

~~BEFORE EXAMINER MUTTER~~
 I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 EXHIBIT NO. _____
 CASE NO. _____

~~BEFORE EXAMINER MUTTER~~
 I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.
 App. EXHIBIT NO. 1
 CASE NO. _____

Application amended to show subject well as a Triste Draw well rather than Cruz Delaware

CONTINENTAL OIL COMPANY
 PRODUCTION DEPARTMENT—HOBBS DIVISION

LOCATION PLAT
 LEA COUNTY, NEW MEXICO

LEGEND

D - Triste Draw
 CD - Cruz Delaware
 / - SI or Plugged

SCALE IN FEET

0 660 1320 1980 2640

BEFORE EXAMINED MUTTER

OIL FIELD

EXHIBIT NO. 2

CASE NO. 3834

Form C-108
Revised 1-1-65

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

OPERATOR Continental Oil Company		ADDRESS Box 460, Hobbs, New Mexico	
LEASE NAME Fields	WELL NO. 2	FIELD Cruz Delaware	COUNTY Lea
LOCATION			
UNIT LETTER <u>M</u> ; WELL IS LOCATED <u>330</u> FEET FROM THE <u>W</u> LINE AND <u>990</u> FEET FROM THE			
<u>South</u> LINE, SECTION <u>25</u>	TOWNSHIP <u>23S</u>	RANGE <u>32E</u>	N.M.P.M.

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	7 5/8	395'	200	Surface	Circulated
INTERMEDIATE					
LONG STRING	4 1/2	5206'	200	3800	Temp. Survey
TUBING	2 3/8	5050'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Tension Model AD or equivalent @ 5050'		
NAME OF PROPOSED INJECTION FORMATION Delaware			TOP OF FORMATION 5013	BOTTOM OF FORMATION Approx. 6100	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perfs.	PROPOSED INTERVAL(S) OF INJECTION 5073-76 5090'-5145'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Producing oil well			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: 600

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.)	MINIMUM 200	MAXIMUM 300	OPEN OR CLOSED TYPE SYSTEM closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) est. 500 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 -			WATER TO BE DISPOSED OF yes	NATURAL WATER IN DISPOSAL ZONE yes	ARE WATER ANALYSES ATTACHED? no

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)
USA - Charlie F. & Robert E. James, 1025 N. Mesa, Carlsbad, N.M. 88220


LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL

P-M Drlg. Co. 2900 N. Big Spring, Midland, Texas

John H. Trigg 110 E. Third, Roswell, New Mexico

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER No	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL No	THE NEW MEXICO STATE ENGINEER No
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.


(Signature)

