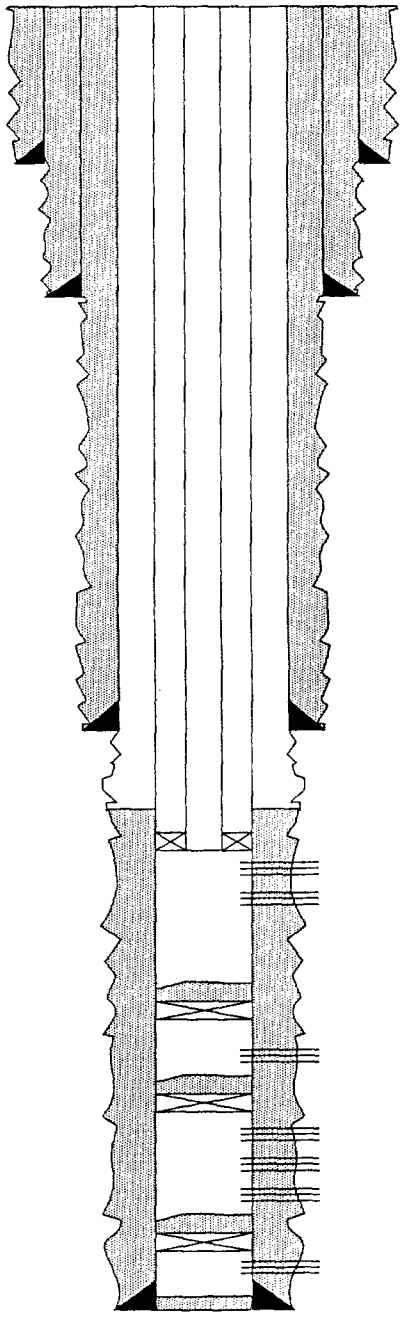
PROPOSED SWD WELLBORE SCHEMATIC

YATES PETROLEUM CORPORATION

RED HAT SWD #1

SEC. 2-T16S-R33E

LEA COUNTY, NEW MEXICO



26" HOLE

20" @ 40'
W/3-1/2 YARDS (CIRC)

17-3/4" HOLE

13-3/8" 54.5# @ 409'
W/425 SX (CIRC)

RUSTLER 1501'

SALADO 1608'

12-1/4" HOLE

YATES 2742'

QUEEN 3580'

SAN ANDRES 4417'

8-5/8" @ 4515'
W/2100 SX (CIRC)

TOC ABOVE 5200'

PERFS 5808-5818'
PROPOSED PERFS 5900-5920'

GLORIETA 5896'
TUBB 7166'
ABO 7804'
ABO SHALE 7902
WOLFCAMP 9501'

CIBP + 35' CEMENT @ 9800'
PERFS 9849-9870'
CIBP + 35' CEMENT @ 10375'
PERFS 10415-10470'
PERFS 10756-10778'
PERFS 11052-11106'
CIBP + 35' CEMENT @ 12560'
PERFS 12604-12628'

PENN 10123

7-7/8" HOLE

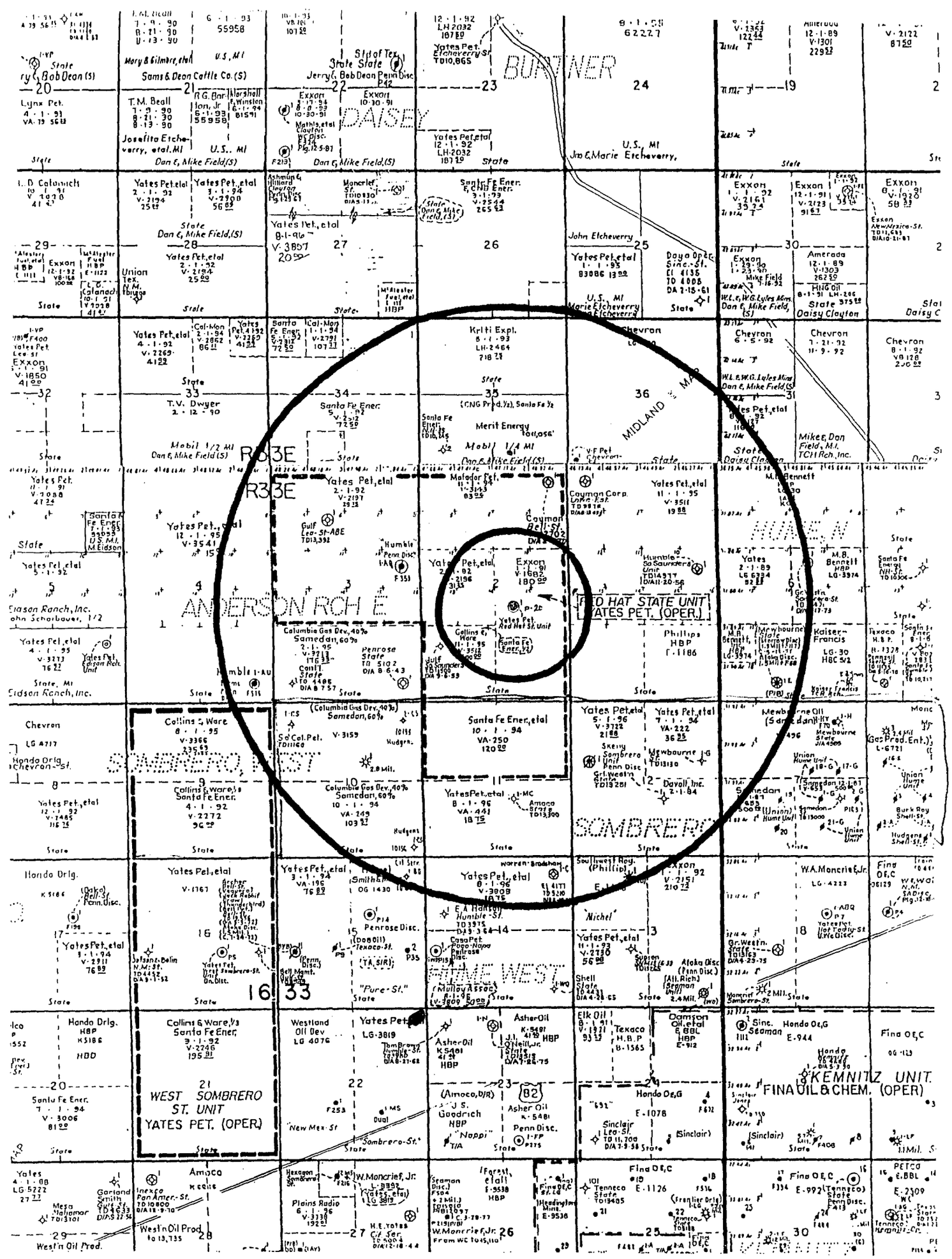
PBTD 12750'

5-1/2" @ 13250'
W/2650 SX

TD 13250'

WILL COMPLETE FOR SALT-WATER DISPOSAL WITH 2-7/8" 6.5# J-55 PLASTIC-COATED TUBING AND GUIBERSON UNI VI OR BAKER PLASTIC-COATED OR NICKEL-PLATED PACKER @ 5700'.

PROPOSE TO INJECT CANYON PRODUCED WATERS INTO THE SAN ANDRES AND GLORIETA FORMATIONS FROM APPROXIMATELY 5808-5818' AND 5900-5920'.



YATES PETROLEUM CORPORATION

RED HAT SWD #1

PROPOSED SALT WATER DISPOSAL

SEC. 2-16S-33E

3300'FSL & 1980'FEL

LEA COUNTY, NEW MEXICO

ATTACHMENT B

ATTACHMENT C

THE WESTERN COMPANY OF NORTH AMERICA
WATER ANALYSIS

ANALYSIS NO: 920203C

GENERAL INFORMATION

OPERATOR:	YATES PET.		
WELL:	EIDSON RANCH UNIT#1	DEPTH:	+/-5700
FIELD:	EIDSON RANCH UNIT	DATE SAMPLED:	2-3-92
FORMATION:	SAN ANDRES	DATE RECEIVED:	2-3-92
COUNTY:	EDDY	SUBMITTED BY:	RAY STALL
STATE:	NM	WORKED BY:	SHEPHERD
		PHONE:	505-392-5556

SAMPLE DESCR: POST TREATMENT ANALYSIS.

