

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO CARBOROUS FORMATION

OPERATOR JACK L. McCLELLAN		ADDRESS Box 848, Roswell, New Mexico 88201	
LEASE NAME G. F. BANNON ET AL	WELL NO. 1	FIELD WILDCAT	COUNTY CHAVES
LOCATION UNIT LETTER P ; WELL IS LOCATED 660 FEET FROM THE SOUTH LINE AND 660 FEET FROM THE EAST LINE, SECTION 15 TOWNSHIP 6-S RANGE 27-E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13 3/8	245	215	SURFACE	CIRCULATED
INTERMEDIATE	8 5/8	1403	460	300'	CALCULATED
LONG STRING	4 1/2	2090	300	1645'	CASING SHOT OFF
TUBING	NAME, MODEL AND DEPTH OF TUBING PACKER NONE				
NAME OF PROPOSED INJECTION FORMATION SAN ANDRES			TOP OF FORMATION 1375		BOTTOM OF FORMATION 2530
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? CASING INTO ANNULUS		PERFORATIONS OR OPEN HOLE? * OPEN HOLE		PROPOSED INTERVAL(S) OF INJECTION 1403 - 1645	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? WILDCAT FOR OIL OR GAS			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? YES
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 1968, 1967, 1981, 1872, 1874, 1878; 25 SX CEMENT PLUG @ 1345-1424 (MUD BELOW)					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 160		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 5800	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 300	MINIMUM 300	MAXIMUM 1000	OPEN OR CLOSED TYPE SYSTEM CLOSED	IS INJECTION TO BE BY GRAVITY OR PRESSURE? UNDETERMINED	APPROX. PRESSURE (PSI) UNKNOWN
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 DEVONIAN SALT	NATURAL WATER IN DISPOSAL ZONE No	ARE WATER ANALYSES ATTACHED? YES
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) FRED VAN EATON, Box 4, KENNA, NEW MEXICO					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL UNION OF TEXAS, 1300 WILCO BLDG., MIDLAND, TEXAS 79701					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? YES		SURFACE OWNER YES		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL YES	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) YES		PLAT OF AREA YES		ELECTRICAL LOG YES	
				THE NEW MEXICO STATE ENGINEER YES	
				DIAGRAMMATIC SKETCH OF WELL YES	

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

J. M. Clellan OPERATOR 8/10/71
(Signature) (Title) (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.

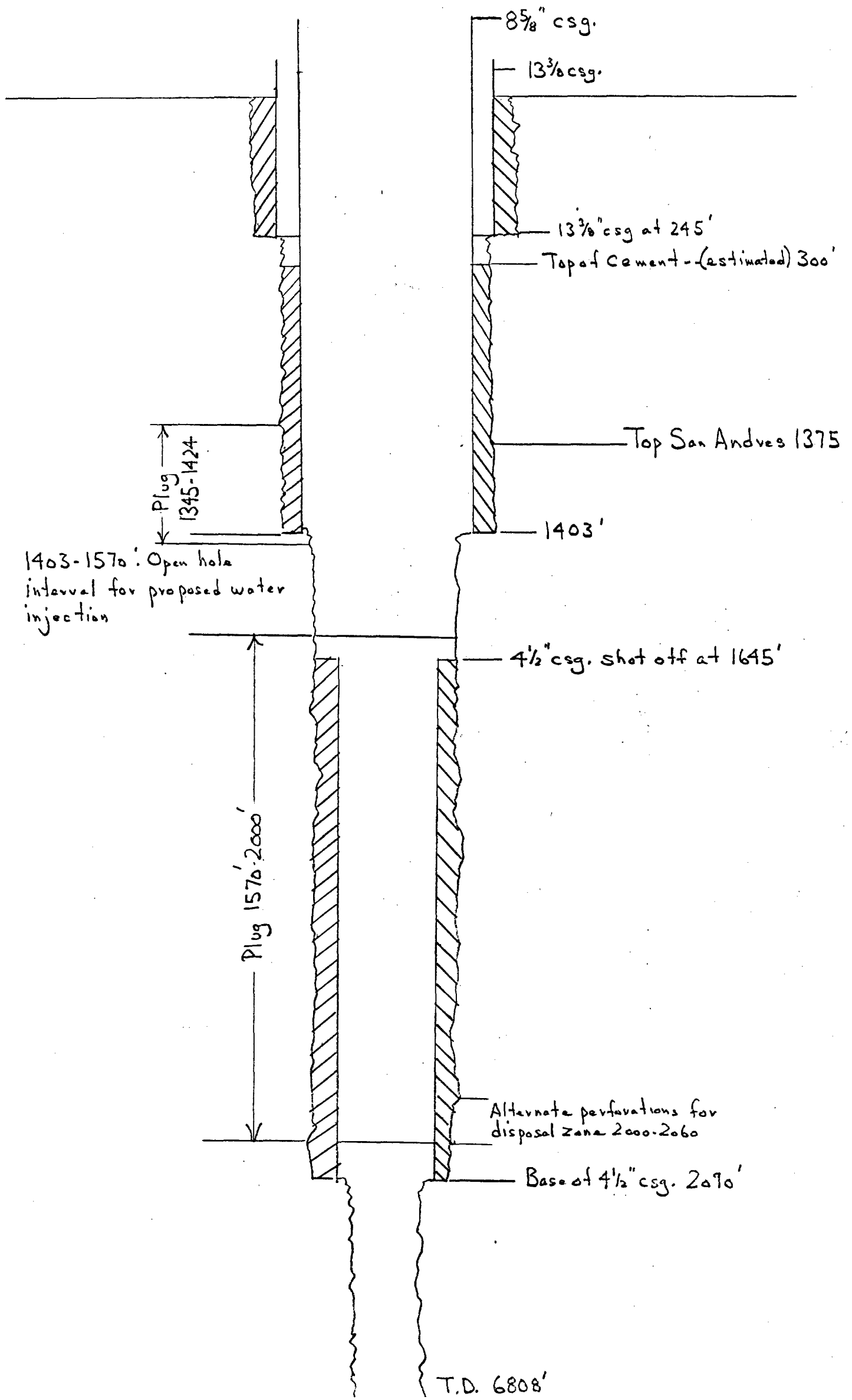
* SEE ATTACHMENT (OVER)

