

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR

- [D] Other: Specify _____

30-025-28468
SLO
Zero AOR well
NE of Reef
1252 PSI
Delaware

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate and complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name _____ Signature _____ Title _____ Date _____
 e-mail Address _____

RECEIVED

MAR 21 2005

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? X Yes No

II. OPERATOR: RAY WESTALL

ADDRESS: BOX 4 LOCO HILLS NM 88255

CONTACT PARTY: RANDALL HARRIS PHONE: 505 677-2370

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 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: RANDALL HARRIS TITLE: GEOLOGIST

SIGNATURE: [Signature] DATE: 3/14/05

E-MAIL ADDRESS: rharrisnm@netscape.net

* 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, 1220 South St. Francis Dr., 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.

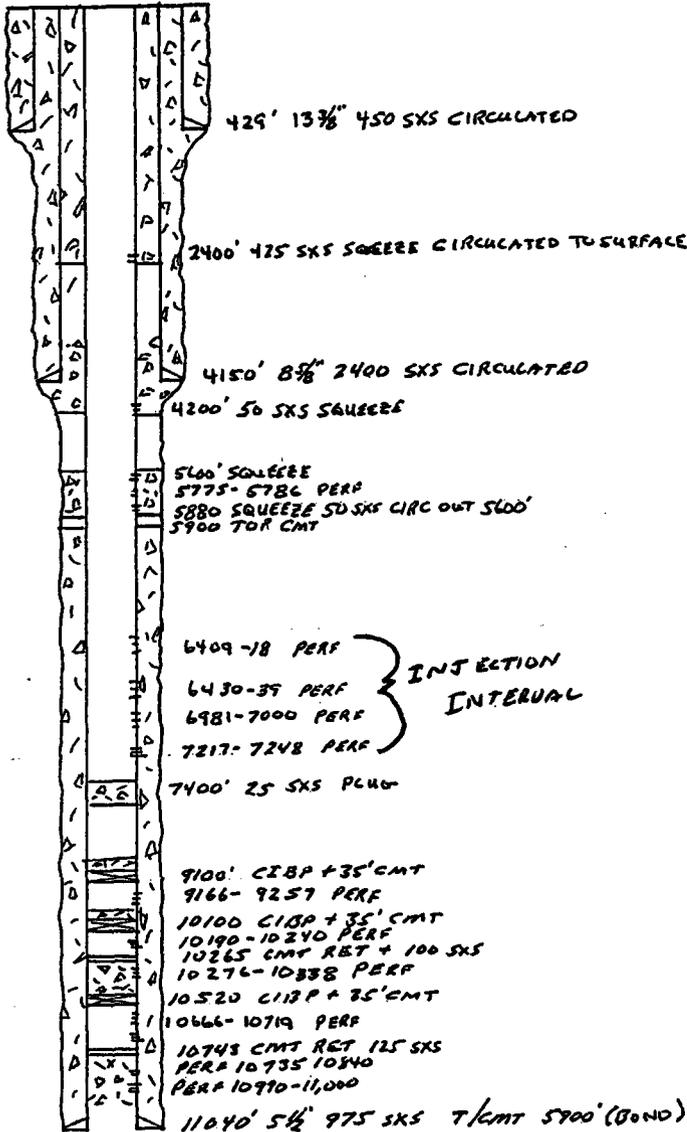
INJECTION WELL DATA SHEET

RAY WESTALL
STATE NO #1
1980' FNL & 660' FWL SEC 7 T19S-R36E

E / 7 / 19 / 36 E

Schematic

Tubular Data



Surface Casing
Size 13 3/8" 48 & 72# Set @
429' Cemented with 450 sxs Circulated
Hole size 17 1/2"

Intermediate Casing
Size 8 5/8" 32 & 24# set @ 4140 Cemented
with 2400 sxs Circulated Hole size 11"