PHYSICAL AND CHEMICAL DETERMINATIONS

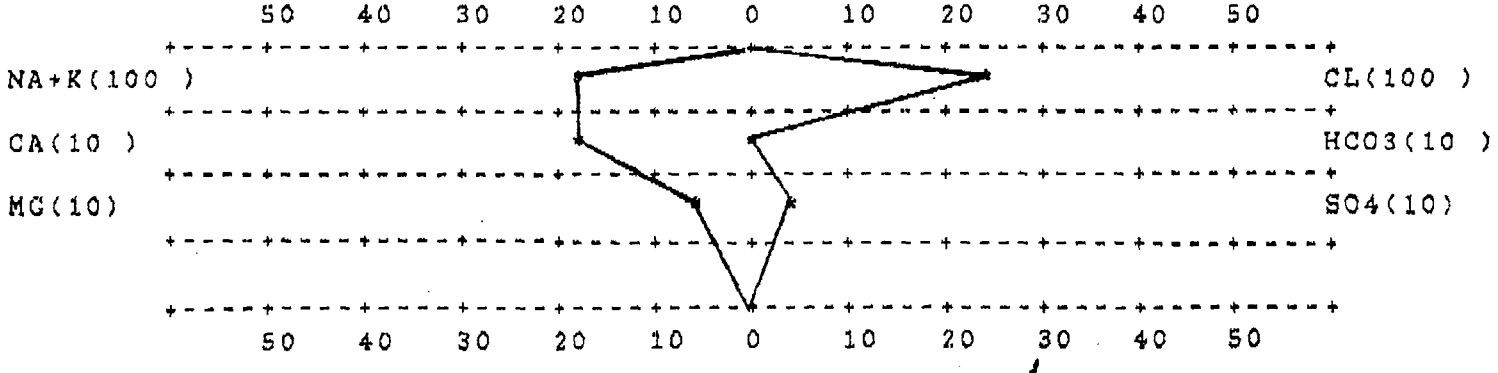
SPECIFIC GRAVITY: 1.110 AT 69 DEG. F PH = 6.05

IRON:	NOT DETERMINED	SULFATE:	2297 PPM
FE2+:	+/- 3 PPM		
SODIUM+POTASS:	52837 PPM	CHLORIDE:	87368 PPM
		SODIUM CHLORIDE (CALC):	144025 PPM
CALCIUM:	3319 PPM	BICARBONATE:	385 PPM
MAGNESIUM:	635 PPM	TOT. HARDNESS AS CACO3:	10911 PPM
PHOSPHATE:	NOT DETERMINED	TOT. DISSOLVED SOLIDS:	153797 PPM

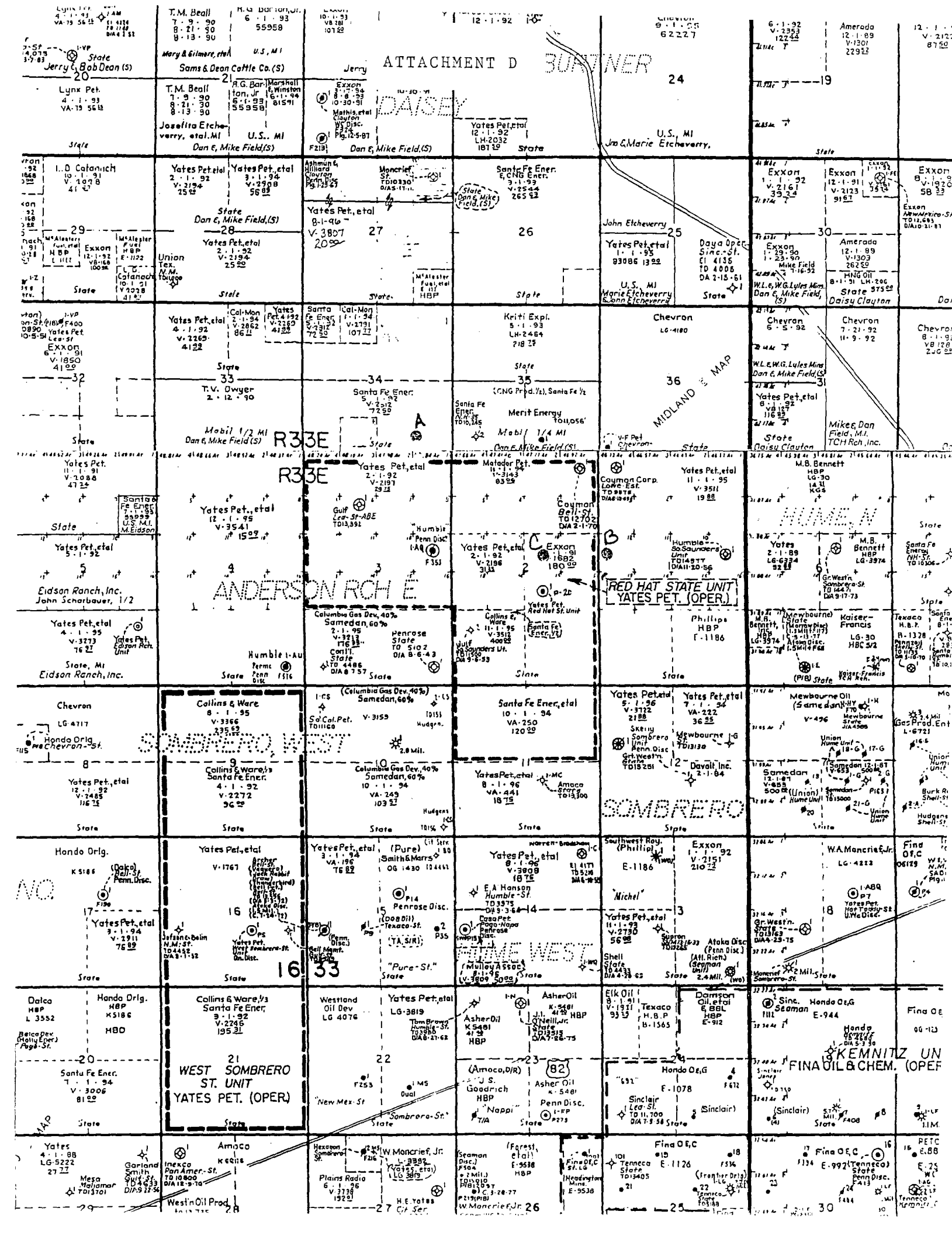
RESISTIVITY (CALCULATED): 0.054 OHM/METER @ 75 DEGREES F.

REMARKS: NO KCL IN SAMPLE.
OIL GRAV. IS 26.8 API CORRECTED TO 60*F.

STIFF TYPE PLOT (IN MEQ/L)



