NEC **I I 1998** 

# MERRION

Oil & Gas

December 9, 1998

Mr. Ben Stone New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505

RE: Administrative Order SWD-686 Jones #1 Section 22, T32N, R13W San Juan County, New Mexico

Dear Mr. Stone

According to the subject administrative order, injection into the Jones #1 was to have begun by November 24, 1998. Merrion has not re-entered the well to date.

The water disposal well was to be a backup in case our original produced water disposal option did not work. We planned to use the produced water for dust control on the haul road through an agreement with LaPlata mine.

We would prefer to put the produced water to beneficial use, however, we are experiencing difficulty in getting approval for beneficial use from the State Engineer's Office. Negotiations are ongoing, but if the issue is not resolved, we will be forced to convert the Jones #1 to SWD, therefore we request additional time to complete work and begin injection into the Jones #1.

Sincerelv

Connie Dinning, Contract Engineer

xc: Well File

	NISTRATIVE I	NJECTION APF	LICATIONS	6.86
Operator: Mickico 0+6	Well:	Jours No	/	
Contact: County And Title	: GNG WEE,		Phone: 327.9	801 fx 126
DATE IN $9 \cdot 24 \cdot 97$ RELEA	ASE DATE <u>/0</u>	<u>9 · 97</u> DATE (	ר <u>אין יצין</u> דענ	
Proposed Injection Application is for:	WATERF	LOOD _	Expansion I	nitial
Original Order: R	Secondar	y Recovery _	Pressure Mainten	ance
SENSITIVE AREAS	$\underline{\times}$ SALT WA	TER DISPOSAL	Commercial Well	
WIPP Capitan Reef				
Data is complete for proposed well(s)?	Additional Dat	a Req'd	· · · ·	
AREA of REVIEW WELLS				<u></u>
⊘_ Total # of AOR		# of Plugge	d Wells	
Tabulation Compl	ete	Schematics	of P & A's	
Cement Tops Ade	equate	AOR Repair	Required	
INJECTION FORMATION				
Injection Formation(s)	erdt		Compatible Analy	rsis <u>Uts</u>
Source of Water or Injectate	POPUCTION	1		
PROOF of NOTICE				
Copy of Legal Notice		<u> </u>	Printed Correctly	
Correct Operators		<u></u> Copies of Ce	ertified Mail Receipts	
$\underline{\mathcal{NO}}$ Objection Received		Set to Heari	ng Da	te
NOTES: <u>Aztec requested</u>	THEY TAG	PLUG ALTER	DRILL OUT.	
APPLICATION QUALIFI	ES FOR ADMIN	ISTRATIVE APPR	OVAL? Yes	
COMMUNICATION WITH CONTACT PERSON:	r 11.74 Date	Nature of Discussion 1/6	RAL DP	
2nd Contact:TelephonedLetter	n Date	Nature of Discussion		
3rd Contact:TelephonedLetter	nDate	Nature of Discussion		