Long String
Size 5 1/2 17 & 15.5# set @ 11040 Cemented
with 975 sxs TOC 5900' (temp
survey) Squeeze 50 sxs 5880'-5600'
Squeeze 25sxs 4202' Squeeze 425 sxs 2101'
Circulate to surface Hole size 7 7/8"

Injection interval
6409' to 7248' feet Perforated

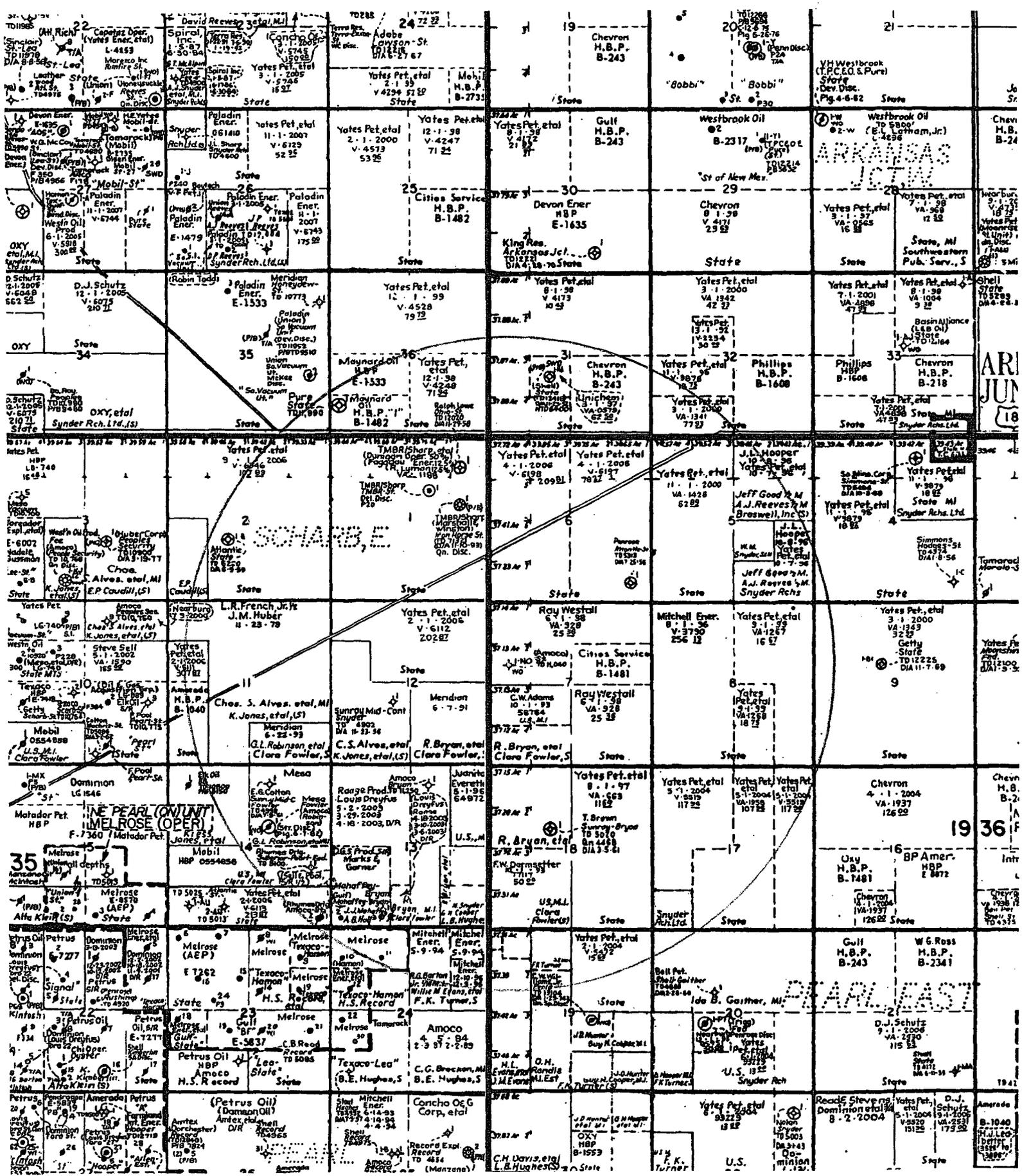
Tubing size 2 7/8" lined with Plastic set in a Baker Loc-set packer at 6300 feet.