ANALYST Shepherd
SHEPHERD


ATTACHMENT D
DAISEY
SOMBRERO WEST
SOMBRERO
PRIME WEST
RED HAT STATE UNIT
YATES PET. (OPER.)
WEST SOMBRERO ST. UNIT
YATES PET. (OPER)
KEMNITZ UN
FINA OIL & CHEM. (OPER
ANDERSON RCH E
MIDLAND MAP
R33E
R33E
A
B
C
Jerry & Bob Dean (S)
Sams & Dean Cattle Co. (S)
Josefita Etcheverry, etal.MI
U.S., MI
Jno & Marie Etcheverry,
Dan E, Mike Field,(S)
State
Eidson Ranch, Inc.
John Scharbauer, 1/2
Mobil 1/2 MI
Mobil 1/4 MI
Merit Energy
Kriti Expl.
Chevron
Mike E, Dan Field, M.I.
TCH Rch, Inc.
Daisy Clayton
Cayman Bell-St
Humble
Penn Disc.
Gulf
Texaco
Phillips
HBP
Kaiser-Francis
Mewbourne Oil
Davalt Inc.
Amoco
Penrose
Penrose Disc.
Hudgens
Hondo Orig.
Chevron-St.
Collins & Ware
Santa Fe Ener.
Columbia Gas Dev. 40%
Samedan, 60%
Yates Pet.etal
Yates Pet.,etal
Santa Fe Ener, etal
Mewbourne (Same dual)
Union
Hume Unit
Gr. Western
Sombrero-St.
Southwest Roy. (Phillips)
Michel
Shell
Sinclair
Tenneco
Fina O,E,C
Frontier Drlg.
Seaman
Hondo O,E,G
Sinc. Seaman
Westland Oil Dev
Asher Oil
Penn Disc.
Amoco
Inexco
Pan Amer.-St.
Plains Radio
W. Moncrief, Jr.
Yates
Mesa Mallamar
Garland Smith
Gulf-St.
West'n Oil Prod.
Lynx Pet.
I.D Catanach
McAlester Fuel, etal
Exxon
Union Tex. N.M.
Ashmun & Hilliard Clayton
Moncrief-St.
Daya Oper. Sinc.-St.
Cal-Mon
Yates Pet. 4-1-92
Cayman Corp.
Matador Pet.
M.B. Bennett
Yates
Texaco
Hondo Orig.
Dalco
Santa Fe Ener.
Collins & Ware, 1/3
Westland Oil Dev
Asher Oil
Elk Oil
Damson Oil, etal
Hondo O,E,G
Sinc. Seaman
Yates
Amoco
Inexco
Pan Amer.-St.
Plains Radio
W. Moncrief, Jr.
Seaman Disc.
Forest, etal
Fina O,E,C
Tenneco
Frontier Drlg.
Fina O,E,C
PETC
Lynx Pet.
4 - 1 - 93
VA-79 56 15
T.M. Beall
7 - 9 - 90
8 - 21 - 90
8 - 13 - 90
Mary & Gilmore, etal
U.S., MI
R.G. Barton, Jr
6 - 1 - 93
55958
Marshall E. Winston
6 - 1 - 94
81591
Josefita Etcheverry, etal.MI
U.S., MI
Dan E, Mike Field,(S)
Exxon
3 - 7 - 94
8 - 6 - 93
10-30-91
Mathis, etal
Clayton
WS Disc.
F-374
Pkg. 12-5-87
F219
Yates Pet.,etal
12 - 1 - 92
LH-2032
187 50
State
Chevron
9 - 1 - 95
62227
Amerada
12 - 1 - 89
V-1301
229 52
Exxon
1 - 1 - 92
V-2161
39 24
Exxon
12 - 1 - 91
V-2123
91 67
Exxon
8 - 1 - 9
V-1920
58 33
Exxon
1 - 29 - 90
1 - 23 - 90
Mike Field
T-16-92
Amerada
12 - 1 - 89
V-1303
262 50
HNG Oil
8 - 1 - 91
LH-206
State
375 00
Daisy Clayton
I.D Catanach
10 - 1 - 91
V-1078
41 67
Yates Pet.etal
2 - 1 - 92
V-2194
25 00
Yates Pet.,etal
3 - 1 - 94
V-2908
56 88
Ashmun & Hilliard Clayton
Perf. 12-25
Pkg. 12-5-87
Moncrief-St.
TD10330
D/AS-11-11-
Santa Fe Ener.
E, CNG Ener.
3 - 1 - 93
V-2544
265 52
Yates Pet., etal
8 - 1 - 96
V-3807
20 00
27
26
John Etcheverry
25
Yates Pet.etal
1 - 1 - 95
83086 13 00
Daya Oper. Sinc.-St.
El 4136
TD 4008
DA 2-15-61
U.S., MI
Marie Etcheverry & John Etcheverry
State
W.L.E, W.G. Lyles Mins.
Dan E, Mike Field, (S)
McAlester Fuel
E-1122
HBP
E-1122
V-168
100 88
L.D. Catanach
10 - 1 - 91
V-2038
41 67
29
28
30
Union Tex. N.M.
Yates Pet.etal
2 - 1 - 92
V-2194
25 00
Yates Pet.etal
4 - 1 - 92
V-2265
41 99
Cal-Mon
2 - 1 - 94
V-2862
86 11
Yates Pet. 4-1-92
V-2265
41 99
Santa Fe Ener.
5 - 1 - 92
V-2312
72 50
Cal-Mon
1 - 1 - 94
V-2791
107 77
Kriti Expl.
5 - 1 - 93
LH-2464
218 75
Chevron
LG-4180
Chevron
6 - 5 - 92
Chevron
7 - 21 - 92
11 - 9 - 92
Chevron
8 - 1 - 9
V-8128
206 00
Exxon
6 - 1 - 91
V-1850
41 00
32
33
34
35
36
31
T.V. Dwyer
2 - 12 - 90
Santa Fe Ener.
5 - 1 - 92
V-2312
72 50
(CNG Prod. 1/2), Santa Fe 1/2
Santa Fe Ener.
V-2312
TD10,345
Merit Energy
TD11,056'
Yates Pet.etal
6 - 1 - 92
V-8127
116 83
Mike E, Dan Field, M.I.
TCH Rch, Inc.
Daisy Clayton
Yates Pet.
11 - 1 - 91
V-2088
47 24
Yates Pet.,etal
12 - 1 - 95
V-3541
15 09
Yates Pet.,etal
2 - 1 - 92
V-2197
72 13
Matador Pet.
11 - 1 - 94
V-3143
83 99
Cayman Corp.
Lease Est.
TD 9878
D/A 6-19-95
Yates Pet.,etal
11 - 1 - 95
V-3511
19 88
M.B. Bennett
HBP
LG-30
14 31
KGS
Santa Fe Ener.
7 - 1 - 95
55939
U.S., MI
M. Eidson
Yates Pet.etal
5 - 1 - 92
Yates
2 - 1 - 89
LG-6334
92 88
M.B. Bennett
HBP
LG-3974
Gr. Western Sombrero-St.
TD 6447
D/A 9-17-73
5
4
3
2
6
1
Yates Pet.etal
4 - 1 - 95
V-3273
76 97
Yates Pet. Canon Rch. Unit
Humble 1-AU
Permc Penn Disk
State, MI
Eidson Ranch, Inc.
Columbia Gas Dev. 40%
Samedan, 60%
2 - 1 - 95
V-3213
116 33
Penrose State
TD 5102
D/A 8-6-43
Con'l State
TD 4486
D/A 8 7 57
Collins & Ware
11 - 1 - 95
V-3512
400 00
Gulf
Ed Saunders Ut.
TD 11,500
D/A 9-8-93
Yates Pet. Red Hat St. Unit
Santa Fe Ener. 1/2
Humble
Sa-Saunders Unit
TD14977
D/A 11-20-96
Phillips
HBP
F-1186
(Mewbourne)
M.B. Bennett, HBP
LG-3974
State
(Mewbourne)
1-1 MI F-177
1-C-S-13-77
Alaska Disc.
1.5 MI F-68
Kaiser-Francis
LG-30
HBC 3/2
(P/B) State
Texaco
H.B.P.
B-1328
Penn 2501
TD 11,153
D/A 5-10-70
Chevron
LG-4717
Hondo Orig.
Chevron-St.
Collins & Ware
8 - 1 - 95
V-3366
235 99
(Columbia Gas Dev. 40%)
Samedan, 60%
Sol. Col. Pet.
TD11150
V-3159
TD153
Hudgen.
2.8 Mil.
Santa Fe Ener, etal
10 - 1 - 94
VA-250
120 00
Yates Pet.etal
6 - 1 - 96
V-3722
21 88
Yates Pet.,etal
7 - 1 - 54
VA-222
36 55
Skelly Sombrero Unit
Penn. Disc
Grt. West'n.
TD15251
Mewbourne J-G St.
TD13130
Davalt Inc.
2 - 1 - 84
Mewbourne Oil
(Same dual)
V-496
Mewbourne State
D/A 4-30-85
Union Hume Unit
18-G
17-G
Samedan 12-1-87
V-653
500 00
(Union)
Hume Unit
TD13500
21-G
Union Hume Unit
Gas Prod. Ent
L-6721
8
9
10
11
12
7
Yates Pet.,etal
12 - 1 - 92
V-2485
116 75
Collins & Ware, 1/3
Santa Fe Ener.
4 - 1 - 92
V-2272
96 00
Columbia Gas Dev. 40%
Samedan, 60%
10 - 1 - 94
VA-249
103 37
Hudgens
TD154
Yates Pet.etal
8 - 1 - 96
VA-441
18 75
I-MC
Amoco
State
TD13,300
SOMBRERO
Hondo Orig.
K-5186
(Dalco)
Bell-St
Penn. Disc.
F-139
NO.
Yates Pet.,etal
3 - 1 - 94
V-2911
76 89
Yates Pet.,etal
V-1767
Brother (Vaquero)
Yates Rabbit (Crow)
Hunter (Ind)
Scott Pet.
Yates Pet.
Yates Pet. West Sombrero-St. Unit
Gm. Disc.
Johnson-Belin
N.M.-St.
TD 4452
D/A 3-1-52
P5
17
16
15
14
13
Yates Pet.,etal
3 - 1 - 94
VA-196
76 82
(Pure)
Smith & Marrs
OG 1430
TD 4463
(Dodo Oil)
Texaco-St.
(TA, S/R)
"Pure-St."
P14
Penrose Disc.
P35
Warren-Brookshire
I-C
El 4171
TD 5216
D/A 6-18-95
E. A Hanson
Humble-St.
TD 3975
D/A 9-3-64
Casa Pet.
Pago-Napa
Petrose
Disc.
Yates Pet.etal
8 - 1 - 96
V-3808
18 75
Mulloy Assoc
V-3809
50 00
Southwest Roy. (Phillips)
E-1186
Exxon
1 - 1 - 92
V-2151
210 72
Michel
Yates Pet.etal
11 - 1 - 95
V-2730
56 88
Sinclair
State
TD 4433
D/A 4-26-62
Superior
Ataka Disc
(Penn Disc.)
(All Rich)
(Seaman Unit)
2.4 Mil.
(wo)
W.A. Moncrief & Jr.
LG-4223
I-A8
P7
Yates Pet.
Hat Trade-St
U.Mc Disc.
Gr. West'n.
State
TD13163
DAA-23-75
Moncrief
Sombrero-St.
2 Mil.
State
Find
O,E,C
05129
W.E.
N.M.
SADL
Pkg.
P4
Dalco
HBP
L-3552
Hondo Orig.
HBP
K-5186
HBO
Belco Dev. (Molly Ener.)
Pogo-St.
20
21
22
23
24
Santa Fe Ener.
7 - 1 - 94
V-3006
81 00
Collins & Ware, 1/3
Santa Fe Ener.
3 - 1 - 92
V-2246
195 31
WEST SOMBRERO ST. UNIT
YATES PET. (OPER)
Westland Oil Dev
LG 4076
Yates Pet.etal
LG-3819
Tom Brown
Humble-St.
TD 3980
D/A 8-21-62
F253
"New Mex-St"
MS
Qual
Sombrero-St.
Asher Oil
K-5481
41 25
HBP
J.J. & Q'Neill, Jr.
State
TD13515
D/A 7-26-75
(Amoco, D/R)
U.S. Goodrich
HBP
"Nappi"
T/A
Asher Oil
K-5481
Penn Disc.
I-FP
P279
82
Elk Oil
8 - 1 - 91
V-1911
93 59
Texaco
H.B.P.
B-1565
Damson Oil, etal
E, B&L
HBP
E-912
Hondo O,E,G
4
F-1078
F612
Sinclair
Leo-St.
TD 11,700
D/A 7-5-56
(Sinclair)
5
Sinc. Seaman
Hondo O,E,G
E-944
Hondo
D/A 5-3-80
KEMNITZ UN
FINA OIL & CHEM. (OPER
(Sinclair)
(4)
8
Fina O,E
06-123
Yates
4 - 1 - 88
LG-5222
27 77
Mesa Mallamar
TD13701
Garland Smith
Gulf-St.
TD 4693
D/A 9-12-56
Amoco
K-6015
Inexco
Pan Amer.-St.
TD 10,800
D/A 12-9-76
West'n Oil Prod.
Hexagon Somerset
Plains Radio
6 - 1 - 96
V-3738
192 00
W. Moncrief, Jr.
L-3382
(Yates, etal)
LG 3819
H.E. Yates
Cit Ser.
(Seaman Disc.)
F-564
E-9538
HBP
(Forest, etal)
E-9538
HBP
Fina O,E,C
St. LG
Headington Mins.
E-9538
Fina O,E,C
Tenneco
State
TD13405
E-1126
F536
(Frontier Drlg.)
Tenneco
F-6388
Fina O,E,C
E-992
(Tenneco)
State
Penn Disc.
F-413
PETC
E-88
E-25
29
28
27
26
25
30