ENER	STATE OF NEW HEXILÜ GY AND MINERALS DEPARTMENT	ADST OFFICE BOX 2016 ADST OFFICE BOX 2016 STATE LAND OFFICE BUILDING BANTA FE, NEW MEXICO 97501	Revised 7-1-81
APPL'C	ATION FOR AUTHORIZATION TO INJE	101	
Ι.	Purpose: Decondary Recov Application qualifies for	very Pressure Maintenauce administrative approval? XXye	Disposal Distorage
п.	Operator: Merrion Oil & Ga	15	
	Address: 610 Reilly Avenu	e, Farmington, NM 87401	
•	Contact party: Connie Dinn	ning Phone:	327-9801 ext. 126
111.	Well data: Complete the data proposed for inje	a required on the reverse side of action. Additional sheets may be	this form for each well attached if necessary.
IV.	Is this an expansion of an ex If yes, give the Division ord	kisting project? 🗌 yes 🕅 der number authorizing the projec	] no t
۷.	Attach a map that identifies injection well with a one-hal well. This circle identifies	all wells and leases within two if mile radius circle drawn aroun a the well's area of review.	miles of any proposed d each proposed injection
* VI.	Attach a tabulation of data o penetrate the proposed inject well's type, construction, da a schematic of any plugged we	on all wells of public record wit tion zone. Such data shall inclu ate drilled, location, depth, rec all illustrating all plugging det	hin the area of review which de a description of each ord of completion, and ail.
VII.	Attach data on the proposed o	operation, including:	
	<ol> <li>Proposed average and</li> <li>Whether the system is</li> <li>Proposed average and</li> <li>Sources and an approp the receiving forma</li> <li>If injection is for d at or within one mi the disposal zone f literature, studies</li> </ol>	maximum daily rate and volume of open or closed; maximum injection pressure; riate analysis of injection flui tion if other than reinjected pr lisposal purposes into a zone not le of the proposed well, attach ormation water (may be measured a, nearby wells, etc.).	fluids to be injected; d and compatibility with oduced water; and productive of oil or gas a chemical analysis of or inferred from existing
*VIII.	Attach appropriate geological detail, geological name, thic bottom of all underground sou total dissolved solids concen injection zone as well as any injection interval.	data on the injection zone incl kness, and depth. Give the geol rces of drinking water (aquifers trations of 10,000 mg/l or less) such source known to be immedia	uding appropriate lithologic ogic name, and depth to containing waters with overlying the proposed tely underlying the
IX.	Describe the proposed stimula	tion program, if any.	
* X.	Attach appropriate logging an with the Division they need n	d test data on the well. (If we not be resubmitted.)	ll logs have been filed
* XI.	Attach a chemical analysis of available and producing) with location of wells and dates s	fresh water from two or more fr in one mile of any injection or amples were taken.	esh water wells (if disposal well showing
XII.	Applicants for disposal wells examined available geologic a or any other hydrologic conne source of drinking water.	must make an affirmative statem nd engineering data and find no ction between the disposal zone a	ent that they have evidence of open faults and any underground
XIII.	Applicants must complete the	"Proof of Notice" section on the	reverse side of this form.
XIV.	Certification		
	I hereby certify that the inf to the best of my knowledge a	ormation submitted with this app nd belief.	lication is true and correct
	Name: Connie S. Dinning	Title Con	tract Engineer
	Signature:	Date:	9/23/97
* If th submi of th	ne information required under S tted, it need not be duplicate ne earlier submittal.	ections VI, VIII, X, and XI aboved and resubmitted. Please show	e has been previously the date and circumstance

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The cata must be both in tabular and schematic form and shall include:
  - 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) he injection interval and whether it is perforated or open-hole.
  - (3) itate if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) ; ive the depths of any other perforated intervals and detail on the sacks of cement or ridge plugs used to seal off such perforations.
  - (5) live the depth to and name of the next higher and next lower oil or gas zone in the rea of the well, if any.

XIV. PROFF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certi ied 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) 'he name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single vells 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) ε notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 cays.

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 cf administrative applications within 15 days from the date this application was muled to them.

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		R13W																								
		22, T32N, I	Mexico		TOC	Circulated	Circulate	NA	ernal lining									P&A'd.							nore than	
jection		80' fel, Sec	ounty, New					@ 2825'	' KB, no inte		sing Packer			de				5674', then							ihouse is m	ation.
Vater In		840' fnl & 8	San Juan C		cord		Proposed	Csg cut off	ately 2,220		levable Cat			ed Mesavel		-		in 1960 to							a. The Cliff	communica
vert to V		Location: 1			Cement Re	150 sx	462 sx	25sx	@ approxim	-	/alent), Reti			Undesignat	0	Oil Produce		, reentered	:SWC	<b>.</b> 0	<b>.</b> 0			D	in the area	anticipate o
#1, Con					Hole Size		7 7/8"		, EUE, Set (		set (or equiv	o' KB		ion:	2276' - 247	 Vell:		30' in 1924	ugs as follo	5100' - 567	3350' - 350	450' - 650'	200' - 250'	Surface Plu	productive	we do not
Jones 3		es #1			Depth Set	225'	2600'	3425'	2 3/8", 4.7#	-	Baker Lok	Set @ 2,22		ool/Format	nterval:	urpose of V	_	Irilled to 14	Cement pl						Ind Coal is	w the Coal
		Well : Jone		Casing:	Size	10 3/4"	5 1/2"	7 5/8"	Tubing:		Packer:			Name of P	Injection Ir	<b>Original P</b>		Well was d							The Fruitla	1500' belo
	A.	1)		2)					3)		4)		ы	1)	2)	3)		4)							5)	

Merrion Oil & Gas Corporation Wellbore Schematic

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#### Jones No. 1

Current Wellbore Configuration



Ncte: Well drilled in 1960 by Southern Union Gas Co. Prior to that, Farmington Petroleum Syndicate drilled a shallow well (Love #1 to 1430') at the same spot in October, 1924.