Other Data

1. Name of the injection formation. DELAWARE
2. Name of field or pool. WILDCAT
3. Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled? Oil & Gas production
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug (s) used. See Schematic
5. Give the depth to and name of any overlying or underlying oil or gas zones in this area.
None

ATTACHMENT V

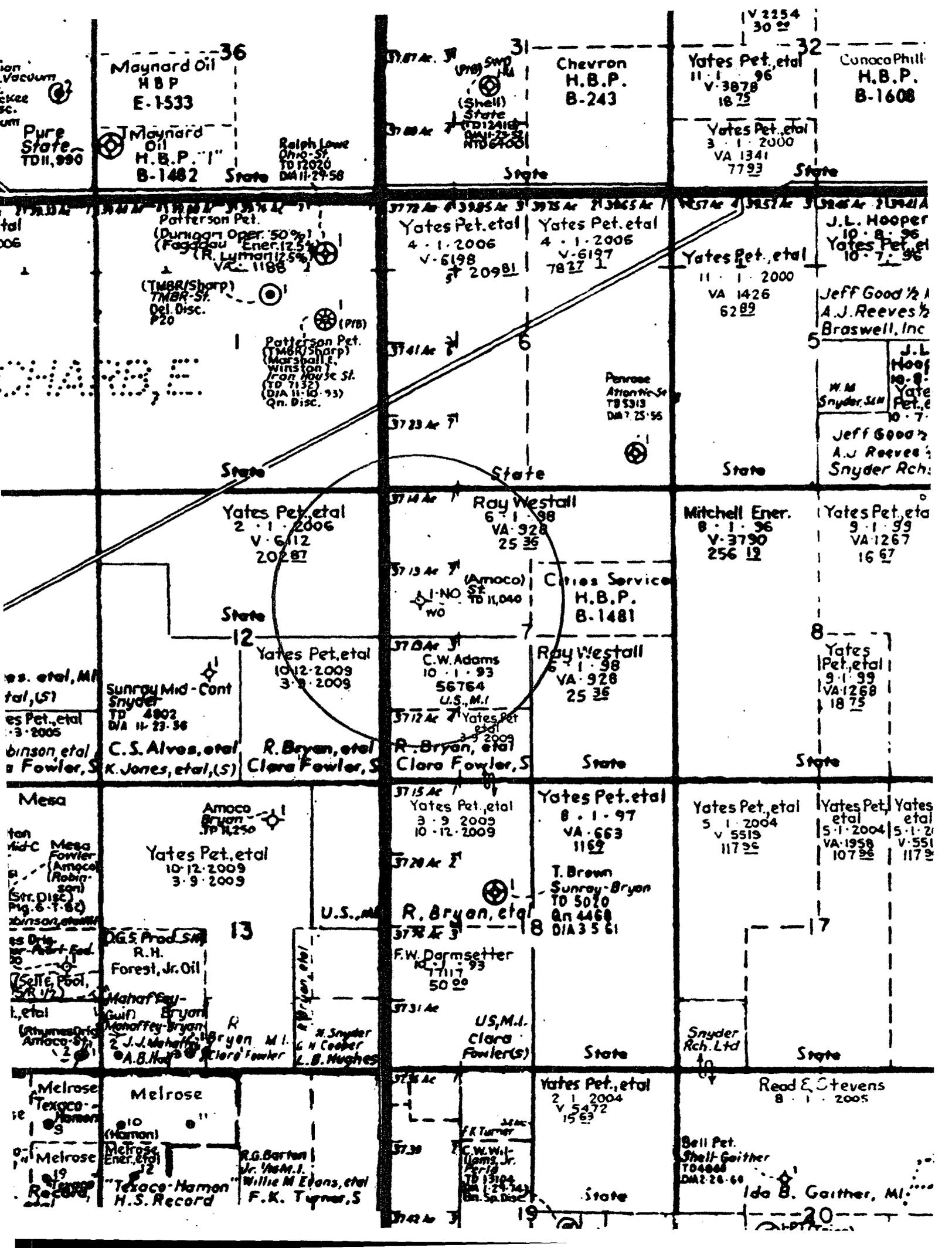
Maps that identifies all wells of public record within two miles of each proposed injection well, and the area of review one-half mile radius around each proposed injection well.



