

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

August 1, 1988

Mr. Steve Dunn
Merrion Oil & Gas Corp.
P.O. Box 840
Farmington, NM 87499

Re: Arena Blanca #1 Produced Water

Dear Mr. Dunn:

Your request to use produced water from the referenced well for road construction in the area is approved. The water will not be allowed to collect in the bar ditches or run down any arroyos.

Sincerely,

Frank T. Chavez District Supervisor

FTC/dj

xc: Well File

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MERRION OIL & GAS CORPORATION

610 REILLY AVE. • P. O. Box 840

FARMINGTON, NEW MEXICO 87499

July 26, 1988

State of New Mexico Oil Conservation Division 1000 Rio Brazos Aztec, New Mexico 87410

Attention: Mr. Frank Chavez

Subject: Produced water

Arena Blanca No. 1 Sec 36, T20N, R5W McKinley County, N.M.

Dear Frank:

In accordance with your instructions please consider this letter Merrion Oil & Gas Corporation's request to provide produced water from the Arena Blanca No. 1 for use on a road improvement project in the Ojo Encino area. Northwest Piping, Inc. is under a BIA contract to upgrade roads in the vicinity of the Ojo Encino School and has requested Merrion to provide water for use in obtaining compaction of road fill.

Enclosed for your information is a recent water analysis. The produced water is from the Entrada formation.

If further is required, please advise.

Steven S. Dunn

Yours truly,

Operations Manager

SSD:ks Enc.

REGEIVED

OIL CON. DIV.

WATER ANALYSIS
750012 2/9/88

Unichem International

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company: Merrion Oil & Gas

Date

: 01-08-1988

Location: Arean Blanco - Wellhead (on 12-16-1987)

Sample 1 Specific Gravity: 1.008 10930 Total Dissolved Solids: 7.10 pH: 0.225 IONIC STRENGTH:

CATTONG		me/liter	m m / 1 i to a m
CATIONS:			mg/liter
Calcium	(Ca ^{+ 2})	12.0	240
Magnesium	(Mg ^{+ 2})	8.80	107
Sodium	(Na ^{+ 1})	148	3410
Iron (total)	(Fe ^{+ 2})	0.025	0.700
Barium	(Ba ^{+ 2})	0.000	0.020
Manganese	(Mn^{+2})	0.010	0.276
ANIONS:			
Bicarbonate	(HCO ₃ - 1)	2.80	171
Carbonate	(CO ₃ - ²)	0	0
Hydroxide	(OH ⁻¹)	0	0
Sulfate	(504-2)	87.4	4200
Chloride	(C1 ⁻¹)	79.0	2800

SCALING	INDEX	(positive	value	indicates	scale)

-		Calcium	Calcium
Temp	enatune	Carbonate	Sulfate
86 F	30°C	-0.47	-8.4
120°E	49°C	0.43	-8.4