ATTACHMENT D
Well A

TRETOLITE
Chemicals and Services

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : WINDMILL
Well : NORTHWEST
Sample Pt. : PUMP

Date : 12/09/91
Date Sampled : 12/08/91
Analysis No. : 001

	ANALYSIS		mg/L		* meq/L
1.	pH	7.5			
2.	H2S	0			
3.	Specific Gravity	1.000			
4.	Total Dissolved Solids		572.4		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2		20 PPM		
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	219.0	HCO3	3.6
12.	Chloride	Cl	85.0	Cl	2.4
13.	Sulfate	SO4	100.0	SO4	2.1
14.	Calcium	Ca	80.0	Ca	4.0
15.	Magnesium	Mg	34.1	Mg	2.8
16.	Sodium (calculated)	Na	29.3	Na	1.3
17.	Iron	Fe	0.0		
18.	Barium	Ba	25.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		340.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

4	*Ca <----- *HCO3	4
	/------->	
3	*Mg -----> *SO4	2
	<----------/	
1	*Na -----> *Cl	2

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	3.6	291
CaSO4	68.1	0.4	27
CaCl2	55.5		
Mg(HCO3)2	73.2		
MgSO4	60.2	1.7	101
MgCl2	47.6	1.1	53
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	1.3	75

REMARKS:
L. MALLETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

ATTACHMENT D
Well B

TRETOLITE®
Chemicals and Services

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

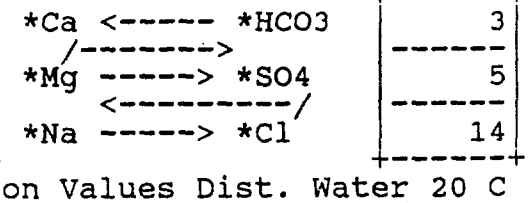
Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : WINDMILL
Well : NORTHEAST
Sample Pt. : WELLHEAD

Date : 12/13/91
Date Sampled : 12/13/91
Analysis No. : 002

	ANALYSIS		mg/L		* meq/L
1.	pH	7.8			
2.	H2S	0			
3.	Specific Gravity	1.000			
4.	Total Dissolved Solids		1458.7		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2				
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	171.0	HCO3	2.8
12.	Chloride	Cl	511.0	Cl	14.4
13.	Sulfate	SO4	250.0	SO4	5.2
14.	Calcium	Ca	64.0	Ca	3.2
15.	Magnesium	Mg	4.9	Mg	0.4
16.	Sodium (calculated)	Na	432.8	Na	18.8
17.	Iron	Fe	0.0		
18.	Barium	Ba	25.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		180.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter



Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	2.8	227
CaSO4	68.1	0.4	27
CaCl2	55.5		
Mg(HCO3)2	73.2		
MgSO4	60.2	0.4	24
MgCl2	47.6		
NaHCO3	84.0		
Na2SO4	71.0	4.4	313
NaCl	58.4	14.4	842

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

REMARKS:
L. MALLETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

PETROLITE

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 12/13/91
Address	: ARTESIA, NM	Date Sampled	: 12/13/91
Lease	: WINDMILL	Analysis No.	: 002
Well	: NORTHEAST	Analyst	: STEVE TIGERT
Sample Pt.	: WELLHEAD		

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

S.I. =	0.2	at	80 deg. F or	27	deg. C
S.I. =	0.3	at	100 deg. F or	38	deg. C
S.I. =	0.4	at	120 deg. F or	49	deg. C
S.I. =	0.5	at	140 deg. F or	60	deg. C
S.I. =	0.5	at	160 deg. F or	71	deg. C

****

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

S =	1217	at	80 deg. F or	27	deg C
S =	1207	at	100 deg. F or	38	deg C
S =	1198	at	120 deg. F or	49	deg C
S =	1189	at	140 deg. F or	60	deg C
S =	1136	at	160 deg. F or	71	deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

ATTACHMENT D
Well C

TRETOLITE®
Chemicals and Services

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Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : WINDMILL (NORTH)
Well : NORTH
Sample Pt. : WELLHEAD

Date : 12/13/91
Date Sampled : 12/13/91
Analysis No. : 001

	ANALYSIS		mg/L		* meq/L
1.	pH	7.5			
2.	H2S	0			
3.	Specific Gravity	1.000			
4.	Total Dissolved Solids		587.2		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2				
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	158.0	HCO3	2.6
12.	Chloride	Cl	107.0	Cl	3.0
13.	Sulfate	SO4	125.0	SO4	2.6
14.	Calcium	Ca	68.0	Ca	3.4
15.	Magnesium	Mg	7.3	Mg	0.6
16.	Sodium (calculated)	Na	96.9	Na	4.2
17.	Iron	Fe	0.0		
18.	Barium	Ba	25.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		200.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

3	*Ca <----- *HCO3	3
	/------->	
1	*Mg -----> *SO4	3
	<----------/	
4	*Na -----> *Cl	3

Saturation Values Dist. Water 20 C

CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	2.6	210
CaSO4	68.1	0.8	55
CaCl2	55.5		
Mg(HCO3)2	73.2		
MgSO4	60.2	0.6	36
MgCl2	47.6		
NaHCO3	84.0		
Na2SO4	71.0	1.2	85
NaCl	58.4	3.0	176

REMARKS:
L. MALLETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

Case 10463

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Yates Petroleum Corporation

Address: 105 S. 4th Street, Artesia, NM 88210

Contact party: Jim Brown Phone: (505) 748-1471

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 [X] 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: Jim Brown Title: Operations Engineering Supervisor

Signature: Jim Brown Date: February 5, 1992

* 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 applicati 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 we

(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.

C-108
Application For Authorization To Inject
Yates Petroleum Corporation
Red Hat SWD #1
O 2-16S-33E
Lea County, New Mexico

I. The purpose of completing this well is to make a disposal well for produced San Andres water into the San Andres and Glorieta.

II. Operator: Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
Jim Brown (505) 748-1471

III. Well Data: See Attachment A

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

V. See attached map, Attachment B

VI. No wells within the area of review penetrate the proposed injection zone.

VII. 1. Proposed average daily injection volume approximately 4000 BWPD.
Maximum daily injection volume approximately 10,000 BWPD.

2. This will be a closed system.

3. Proposed average injection pressure-900 psi
Proposed maximum injection pressure--1150 psi.

4. Sources of injected water would be produced water from the San Andres formation from nearby wells. (See Attachment C)

5. See Attachment C.

VIII. 1. The proposed injection interval is the San Andres and Glorieta formations from 5805'-5818' and 5900'-5920'.

2. Ogallala zones overlie the proposed injection formations at depths to approximately 300' feet.

IX. The proposed disposal intervals will be acidized with 2,000 gallons of 15 HCL.

X. Well logs have been filed with the Division.

XI. 3 water wells exists within a one mile radius of the subject location. (Attachment D) Water analyses are attached.

XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.

