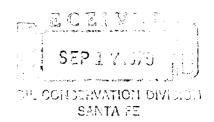
J. GREGORY MERRION PETROLEUM ENGINEER

P. O. BOX 507

FARMINGTON, NEW MEXICO 87401

September 11, 1979

State of New Mexico Energy and Minerals Department Oil Conservation Division 1000 Rio Brazos Aztec, NM 87410



Gentlemen:

Enclosed please find our application for approval of salt water disposal into the subsurface reflecting a change of plans.

We propose to change the injection zone from the Gallup to the Cliffhouse Mesa Verde at 2490-2520 feet. Cement will be squeezed across this zone as instructed by the District Engineer.

If further information is required, please advise.

Yours truly,

MERRION & BAYLESS

SIEAEM S: D

SSD/pb

Enclosure



CHANGE OF PLANS

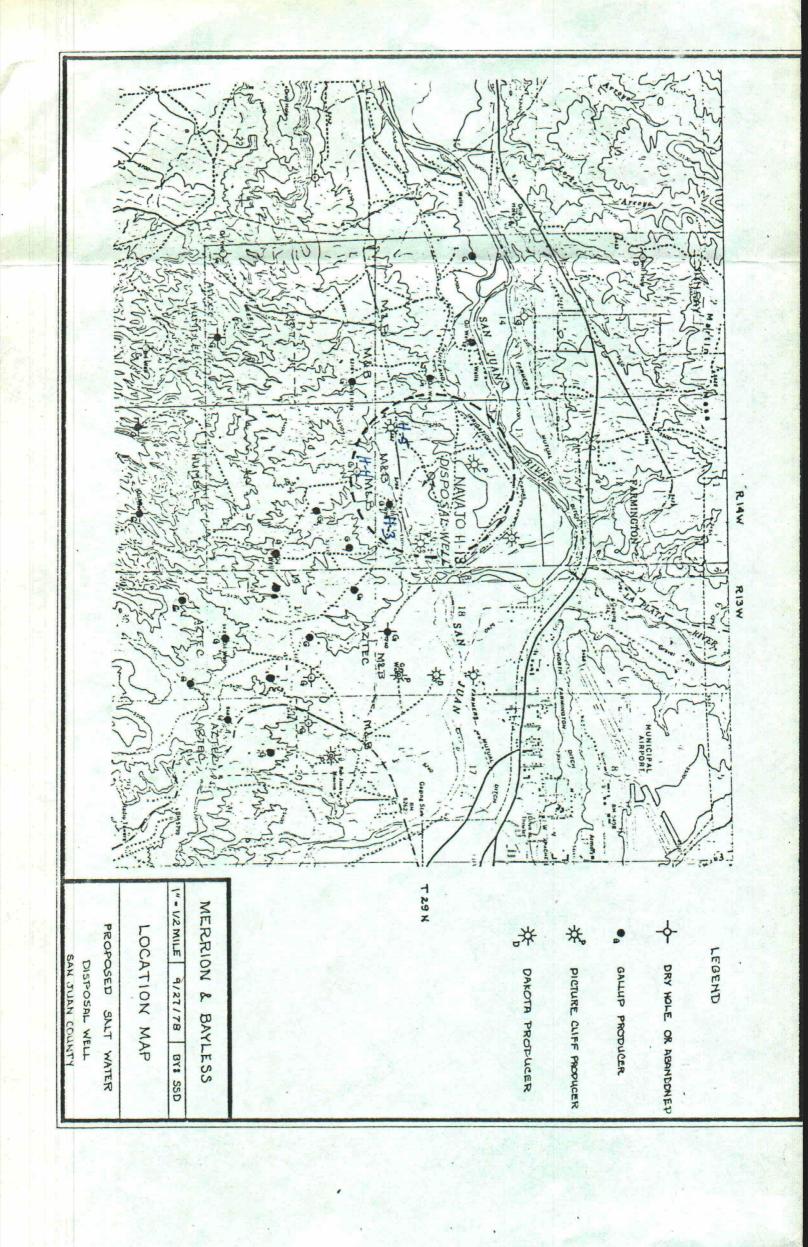
Form C-108 Rewised 1-1-655

NEW MEXICO OIL CONSERVATION COMMISSION

						ί,,,	Japanese	10
OPERATOR			ADDRESS			71	COMSTRVATION D	1909ea
J. Gregory Merrion	and Robert	L. Bayless		30x 507,	Farmingto	n, NM	0 / 3 Q 2 / A - -	11VI 31:
			FIELD				COUNTY	
Navajo H		13	Totah	Gallup			San Juan	
	**	7.0	222	_				
UNIT LETTER	K; w	ELL IS LOCATED 18	30 FEET	FROM THES	outh .	NE AND	1830 FEET FR	OM THE
West Line, section	13 10	2001	1 /	17.7				
West Line, section	13 10	WNSHIP 29N	RANGE 14	₩ NMI	РМ.			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEM		TOP OF CEME	NT	TOP DETERMINED	BY
SURFACE CASING								
	8-5/8	204'	180		Surface		Circulated	
INTERMEDIATE							OTTOGETHE .	
	none					i		
LONG STRING								
	4-1/2	5138	200		4140		Calculated	
TUBING			NAME, MODEL AND	DEPTH OF TUB	ING PACKER			
NAME OF PROPOSED INJECTION FORMA	2-3/8		Baker mod	<u>lel A Ten</u>	sion Pack			
	TION		TOP OF FO	RMATION		воттом	OF FORMATION	
Cliffhouse	IG. OR ANNULUS?	PERFORATION	S OR OPEN HOLE?	2490	BVAL (S) OF INTE		2520	
		_						
Plastic lined tubin	IF ANSWER I	Perfor	CATIONS (2490-25	20	HAS WEL	L EVER BEEN PERFORATED	IN ANY