ARI JUN 18

19 36 F

19 41



36
Maynard Oil
H.B.P.
E-1533
T. Maynard
Oil
H.B.P.
B-1482
State

31
Chevron
H.B.P.
B-243
State

32
Yates Pet. et al
11-1-96
V-3878
1875
Yates Pet. et al
3-1-2000
VA 1341
7793
State

ConocoPhillips
H.B.P.
B-1608
State

Patterson Pet.
(Dunigan Oper. 50%)
(Fagotau Ener. 12.5%)
(R. Luman 12.5%)
VA-1168
(T.M.B.R./Sharp)
T.M.B.R.-St.
Del. Disc.
P20
Patterson Pet.
(T.M.B.R./Sharp)
Marshall E.
Winston
Iron House St.
(TD 7132)
(DIA 11-10-93)
Qn. Disc.
State

Yates Pet. et al
4-1-2006
V-6198
ST 20981
Yates Pet. et al
4-1-2006
V-6197
7827 1
State

Yates Pet. et al
11-1-2000
VA 1426
6289
State

J.L. Hooper
10-8-96
Yates Pet. et al
10-7-96
Jeff Good 1/2
A.J. Reeves 1/2
Braswell, Inc.
J.L. Hooper
10-8-96
Yates Pet. et al
10-7-96
W.M. Snyder, Sr.
Jeff Good
A.J. Reeves
Snyder Rich.
State

Yates Pet. et al
2-1-2006
V-6112
20287
State
12
Sunray Mid-Cont
Snyder
TD 4802
DIA 11-23-96
C.S. Alves, et al
K. Jones, et al, (S)
R. Bryan, et al
Clara Fowler, S
State

Ray Westall
6-1-98
VA-928
25 35
(Amoco)
A.I. NO SE
TO 11,040
WO
Cities Service
H.B.P.
B-1481
Ray Westall
6-1-98
VA-928
25 35
C.W. Adams
10-1-93
56764
U.S.M.I.
Yates Pet. et al
3-9-2009
R. Bryan, et al
Clara Fowler, S
State

Mitchell Ener.
8-1-96
V-3790
256 12
Yates Pet. et al
9-1-99
VA-1267
16 67
Yates Pet. et al
9-1-99
VA-1268
18 75
State

Yates Pet. et al
9-1-99
VA-1267
16 67
Yates Pet. et al
9-1-99
VA-1268
18 75
State

Mesa
Amoco
Bryan
TD 11,250
Yates Pet. et al
10-12-2009
3-9-2009
D.G.S. Prod. SA
R.H.
Forest, Jr. Oil
Mahaffey
Bryon
Mahaffey-Bryon
J.J. Mahaffey
A.B. Hall
Clara Fowler
U.S.M.I.
R. Bryan, et al
F.W. Darmsetter
11-17-93
50 00
U.S.M.I.
Clara
Fowler(S)
State

Yates Pet. et al
3-9-2009
10-12-2009
Yates Pet. et al
8-1-97
VA-663
1162
T. Brown
Sunray-Bryon
TD 5070
Qn 4468
DIA 3 5 61
State

Yates Pet. et al
5-1-2004
V 5519
117 96
Yates Pet. et al
5-1-2004
VA-1958
107 96
Yates Pet. et al
5-1-2004
V-5519
117 96
Snyder
Rich. Ltd
State

