STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

V*V

of the earlier submittal.

OIL CONSERVATION DIVISION

POST OFFICE BOX 2016 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 875U1

FORM C-108 Revised 7-1-81

I.	Purpose:				Press Distrative			Х уе:		1 Storage	
11.	Operator:	•			_		-	<i>3</i>			
	Address:						87401				_
•	Contact pa							ne:	327-9801	x 126	_
III.	Well data:									for each well if necessary.	
· IV.	Is this ar If yes, gi	expans	ion of an Division	n existir order nu	ng project umber auth	? [yes the pro	XX Jec	no NA		_•
, v.	Attach a m	nap that well wi	identif. th a one	ies all w -half mil	vells and le radius	leases circle	within t drawn ar	.wo 1	miles of a	ny proposed posed injection	
⊷∕vi.	penetrate	the property	posed in truction	jection z , date dr	zone. Suc cilled, lo	ch data scation,	shall in depth,	rec	de a descr ord of com	ea of review wh iption of each pletion, and	ich
√vII.	Attach dat	a on th	e propos	ed operat	cion, incl	luding:			J N Z 3	المحالك المحالك	
	2. Wh 3. Pr 4. Sc	nether to coposed ources a the rectinject at or we the dis	he systema average average and an apperion for is for is for its for its possal zone and and apperion apperion and apperion and apperion a	m is oper and maxim propriate or mation or dispose mile of ne format	n or close num inject e analysis if other sal purpos f the prop	ed; tion pre s of inj than re ses into cosed we t (may b	ssure; ection f injected a zone ll, atta e measur	lui pri not	d and comp oduced wat productiv a chemical	atibility with er; and e of oil or gas analysis of d from existing	
·VIII.	detail, ge bottom of total diss	eologica all und solved s zone as	l name, erground olids com well as	thickness sources ncentrati	s, and dep of drinki ions of 10	oth. Gi ing wate 0,000 mg	ve the g r (aquif /l or le	eol ers ss)	ogic name, containin	opriate litholo and depth to g waters with the proposed lying the	gio
IX.	Describe t	he prop	osed sti	mulation	program,	if any.					
· x.	Attach app with the D						11. (If	we	ll logs ha	ve been filed	
· XI.		and pro	ducing)	within or	ne mile of	f any in			esh water disposal w	wells (if ell showing	
XII.	examined a	availabl ner hydr	e geolog ologic c	ic and er onnection	ngineering	g data a	nd find	no	ent that t evidence o and any un	f open faults	
XIII.	Applicants	s must c	omplete	the "Pro	of of Noti	ice" sec	tion on	the	reverse s	ide of this for	m.
XIV.	Certificat	ion									
	I hereby of to the bes	st of my	knowled	ge and be	tion submi	itted wi	th this			s true and corr	ect
	Signature	77	7				Date:			2000	

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) 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 rame.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of dement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zore in the area of the well, if any.

XIV. PROOF OF NOTICE

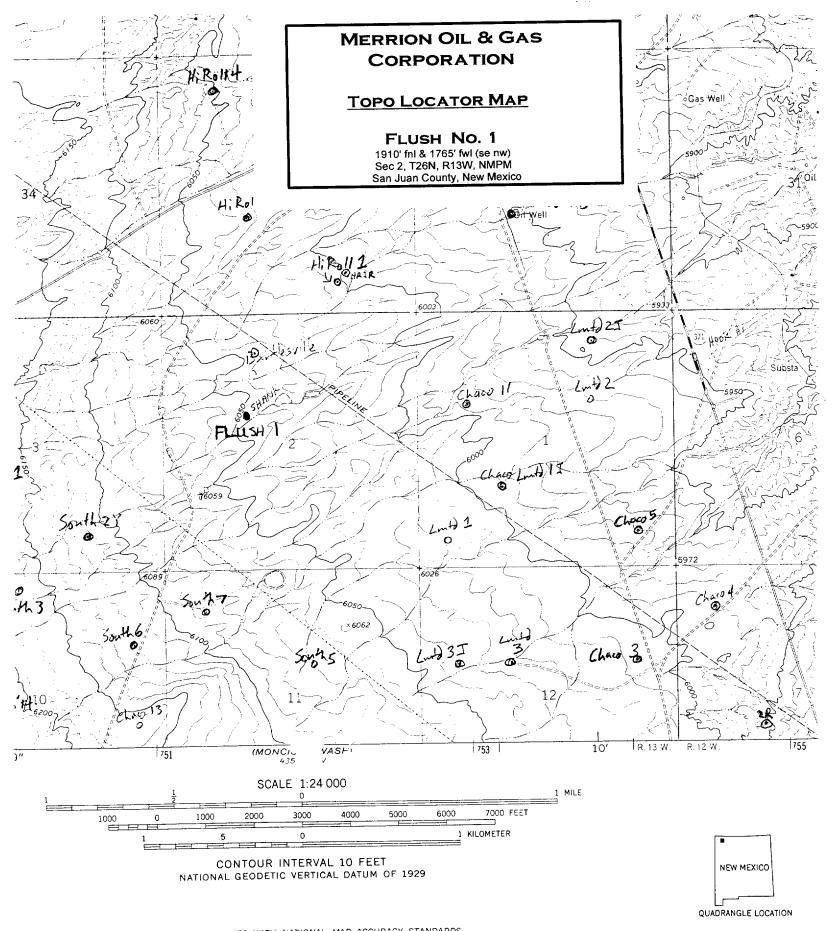
All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

