

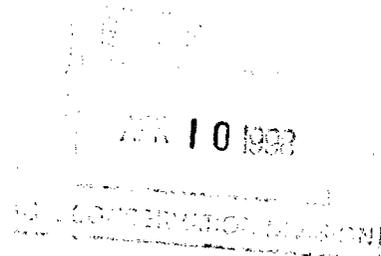
ROBERT L. BAYLESS

P. O. BOX 168
FARMINGTON, NM 87499

FAX NO
(505) 326-6911

OFFICE NO
(505) 326-2659

April 6, 1998
Mr. Ben Stone
Oil Conservation Division
2040 Pacheco St.
Santa Fe, NM 87505



RE: Application for Authorization to Inject
SWD No. 3
SE SE Sec. 7, T30N, R12W
San Juan County, NM

Dear Mr. Stone,

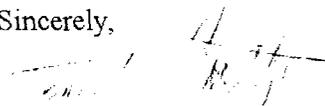
Bayless sent the referenced application to inject to the Division on December 8, 1997. Since that time the application has been pending due to a possible cement coverage issue in a well within the area of influence. This well is the New Mexico Federal N No. 3, operated by Floyd Oil Company. Floyd Oil Company has agreed to repair this well as described in the attached letter, after Bayless demonstrates that the SWD No. 3 is a viable injector.

We request that the Division approve the SWD No. 3 injection permit, stipulating that Bayless complete a viable injection well, and that Floyd cover the Point Lookout zone with cement in their New Mexico Federal N No. 3 before actual injection operations begin.

We also request that the Division allow Bayless to change Part VII.4. of the permit to read as follows: "The source of the water will be various Pictured Cliffs, Fruitland Coal, and Dakota wells completed on this and nearby properties. Typical water analysis data is attached. Pictured Cliffs, Fruitland Coal, and Dakota water is disposed of into other Mesa Verde disposal wells in the area with no apparent compatibility problems. Compatibility of the water to be injected will be tested upon completion of the well." Enclosed is a Dakota well water analysis that should be attached to the permit application.

Your prompt approval of this permit as amended will be appreciated. We would like to begin our field operations as soon as possible. If possible, please fax me an approval.

Sincerely,


Tom McCarthy
Petroleum Engineer

Encl.

Laboratory Water Analysis for Dakota Formation Produced Water

Pioneer Federal No. 1
Sec. 29, T30N, R12W
San Juan County, NM

Ellsworth No. 1
Sec. 29, T30N, R12W
San Juan County, NM

Samples from Water Tank:

LABORATORY WATER ANALYSIS

No. _____

PRODUCTION REC'D

To Mesa Limited Partnership

Date 11/19/86

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Submitted by _____ Date Rec. _____

Well No. _____ Depth _____ Formation _____

County _____ Field (Lower) Source _____

Nyecom 1E-Dakota Farmington Com 1 Ellsworth 1

Resistivity 89.5 @ 60.6° 115 @ 62.7° 74.6 @ 61°

Specific Gravity _____

pH 5.42 5.04 5.8

Calcium (Ca) 50 mg/l 0 mg/l 0 mg/l *MPL

Magnesium (Mg) 0 mg/l 0 mg/l 0 mg/l

Chlorides (Cl) 68 mg/l 38 mg/l 38 mg/l

Sulfates (SO₄) 0 mg/l 2 mg/l 0 mg/l

Bicarbonates (HCO₃) 106 mg/l 106 mg/l 70 mg/l

Soluble Iron (Fe) not present not present not present

TDS less Na
= 224

TDS less Na
= 146

TDS less Na
= 108

water tank

water tank

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Warren Miller
cc:

HALLIBURTON COMPANY

By _____

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

copy 1/30/87: Marketing, Regulatory, Well file

HALLIBURTON COMPANY
 FARMINGTON DISTRICT
LABORATORY WATER ANALYSIS

DEC 22 1986

PRODUCTION RECORDS

To Mesa Limited Partnership

Date 11/19/86

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Submitted by _____ Date Rec. _____

Well No. _____ Depth _____ Formation _____

County _____ Field _____ Source _____

	<u>Johnston 1</u>	<u>Pioneer Fed 1</u>	<u>Standard 1</u>
Resistivity	<u>2.60 @ 61°</u>	<u>5.31 @ 67.4°</u>	<u>152.6 @ 75.2°</u>
Specific Gravity	_____	_____	_____
pH	<u>4.91</u>	<u>7.06</u>	<u>5.2</u>
Calcium (Ca)	<u>350 mg/l</u>	<u>0 mg/l</u>	<u>0 mg/l</u> *MPL
Magnesium (Mg)	<u>0 mg/l</u>	<u>0 mg/l</u>	<u>0 mg/l</u>
Chlorides (Cl)	<u>1137 mg/l</u>	<u>606 mg/l</u>	<u>64 mg/l</u>
Sulfates (SO ₄)	<u>2 mg/l</u>	<u>0 mg/l</u>	<u>2 mg/l</u>
Bicarbonates (HCO ₃)	<u>0 mg/l</u>	<u>634 mg/l</u>	<u>70 mg/l</u>
Soluble Iron (Fe)	<u>heavy presence</u>	<u>not present</u>	<u>not present</u>
.....	<u>TDS less Na</u>	<u>TDS less Na</u>	<u>TDS less Na</u>
.....	<u>= 1,489</u>	<u>= 1,240</u>	<u>= 136</u>

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Warren Miller
 CC:

HALLIBURTON COMPANY

By _____

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copy: Marketing, Regulatory, Well file
 12/29