Yates Pet. et al
5-1-2004
V-5519
117 96
Yates Pet. et al
5-1-2004
V-5519
117 96
State

Melrose
Texaco
Melrose
Melrose
R.G. Barton
Jr. U.S.M.I.
Willie M Evans, et al
F.K. Turner, S
State

Yates Pet. et al
2-1-2004
V 5472
15 63
C.W. Williams, Jr.
FD 13104
Qn. Sp. Disc.
State

Read E. Stevens
8-1-2005
Bell Pet.
Shell-Gaither
T04008
DIA 28-60
Ida B. Gaither, MI.
State

State

ATTACHMENT VI

Data on all wells of public record within the area of review. Included are schematics of the plugged wells that penetrated the proposed injection zone within the area of review.

No wells within area of review.

ATTACHMENT VII

1. Proposed average of 150 bbls per day and maximum of 300 bbls per day of injected fluids. At a rate of one bbl per minuet.
2. System will be closed.
3. Average anticipated pressure of 450 psi and a maximum of 800 psi.
4. Source of produced water is produced water from the surrounding area.
5. Typical water analysis attached.

Data prepared by: Donald A. Beaudry
 Affiliation: Shell Oil Company
 Date: Aug. 15, 1960

Field Name: Pearl Queen
 Location: T. 19 S., R. 35 E.
 County & State: Lea Co., N. Mex.

DISCOVERY WELL: Shell Oil Co. #1 Hooper
 PAY ZONE: Queen-Penrose thin sandstone beds.

COMPLETION DATE: Sept. 12, 1955

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

Perm. in millidarcys		% Porosity	Liquid Saturation (% of pore space)	
Horizontal	Vertical		Water	Oil
2-62	NA	18	35.0	6.4

OTHER SHOWS ENCOUNTERED IN THIS FIELD:

Seven Rivers, San Andres, Bone Spring, Pennsylvanian (Atoka)

TRAP TYPE: Stratigraphic

NATURE OF OIL: 36° Gravity API

NATURE OF GAS:

NATURE OF PRODUCING ZONE WATER:

ppm	Total Solids	Na+K	Ca	Mg	Fe	Resistivity:					°F.
						SO ₄	Cl	CO ₂	HCO ₃	OH	
	234,000	66,000	14,000	7,000	X	500	146,000	X	150	X	X

INITIAL FIELD PRESSURE: 1750 psig

TYPE OF DRIVE: Solution Gas

NORMAL COMPLETION PRACTICES: Casing through pay zone. Perforation of selected intervals followed by sandfrac.

PRODUCTION DATA:

Year	Type	No. of wells @ yr. end		Production Oil in barrels Gas in MMCF	
		Producing	Shut in or Abnd.	Annual	Cumulative
	gas			.291	.291
1957	oil	8		44,184	45,138
	gas			28.067	28.358
1958	oil	40		319,534	368,907
	gas			158.357	186.715
1959	oil	69	1	629,250	1,007,446
	gas			427.311	614.026
1960*	oil	91		362,566	1,370,012
	gas			316.478	930.504

* 1960 Figure is production to July 1, 1960.

Author: G. J. Savage
 Affiliation: Gulf Energy & Minerals Co.-US
 Date: August 1976
 Field Name: Arkansas Junction (San Andres)
 Location: T-18-S, R-36-E
 County & State: Lea County, New Mexico

Discovery Well: Aztec Oil & Gas Co. #1 Amerada State, NE/4 NW/4 12-T-18-S, R-36-E.
 Completed 6-12-66. P 20 BOPD and 20 BW

Exploration Method Leading to Discovery:
 Recognition of possible pay zone from data obtained in drilling of deep test north of this discovery.

Pay Zone: San Andres dolomite
 Formation Name: San Andres Depth & Datum Discovery Well: Top of perms 4952 (-1169)

Lithology Description:
 Dolomite, tan to white finely crystalline partly anhydritic with thin interbeds of sandstone, gray, very fine to fine-grained, subangular, fairly well sorted.