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) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of sing e wells 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) a 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 days.

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 rearing of administrative applications within 15 days from the date this application was mailed to them.



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

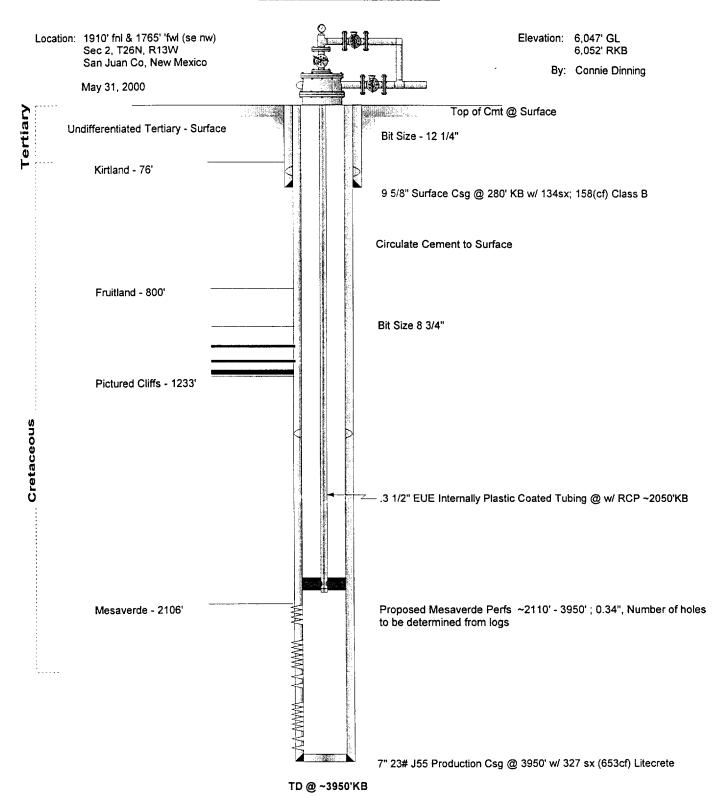
	Flus	h No. 1,	New Di	rill, Salt	Water E	Disposal	Well			
II. We	ell Data									
١.			1				<u>!</u>	!		
1)	Well: Flus	sh #1		Location:	1910' fnl &	1765' fwl, S	ec 2, T26N	, R13W		
<i>:</i>					San Juan County, New Mexico					
2)	Casing:									
	Size	Depth Set	Hole Size	Cement	TOC					
, , , , , , , , , , , , , , , , , , , ,	10 3/4"	280'	12 1/4"	88 sx	Circulate					
	7"	3950'	8 7/8"	491 sx	Circulate					
3)	Tubing:	3 1/2", 9.3	, EUE, Set	@ approxir	nately 2,000	D' KB, plasti	c lined			
4)	Packer:	cker: Baker Lok Set (or equivalent), Retrievable Casing Packer								
		Set @ app	roximately 2	2,000' KB						
•										
1)	Name of Pool/Formation:			Undesigna	ted Mesave	erde				
2)	Injection I	Injection Interval: 2110' - 390			0', perforated w/ 0.34" shots, to be chosen after logging					
3)	Original P	urpose of \	Well:	New Drill a	s SWD					
4)	No other p	No other perforations in the wel								
5)	The Fruitland Coal is productive in the area. The Mesaverde is about									
	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.									