IF WATER CANNOT BE DISPOSED OF IN OPEN HOLE SECTION, THE HOLE
WILL BE CLEANED OUT TO 2100'. A CEMENT PLUG WILL BE PLACED IN CASING FROM
1950' TO 2100'. THE WELL PERFORATED FROM 2006-14, 2020-28, 2046-60.
ACIDIZED AND TESTED AS TO THE FORMATION ABILITY TO TAKE WATER.

[illegible]

SOUTHERN MINERALS CORPORATION
F.F. BANNON NO.1

SEC.15-T6S-R27E
CHAVES CO. NEW MEXICO



THE WESTERN COMPANY
Service Laboratory

WATER ANALYSIS

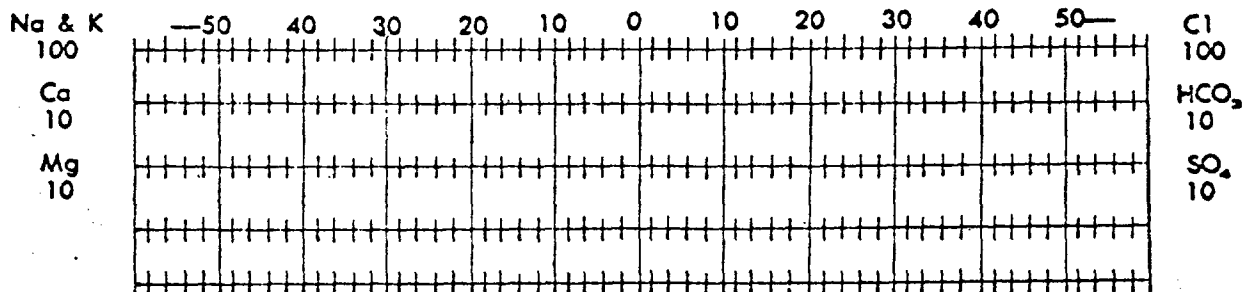
Operator	Jack L. McClellan	Date Sampled	7-30-71
Well	Federal Bar J #1	Date Received	8-2-71
Field	Haystack Area	Submitted by	Hobbs District
Formation		Worked by	Jones
Depth		Other Description	500 gal. 15% HCl, 7-29-71
County	Chaves Co., New Mexico		

CHEMICAL DETERMINATIONS

Density	1.170 @ 74° F.	pH	6.0
Iron	Fair trace	Hydrogen Sulfide	None
Sodium and Potassium	72,500 ppm	Bicarbonate	134 ppm
Calcium	10,400 ppm	Sulfate	880 ppm
Magnesium	1,335 ppm	Phosphate	ppm
Chloride	133,200 ppm	as Sodium Chloride	ppm

Remarks: Resistivity 0.047 ohm-meters 77° F.

for Stiff type plot (in meq./l.)



Per _____

73-832

ILLEGIBLE