Approximate average pay: 160 gross 24 net Productive Area 560 acres

Type Trap: Structural, with partial stratigraphic influence; i.e., with variable porosity and permeability.

Reservoir Data:
6-12 % Porosity, 0.2 Md Permeability, 32 % Sw, _____ % So
 Oil: 37.3° Gravity API
 Gas:
 Water: _____ Na+K, 2880 Ca, _____ Mg, 25900 Cl, 2500 SO₄, _____ CO₂, or HCO₃, _____ Fe
 Specific Gravity 1.015 Resistivity 0.21 ohms @ 84 °F
 Initial Field Pressure: 1610 psi @ -1293 datum Reservoir Temp. 112 °F
 Type of Drive:

Solution gas and water

Normal Completion Practices:
 Drill through pay zone, set casing, perforate, and wash with acid before sandfrac.

Type completion: Normal Well Spacing 40 Acres
 Pumping

Deepest Horizon Penetrated & Depth:
 Devonian at 10,600 feet (-6,805)

Other Producing Formations in Field:
 Penrose member of Queen formation

Production Data:

YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF		YEAR	TYPE	No. of wells @ yr. end		PRODUCTION OIL IN BARRELS GAS IN MMCF	
		Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE			Prod.	S.I. or Abd.	ANNUAL	CUMULATIVE
68	OIL	5		16,426	30,577	72	OIL	1	9	2,232	83,188
	GAS						GAS				
69	OIL	9		27,494	58,071	73	OIL	2	8	2,687	85,875
	GAS						GAS				
70	OIL	9	1	17,076	75,147	74	OIL	2	8	3,496	89,371
	GAS						GAS				
71	OIL	3	7	5,809	80,956	75	OIL	3	7	5,595	94,966
	GAS						GAS				

ATTACHMENT VIII

The proposed injection zone is a fine grained sand in the Delaware Formation. It has several sands with varying thickness. There is possible drinking water overlying the injection in the surface sands at a depth of 0-450'. There is no known source underlying the injection interval.

ATTACHMENT IX

No proposed stimulation.

ATTACHMENT XI

There are two active livestock water wells within one mile.

Well #1 UL P Section 12, T19S-R35E

Well #2 UL E Section 12, T19S-R35E

Analysis Attached

B J Services Water Analysis

Artesia District Laboratory
(505) 746-3140

Date: 22-Nov-02	Test #: <i>U-E SEC 12</i>
Company: Ray Westall	Well #: #2 <i>T 195-R 35E</i>
Lease: "NO" Water Well	County: Lea
State: New Mexico	Formation:
Depth:	Source:

pH:	7.46	Temp (F):	62.6
Specific Gravity	1.005		

<u>CATIONS</u>	mg/l	me/l	ppm
Sodium (calc.)	711	30.9	707
Calcium	80	4.0	80
Magnesium	49	4.0	48
Barium	< 25	---	---
Potassium	< 10	---	---
Iron	1	0.0	1

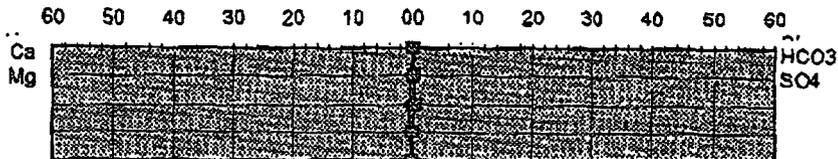
<u>ANIONS</u>	mg/l	me/l	ppm
Chloride	1200	33.9	1194
Sulfate	30	0.8	30
Carbonate	< 1	---	---
Bicarbonate	281	4.6	279
Total Dissolved Solids(calc.)	2351		2339
Total Hardness as CaCO3	400	8.0	398

COMMENTS: Sample of solids appears to be Iron Sulfide

SCALE ANALYSIS:

CaCO3 Factor	22504.12 Calcium Carbonate Scale Probability->	Remote
CaSO4 Factor	2406 Calcium Sulfate Scale Probability -->	Remote

