

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
Zew-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.

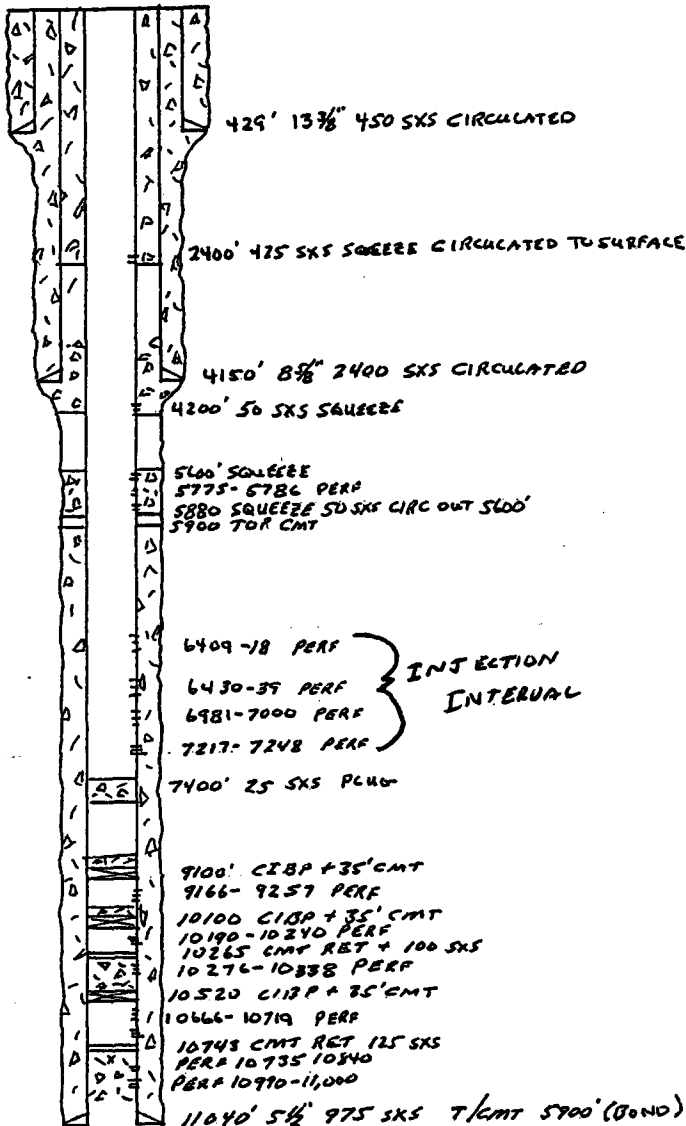
INJECTION WELL DATA SHEET

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

E/7/19/36E

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 25 sxs 4202' Squeeze 425 sxs 2101'
Circulate to surface Hole size 7 7/8"

