OIL CONSERVATION COMMISSION And DISTRICT

OIL CONSERVATION COMMISSION	DATE 9-14-79
BOX 2088 SANTA FE, NEW MEXICO D, S. Nutter	RE: Proposed MC Proposed DHC Proposed NSL Proposed SWD Proposed WFX Proposed PMX
Gentlemen:	·
I have examined the application dat	ed 9-11-79
for the MERRION & BAYLESS Na Operator Lease	vajo H #13 / [-13-29N-14]
and my recommendations are as follows:	
1/	
	
	Yours very truly,
	al Kendnile

J. GREGORY MERRION PETROLEUM ENGINEER

P. D. 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

STEVEN S / DUNN

SSD/pb

Enclosure

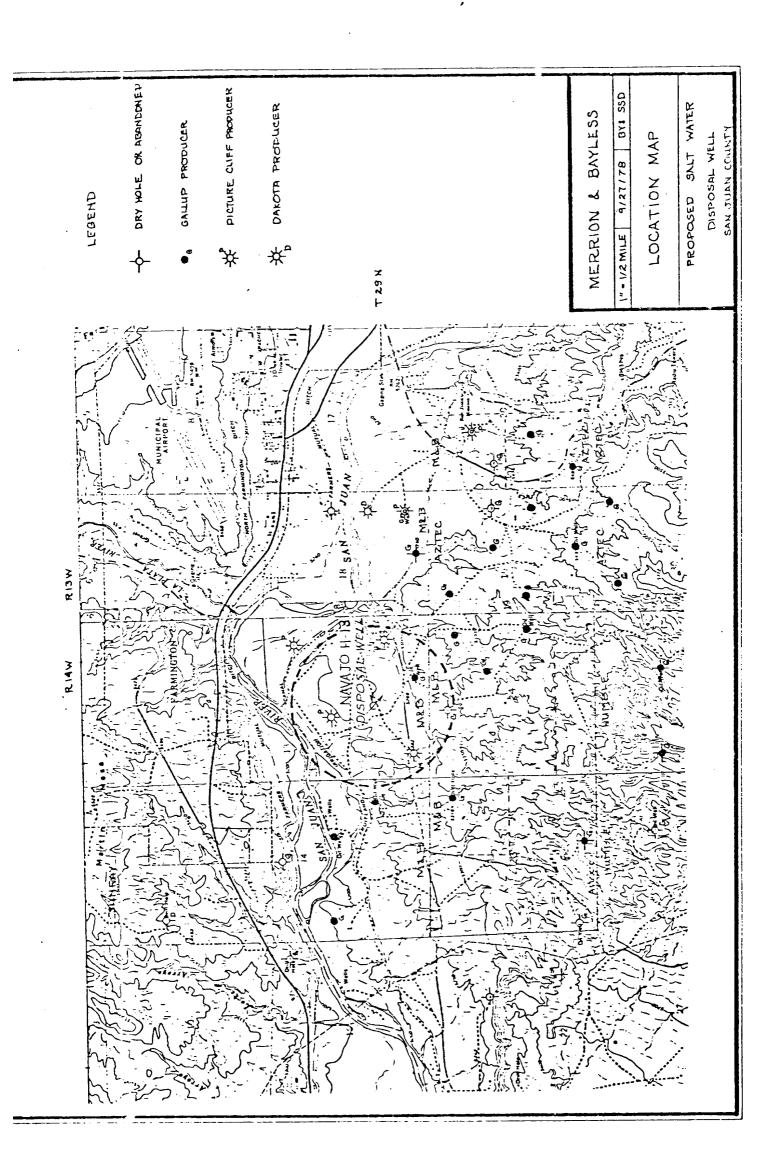
NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPE ATOR			ADDRESS			
J. Gregory Merrion and	Robert L.	Bayless	P.O. BO	x 507, Far	mington, N	M 87401
Pavajo H		13 Totah		allup		San Juan
INIT LETTER K	; WELL	IS LOCATED 1830	FEET FR	OM THE SOUT	h LINE AND	1830 FEET FROM THE
Nest line, section 13	TOWNS	41P 29N	RANGE 14W	NMPM.		
		CASING A	ND TUBING DAT	A		
NAME OF STRING	SIZE SE	TTING DEPTH	SACKS CEMEN	TOP	OF CEMENT	TOP DETERMINED BY
SUF ACE CASING	8-5/8	204'	180	Sur	face	Circulated
INT. RMEDIATE						
	none					
LONG STRING	4-1/2	5138	200	41	40	Calculated
TUBING		NA	ME, MODEL AND D	EPTH OF TUBING P	ACKER	
	2-3/8		Baker mode	1 A Tensic	n Packer	OM OF FORMATION
NAME OF PROPOSED INJECTION FORMATION				90	, , ,	2520
Cliffhouse	ANNULUS?	PERFORATIONS O	R OPEN HOLE? PR		(S) OF INJECTION	2320
Disatia lined tubing		Perforat	ions	2490-2520		
Plastic lined tubing	IF ANSWER IS NO	, FOR WHAT PURPOSE			ZONE	VELL EVER BEEN PERFORATED IN ANY OTHER THAN THE PROPOSED INJEC-
NO.	Gallup Oil Production Gallup 4990-4997				lup 4990–4997	
LIST ALL SUCH PER ORATED INTERVALS AN	D SACKS OF CEME	NT USED TO SEAL OFF	OR SQUEEZE EACH			
