

July 26, 1999

28

Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

Att: Ben Stone, Engineering

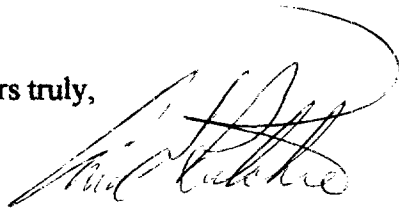
RE: Sonat Raton, L.L.C., Vermejo Park "A", Well #7, disposal well application,
Colfax County, New Mexico

Dear Ben,

Please see attached the "Geological Data" report which I received from the Sonat Raton, L.L.C. geological team this morning. Please add this report to our C-108 filing to supplement data supplied in the filing.

Please let me know if you need any further information regarding this filing. Thank you.

Yours truly,



Ann E. Ritchie, Regulatory Agent
Sonat Raton, L.L.C.
c/o P.O. Box 953
Midland, TX 79702

Cc: Oil Conservation Division, District 4 – Roy Johnson
Sonat Raton, L.L.C., att: Don Lankford/Raton

Geological Data

Injection Zones:

Injection zones will be sands in the Dakota, Morrison, and/or Entrada Formations. The Dakota Formation is approximately 200 feet thick and is characterized by predominately fine grained sand with some interbedded shale. The Upper Dakota sands are typically very well cemented and have very low permeability and porosity. The Lower Dakota sands are less well cemented and have higher permeability and porosity. Underlying the Dakota Formation is the Morrison Formation which is characterized by a series of interbedded sands and shales and is approximately 300 feet thick. Individual sands are typically 10 to 20 feet thick and are separated by shales 20 to 40 feet thick. The Entrada Formation is approximately 120 feet thick and is characterized by well cemented fine grained sands that are fractured. The Todilto Formation lies between the Morrison and Entrada Formations and is an anhydrite approximately 70 feet thick.

These injection zones are overlain by approximately 3700 feet of Pierre Shale that would confine the injected water to the injection zones. Structurally, the location is in the center of the Raton Basin. There are no known active faults.

July 30, 1999

Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505

REC-1
AUG - 2 1999

Att: Ben Stone, Engineering

Re: **Sonat Raton, L.L.C.**, Vermejo Park "A", Well #7, Colfax County, New Mexico

Dear Ben,

Please see enclosed the certified mail receipts we received from the interested parties as submitted on our application for the above referenced well.

Please let us know if you need any further information concerning this application.

Yours truly,



Ann E. Ritchie, Regulatory Agent
Sonat Raton, L.L.C.
C/o P.O. Box 953
Midland, TX 79702

Attachment

Cc: Sonat Raton, L.L.C., Raton, New Mexico

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Vermejo Park, L.L.C.
P.O. Drawer E
Raton, NM 87740

4a. Article Number

P 497 368 696

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

7-26-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X *Eileen Gough*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
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I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Sonat Exploration Co.
Attn: Steve Guerin, P.E.
P.O. Box 1513
Houston, TX 77251-1513

4a. Article Number

P 497 368 697

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

JUL 28 1999

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X C. WILLIAMS

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

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I also wish to receive the following services (for an extra fee):

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2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Pennz Energy E&P, L.L.C.
Attn: Greg Davis
P.O. Box 4616
Houston, TX 77210

4a. Article Number

P 497 368 698

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

JUL 28 1999

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X *[Signature]*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

November 30, 1999

Sonat Raton, L.L.C.
P.O. Box 190
Raton, New Mexico 87740

Attn: Don Lankford

**RE: Injection Pressure Increase,
Vermejo Park Ranch "A" Well No. 7
API No. 30-0075-20116
Colfax County, New Mexico**

Dear Mr. Lankford:

Reference is made to your request dated November 12, 1999 to increase the surface injection pressure on the above referenced well. This request is based on data obtained from a step rate test conducted on November 8, 1999. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well:

<i>Well and Location</i>	<i>Maximum Injection Pressure</i>
Vermejo Park Ranch "A" Well No. 7	2000 PSIG
Located in Section 1, Township 31 South, Range 19 East, Colfax County, New Mexico.	

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,

Lori Wrotenbery
Director

LW/MWA/kv

cc: Oil Conservation Division – Santa Fe
Files: SWD-755, IPI 4th QTR 2000