## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

FURM C-108 Revised 7-1-81

POST OFFICE BOX 20HB STATE LAND OFFICE BUILDING BANTA FE NEW/MERICO 87501

flush#1

F-2-26N-13W

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ı.	Purpose: Applic	Seco ation qua	ndary Recov lifies for	ery Property al	ressure Mai tive approv	intenance val? XXye	∭ Diconaal s ∏nu	☐ Storag
				•				

II. Operator: Merrion Oil & Gas Corporation

Address: 610 Reilly Avenue, Farmington, NM 87401

Contact party: Connie Dinning Phone: 327-9801 x 126

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 no NA 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.

 $\widehat{\mathcal{VFPP}}$  Attach data on the proposed operation, including:

Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed;

Proposed average and maximum injection pressure;

Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).

Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological 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 source known to be immediately underlying the

- 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 source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

JUN 2000

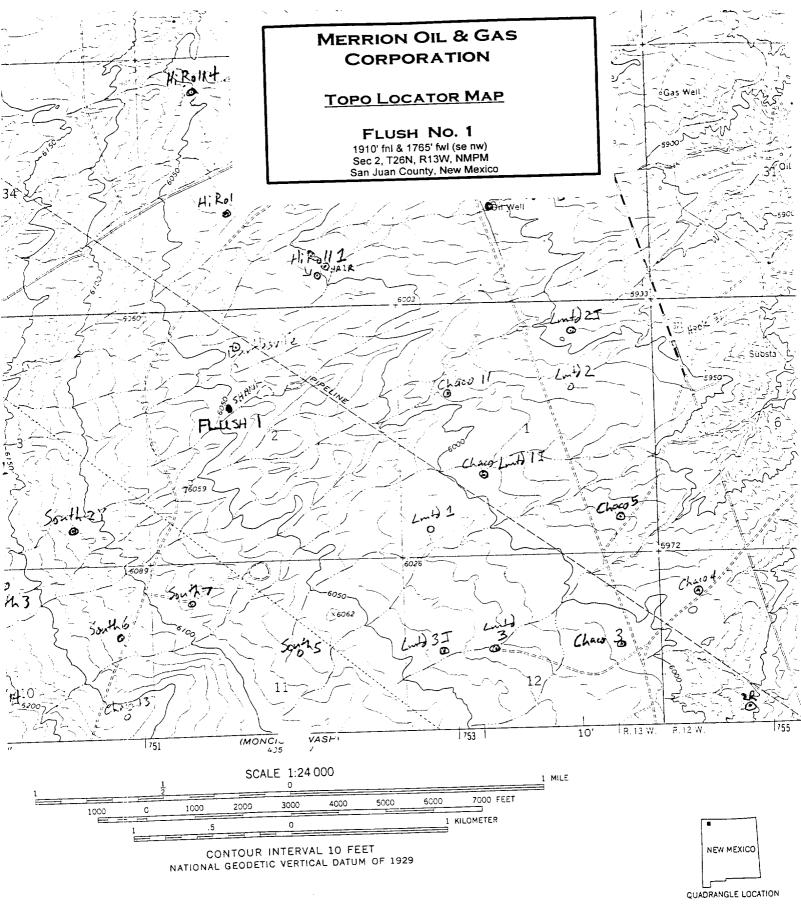
RECEIVED

OIL CON. DIV

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name:	Connie/\$.	Dipning	 Title	Engineer	
Signat	ure:(/	5.)	Date:	June 1	, 2000