	Callum	Oil Droduct	ion			ZONE OTE	HER THAN THE PROPOSED E?	INJEC-
NO LIST ALL SUCH PERFORATED INTERVA	LS AND SACKS OF C	Oil Product	LON Off or squeeze ea	сн		Gallu	10 4990-4997	
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA		DEPTH OF BOTTOM O			DEPTH OF TO	OF NEXT	LOWER	
Surface Alluvium -	100'	i	Cliffs - 1	'00'	Pt. Loc			
ANTICIPATED DAILY MINIMUM	MAXIMUM		SED TYPE SYSTEM	IS INJECTION PRESSURE?	N TO BE BY GRA		APPROX. PRESSURE (PS	1)
(BBLS.) 50	500	Clos	eđ	1 _ `	quired		less than 50	20
ANSWER YES OR NO WHETHER THE FO ERALIZED TO SUCH A DEGREE AS TO E	E UNFIT FOR DOME:	RE MIN- WATER	R TO BE DISPOSED C		ATER IN DISPO-	ARE WAT	ER ANALYSES ATTACHED?	
STOCK, IRRIGATION, OR OTHER GENER			Yes	Yes		No		
NAME AND ADDRESS OF SURFACE OWN	ER (OR LESSEE, IF	STATE OR FEDERAL LA	ND)					
Navajo Tribe, Windo	w Rock, Ari	zona, ATTN;	Minerals	Supervis	or			
LIST NAMES AND ADDRESSES OF ALL		-						
J. Gregory Merrion	and Robert	<u>L. Bayless a</u>	re only ope	rators w	<u>ithin 1/2</u>	<u>mile</u>	of this	
inication	* 1 1			77-1	1 - 1 - 1 -		1	
<u>injection well (see</u>	Location M	ap). Other	information	ı: water	to be in	jected	i is produced	
from the Pictured C	liffe and M	loga Vordo Fo	rmations					
Trom the Fictured C	TITIS and h	esa verue ro	Illactors.					
							,	
			<u> </u>					
HAVE COPIES OF THIS APPLICATION B SENT TO EACH OF THE FOLLOWING?	EEN SURFACE OW	NER	EACH OPER	ATOR WITHIN OF	E-HALF MILE	THE NEW	MEXICO STATE ENGINEER	
	1	Yes	1	Yes		! !	Yes	
ARE THE FOLLOWING ITEMS ATTACHED THIS APPLICATION (SEE RULE 701-B)	TO PLAT OF ARE	A	ELECTRICA	L LOG		DIAGRAMI	MATIC SKETCH OF WELL	
		Yes		Yes		! !	Yes	
I hereby co	ertify that the in	formation above is	true and comple	te to the bes	t of my knowl	edge and	belief.	
4	1 //		_			_	2/12/	
(Signature)	1. sem		ENGINER (Title)	EK			1/10/19	
/ /Nianature)			(11+10)					