# JWD 10/4/47 TAY RUG ALTER DRUG OUT

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SEP 2 4 1997

IN CASE OF A VICEO

# MERRION

Oil & Gas

September 23, 1997

Mr. Ben Stone New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe, NM 87505

RE: C-108 Injection Permit Application Jones #1 Section 22, T32N, R13W San Juan County, New Mexico

Dear Mr. Stone

Please find enclosed our Application for Authorization to inject into the subject well. We plan to enter the previously abandoned wellbore and convert it to a water disposal well. If you require additional information, please contact me at (505) 327-9801, ext. 126.

Sincerely

Connie Dinning, Contract Engineer

Well File xc: Frank Chavez, NMOCD, Aztec, NM BLM, Farmington District Burlington Resources, Farmington Lobo Production, Farmington Hallwood Production, Denver

# V. AREA MAP

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APPLICATION FOR AUTHORIZATION TO INJECT, SECTION VI

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njection	view		
ater Ir	of Rev		ormation.
ert to W	in Area	<b>Vell Data</b>	ne subject fo
1, Convi	lls Withi	٨	penetrate th
Joes #'	Wel		ea of review which I
			thin the ar
			There are no wells wi

	Jones #1, Convert to Water Injection								
	Onera	tional Data							
	opera								
	1)	Ave Rate:	1-1 5 BPM		Daily Rate		2000 hpd (	max)	·
	<u>''</u>				Duny Ruco	•			
<u> </u>	2)	Onen Svet	tem				<u> </u>		
<u> </u>	-)	open eye							
<u> </u>	3)	Ave Press		600 nsi	May Press		1000 psi		
	<u>•</u> ,			000 por	INUX I TOOG		1000 p3		
	<b>4</b> )	injection v	vater is pro	duced from	n Fruitland	Coal (Ana	lysis attact	1 2ed)	
	·/	injeonon i					iyolo uttuoi		
	5)	Formation	water sali	nity, gathe	red from B	urlington R	esources S	Study of Ry	l
	<u> </u>	values. In	this area t	he Mesave	rde Rw is 0	2 obms.	This transla	tes to abo	, t
		25 000 pp	m TDS						
		10,000 pp.		<u> </u>					<u> </u>
VIII	Geolo	gical Data							
-	00010	giour putu			+	<del>_</del>			
		Injection 7	one:	Mesaverde	) Cliffhouse	) 			
				incourci de		·/			
		Thickness	<u> _</u>	approx =	300'				
		THERICOS	/• 	approx			<u> </u>		
		Ton:	· · · · · · · · · · · · · · · · · · ·	2220'					
		100.		2220					
IX S	timul	ation Progr	i		<u></u>				
17. 0							<u> </u>		
		The well w	ill he fractur	ed with slic	k water and	50 000# of	20/40 sand	to	
		improve co	nductivity (		procedure a	and stimulat	tion plan are	attached)	
					procedure e				
Y I	oddin	and Test	Nata				<u>-</u>		
	<u>. aani</u>				······································				
├──-		All logs are	on file with	the OCD o	ffice in Azte	<u> </u>			
	· · · · ·								
YI 6	roch \	Nator Analy	veie						
	103111		7313				<u> </u>		
		Thora are r		ator zones	<10.000 pp	n in the are	a of roviow	oveent the f	ormation
		from which	the water is	aler zones					onnauon
YII	Faino	oring and (		view to Pr	otect Fresh	Wator			
<u>^  .</u>	Lyme					Walci			
Acco	ording	lo engineeri		logical revie	w there are		formations	in the area (	of review
helo	w the I	Mesaverde	which conta	in water wit	h < 10.000	nom TDS	The Fruitlan	n the area o	
relat		esh water (	about 2000	nom) but it	is 1500' ab	ove the Me	saverde an	d it is a proc	lucing
nas		There is no	reason to t	pelieve the i	niected wat	er would mi	arate back	in to the co	al zone
how	ever if	it did it wor	Id be return	ing to its pr	pint of origin	According	to logs in t	he area the	RW
of th		averde is st	$\frac{10}{10}$ $10$	ns this tran	slates to air	nost 25 000		There are	
dom	estic 14	ater welle i	n the gener	al area oute	side the are	a of review	These pro-	duce from s	hallow
agui	fere ar	d their wate	r character	istics are ei	milar to the	Fruitland co	al water A	nain there is	s no
reac	on to c	vnect com	nunication	101103 010 31				gan nore a	
reas		speci com	numeation.		L	<u> </u>			L