 If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

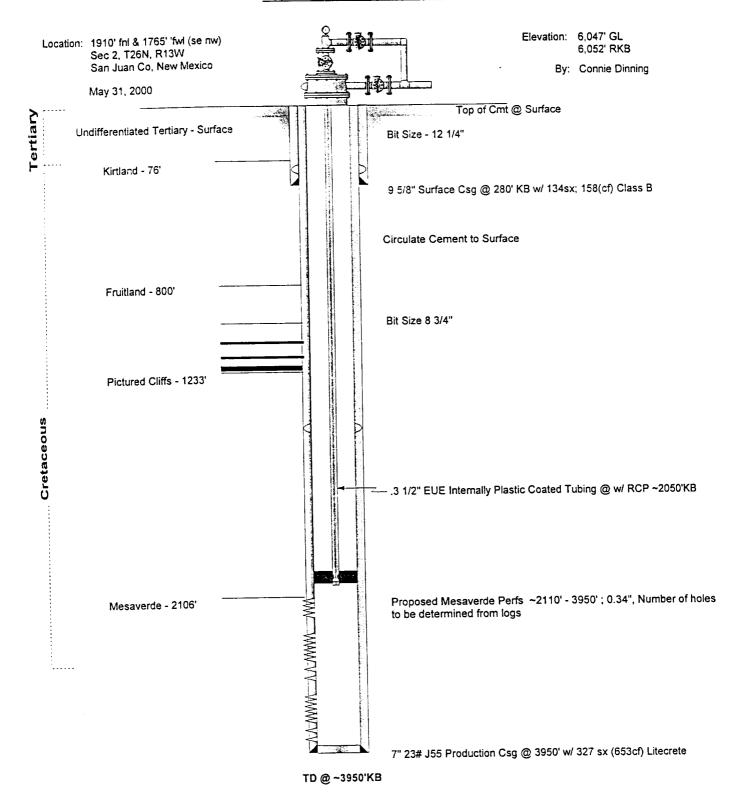
		Flus	h No. 1,	New Dr	III, Sait	Water D	ishos	ai vveii	:	
11.	Well	Data				_			<del>-</del>	
١.								TOOL	D40\A/	
	1)	Well: Flus	sh #1		Location:			Sec 2, T26N	, R13VV	
	· -					San Juan (	County, N	ew Mexico	-	
	2)	Casing:					 		<u> </u>	
		Size	Depth Set	Hole Size	Cement	TOC			<u> </u>	
		10 3/4"	280'	12 1/4"	88 sx	Circulate		:		
		7"		8 7/8"	491 sx	Circulate				
		<u> </u>			-				<u> </u>	
	3)	Tubing:	3 1/2", 9.3	#, EUE, Set	@ approxi	mately 2,000	O' KB, plas	stic lined		
		1423								
	4)	Packer:	Baker Lok Set (or equivalent), Retrievable Casing Packer							
			Set @ approximately 2,000' KB							
		ļ	500 6 577	<u> </u>	<u> </u>			:		
 B.		<del> </del>		-			:			
D. —	1)	Name of F	Pool/Forma	tion:	Undesign	ated Mesave	erde			
	. 1)	Name of 1								
	2)	Injection	nterval:	2110' - 39	00', perfora	00', perforated w/ 0.34" shots, to be chosen after logg				
	<u> </u>	Hijection	T		<u> </u>	- <del></del>				
	<u> </u>	Original B	urpose of	Well:	New Drill	as SWD				
	3)	Original	urpose or	¥¥611.	11011 151111		-		-	
				o in the we	<u> </u>		<del> </del>			
	4)	No otner	perioration	s in the we	711		<del></del>			
	:		land Caal!	a producti	o in the s	rea. The Me	saverde	is about		
	5)	The Fruit	and Coal I	cation T	here are	-				
		1000' below the Coal we do not anticipate communication. There are								
		a few Gallup producers to the northeast, but the Gallup is about 1000' below the injection interval and we do not anticipate communication.								
		injection	interval an	d we do no	t anticipa	te communi	Callon.	1		