DEPTH OF BOTTOM (F DEEPEST FRESH WATER ZONE IN THIS AREA	DE	PTH OF BOTTOM OF N	EXT HIGHER IS AREA	DE 01	PTH OF TOP OF NE L OR GAS ZONE IN	XT LOWER This area
Surface Alluvium - 100	1	Pictured Cl	iffs - 110	0' F	t. Lookout	- 3650'
ANTICIPATED DAILY MINIMUM INJECTION VOLUME	MAXIMUM	OPEN OR CLOSED	TYPE SYSTEM	PRESSURE?	BE BY GRAVITY OF	APPROX. PRESSURE (PSI)
(BBLS.) 50	500	Closec	O BE DISPOSED OF	As requi	red	less than 500
ANSWER YES OR NO WHETHER THE FOLLOW! ERALIZED TO SUCH & DEGREE AS TO BE UNI STOCK, IRRIGATION. OR OTHER GENERAL US	II FOR DOMESTIC	WATER I	O BE DISPOSED OF	SAL ZONE	1	
NAME AND ADDRESS OF SURFACE OWNER (D		YE OR FEDERAL LAND)	S	, Yes	No	<u> </u>
Navajo Tribe, Window R	OCK, Arizo	na, ATTN;	Minerals S	upervisor		
					in 1/2 mi1	le of this
J. Gregory Merrion and	Robert L.	Bayress are	s outh ober	awis wiu	1111 1/2 1111	LE OI UIIS
injection well (see Lo	astion Man) Other in	formation.	Water to	be inject	ed is produced
Injection werr (see to	Cacron Nap	/ • • • • • • • • • • • • • • • • • • •				
from the Pictured Clif	fs and Mes	a Verde Form	nations.			
TION LIE TICEMEN CITE	ID GRA IZE	4 /0400				-
			Leady option	OR WITHIN ONE-HA	LIE MILE THE	NEW MEXICO STATE ENGINEER
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER		OF THIS WEL	L	1	
	PLAT'OF AREA	Yes	ELECTRICAL	Yes	DIAGE	YES RAMMATIC SKETCH OF WELL
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION SEE RULE 701-B)	I	17	1		I I	
	i	Yes	i	Yes		Yes
I hereby certify	that the inform	nation above is tr	ue and complete	e to the best of	my knowleage	and peliel.
the	· Van	-	ENGIA E			9/12/79
(Signature)	in		(Title)	Λ		(Date)
[Jugintine)					o-o half -:	of the proposed injection well.