#### Merrion Oil & Gas Corporation Workover Procedure

September 11, 1997

Well:	Jones #1	Field:	Mesaverde
Location:	1840' fnl & 880' fel (se ne)	Elevation:	5,965' GL
	Sec. 22, T32N, R13W, NMPM		5,972' KB
	San Juan County, New Mexico	By:	Connie Dinning

#### Procedure: Prior to Move In

- 1. Set rig anchors.
- 2. Haul in 75 jts. of 5 1/2", 15.5#, J-55 production casing.
- 3. Haul in 72 jts. of 2 3/8" production tubing.
- 4. Dig small pit, 10' X 10'.
- 5. Weld flange onto surface casing stub to attach BOPs / wellhead.
- 6. Haul in 400 bbl frac tank and fill w/ produced water from the Powell Lease (may require several days' production)
- 7. Notify NMOCD of expected date for MIT.

#### **Drill out Plugs, Set Casing**

- 1. MIRU workover rig. NU BOPs and drill out cement plugs @ surface, surface casing shoe (225') and Fruitland Coal/PC (450'-650') with 7 7/8" bit. Note: *Drilling mud in hole below third plug*.
- 2. Clean out to 2600' KB, RU to run casing.
- 3. RIH w/ ±2600' of 5 1/2" casing, set shoe @ ±2600'.
- 4. Cement casing w/ 462sx (546 cf) Class B cement, circulate to surface. WOC.

#### Peforate Mesaverde and Test

- 1. RU Petro Wireline and perforate the following intervals w/ 4 jspf, .5" diameter: 2276' 82', 2290' 2300', 2315' 30', 2340' 51', 2354' 60', 2420' 70'.
- 2. RIH w/ 5 1/2" full bore Lok Set packer with on/off tool and profile nipple on 2 3/8" injection tubing.
- 3. Set packer @ 2220' KB.
- 4. RU Cementers Inc. to pump step rate test into the Cliffhouse formation at 1/2 bpm, 1 bpm, 1 1/2 bpm and 2 bpm. Pump each step 30 minutes or until pressure stabilizes. Record pressures and flowrates on chart recorder. Pump remaining water down tubing after test is complete.
- 5. Frac Cliffhouse w/ slick water and 50,000# 20/40 sand as per attached procedure.
- 6. Perform mechanical integrity test w/ NMOCD witness pressure up on casing / tubing annulus to 300 psi. Hold for 30 minutes. Record pressure with chart recorder.
- 7. Unset packer, circulate packer fluid. Set packer. RD Cementers Inc.
- 8. ND BOPs, NU WH. Put well on to injection.

Merrion Oil & Gas Corporation Wellbore Schematic

#### Jones No. 1

Proposed Wellbore Configuration



Note: Well drilled in 1960 by Southern Union Gas Co. Prior to that, Farmington Petroleum Syndicate drilled a shallow well (Love #1 to 1430') at the same spot in October, 1924.



Certificate of Analysis No. F2-9709053-01

WATER TO BE

INJECTED

Merrion Oil and Gas 610 Riely Farmington, NM 87401 ATTN: Connie Dining

DATE: 09/22/97

PROJECT: Farmington		PROJECT NO:	
SITE:		MATRIX:	WATER
SAMPLED BY:		DATE SAMPLED:	09/08/97
SAMPLE ID: Sample "P"	POWELL #1	DATE RECEIVED:	09/09/97

	ANALYTICAL DATA	
PARAMETER	RESULTS	DETECTION UNITS
Calcium, Total Method 215.2 * Analyzed by: VJ Date: 09/10/97	18	mg/L
Chloride Method 325.3 * Analyzed by: VJ Date: 09/17/97	150	mg/L
Carbonate, as CaCO3 Method SM 4500-CO2D ** Analyzed by: VJ Date: 09/18/97	Nil	mg/L
Bicarbonate, as CaCO3 Method SM 4500-CO2D ** Analyzed by: VJ Date: 09/18/97	1140	mg/L
Magnesium BY CALCULATION Analyzed by: VJ Date: 09/17/97	6.08	0.1 mg/L