XIII. Proof of Notice

A. Certified letters sent to the surface owner and offset operators-attached. (Attachment E)

B. Copy of legal advertisement attached. (Attachment F)

XIV. Certification is signed.

5. Next higher (shallower) oil or gas zone within the area of review--None
Next lower (deeper) oil or gas zone within the area of review--Wolfcamp 9849'.

ATTACHMENT A

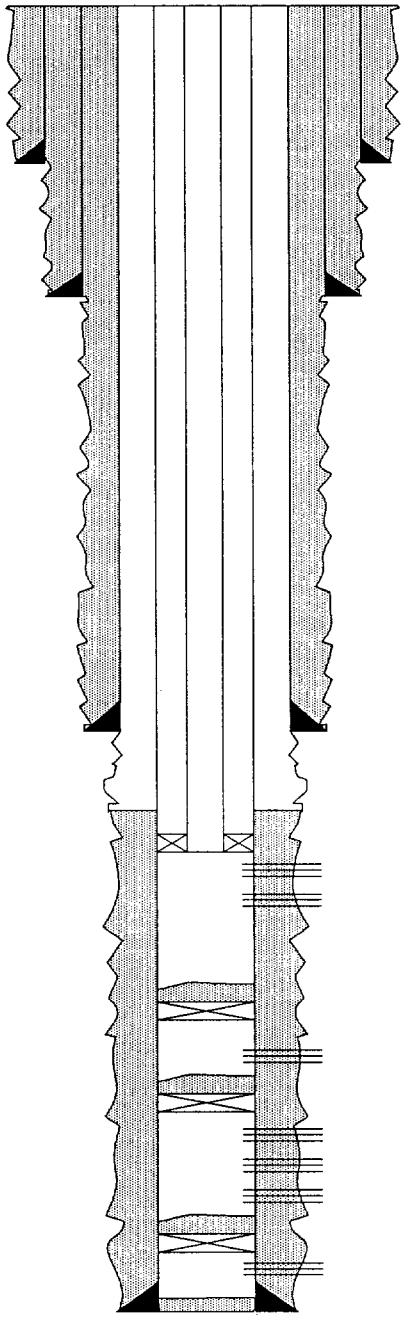
PROPOSED SWD WELLBORE SCHEMATIC

YATES PETROLEUM CORPORATION

RED HAT SWD #1

SEC. 2-T16S-R33E

LEA COUNTY, NEW MEXICO



26" HOLE

20" @ 40'
W/3-1/2 YARDS (CIRC)

17-3/4" HOLE

13-3/8" 54.5# @ 409'
W/425 SX (CIRC)

RUSTLER 1501'

SALADO 1608'

12-1/4" HOLE

YATES 2742'

QUEEN 3580'

SAN ANDRES 4417'

8-5/8" @ 4515'
W/2100 SX (CIRC)

TOC ABOVE 5200'

PERFS 5808-5818'
PROPOSED PERFS 5900-5920'

GLORIETA 5896'
TUBB 7166'
ABO 7804'
ABO SHALE 7902
WOLFCAMP 9501'

PENN 10123

7-7/8" HOLE

CIBP + 35' CEMENT @ 9800'
PERFS 9849-9870'
CIBP + 35' CEMENT @ 10375'
PERFS 10415-10470'
PERFS 10756-10778'
PERFS 11052-11106'
CIBP + 35' CEMENT @ 12560'
PERFS 12604-12628'

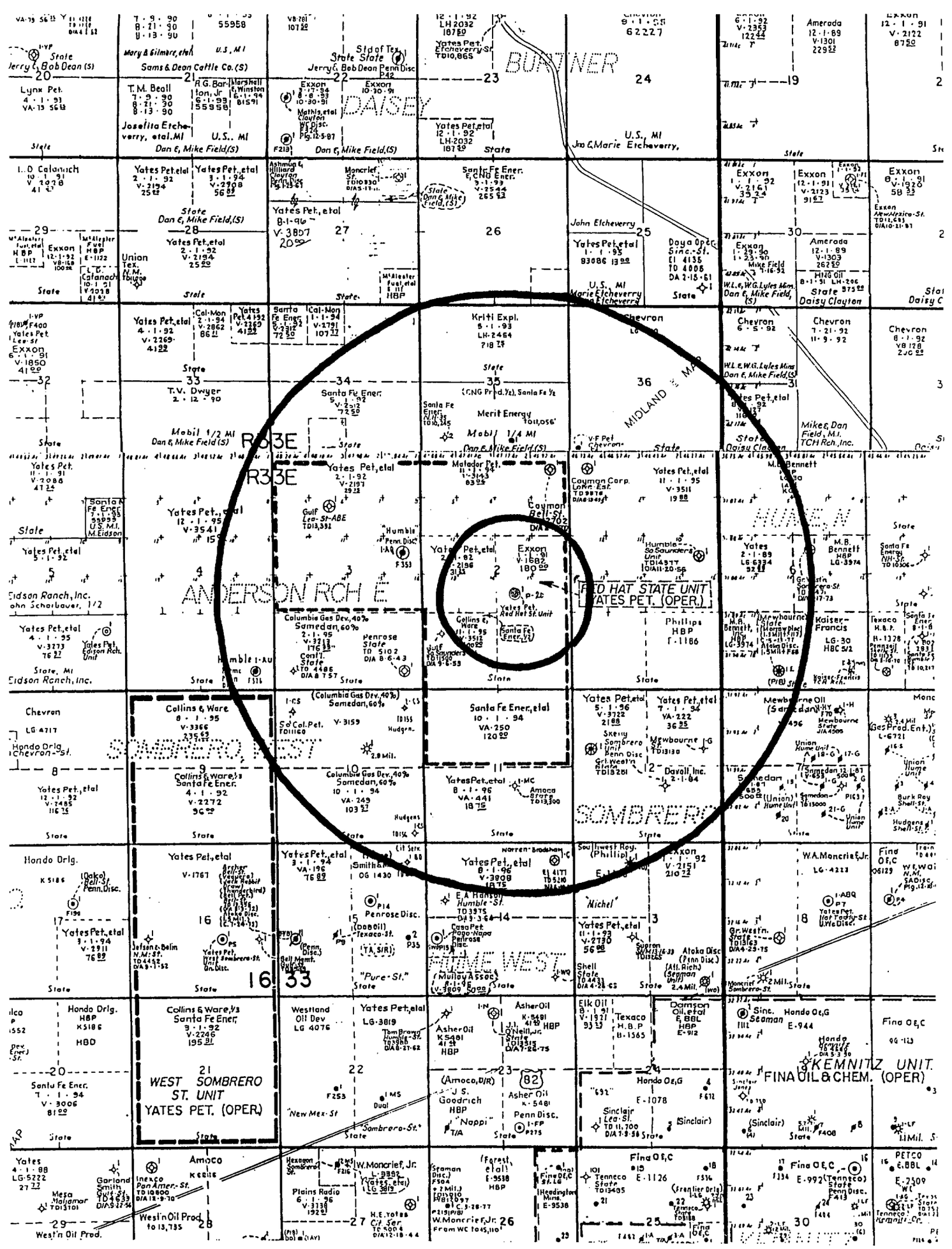
PBTD 12750'

5-1/2" @ 13250'
W/2650 SX

TD 13250'

WILL COMPLETE FOR SALT-WATER DISPOSAL WITH 2-7/8" 6.5# J-55 PLASTIC-COATED TUBING AND GUIBERSON UNI VI OR BAKER PLASTIC-COATED OR NICKEL-PLATED PACKER @ 5700'.

PROPOSE TO INJECT CANYON PRODUCED WATERS INTO THE SAN ANDRES AND GLORIETA FORMATIONS FROM APPROXIMATELY 5808-5818' AND 5900-5920'.



YATES PETROLEUM CORPORATION

RED HAT SWD #1

PROPOSED SALT WATER DISPOSAL

SEC. 2-16S-33E

3300'FSL & 1980'FEL

LEA COUNTY, NEW MEXICO

ATTACHMENT B

ATTACHMENT C

THE WESTERN COMPANY OF NORTH AMERICA
WATER ANALYSIS

ANALYSIS NO: 920203C

GENERAL INFORMATION

OPERATOR:	YATES PET.		
WELL:	EIDSON RANCH UNIT#1	DEPTH:	+/-5700'
FIELD:	EIDSON RANCH UNIT	DATE SAMPLED:	2-3-92
FORMATION:	SAN ANDRES	DATE RECEIVED:	2-3-92
COUNTY:	EDDY	SUBMITTED BY:	RAY STALL
STATE:	NM	WORKED BY:	SHEPHERD
		PHONE:	505-392-5556

SAMPLE DESCR: POST TREATMENT ANALYSIS.