Stiff Plot



B J Services Water Analysis

Artesia District Laboratory
(505) 746-3140

Date: 22-Nov-02	Test #: <i>UL-P SEC 12</i>	
Company: Ray Westall	Well #: #1	<i>T 195-R 35E</i>
Lease: "NO" Water Well	County: Lea	
State: New Mexico	Formation:	
Depth:	Source:	

pH:	8.26	Temp (F):	63
Specific Gravity	1.01		

<u>CATIONS</u>	mg/l	me/l	ppm
Sodium (calc.)	1150	50.0	1139
Calcium	80	4.0	79
Magnesium	73	6.0	72
Barium	< 25	---	---
Potassium	< 10	---	---
Iron	1	0.0	1

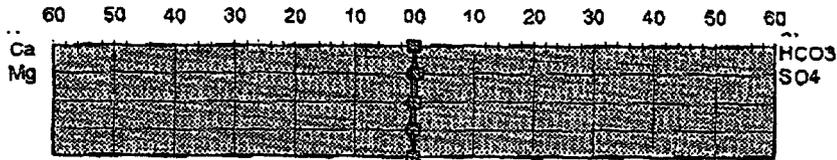
<u>ANIONS</u>	mg/l	me/l	ppm
Chloride	2000	56.4	1980
Sulfate	69	1.4	69
Carbonate	< 1	---	---
Bicarbonate	146	2.4	145
 Total Dissolved Solids(calc.)	 3520		 3485
 Total Hardness as CaCO3	 500	 10.0	 495

COMMENTS: Sample of solids appears to be Iron Sulfide

SCALE ANALYSIS:

CaCO3 Factor	11741.28 Calcium Carbonate Scale Probability->	Remote
CaSO4 Factor	5614 Calcium Sulfate Scale Probability -->	Remote

Stiff Plot



ATTACHMENT XII

All available geologic and engineering data have been examined and there is no evidence of open faults or any other hydrologic connection between the disposal zone and any source of drinking water.

ATTACHMENT XIV

PROOF OF NOTICE

Leasehold operators within one-half mile of the well location are: Yates Petroleum, BP/Arco and Patterson Petroleum. Each of the operators were provided a copy of our application by certified mail. Proof of notice is enclosed. The surface owner is the State of New Mexico.

PROOF OF PUBLICATION

Proof of publication is from the Hobbs Daily Sun and attached..

Certified Mail

Yates Petroleum 105 S. 4 th St. Artesia, NM 88210	7000 0750 0002 5384 5055
--	--------------------------

BP 501 Westlake Park Blvd Houston, Tx 77079	7000 0750 0002 5384 5062
---	--------------------------

Paterson Petroleum 1004 N. Big Spring Ste 523 Midland, Tx 79701	7000 750 0002 5384 5079
--	-------------------------

New Mexico State Land Office
Bldg 310 Old Santa Fe Tr
Santa Fe, NM 87504

Oil Conservation Division
1220 S St. Francis Dr.
Santa Fe, NM 87504

Oil Conservation Division
1624 N. French
Hobbs, NM 88240

US Postal ServiceTM
CERTIFIED MAILTM RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

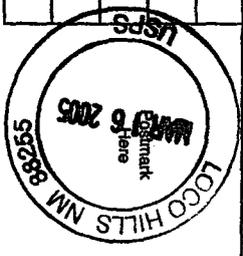
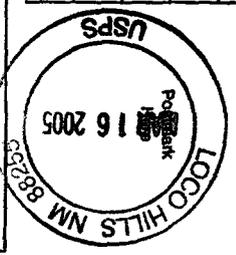
For delivery information visit our website at www.usps.com[®]

US Postal ServiceTM
CERTIFIED MAILTM RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com[®]

Postage	\$ 1.06
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.36

Postage	\$ 1.06
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.36



Sent To **BP AMERICA**
 Street, Apt. No. **501 Westlake Park Blvd.**
 or PO Box No. **501 Westlake Park Blvd.**
 City, State, ZIP+4[®] **Houston, TX 77079**