NOTE: Should valvers 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. It a protest is received, the application will be set for hearing,
if the applicant so requests. SEE RULE 701.



NAVAJO H-13 1630 FSL & 1630 FWL Sec. 13, T19N, R14W San Juan County

- 5261 G.L.

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

MERRION-BAYLESS

wellbore Diagram

Salt Water Disposal

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

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

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

Top of Cement 4140 ft. Calculated

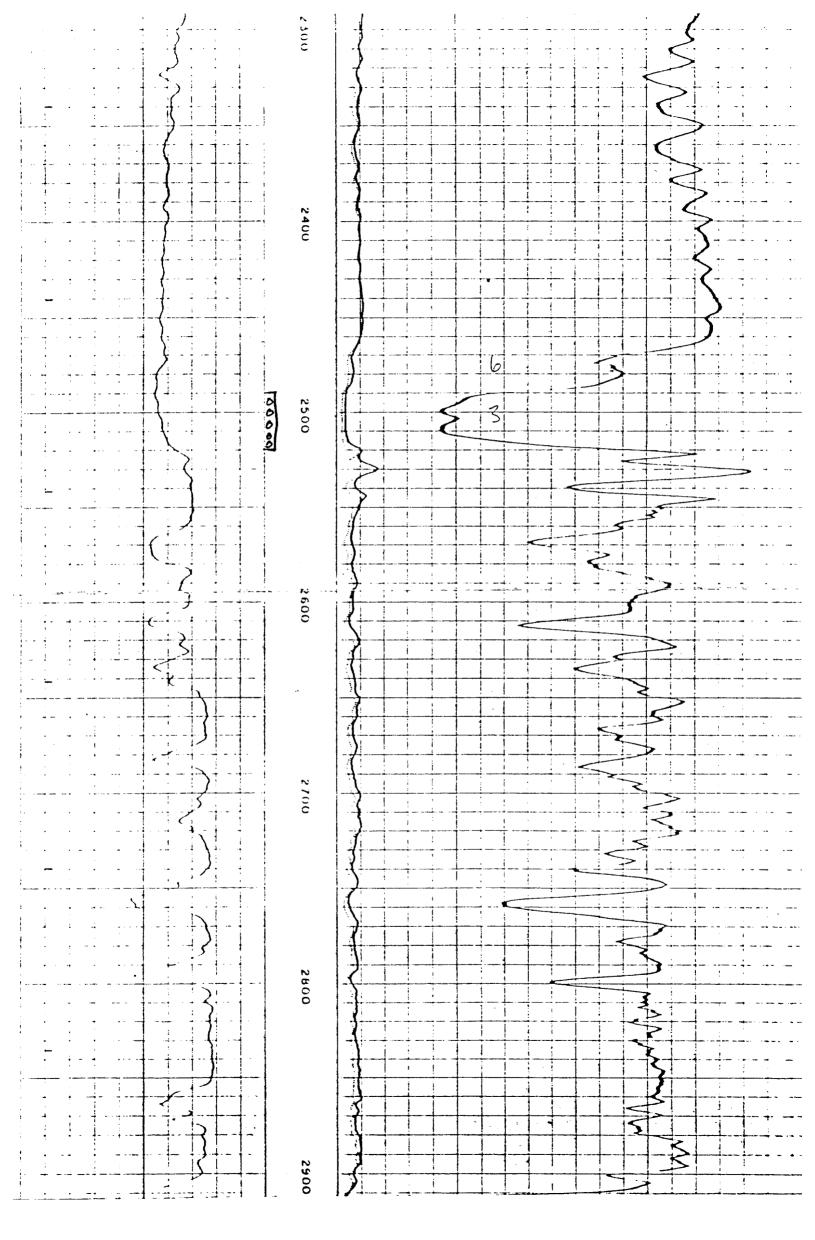
Top Gallup 4615 ft.

Terfs 4990 - 4997' Gallup

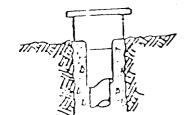
PBD 5102 ft.

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

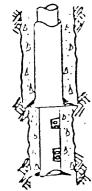
7-7/8" hole to 5150



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



Elevation 5347 G.R.

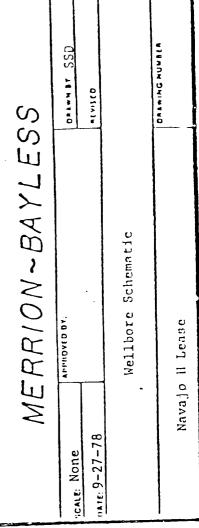


8-5/8" @ 209' w/ 175 sx Perfs 842-82

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

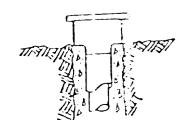
Top of cement calculated 4810'

Top of Gallup 4681

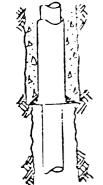
Old Perfs squeezed off 5048-5056:

4-1/2" @ 5156 ft.

NAVAJO 11-3 510 FSL & 1980 FEL O-Sec. 13, T29N, R14W San Juan Co., New Mexico



Elevation 5327 KB



8-5/8" - 20 1b/ft @ 206 ft. w/ 160 sx

MERRION ~ BAYLESS

"CALE none | APPRIONED P.: | DARW ST SSD |

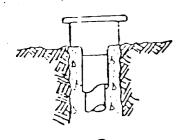
Wellbore Schematic | DARWINGHOUSER |

Navajo II Lease

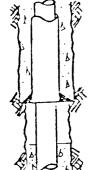
Top of cement 4175 ft. calculated

Perf 5052-5060 ft.

4-1/2" @ 5147' w/ 200 sx TD @ 5150' NAVAJO 11-5 705 FSL & 660 FWL M-Sec. 13, T29N, R14W San Juan County

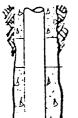


Elevation 5278 G.L.



8-5/8" @ 191 ft w/ 190 sx

Top cement @ 2400



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

S	DRAWWBY SSD	AEVISED		DRAWING NUMBER
MERRION-BAYLESS	SCALE: None	11ATE: 9-27-78	Wellbore Schematic	Navajo H - 5