# Merrion Oil & Gas Corporation

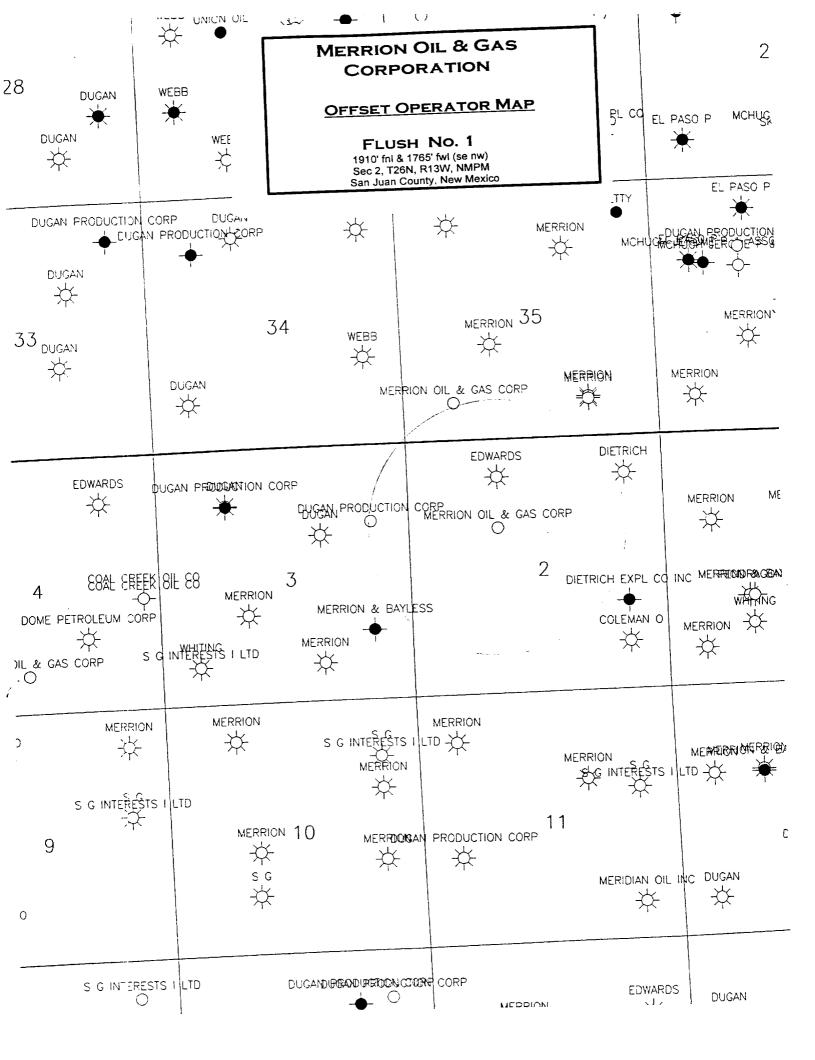
### Wellbore Schematic

Flush No. 1, SWD

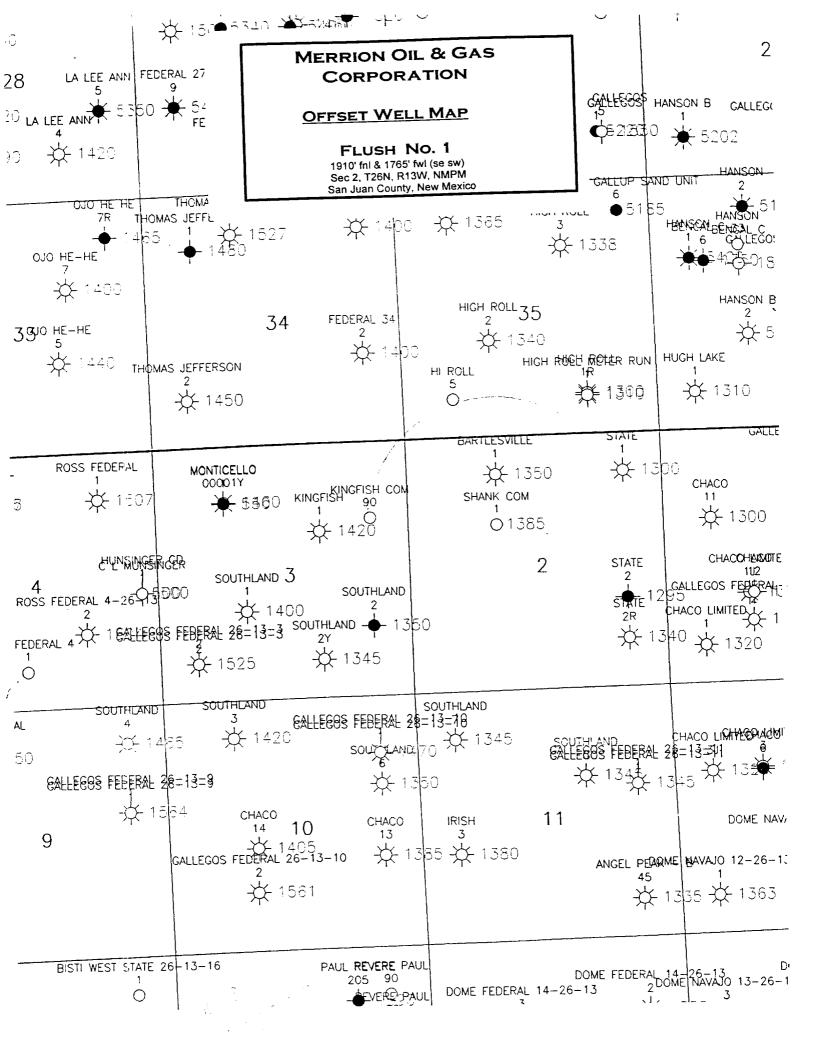
Proposed Wellbore Configuration



Flush No. 1, New Drill, Salt Water Disposal Well							
We	ells Within Area of	Notification					
The three well listed	d below are within a one hal	f mile radius of the subject well.					
Copies of to	his permit application will be	sent to these operators.					
These three v	vells do not penetrate the pr	oposed injection formation.					
Well Name	Operator	TD					
Bartlesville No.1	J.K Edwards	1350'					
Shank Com No. 1	Merrion Oil & Gas	1385'					
Onank Control							
Kingfish Com No. 1	Dugan Production	1420'					
Note: This well i	s permitted, but has not bee	n drilled to date.					



Flush No. 1, New Drill, Salt Water Disposal Well								
Wells Within Area of Review								
			<u> </u>					
Well Data								
	within the area of review v							



Oper	ational Data			-				
				Daily Rate:		4000 bpd	(may)	
1)	Ave Rate:	2.75 - 3 BP	IVI	Daily Rate.	A.J	4000 bpa	(IIIax)	i
2)	Open Syst	em						
						2000:		
3)	Ave. Press	sure:	1800 psi	Max Press	ure:	2000 psi	<u> </u>	
4)	Injection v	vater is pro	duced fror	n Fruitland	Coal (Ana	lysis attac	hed)	
5)	Formation	water sali	nity, gathe	red from Bu	rlington F	Resources	Study of F	RW
			ne Mesave	rde Rw is 0	.z onms.	I IIIS LI AIIS	ates to an	- Cut
	25,000 pp	m IUS.						
ll Geo	logical Data							
			Mesaverde					
	Injection 2	Zone:	IVIESAVEIU	<del>-</del>				
	Thickness	:	approx. =	1800'				
	Тор:		+/- 2106' H	(B			<del></del>	-
		<u></u>	! 	<u> </u>		-		
. Stim	ulation Prog		<u> </u>			200# 600		
	The well w	rill be fractu	red with slic	k water and	about 100	,UUU# OT ZU	igned after	drilling)
	improve co	onductivity.	(completion	procedure/	Surruration	Will be dea	igned alter	urming)
Logg	ing and Test	Data	ļ					
. Logg				OCD office i	n Aztec			