NIL - Defined in COMMENTS below.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed. \*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. F2-9709053-01

Merrion Oil and Gas 610 Riely Farmington, NM 87401 ATTN: Connie Dining

DATE: 09/22/97

<b>PROJECT:</b> Farmington	PROJECT NO:	
SITE:	MATRIX:	WATER
SAMPLED BY:	DATE SAMPLED:	09/08/97
SAMPLE ID: Sample "P"	Douber the DATE RECEIVED:	09/09/97

	ANALYTICAL DATA		
PARAMETER	RESULTS	DETECTION	UNITS
pH Method 150.1 * Analyzed by: VJ Date: 09/10/97	8.21	DIMII	
Resistivity Method 120.1 * Analyzed by: VJ Date: 09/09/97	1.877		Mohms-cm
Sulfate Method 375.4 * Analyzed by: VJ Date: 09/11/97	6.30	1	mg/L
Specific Gravity ASTM D1429 Analyzed by: VJ Date: 09/16/97	1.003		g/cm3
Total Dissolved Solids Method CALCULATION Analyzed by: VJ Date: 09/18/97	. 1300	÷	mg/L

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed. \*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

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POWEL #1



Certificate of Analysis No. F2-9709053-01

Merrion Oil and Gas 610 Riely Farmington, NM 87401 ATTN: Connie Dining

DATE: 09/22/97

PROJECT: Farmington	PROJECT NO:
SITE:	MATRIX: WATER
SAMPLED BY:	DATE SAMPLED: 09/08/97
SAMPLE ID: Sample "P"	DATE RECEIVED: 09/09/97
POWELLA	

	ANALYTICAL DATA		
PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Potassium, Total Method 6010A *** Analyzed by: PS Date: 09/16/97	4	2	mg/L
Sodium, Total Method 6010A *** Analyzed by: PS Date: 09/16/97	421	0.5	mg/L
Benzene Method 8020A Analyzed by: HS Date: 09/13/97	ND	1.0	dqq
Ethylbenzene Method 8020A Analyzed by: HS Date: 09/13/97	ND	1.0	dqq

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed. \*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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Certificate of Analysis No. F2-9709053-01

Merrion Oil and Gas 610 Riely Farmington, NM 87401 ATTN: Connie Dining

DATE: 09/22/97

<b>PROJECT:</b> Farmington	PROJECT NO:	
SITE:	MATRIX:	WATER
SAMPLED BY:	DATE SAMPLED:	09/08/97
SAMPLE ID: Sample "P"	DATE RECEIVED:	09/09/97

POWELL #1

	ANALYTICA	L DATA			
PARAMETER	,		RESULTS	DETECTION LIMIT	UNITS
Toluene Method 8020A Analyzed by: Date:	HS 09/13/97		ND	1.0	ddđ
Total Xylene Method 8020A Analyzed by: Date:	HS 09/13/97		ND	1.0	ppb
Total Volatile Method 8020A Analyzed by: Date:	e Aromatic Hydrocarbons		ND		dqq

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed. \*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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WATER TO BE

INJECTED

FARMINGTON LABORATORY P.O. BOX 1289 FARMINGTON, NEW MEXICO 87499-1289 PHONE (505) 326-2588

Certificate of Analysis No. F2-9709053-02

Merrion Oil and Gas 610 Riely Farmington, NM 87401 ATTN: Connie Dining

DATE: 09/22/97

<b>PROJECT:</b> Farmington		PROJECT NO:	
SITE:		MATRIX:	WATER
SAMPLED BY:		DATE SAMPLED:	09/08/97
SAMPLE ID: Sample "H"	HANASU #	DATE RECEIVED:	09/09/97

