

OIL CONSERVATION COMMISSION
Albuquerque DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE 8-5-77

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD ✓ _____
Proposed WFX _____
Proposed PMX _____

Carl Zillog

Gentlemen:

I have examined the application dated 8-2-77
for the Walter Duncan North Hogback 6 #3 L-6-29N-16W
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve

Yours very truly,

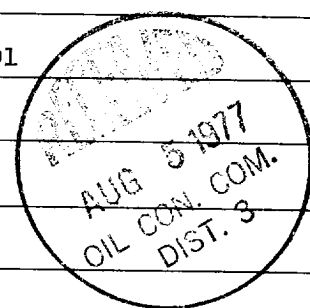
AR Kendrick

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Walter Duncan		ADDRESS Box 234, Farmington, NM 87401	
LEASE NAME North Hogback 6	WELL NO. 3	FIELD Slickrock Dakota	COUNTY San Juan
LOCATION UNIT LETTER L ; WELL IS LOCATED 2385 FEET FROM THE South LINE AND 330 FEET FROM THE West LINE, SECTION 6 TOWNSHIP 29N RANGE 16W NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	7"	40'	Driven		
INTERMEDIATE					
LONG STRING	4-1/2"	691'	50 sx	115	Calculation
TUBING	2-3/8"	691'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model "A" packer will be set @ 630'		
NAME OF PROPOSED INJECTION FORMATION Dakota		TOP OF FORMATION 691'		BOTTOM OF FORMATION 702'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Open Hole		PROPOSED INTERVAL(S) OF INJECTION 691-702'	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil Production			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA None		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 10	MINIMUM 0	MAXIMUM 20	OPEN OR CLOSED TYPE SYSTEM Pressure	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 200 psi
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - Yes			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) NIIP - Hogback Area, Shiprock, New Mexico 87420					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
W. M. Gallaway, 101-2 Petroleum Plaza Building, Farmington, NM 87401					
W. C. Imbt, 210 West 38th Street, Farmington, NM 87401					
C.S.T. Enterprises, Box 1200, Farmington, NM 87401					
Fast Enterprises, Box 1200, Farmington, NM 87401					
Amoco Production Company, 501 Airport Drive, Farmington, NM 87401					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes		THE NEW MEXICO STATE ENGINEER Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA Yes		ELECTRICAL LOG No		DIAGRAMMATIC SKETCH OF WELL No