	Comma P	ogs are on	and Induc	OCD office ition logs will	be run to l	ocate the ir	njection zor	ne.
<del></del>	Gamman	ay, r orosit	Tana maao	uon logo			<u> </u>	
I. Fres	h Water Ana	lysis						
	There are	no known v	water zones	<10,000 pp	m in the ar	ea of revie	w except th	e formatio
	from whic	h the water	is produced	i.				
	ineering and							
ccordi	ng to enginee	ring and ge	ological rev	iew, there a	e no know	n formation	s in the are	ea of reviev
Alow th	a Mesaverde	which con	tain water w	ith < 10,000	ppm TDS.	The Fruit	and Coal p	roduces
ater th	at has a TDS	of about 20	.mag 0000	lt is 1000' al	ove the M	esaverde, a	and it is a p	roducing
as zor	e. There is ner if it did, it wo	o reason to	believe the	injected wa	ter would r	nigrate bac	the area	the Rw
	e if it did it we	ould be retu	rnina to its i	point of origin	most 25,00	ng to logs i	n uio aica,	TILO I VAA

#### AFFIDAVIT OF PUBLICATION

Ad No. 42814

# STATE OF NEW MEXICO County of San Juan:

ALETHIA ROTHLISBERGER, 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 meeting of Chapter 167 of the 1937 Session Laws of the State of New Mexico for publication on the following day(s):

Sunday, May 21, 2000

ON ALETHIA ROTHLISBERGER appeared before me, whom I know personally to be the person who signed the above

and the cost of the publication is: \$22.72

document.

My Commission Expires April 10, 2004

#### COPY OF PUBLICATION

# 918 Legals PUBLIC NOTICE

Merrion Oil & Gas 610 Reilly Avenue Farmington, NM 87401 Attention: Connie Dinning

Merrion Oil & Gas proposes to drill a new water injection well to dispose of produced water from the Fruitland Coal formation.

Injection Well Location: 1910' fnl & 1770' fwl, Section 2, T26N, R13W, San Juan County, New Mexico

Injection Formation:
Mesaverde
Depth of Injection Zone:
3815'
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.

Legal No. 42814 published in the Daily Times, Farmington, New Mexico, Sunday, May 21, 2000.