	ANALYTICAL DATA		
PARAMETER	RESULTS	DETECTION	UNITS
Calcium, Total Method 215.2 * Analyzed by: VJ Date: 09/10/97	8.0		mg/L
Chloride Method 325.3 * Analyzed by: VJ Date: 09/17/97	275		mg/L
Carbonate, as CaCO3 Method SM 4500-CO2D ** Analyzed by: VJ Date: 09/18/97	Nil		mg/L
Bicarbonate, as CaCO3 Method SM 4500-CO2D ** Analyzed by: VJ Date: 09/18/97	1795		mg/L
Magnesium BY CALCULATION Analyzed by: VJ Date: 09/17/97	4.86	0.1	mg/L

NIL - Defined in COMMENTS below.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed. \*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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#### Certificate of Analysis No. F2-9709053-02

Merrion Oil and Gas 610 Riely Farmington, NM 87401 ATTN: Connie Dining

DATE: 09/22/97

PROJECT: Farmington	PROJECT NO:
SITE:	MATRIX: WATER
SAMPLED BY:	DATE SAMPLED: 09/08/97
SAMPLE ID: Sample "H"	<b>DATE RECEIVED:</b> 09/09/97

		ANALYTICAL DAT	'A		
PARAMETER			RESULTS	DETECTION	UNITS
pH Method 150.1 * Analyzed by: V Date: 0	7J 99/10/97		8.49	HTHT I	
Resistivity Method 120.1 * Analyzed by: V Date: 0	7J 19/09/97		3.47		Mohms-cm
Sulfate Method 375.4 * Analyzed by: V Date: 0	7J 9/11/97		4.26	1	mg/L
Specific Gravit ASTM D1429 Analyzed by: V Date: 0	У Ј 9/16/97		1.004		g/cm3
Total Dissolved Method CALCULA Analyzed by: V Date: 0	Solids TION J 9/17/97		2230	:	mg/L

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed. \*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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#### Certificate of Analysis No. F2-9709053-02

Merrion Oil and Gas 610 Riely Farmington, NM 87401 ATTN: Connie Dining

DATE: 09/22/97

	PROJECT NO:	
	MATRIX:	WATER
	DATE SAMPLED:	09/08/97
HAVASN#1	DATE RECEIVED:	09/09/97
	Havasn#1	PROJECT NO: MATRIX: DATE SAMPLED: DATE RECEIVED:

		ANALYTICAL	DATA			
PARAMETER				RESULTS	DETECTION LIMIT	UNITS
Potassium, Tot Method 6010A Analyzed by: Date:	al *** PS 09/16/97			3	2	mg/L
Sodium, Total Method 6010A Analyzed by: Date:	*** PS 09/16/97			812	5	mg/L
Benzene Method 8020A Analyzed by: Date:	HS 09/14/97			ND	5.0	dqq
Ethylbenzene Method 8020A Analyzed by: Date:	HS 09/14/97			ND	5.0	dqq

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed. \*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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#### Certificate of Analysis No. F2-9709053-02

Merrion Oil and Gas 610 Riely Farmington, NM 87401 ATTN: Connie Dining

DATE: 09/22/97

<b>PROJECT:</b> Farmington	PROJECT NO	:
SITE:	MATRIX	: WATER
SAMPLED BY:	DATE SAMPLED	: 09/08/97
SAMPLE ID: Sample "H"	Havasuti	: 09/09/97

		ANALYTICAL	DATA			
PARAMETER		-		RESULTS	DETECTION LIMIT	UNITS
Toluene Method 8020A Analyzed by: Date:	HS 09/14/97			ND	5.0	dđđ
Total Xylene Method 8020A Analyzed by: Date:	HS 09/14/97			ND	5.0	dqq
Total Volatile Method 8020A Analyzed by: Date:	e Aromatic	Hydrocarbons		ND		ddđ

ND - Not detected.

Notes: \*Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA \*\*Ref: Standard Methods for Examination of Water & Wastewater, 18th ed. \*\*\*Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

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# XI. MAP OF WATER WELLS AND WATER ANALYSES