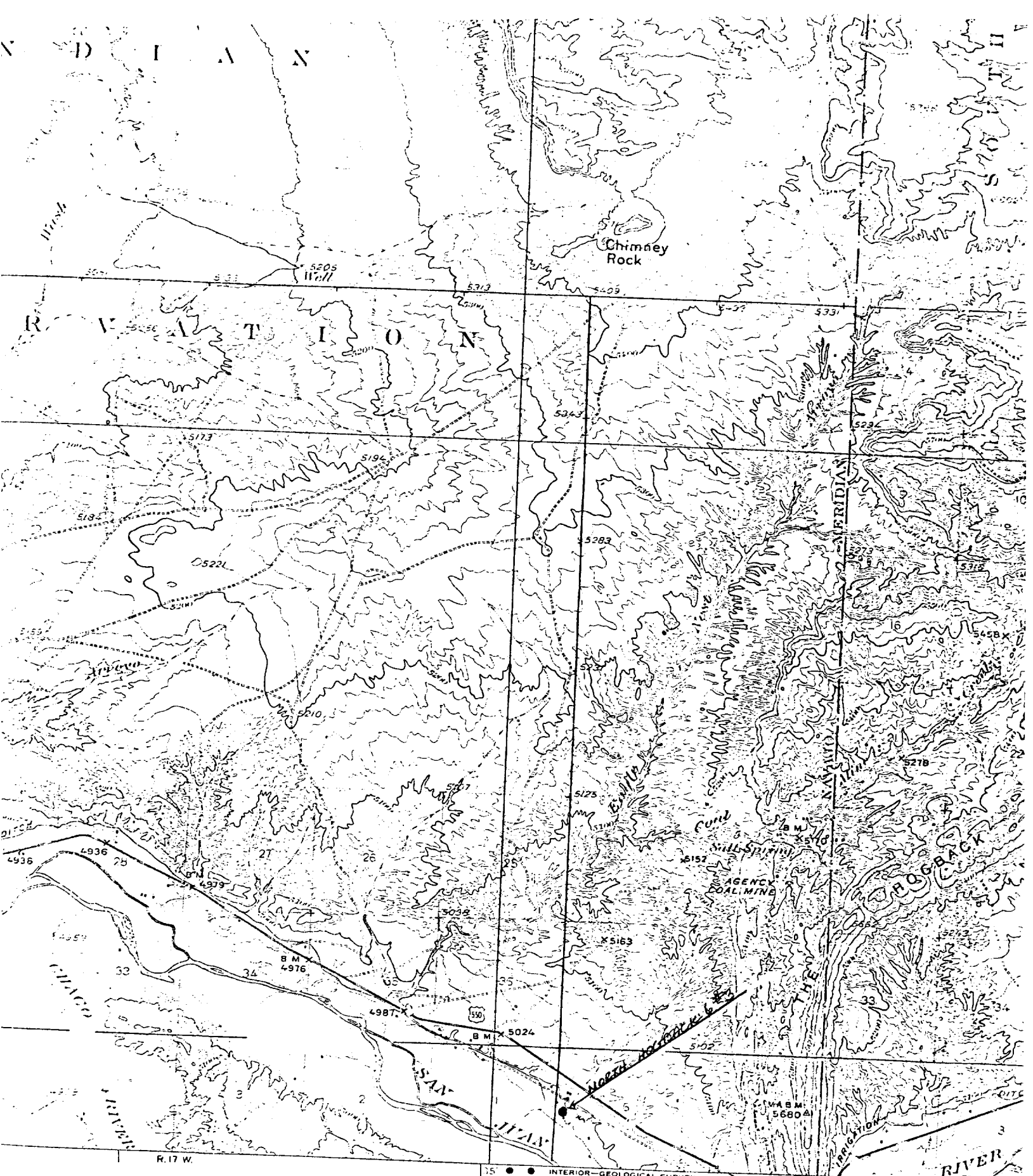
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

F. L. Crane
F. L. Crane (Signature)

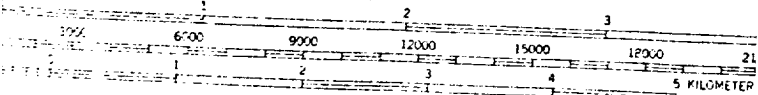
Agent
(Title)

8-2-77
(Date)

NOTE: Should waivers from the State Engineer, the surface owner, 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.



SCALE 1:62500



Contour interval 20 feet
Datum is mean sea level

INTERIOR-GEOLOGICAL SURVEY
WASHINGTON D C - 1967

WALTER DUNCAN

North Hogback 6 #3
2385' FSL - 330' FWL
Sec 6, T29N, R16W
San Juan County, NM

KEY ROCK, N. MEN.
N3645-W10830/15

GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR WASHINGTON, D. C. 20
R DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

BASIN TESTING SERVICE
P. O. Box 188
Flora Vista, N. M. 87415

Analysis No. 326 Date Aug. 1, 1977

Operator Dugan Production Well Name Hogback 6 #3

Location _____ County _____ State _____

Field _____ Formation _____

Sampled From _____

Date Sampled July 28, 1977 by _____

Tubing Pressure _____ Casing Pressure _____ Surface casing pressure _____

	ppm	epm		ppm	epm
Sodium	<u>1072</u>	<u>46.6</u>	Chloride	<u>57</u>	<u>1.6</u>

Calcium	<u>8</u>	<u>.4</u>	Bicarbonate	<u>2074</u>	<u>34.0</u>
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Magnesium	<u>2</u>	<u>.2</u>	Sulfate	<u>286</u>	<u>5.9</u>
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Iron	<u>Present</u>		Carbonate	<u>170</u>	<u>5.7</u>
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H ₂ S	<u>Present</u>		Hydroxide	<u>0</u>	<u>0</u>
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Total Solids 540

Dissolved _____

pH 9.5

Sp. Gr. 1.0004 at 60°F

Resistivity 300 ohm-cm at 70 °F