Injection interval

6409' to 7248' feet Perforated

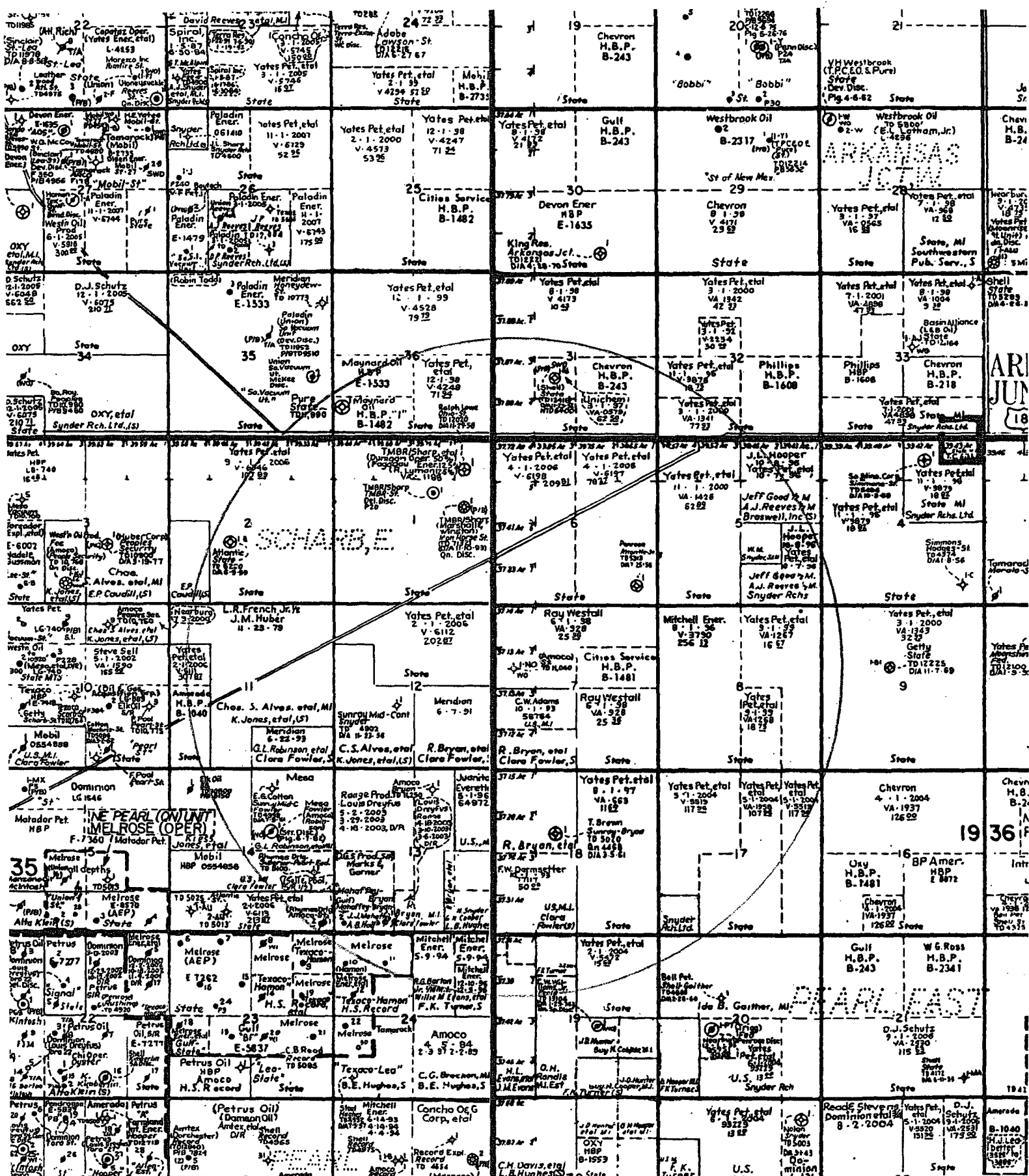
Tubing size 2 7/8" lined with Plastic set in a Baker Loc-set packer at 6300 feet.

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.



Ida B. Gaither, MI.

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:

Resistivity:

ohm-meters @

°F.

| | Total Solids | Na+K | Ca | Mg | Fe | SO ₄ | Cl | CO ₂ | HCO ₃ | OH | H ₂ S |
|-----|--------------|--------|--------|-------|----|-----------------|---------|-----------------|------------------|----|------------------|
| ppm | 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 |
| 1956 | oil | 1 | | 954 | 954 |
| | 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 Field Name: Arkansas Junction (San Andres)
 Affiliation: Gulf Energy & Minerals Co.-US Location: T-18-S, R-36-E
 Date: August 1976 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:

Pumping

Normal Well Spacing 40 Acres

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
Company: Ray Westall
Lease: "NO" Water Well
State: New Mexico
Depth:

Test #: *U-E SEC 12*
Well #: #2 *T 195-R 35E*
County: Lea
Formation:
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 |

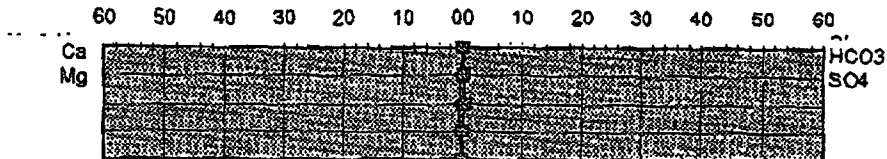
| <u>ANIONS</u> | | | |
|-------------------------------------|------|------|------|
| Chloride | 1200 | 33.9 | 1194 |
| Sulfate | 30 | 0.6 | 30 |
| Carbonate | < 1 | ---- | ---- |
| Bicarbonate | 281 | 4.6 | 279 |
| Total Dissolved Solids(calc.) | 2351 | | 2339 |
| Total Hardness as CaCO ₃ | 400 | 8.0 | 398 |

COMMENTS: Sample of solids appears to be Iron Sulfide

SCALE ANALYSIS:

| | | | |
|--------------------------|----------|---------------------------------------|--------|
| CaCO ₃ Factor | 22504.12 | Calcium Carbonate Scale Probability-> | Remote |
| CaSO ₄ Factor | 2406 | Calcium Sulfate Scale Probability --> | Remote |

Stiff Plot



B J Services Water Analysis

Artesia District Laboratory
(505) 746-3140

Date: 22-Nov-02
Company: Ray Westall
Lease: "NO" Water Well
State: New Mexico
Depth:

Test #: *4L-P SEC 12*
Well #: #1 *T 195-R 35E*
County: Lea
Formation:
Source:

| | |
|------------------|------|
| pH: | 8.26 |
| Specific Gravity | 1.01 |

| | |
|-----------|----|
| Temp (F): | 63 |
|-----------|----|

CATIONS

| | 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 |

ANIONS

| | | | |
|-------------|------|------|------|
| Chloride | 2000 | 56.4 | 1980 |
| Sulfate | 69 | 1.4 | 69 |
| Carbonate | < 1 | --- | --- |
| Bicarbonate | 146 | 2.4 | 145 |

| | | | |
|-------------------------------|------|--|------|
| Total Dissolved Solids(calc.) | 3520 | | 3485 |
|-------------------------------|------|--|------|

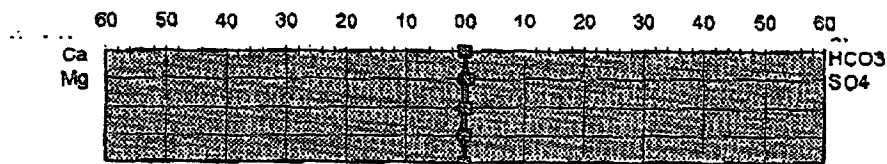
| | | | |
|-------------------------------------|-----|------|-----|
| Total Hardness as CaCO ₃ | 500 | 10.0 | 495 |
|-------------------------------------|-----|------|-----|

COMMENTS: Sample of solids appears to be Iron Sulfide

SCALE ANALYSIS:

| | | | |
|--------------------------|----------|--|--------|
| CaCO ₃ Factor | 11741.28 | Calcium Carbonate Scale Probability--> | Remote |
| CaSO ₄ 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. 4th 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

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

of the Hobbs News-Sun, a
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 1
_____ weeks.

Beginning with the issue dated

March 3 2005
and ending with the issue dated

March 3 2005

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 3rd day of

March 2005

Anna Maty
otary Public.
My Commission expires
February 07, 2009
(real)

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

LEGAL NOTICE
March 3, 2005

Ray Westall-Operator, P.O. Box 4, Loco Hills, New Mexico
88255 Phone (505)677-2370. Contact party of Ray Westall-
Operator is Randall Harris, is seeking administrative appro-
val from the New Mexico Oil Conservation Division to utilize
a well located 1980' FNL & 660' FWL Section 7, Township
19 South, Range 36 East, Lea County, New Mexico known
as the State NM #1 for water injection. Proposed injection is
in the Delaware formation through perforations 5775-7248
feet. Expected maximum injection rate of 1000 bbls per day
at 800 psi. Interested parties must file objection or requests
for hearing with the Oil Conservation Division, 1220 So. St.
Francis Drive Santa Fe, NM 87505 within 15 days of the
notice.
#21336

67100415000 67528458

Ray Westall Operating
P.O. Box 4
LOCO HILLS, NM 88255

U.S. Postal Service[™]
CERTIFIED MAIL[™] RECEIPT
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For delivery information visit our website at www.usps.com.

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| Postage | \$ 1.06 |
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| Restricted Delivery Fee (Endorsement Required) | |
| Total Postage & Fees | \$ 3.36 |



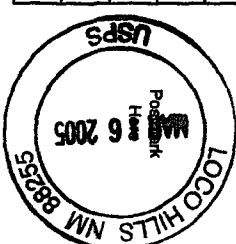
Sent To B P America
 Street, Apt. No., or PO Box No. 501 Westlake Apt Bldg.
 City, State, ZIP+4[®] Boulay, TX 77079
 PS Form 3800, June 2002 See Reverse for Instructions

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For delivery information visit our website at www.usps.com.

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



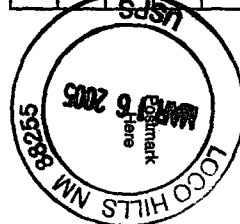
Sent To Antennas Petroleum
 Street, Apt. No., or PO Box No. 104 N. Big Springs Ste 522
 City, State, ZIP+4[®] Midland TX 79709
 PS Form 3800, June 2002 See Reverse for Instructions

U.S. Postal Service[™]
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OFFICIAL USE

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



Sent To Antennas Petroleum
 Street, Apt. No., or PO Box No. 105 S. 4th
 City, State, ZIP+4[®] Midland, NM 88210
 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
>
>
>
>
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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.
- 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

Engineering Bureau

Oil Conservation Division

Santa Fe

3/22/2005