CDS Labo 75 Suttl PO Box 2	ratori <mark>es</mark> e Street 605	s ter Mentals - Michaelse		Phone: Fax :	(970)-247-4220 (970)-247-4227	•
Durango,	CO 81302		a (2)) 28,848 83 94 94 94 94 94 94 94 94 94 94 94 94 94	Report	Date: 09/04	/97
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CDS Labo	ratories Street	ष् . भ	hone:(970)-247- ax :(970)-247-	4220
PO Box 2	\$05 CC 81302	North Control of the second se	eport Date: 0	9/04/97
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CDS Labor 75 Suttle PO Box 20	ratories 2 Street 505	Phone: Fax :	(970)-247-422 (970)-247-422	0 7
Durango,	CO 81302	Report Date: 09/04/97		
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CDS Labor 75 Suttle	satories Street		Pho Fax	one:(970)+2 (970)-2	!47-4220 !47-4227	
Durango, CO 81302		alah 🤏 maran liniki menjuken k	Report Date: " * 09/04/97"		18 1. mt 1	
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Approved B	: Cynthia Pna	<u></u>	_Checked By:	?	· ·	
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Oil & Gas

September 22, 1997

Burlington Resources P.O. Box 4289 Farmington, NM 87499

RE: C-108 Injection Permit Application Jones #1 Section 22, T32N, R13W San Juan County, New Mexico

Gentlemen

We are planning to convert the subject wellbore to a water injection well in the Mesaverde formation to dispose of produced water from the Fruitland Coal formation. Attached is a copy of the state permit application.

The well is located adjacent to your lease or leases in the location listed above. We are therefore required by the state to notify you of our plans. Objections or requests for hearing should be filed within 30 days to:

NM Oil Conservation Commission 2040 S. Pacheco Santa Fe, NM 87501

If you require additional information, please contact me at (505) 327-9801, ext. 126.

Sincerely

Connie Dinning, Contract Engineer

xc: Unit File Crystal Williams Ben Stone, NMOCD, Santa Fe

Oil & Gas

September 22, 1997

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Hallwood Petroleum Inc. P.O. Box 378111 Denver, CO 80237

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Connie Dinning, Contract Engineer

xc: Unit File Crystal Williams Ben Stone, NMOCD, Santa Fe

Oil & Gas

September 22, 1997

Lobo Production Inc. 555 E. Main Farmington, NM 87402

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Sincerely

Connie Dinning, Contract Engineer

xc: Unit File Crystal Williams Ben Stone, NMOCD, Santa Fe

Oil & Gas

September 22, 1997

Thompson Engineering & Production 7415 E. Main Farmington, NM 87402

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If you require additional information, please contact me at (505) 327-9801, ext. 126.

Sincerely

Connie Dinning, Contract Engineer

xc: Unit File Crystal Williams Ben Stone, NMOCD, Santa Fe

#### AFFIDAVIT OF PUBLICATION

No. 38527

#### STATE OF NEW MEXICO County of San Juan:

**DENISE H. HENSON** being duly sworn says: That she is the Classified Manager of THE DAILY TIMES, a daily newspaper of general circulation published in English at Farmington, said county and state, and that the hereto attached Legal Notice was published in a regular and entire issue of the said DAILY TIMES, a daily newspaper duly qualified for the purpose within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Monday, September 22, 1997;

and the cost of publication is: \$19.99

Hence I <u>.</u> A

On 9-23-97 DENISE H. HENSON appeared before me, whom I know personally to be the person who signed the above document.

Roop no Car

My Commission Expires November 1, 2000

COPY OF PUBLICATION



Merrion Oil & Gas 610 Reilly Avenue Farmington, NM 87401 Alte: Connic Dinning - 19334

Merrion Oil & Gas proposes to re-enter a previously plugged and abandoned wellbere and convert it to a water injection well to disposes of produced water from the Fruitland Coal formation.

Injection Well Location: 1850' fnl & 880' fel, Section 22, T32N, F13W, San Juan County, New Mexico Injection Formation: Mesa-

verde Depth of Injection zone: 2220' Maximum Pressure: 1000 psi. Maximum Rate: 2000 bpd Interested parties must file objections or request for hearing with the Oil Conservation Division, 2040 S: Pacheco St., Santa Fe, New Mexico 87505 within 15 days of this notice.

Legel No. 38527 published in The Daily Times, Farmington, New Maxico, on Monday, September 22, 1997.

	Z 73L 891 902 Receipt for Certified Mail No Insurance Coverage Provided Do not use for International Mail	UNITED STATES POSTAL SERVICE
	(See Reverse) Sent to Thompson Engineering & Produc Street and No. 7415 East Main	Sent to Hallw Street and N P. O.
	P.O., State and ZIP Code Farmington, New Mexico 87402 Postage	P.O., State Denve Postage
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PS Form	Jones #1	

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