NOTE: Should waivers from the State Engineer, the surface owher, and all operators within one-half mile of the proposed injection well.

not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days
from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing,
if the applicant so requests. SEE RULE 701.



NAVAJO N-13 1830 FSL & 1830 FWL Sec. 13, T19N, R14W San Juan County

MERRION-BAYLESS

none
9-27-78
Wellbore Diagram

- 5261 G.L.

8-5/8" @ 204 12-1/4" hole

Model 'A' tension packer @ 2480 w/ 2-3/8" plastic lined tubing

Top of injection zone 2490' Cliffhouse-Mesa Verde 2490-2520'

Place cement across Cliffhouse and squeeze per instructions from District Engineer when hole in casing located.

Top of Cement 4140 ft. Calculated

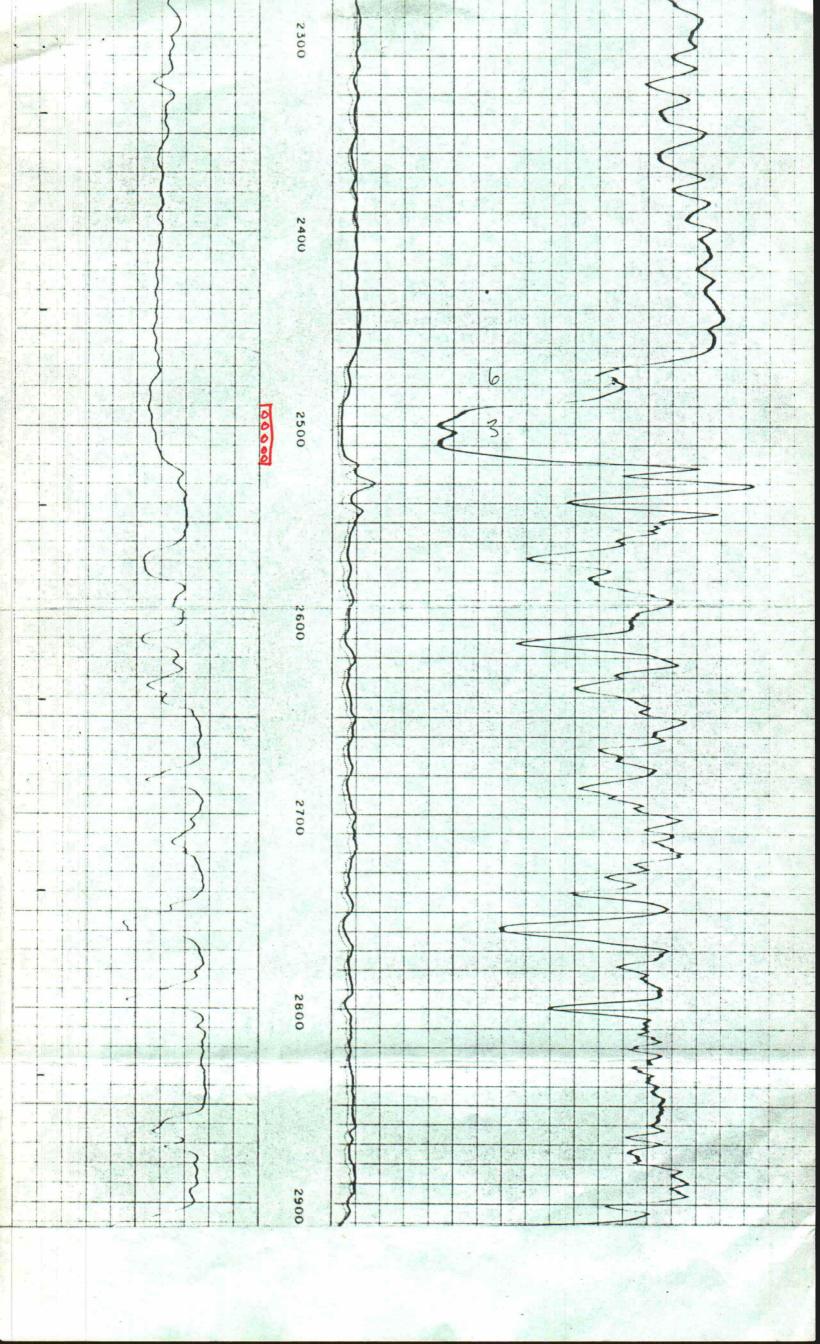
Top Gallup 4615 ft.