PHYSICAL AND CHEMICAL DETERMINATIONS

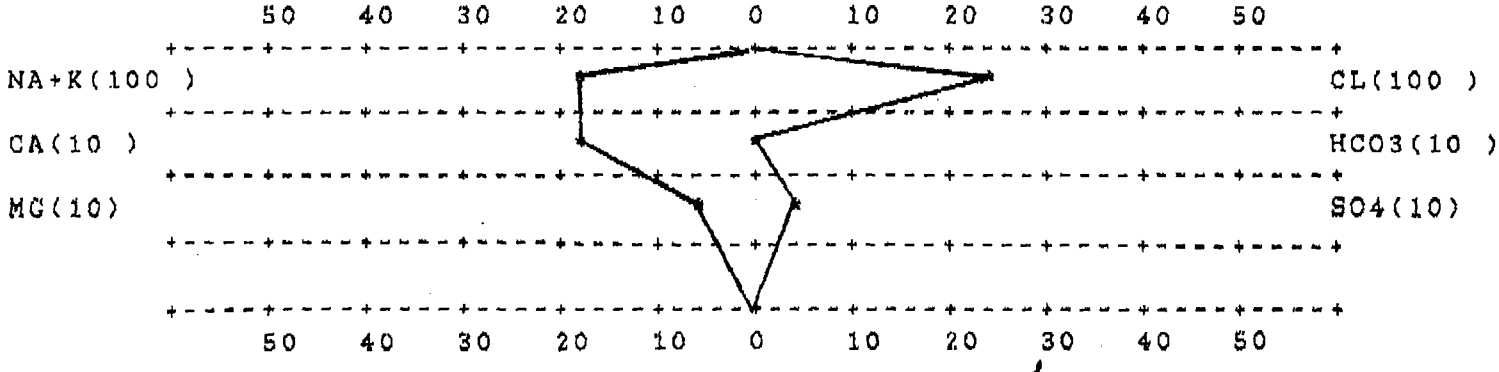
SPECIFIC GRAVITY: 1.110 AT 69 DEG. F PH = 6.05

IRON:	NOT DETERMINED		SULFATE:	2297	PPM
FE2+:	+/- 3 PPM				
SODIUM+POTASS:	52837	PPM	CHLORIDE:	87368	PPM
			SODIUM CHLORIDE (CALC):	144025	PPM
CALCIUM:	3319	PPM	BICARBONATE:	385	PPM
MAGNESIUM:	635	PPM	TOT. HARDNESS AS CACO3:	10911	PPM
PHOSPHATE:	NOT DETERMINED		TOT. DISSOLVED SOLIDS:	153797	PPM

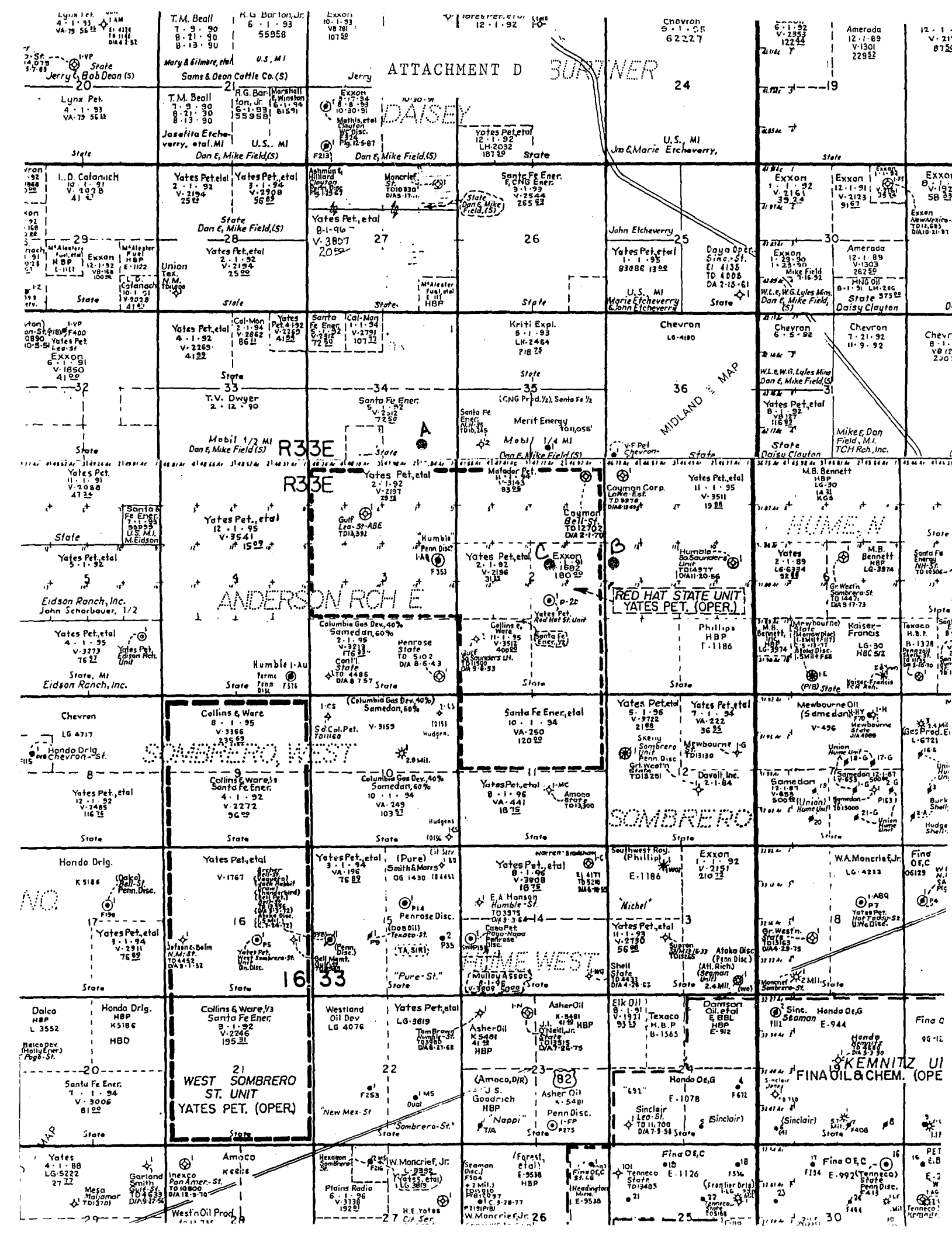
RESISTIVITY (CALCULATED): 0.054 OHM/METER @ 75 DEGREES F.

REMARKS: NO KCL IN SAMPLE.
OIL GRAV. IS 26.8 API CORRECTED TO 60*F.

STIFF TYPE PLOT (IN MEQ/L)