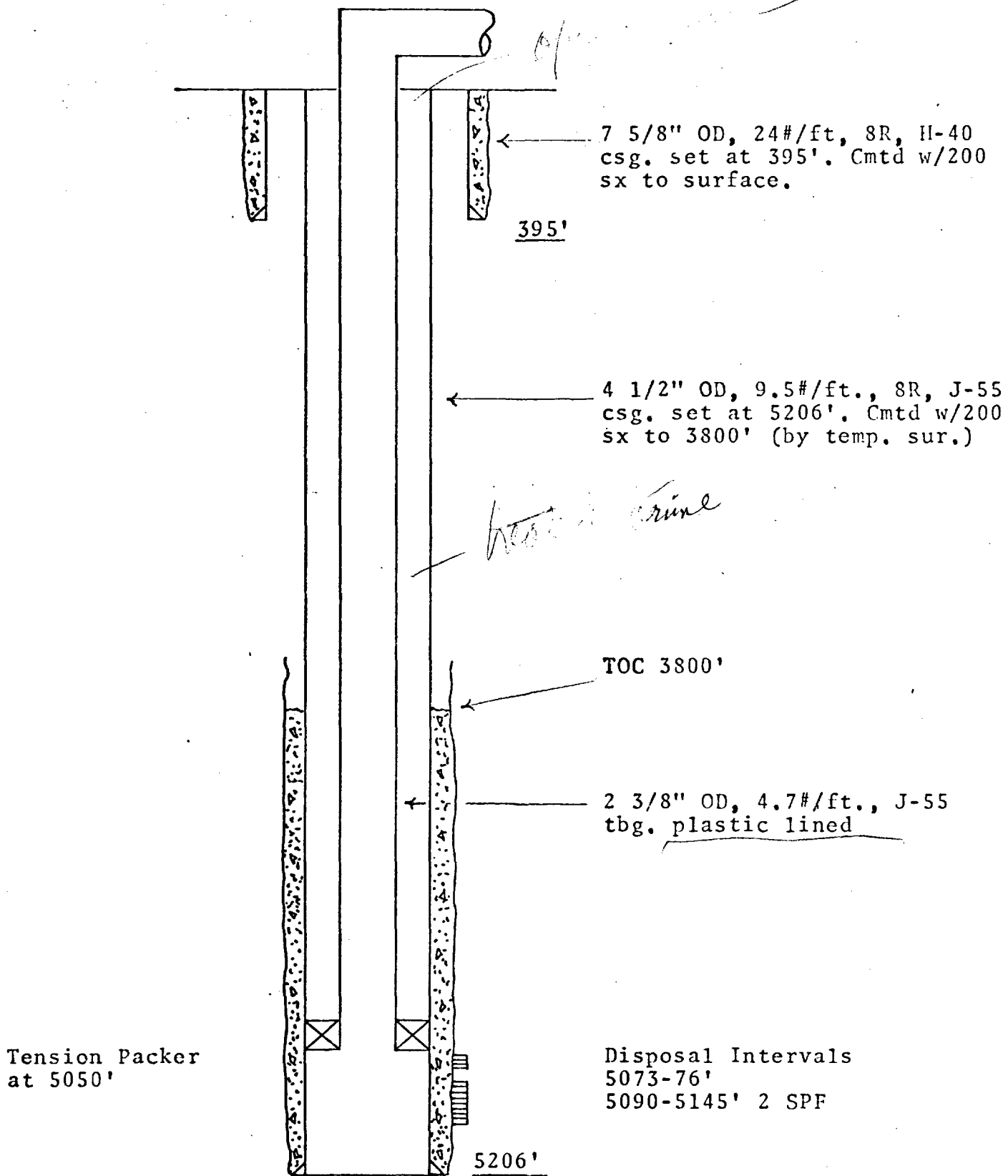
Assistant Division Manager
(Title)

7-19-68
(Date)

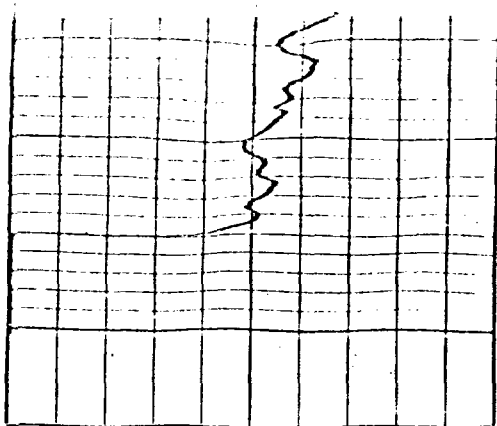
NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well, not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's 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.

EXHIBIT NO. 2

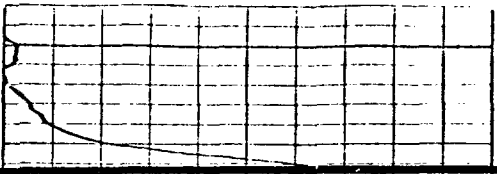
Fields No. 2
 330' F&L & 990' FSL, Sec. 25, T-23S, R-32E
 Lea County, New Mexico



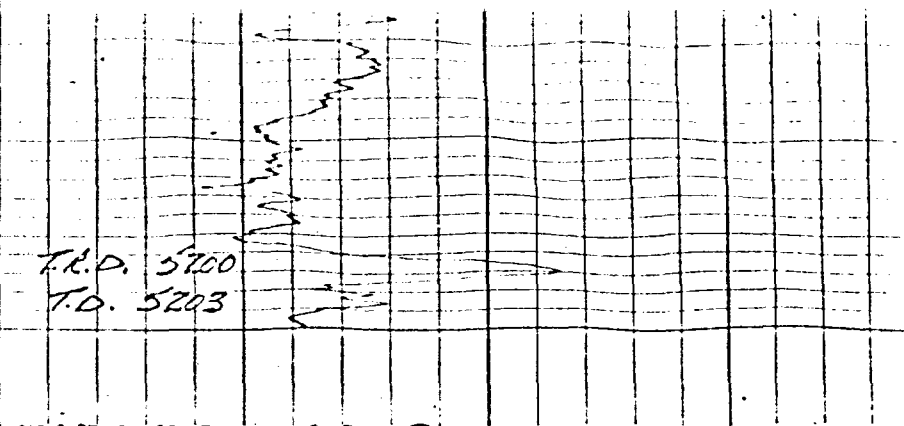
BEFORE EXAMINER MUTTER
 CASE NO. 3939
 EXHIBIT NO. 3