Perfs 4990 - 4997' Gallup

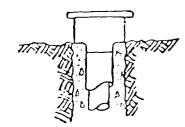
PBD 5102 ft.

4-1/2" @ 5138 w/ 200 sx

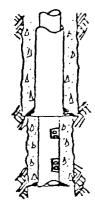
7-7/8" hole to 5150



NAVAJO H-4
510 FNL & 2130 FWL
Section 24, T29N, R14W
San Juan County



Elevation 5347' G.R.



8-5/8" @ 209' w/ 175 sx Perfs 842-82

Perfs 982-92

Re-ran 4-1/2" casing @ 1119' KB w/250 sx

Cut 4-1/2" @ 1632 Spotted 30 sx plug 1682-1582



==Top of Cement 3817' calculated

Top of cement calculated 4810'

Top of Gallup 4681'

Old Perfs squeezed off 5048-5056!

4-1/2" @ 5156 ft.

MERRION SA Y LESS

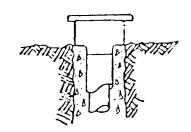
"CALE: None

"AFF. 9-27-78

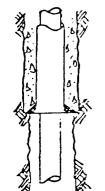
Wellbore Schematic

Navajo II Lease

NAVAJO H-3
510 FSL & 1980 FEL
0-Sec. 13, T29N, R14W
San Juan Co., New Mexico



Elevation 5327 KB



8-5/8" - 20 lb/ft @ 206 ft. w/ 160 sx

Thust be pluy greation intered

Top of cement 4175 ft. calculated

Perf 5052-5060 ft.

4-1/2" @ 5147' w/ 200 sx TD @ 5150' MERRION - BAYLESS

"CALE: none | APPINOVED BY |

"SCALE: none | APPINOVED BY |

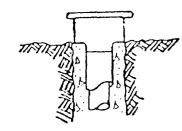
"Mare: 9-27-78 | APPINOVED BY |

Wellbore Schematic | APPINOVED BY |

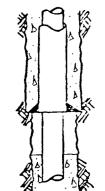
Wellbore Schematic | APPINOVED BY |

Navajo H Lease

NAVAJO H-5 705 FSL & 660 FWL M-Sec. 13, T29N, R14W · San Juan County



Elevation 5278 G.L.



8-5/8" @ 191 ft w/ 190 sx high most se plugged high Top cement @ 2400

444

Squeeze corrossion w/ 270 sx @ 2810' Top cement @ 2872

Mesa Verde perfs 3355-65'

Stage collar @ 3742 Cement w/ 250 sx

Top cement @ 4166

Retainer 4868 on plug back

Old Gallup perfs 4979-86' squeezed w/ 50 sx

4-1/2" @ 5081' w/ 450 sx

3.5	DRAWERY SSD	REVISED		DAAWING NUMBER
MERRION-BAYLESS	SCALE: None	DATE: 9-27-78	Wellbore Schematic	Navajo H - 5
				ı