Merrion Oil & Gas Corporation

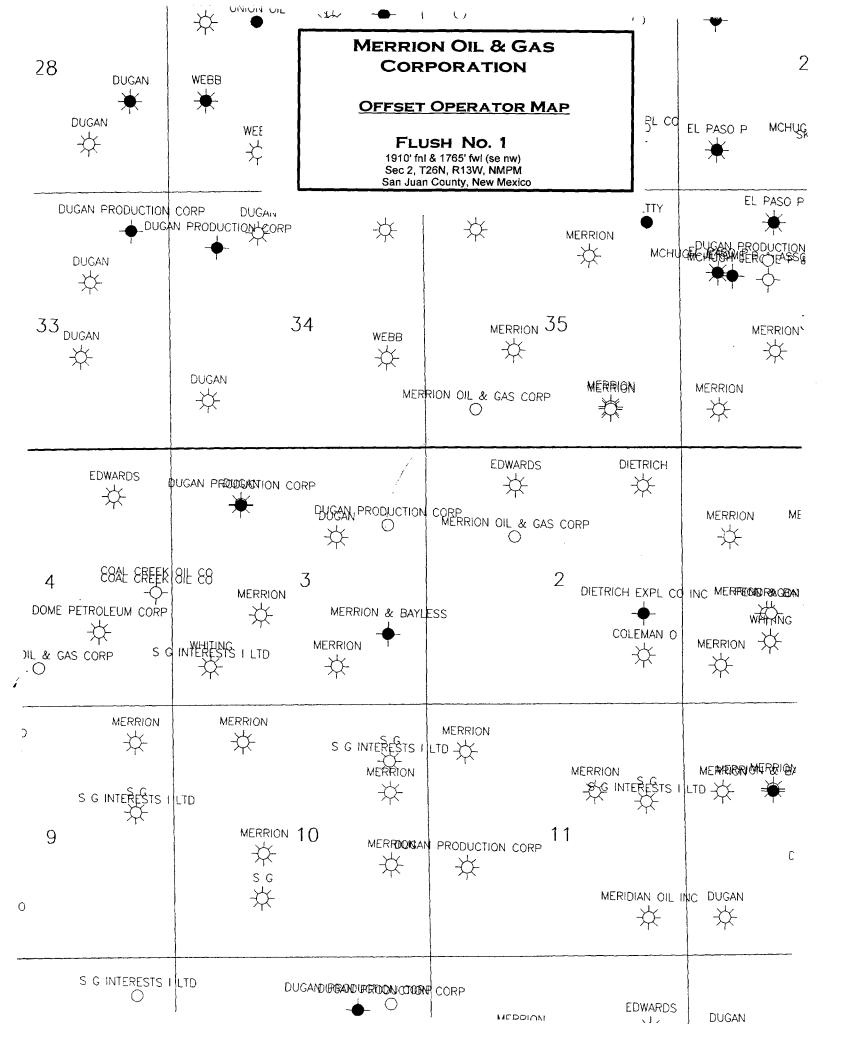
Wellbore Schematic

Flush No. 1, SWD

Proposed Wellbore Configuration

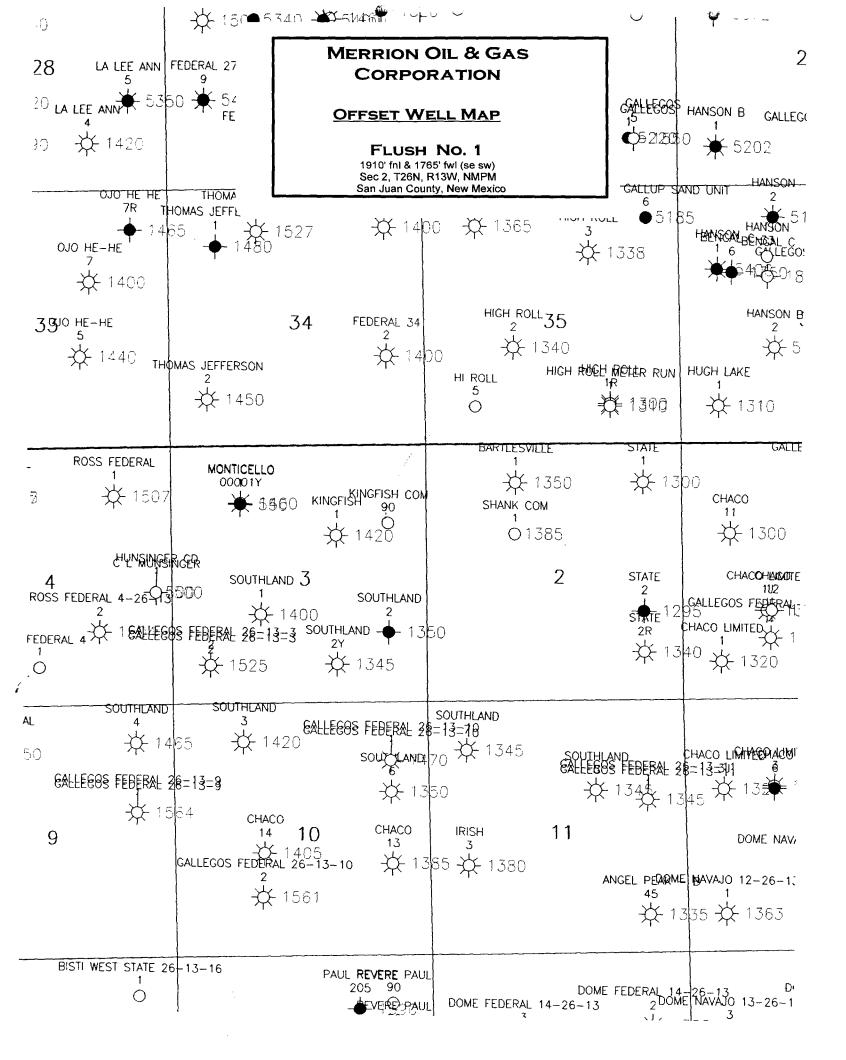


Flush No. 1, New Drill, Salt Water Disposal Well							
ells Within Area of N	otification						
d below are within a one half m	ile radius of the subject well.						
his permit application will be se	nt to these operators.						
vells do not penetrate the propo	osed injection formation.						
Operator	TD						
J.K Edwards	1350'						
Merrion Oil & Gas	1385'						
Dugan Production	1420'						
	ells Within Area of North description of the low are within a one half much be servells do not penetrate the property of the lowest servel. Operator J.K Edwards Merrion Oil & Gas						



APPLICATION FOR AUTHORIZATION TO INJECT, SECTION VI

Flush No. 1, New Drill, Salt Water Disposal Well								
	Wells Within Area of Review							
Well Data								
		of review which penetrate the su						



VII. Opera	ntional Data									
1)	Ave Detec									
	Ave Rate:	2.75 - 3 BF	PM	Daily Rate		4000 bpd (max)			
2)	Open Syst	em								
3)	Ave. Press	ure:	1800 psi	Max Press	ure:	2000 psi				
4)	Injection w	ater is pro	duced fror	n Fruitland	Coal (Ana	lysis attach	ned)			
5)	Formation water salinity, gathered from Burlington Resources Study of Rw values. In this area the Mesaverde Rw is 0.2 ohms. This translates to about									
	25,000 ppn		ne Mesave	rde RW IS 0	.2 ohms.	This transla	ites to abou	ut		
VIII. Geol	ogical Data									
	Injection Z	one:	Mesaverde							
	Thickness		approx. = 1	800'						
	Тор:		+/- 2106' K	В						
IX. Stimu	ation Progra	am								