ANALYST Shepherd
SHEPHERD


ATTACHMENT D
BUSTNER
DAISEY
MIDLAND MAP
R33E
ANDERSON RANCH
RED HAT STATE UNIT
YATES PET. (OPER.)
SOMBRERO WEST
SOMBRERO
PRIME WEST
PRIME N
WEST SOMBRERO ST. UNIT
YATES PET. (OPER)
KEMNITZ UI
FINA OIL & CHEM. (OPE
Lynx Pet. 4-1-93 VA-79 56 35
T.M. Beall 7-9-90 8-21-90 8-13-90
R.G. Barton, Jr. 6-1-93 55958
Mary & Gilmore, etal
Sams & Dean Cattle Co. (S)
U.S., MI
Jerry & Bob Dean (S)
Josefita Etcheverry, etal. MI
Dan E. Mike Field (S)
Exxon 10-1-93 VB 281 107 50
Mathis, etal Clayton W.F. Disc. E-2324 Pg. 12-5-87
F213
Yates Pet. etal 12-1-92 LH-2032 187 50
Chevron 9-1-95 62227
Jno & Marie Etcheverry,
Amerada 12-1-89 V-1301 229 52
Exxon 7-1-92 V-2161 39 24
Exxon 12-1-91 V-2123 91 67
Exxon 1-1-92 V-2953 122 44
I.D. Catanach 10-1-91 V-2028 41
Yates Pet. etal 2-1-92 V-2194 25 52
Yates Pet. etal 3-1-94 V-2908 56 89
Union Tex. N.M. Pipeline
Ashmun & Millard Clayton W.F. Disc. Pg. 12-5-87
Moncrief St. TD 10 830 DIA 5-17-...
Yates Pet. etal 8-1-96 V-3807 20 89
Santa Fe Ener. & CNG Ener. 5-1-93 V-2544 265 62
(State Dan E. Mike Field (S))
John Etcheverry
Yates Pet. etal 1-1-95 83086 13 92
U.S., MI Marie Etcheverry & John Etcheverry
Daya Oper. Sinc.-St. El 4135 TD 4008 DA 2-15-61
Exxon 1-29-90 1-23-90 Mike Field
HNG Oil 8-1-91 LH-206
W.L.E. & W.G. Lyles Mins. Dan E. Mike Field (S)
State 575 00 Daisy Clayton
Exxon New Mexico TD 13,685 DIA 10-21-81
McAlester Fuel, etal HBP E-1111
McAlester Fuel HBP E-1122
L.D. Catanach 10-1-91 V-2028 41
Yates Pet. etal 4-1-92 V-2269 41 92
Cal-Mon 2-1-94 V-2862 86 11
Yates Pet. 4-1-92 V-2260 41 24
Santa Fe Ener. 5-1-92 V-2312 72 50
Cal-Mon 1-1-94 V-2791 107 72
Kriti Expl. 5-1-93 LH-2464 218 25
Chevron LG-4180
Chevron 6-5-92
Chevron 7-21-92 11-9-92
W.L.E. & W.G. Lyles Mins. Dan E. Mike Field (S)
Yates Pet. etal 8-1-92 V-2127 116 65
State Daisy Clayton
Mike E. Dan Field, MI. TCH Rch., Inc.
T.V. Dwyer 2-12-90
Santa Fe Ener. 5-1-92 V-2312 72 50
Merit Energy 10 11,056'
Mobil 1/2 MI Dan E. Mike Field (S)
Mobil 1/4 MI Dan E. Mike Field (S)
V-F Pet Chevron-
Yates Pet. 11-1-91 V-2088 47 24
Santa Fe Ener. 7-1-95 56993 U.S. MI M. Eidson
Yates Pet. etal 12-1-95 V-3541 15 09
Eidson Ranch, Inc. John Scharbauer, 1/2
Yates Pet. etal 5-1-92
Yates Pet. etal 2-1-92 V-2197 29 28
Gulf Lea-St-ABE TD 13,392
Humble Penn Disc. F 353
Matador Pet. 11-1-94 V-3143 83 52
Cayman Bell-St. TD 12702 DIA 2-1-79
Cayman Corp. Lake-Est. TD 9978 DIA 8-19-69
Yates Pet. etal 11-1-95 V-3511 19 88
M.B. Bennett HBP LG-30 14 31 KG 6
Yates Pet. etal 4-1-95 V-3273 76 97
Yates Pet. Edison Ranch Unit
State, MI Eidson Ranch, Inc.
Humble Permc Penn F376
Columbia Gas Dev. 40% Samedan 60% 2-1-95 V-3213 Con'l State TD 4486 DIA 8-7-57
Penrose State TD 5102 DIA 8-6-43
Exxon L-91 1682 180 00
Yates Pet. Red Hat St. Unit
Collins & Ware 11-1-95 V-3512 400 00
Gulf Vs Saunders LH. TD 13,560 DIA 9-6-93
Santa Fe Ener. 1/2
Humble Sa Saunders Unit TD 14977 DIA 11-20-56
Phillips HBP F-1186
Yates 2-1-89 LG-6334 52 68
M.B. Bennett HBP LG-3974
Gr. West'n Sombrero St TD 14471 DIA 9-17-73
Kaiser-Francis LG-30 HBC 5/2
Texaco H.B.P.
Chevron LG-4717
Hondo Drlg. Pre Chevron-St.
Collins & Ware 8-1-95 V-3366 235 63
(Columbia Gas Dev. 40%) Samedan 60% 1-CS
So. Col. Pet. Tolleco V-3159 10151 Hudgens
2.0 Mil.
Santa Fe Ener., etal 10-1-94 VA-250 120 00
Yates Pet. etal 5-1-96 V-3722 218 88
Yates Pet. etal 7-1-94 VA-222 36 95
Skelly Sombrero Unit Penn. Disc Grt. West'n State TD 13251
Mewbourne 1-G TD 13811
Davoll, Inc. 2-1-84
Mewbourne Oil (Samedan) 1-H 1-HY F70 V-496 Mewbourne State J/A 4568
Union Home Unit 18-G 17-G
Samedan 12-1-87 V-653 500 00 1-G 2-G
Samedan (Union) TD 13000 P163 21-G 20
Union Home Unit
Yates Pet. etal 9-1-92 V-2485 116 75
Collins & Ware, 1/3 Santa Fe Ener. 4-1-92 V-2272 96 09
Columbia Gas Dev. 40% Samedart, 60% 10-1-94 VA-249 103 97
Hudgens 10156
Yates Pet. etal 8-1-96 VA-441 18 75
1-MC Amoco State TD 13,300
Hondo Drlg.
Yates Pet. etal V-1767
(Dalco) Bell-St. Penn. Disc. K 5186 F196
Yates Pet. etal 3-1-94 V-2911 76 89
Jetsam & Belin N.M.-St. TD 4452 DIA 9-1-52
Yates Pet. West Sombrero St. Penn. Disc.
Yates Pet. etal 3-1-94 VA-196 76 89
(Pure) Smith & Marrs OG 1430
Penrose Disc. P14
(Doe Oil) Texaco-St. P9 2 P35
(Penn. Disc.) Bell Mamt. Unit TD 13,339
"Pure-St."
Warren-Bradshaw 1-C
Yates Pet. etal 8-1-96 V-3908 18 75
E.A. Hanson Humble-St. TD 3375
Casa Pet. Pogo-Nopa Penrose Disc.
Southwest Roy. (Phillip) E-1186
Exxon 1-1-92 V-2151 210 72
Yates Pet. etal 11-1-93 V-2750 56 98
Shell State TD 4433 DIA 4-25-65
Sinclair Oil & Gas Co. Sec. 16 Block 33 Twp. 1 S, T&P RR Co. Survey
W.A. Moncrief, Jr. LG-4283
Gr. West'n State TD 15163 DIA 4-29-75
Yates Pet. Hot Tamale-St U.W.C. Disc.
Monnet Sombrero St.
Dalco HBP L 3552
Hondo Drlg. HBP K 5186
HBD
Belco Dev. (Holly Ener.) Pogo-St.
Collins & Ware, 1/3 Santa Fe Ener. 8-1-92 V-2246 195 31
Westland Oil Dev. LG 4076
Yates Pet. etal LG-3619
Tom Brown Humble-St. TD 3965 DIA 8-21-62
Asher Oil 1-N K 5481 41 92 HBP
Asher Oil K 5481 HBP
O'Neill, Jr. J.J. State TD 12315 DIA 7-26-75
Elk Oil 8-1-91 V-1971 93 75
Texaco H.B.P. B-1565
Damson Oil, etal E, BBL HBP E-912
Sinc. Hondo Oil & G Seaman E-944
Hondo Drlg. HBP K 5186 HBD
Santa Fe Ener. 7-1-94 V-3006 81 00
Amoco Keelie
Inexco Pan Amer.-St. TD 10800 DIA 12-9-70
Garland Smith Quiz-St. TD 4633 DIA 9-27-54
Mesa Malamar TD 13701
Hexagon Sombrero St. F216
W. Moncrief, Jr. L-3392 (Yates, etal) LG 3619
Plains Radio 6-1-96 V-3136 192 00
H.E. Yates
Forest, etal E-9538 HBP
Fina Oil & Chem. Co. Sec. 26 Block 33 Twp. 1 S, T&P RR Co. Survey
Headington Mins. E-9538
Fina O&C 101 Tenneco State TD 13485
Fina O&C E-1126
(Frontier Drlg.) State TD 5188
Fina O&C E-992 (Tenneco) State Penn Disc. F 413
Fina O&C F 134
Fina O&C F 486
Yates 4-1-88 LG-5222 27 77
Westn Oil Prod.
Sec. 29 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 28 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 27 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 26 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 25 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 30 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 29 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 28 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 27 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 26 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 25 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 30 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 32 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 33 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 34 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 35 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 36 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 31 Block 34 Twp. 1 S, T&P RR Co. Survey
Sec. 32 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 33 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 34 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 35 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 36 Block 33 Twp. 1 S, T&P RR Co. Survey
Sec. 31 Block 33 Twp. 1 S, T&P RR Co. Survey

ATTACHMENT D
Well A

TRETOLITE
Chemicals and Services

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : WINDMILL
Well : NORTHWEST
Sample Pt. : PUMP

Date : 12/09/91
Date Sampled : 12/08/91
Analysis No. : 001

	ANALYSIS		mg/L		* meq/L
1.	pH	7.5			
2.	H2S	0			
3.	Specific Gravity	1.000			
4.	Total Dissolved Solids		572.4		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2		20 PPM		
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	219.0	HCO3	3.6
12.	Chloride	Cl	85.0	Cl	2.4
13.	Sulfate	SO4	100.0	SO4	2.1
14.	Calcium	Ca	80.0	Ca	4.0
15.	Magnesium	Mg	34.1	Mg	2.8
16.	Sodium (calculated)	Na	29.3	Na	1.3
17.	Iron	Fe	0.0		
18.	Barium	Ba	25.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		340.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

4	*Ca <----- *HCO3	4
	/------->	
3	*Mg -----> *SO4	2
	<----------/	
1	*Na -----> *Cl	2