Sent To **JAMES PETERSON**
 Street, Apt. No. **105 S. 4th**
 or PO Box No. **105 S. 4th**
 City, State, ZIP+4[®] **ARIZONA, WM 88210**

PS Form 3800, June 2002 See Reverse for Instructions

PS Form 3800, June 2002 See Reverse for Instructions

7004 0750 0002 5384 5079

7004 0750 0002 5384 5055

US Postal ServiceTM
CERTIFIED MAILTM RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com[®]

Postage	\$ 1.06
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 3.36



Sent To **PATHEAN PETERSON**
 Street, Apt. No. **104 N. Big Springs Ste 522**
 or PO Box No. **104 N. Big Springs Ste 522**
 City, State, ZIP+4[®] **Midland TX 79709**

PS Form 3800, June 2002 See Reverse for Instructions

Jones, William V

From: RharrisNM@netscape.net
Sent: Wednesday, March 30, 2005 2:13 PM
To: WVJones@state.nm.us
Subject: RE: State No. 1 SWD proposal

Hello Mr. Jones:

Answers to your questions

1. API 30 025 28468
- 2&3. All in PPM
 - Abo TDS-45,112, Ca-7,000, Cl-35,000, SO4-3,100, CO2-1,160
 - Drinkard TDS-109,575, Ca-8,400, Mg-1680, Cl-97,000, SO4-2400, CO2-95
 - Blinebry TDS-99320, Ca-8500, Mg-8400, Cl-80,000, SO4-2300, CO2-120
 - Queen TDS-234,000, Na&K-66000, Ca-14000, Mg-7000 SO4-500, Cl-146000
 - SanAndres TDS-31280, Ca-2880, Cl-25900, SO4-2500
4. Commercial SWD Yes
5. No production test on well except well on vacume after acid job
Water Analysis would be typical for other Lea County Delaware ie:
TDS-140495, Na-43036, Ca-4718, Mg-880, Cl-76923, SO4-901, CO2-442
6. Yates 3122, Queen 4737, SanAndres 5260, Delaware 5579, BoneSpring 7320, Wolfcamp 10525.
7. A copy of this application went to the State Land Office at the same time I sent it out to you, if needed will send an other copy certified.

Thank You

Randall Harris
"Jones, William V" <WVJones@state.nm.us> wrote:

>Hello Randall:

>
>Received your application today and reviewed it. Please supply:

- >1) API Number of the State No. 1
- >2) List of all formations that will produce waters that will be injected
>into this well.
- >3) Estimated TDS water salinity or actual water analysis for each of
>these waters.
- >3) Is it to be a commercial SWD well?
- >4) Send copy of production test results on this well in the Delaware and
>water analysis if available.
- >5) Send depths of the formation tops in this well.
- >6) Send proof of notice to the State Land Department.

>
>I must also wait on comments on this application from Paul Kautz in Hobbs.

>
>Thank You,

>
>William V. Jones

><<http://www.emnrd.state.nm.us/ocd/Bureaus/Engineering/engineer.htm>>
>Engineering Bureau <<http://www.emnrd.state.nm.us/ocd/>> Oil
>Conservation Division
><<http://www.emnrd.state.nm.us/ocd/general/SFdirectory.htm>> Santa Fe

>
>
>
>
>Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically

Jones, William V

From: Jones, William V
Sent: Tuesday, March 22, 2005 3:59 PM
To: 'rharrisnm@netscape.net'
Cc: Kautz, Paul; Sanchez, Daniel; Dickey, Sylvia
Subject: State No. 1 SWD proposal

Hello Randall:

Received your application today and reviewed it. Please supply:

- 1) API Number of the State No. 1
- 2) List of all formations that will produce waters that will be injected into this well.
- 3) Estimated TDS water salinity or actual water analysis for each of these waters.
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Thank You,

William V. Jones Engineering Bureau Oil Conservation Division Santa Fe