5200



5000

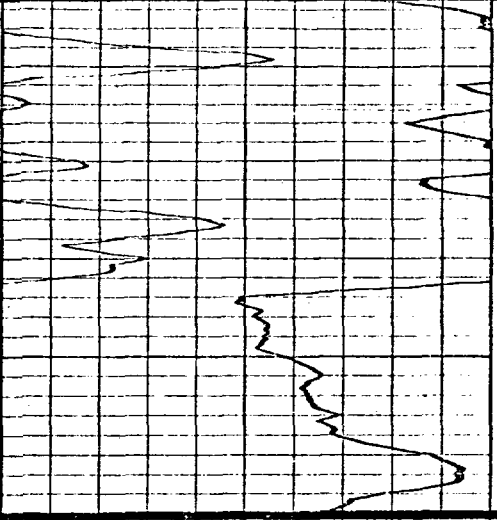


T.R.D. 5200
T.D. 5203

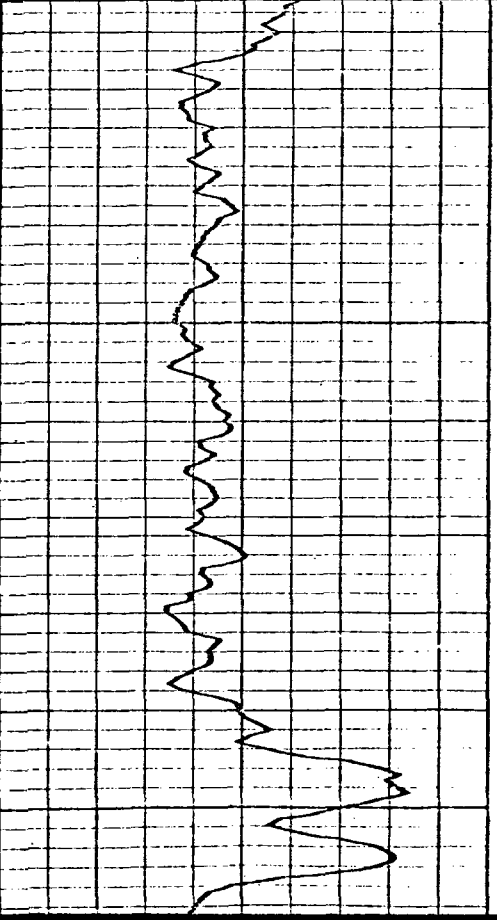
FIELDS NO. 2

REFLECT SECTION

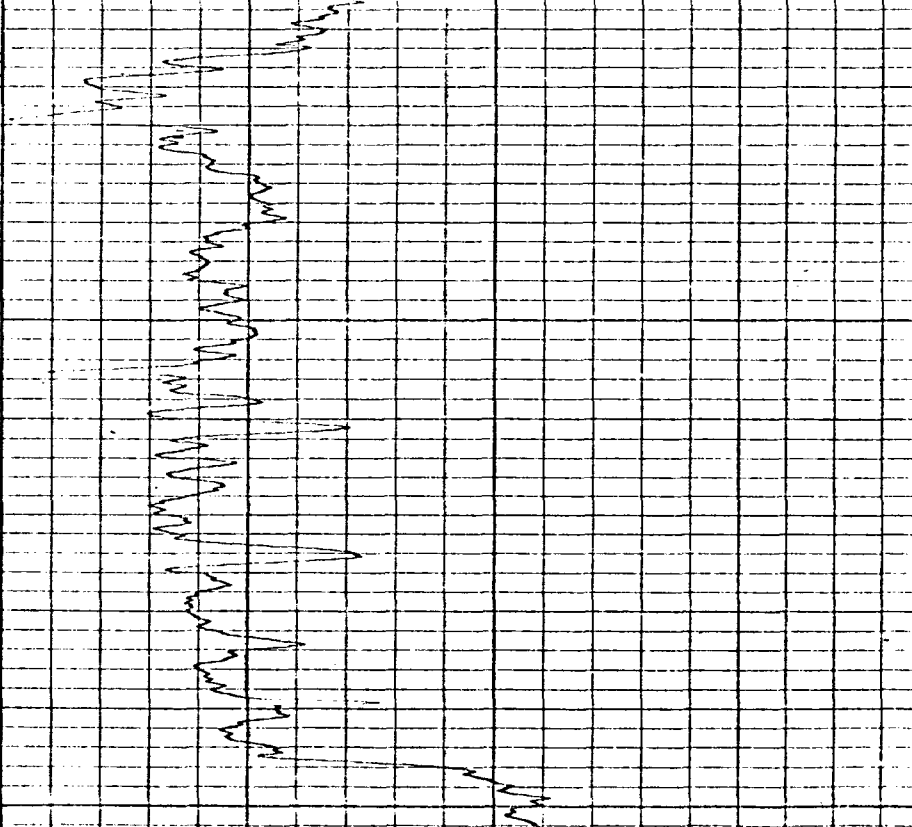
TOP OF LAMAR



TOP OF RAMSEY

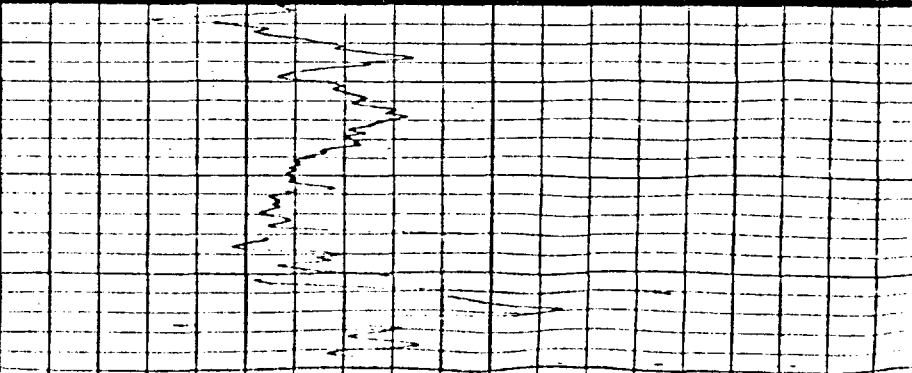


5073
5076
INTERVALS
TO BE
PERF'D
5090
5100



5145

TOP OF OLDS

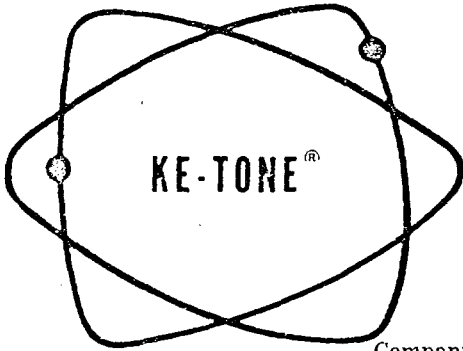


REG. EXAMINER NUMBER	2700
EX. NO.	4
CH. NO.	3839

EXHIBIT NO. 4

STANDARD TUBE CHECK BEFORE LOG

TELEPHONE: HOBBS 393-6215



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

Company Continental Oil Company
 Field Marshall
 Lease Cruz Delaware Sand Sampling Date 6/24/68
 Type of Sample _____

WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca ⁺⁺)	1157.68	23,200
Magnesium (Mg ⁺⁺)	239.48	2912
Sodium (Na ⁺) (cal.)	3039.28	69,873
Bicarbonate (HCO ₃)	0.50	30
Carbonate (CO ₃ ⁻)	NOT	FOUND
Hydroxide (OH ⁻)	NOT	FOUND
Sulphate (SO ₄ ⁻)	8.54	410
Chloride (Cl ⁻)	4427.40	157,000
5.4 pH c@ 68 ° F		
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as Ca CO ₃	1397.16	69,858
Carbonate Hardness, as CaCO ₃ (temporary)	0.50	25
Non-Carbonate Hardness as CaCO ₃ (permanent)	1396.66	69,833
Alkalinity as CaCO ₃	0.50	25
Specific Gravity c 68° F	1.165	

* mg/l = milligrams per Liter
 * me/l = milliequivalents per Liter

BEFORE EXAMINED MUTTER
 OIL CONSERVATION COMPANY
 EXHIBIT NO. 5
 CASE NO. 3837

EXHIBIT NO. 5

Makes Water Work