Saturation Values Dist. Water 20 C
CaCO3 13 mg/L
CaSO4 * 2H2O 2090 mg/L
BaSO4 2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	3.6	291
CaSO4	68.1	0.4	27
CaCl2	55.5		
Mg(HCO3)2	73.2		
MgSO4	60.2	1.7	101
MgCl2	47.6	1.1	53
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	1.3	75

REMARKS:
L. MALLETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

ATTACHMENT D
Well B

TRETOLITE®
Chemicals and Services

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : WINDMILL
Well : NORTHEAST
Sample Pt. : WELLHEAD

Date : 12/13/91
Date Sampled : 12/13/91
Analysis No. : 002

	ANALYSIS		mg/L		* meq/L
1.	pH	7.8			
2.	H2S	0			
3.	Specific Gravity	1.000			
4.	Total Dissolved Solids		1458.7		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2				
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	171.0	HCO3	2.8
12.	Chloride	Cl	511.0	Cl	14.4
13.	Sulfate	SO4	250.0	SO4	5.2
14.	Calcium	Ca	64.0	Ca	3.2
15.	Magnesium	Mg	4.9	Mg	0.4
16.	Sodium (calculated)	Na	432.8	Na	18.8
17.	Iron	Fe	0.0		
18.	Barium	Ba	25.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		180.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

3	*Ca <----- *HCO3	3
	/------->	
0	*Mg -----> *SO4	5
	<----------/	
19	*Na -----> *Cl	14

Saturation Values Dist. Water 20 C

CaCO3	13	mg/L
CaSO4 * 2H2O	2090	mg/L
BaSO4	2.4	mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	2.8	227
CaSO4	68.1	0.4	27
CaCl2	55.5		
Mg(HCO3)2	73.2		
MgSO4	60.2	0.4	24
MgCl2	47.6		
NaHCO3	84.0		
Na2SO4	71.0	4.4	313
NaCl	58.4	14.4	842

REMARKS:
L. MALLETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

PETROLITE

SCALE TENDENCY REPORT

Company	: YATES PETROLEUM	Date	: 12/13/91
Address	: ARTESIA, NM	Date Sampled	: 12/13/91
Lease	: WINDMILL	Analysis No.	: 002
Well	: NORTHEAST	Analyst	: STEVE TIGERT
Sample Pt.	: WELLHEAD		

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

S.I. =	0.2	at	80 deg. F or	27	deg. C
S.I. =	0.3	at	100 deg. F or	38	deg. C
S.I. =	0.4	at	120 deg. F or	49	deg. C
S.I. =	0.5	at	140 deg. F or	60	deg. C
S.I. =	0.5	at	160 deg. F or	71	deg. C

****

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

S =	1217	at	80 deg. F or	27	deg C
S =	1207	at	100 deg. F or	38	deg C
S =	1198	at	120 deg. F or	49	deg C
S =	1189	at	140 deg. F or	60	deg C
S =	1136	at	160 deg. F or	71	deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

ATTACHMENT D
Well C

TRETOLITE®
Chemicals and Services

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737

Reply to: P.O. Box FF
Artesia, New Mexico 88210
(505) 746-3588 Phone
(505) 746-3580 Fax

WATER ANALYSIS REPORT

Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : WINDMILL (NORTH)
Well : NORTH
Sample Pt. : WELLHEAD

Date : 12/13/91
Date Sampled : 12/13/91
Analysis No. : 001

	ANALYSIS		mg/L		* meq/L
1.	pH	7.5			
2.	H2S	0			
3.	Specific Gravity	1.000			
4.	Total Dissolved Solids		587.2		
5.	Suspended Solids				
6.	Dissolved Oxygen				
7.	Dissolved CO2				
8.	Oil In Water				
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	158.0	HCO3	2.6
12.	Chloride	Cl	107.0	Cl	3.0
13.	Sulfate	SO4	125.0	SO4	2.6
14.	Calcium	Ca	68.0	Ca	3.4
15.	Magnesium	Mg	7.3	Mg	0.6
16.	Sodium (calculated)	Na	96.9	Na	4.2
17.	Iron	Fe	0.0		
18.	Barium	Ba	25.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		200.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

3	*Ca <----- *HCO3	3
	/------->	
1	*Mg -----> *SO4	3
	<---------/	
4	*Na -----> *Cl	3

Saturation Values Dist. Water 20 C

CaCO3	13	mg/L
CaSO4 * 2H2O	2090	mg/L
BaSO4	2.4	mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	2.6	210
CaSO4	68.1	0.8	55
CaCl2	55.5		
Mg(HCO3)2	73.2		
MgSO4	60.2	0.6	36
MgCl2	47.6		
NaHCO3	84.0		
Na2SO4	71.0	1.2	85
NaCl	58.4	3.0	176

REMARKS:
L. MALLETT / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

ATTACHMENT E

YATES PETROLEUM CORPORATION

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

February 5, 1992

CERTIFIED RETURN RECEIPT

10463

State of New Mexico
OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, NM 87501

Dear Sir,

Enclosed please find our application for authorization to inject for the Red Hat SWD #1 located in Section 2-16S-33E of Lea County.

If you have any questions, you may contact me at (505) 748-1471 Ext. 167. Thank you.

Sincerely,

Jim Brown

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosures

YATES PETROLEUM CORPORATION

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

February 5, 1992

CERTIFIED RETURN RECEIPT

10463

Plains Radio Petroleum Company
P. O. Box 9354
Amarillo, TX 79105

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Red Hat SWD #1 located in Unit O of Section 2-16S-33E , Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

YATES PETROLEUM CORPORATION

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

February 5, 1992

CERTIFIED RETURN RECEIPT

10463

Matador Petroleum Corporation
8340 Meadow Road
St. 158, Pecan Creek
Dallas, TX 75231

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Red Hat SWD #1 located in Unit O of Section 2-16S-33E , Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

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

YATES PETROLEUM CORPORATION

105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
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

February 5, 1992

CERTIFIED RETURN RECEIPT

102463

Exxon Corporation
P. O. Box 1600
Midland, TX 79702

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Red Hat SWD #1 located in Unit O of Section 2-16S-33E , Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

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1912 - 1985
FRANK W. YATES
1936 - 1986

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ARTESIA, NEW MEXICO 88210
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EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

February 5, 1992

CERTIFIED RETURN RECEIPT

10463

Santa Fe Energy Resources, Inc.
550 W. Texas, St. 1330
Midland, TX 79701

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Red Hat SWD #1 located in Unit O of Section 2-16S-33E , Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

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

YATES PETROLEUM CORPORATION

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

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PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

February 5, 1992

CERTIFIED RETURN RECEIPT

10463

Collins & Ware, Inc.
303 W. Wall Ave., St. 2200
Midland, TX 79701

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Red Hat SWD #1 located in Unit O of Section 2-16S-33E , Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

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

YATES PETROLEUM CORPORATION

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

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JOHN A. YATES
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EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

February 5, 1992

CERTIFIED RETURN RECEIPT

10463

Dan Field
P. O. Box 1105
Lovington, NM 88260

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Red Hat SWD #1 located in Unit O of Section 2-16S-33E , Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

YATES PETROLEUM CORPORATION

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

February 5, 1992

CERTIFIED RETURN RECEIPT

104163

Charles R. Martin, Inc.
P. O. Box 706
Artesia, NM 88210

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Red Hat SWD #1 located in Unit O of Section 2-16S-33E , Lea County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Jim Brown

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

YATES PETROLEUM CORPORATION

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

February 5, 1992

Hobbs News Sun
503 W. Main
Hobbs, NM 88240

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 Friday, February 14, 1992 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: Jim Brown

If you have any questions, please contact me at 748-1471, Ext. 167. Thank you for your cooperation in this matter.

Sincerely,

Jim Brown

Jim Brown
Operations Engineering Supervisor

JB/th

Enclosure

Attachment F

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 "Red Hat SWD #1" located 3300' FSL & 1980' FEL of Section 2, Township 16 South, Range 33 East of Lea County, New Mexico, will be used for saltwater disposal. Disposal waters from the Wolfcamp will be re-injected into the Delaware formation at a depth of 5746'-5870' feet with a maximum pressure of 1100 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, P. O. Box 2088, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting Jim Brown at (505) 748-1471.

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of

One weeks.
Beginning with the issue dated

Feb. 14, 19 92
and ending with the issue dated

Feb. 14, 19 92

Kathi Bearden
General Manager

Sworn and subscribed to before

me this 18 day of

February, 1992

Paula Pennington
Notary Public.

My Commission expires

Aug. 5, 19 95
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

OIL CONSERVATION DIVISION
RECEIVED

'92 FEB 24 AM 9 01

LEGAL NOTICE
February 14, 1992

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 "Red Hat SWD #1" located 3300' FSL & 1980' FEL of Section 2, Township 16 South, Range 33 East of Lea County, New Mexico, will be used for saltwater disposal. Disposal waters from the Wolfcamp will be re-injected into the Delaware formation at a depth of 5746'-5780' feet with a maximum pressure of 1100 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, P.O. Box 2088, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting Jim Brown at (505) 748-1471.