	The well wi									
	improve co	nductivity. (completion	procedure/s	stimulation v	will be desig	ned after dr	illing)		
X. Loggin	g and Test I	Data								
	All offset log	gs are on fil	le with the 0	l DCD office i	n Aztec					
	Gamma Ra	y, Porosity	and Inducti	on logs will	be run to lo	cate the inje	ection zone.			
XI. Fresh	Water Analy	/sis								
	There are n				n in the are	a of review	except the f	ormation		
			•							
XII. Egine	eering and G	Seology Re	view to Pr	otect Fresh	Water					
	to engineeri									
	Mesaverde v									
	has a TDS c									
	There is no									
	f it did, it wou saverde is ab									
	water wells in							IU .		

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):

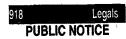
Sunday, May 21, 2000

And the cost of the publication is: \$22.72

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

My Commission Expires April 10, 2004

COPY OF PUBLICATION



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.



MERRION

Oil & Gas

July 13, 2000

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

RE: C-108 Injection Permit Application

Flush No. 1

Section 2, T26N, R13W

San Juan County, New Mexico

Dear Mr. Stone

Please find enclosed the return receipts from the mailings of copies of our Application for Authorization to inject into the subject well. These were mailed to offset operators and the State Land Office (as surface owner). If you need anything further, please contact me at (505) 327-9801 ext. 126.

Sincerely

Connie Dinning, Engineer

xc: Well File

PS Form 3811

December 1994

102595-99-B-0223 Domestic Return Receipt