

BEFORE EXAMINER NUTTER	
OIL CONSERVATION COMMISSION	
EXHIBIT NO. <u>2</u>	
CASE NO. <u>3843</u>	

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 Sholes B-25	WELL NO. 5	FIELD Jalmat	COUNTY Lea
LOCATION UNIT LETTER G ; WELL IS LOCATED 1650' FEET FROM THE N LINE AND 1650 FEET FROM THE E LINE, SECTION 25 TOWNSHIP 25S RANGE 36E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8 5/8"	360'	350	surface	circ.
INTERMEDIATE					
LONG STRING	5 1/2"	3110'	582	950	temp. survey
TUBING	3 1/2"	3010'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Tension Model AD or equivalent @ 3010'		
NAME OF PROPOSED INJECTION FORMATION Seven Rivers			TOP OF FORMATION 3012'	BOTTOM OF FORMATION est. 3550'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations	PROPOSED INTERVAL(S) OF INJECTION 3012'-3110'		
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? yes	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH 3062-70' (70 sks); 3023-40' (100 sks); 3001'-10' (100 sks); 2913-2991' (150 sks); 2855' (75 sks)					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 500' (est.)		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 3450 est.	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 1000	MINIMUM 1000	MAXIMUM 6000	OPEN OR CLOSED TYPE SYSTEM closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? gravity	APPROX. PRESSURE (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 - No			WATER TO BE DISPOSED OF No	NATURAL WATER IN DISPOSAL ZONE No	ARE WATER ANALYSES ATTACHED? No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Fred B. Cooper Box S, Jal, N.M.					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Ralph Lowe, Box 832, Midland, Texas Standard Production Co., Jal, New Mexico Morris R. Antweil, Box 2010, Hobbs, New Mexico					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? No		SURFACE OWNER No		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL No	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes		PLAT OF AREA Yes		ELECTRICAL LOG No	
				THE NEW MEXICO STATE ENGINEER 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

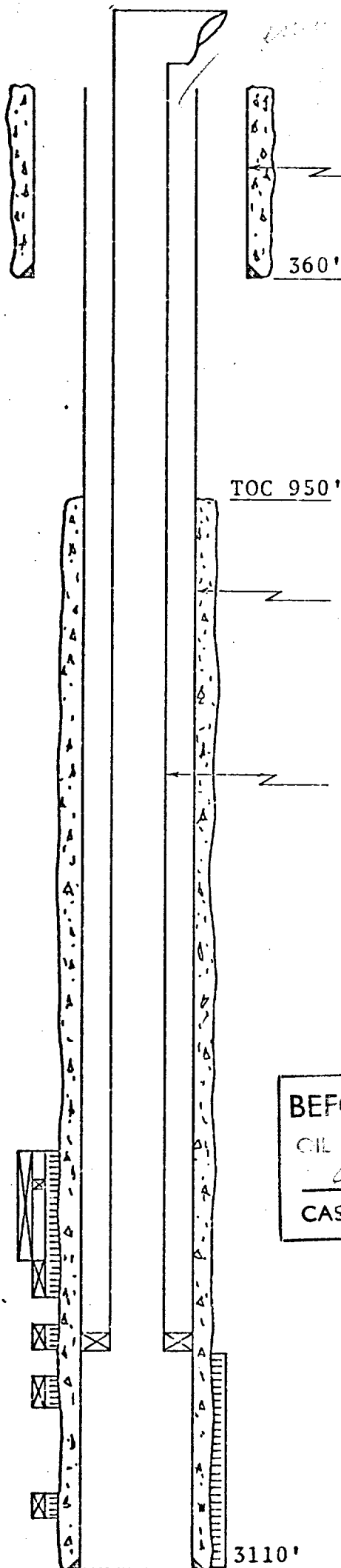
(Date)

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

Sholes B-25 No. 5
1650' FNL & 1650' FEL, Sec. 25, T-25S, R-36E
Lea County, New Mexico

Perfs: 2827, 2855, 2876,
2831, 2889, 2913, 2924,
2947, 2953 & 2991' w/1
JSPF.
Sq. perfs 2913-2991'
w/150 sx.
Sq. perfs 2855' w/75
sx.
Sq. perfs 2827-2889'
w/100 sx.
Perf. 3001-3010' w/4 SPF.
Sq. w/100 sx.
Perf 3023-3040' w/4 SPF.
Sq. w/100 sx.
Perfs 3062-70' w/4 SPF.
Sq. w/70 sx.



8 5/8" OD, 24#/ft. J-55
csg. set at 360'. Cmt.
w/350 sx to surface

5 1/2" OD, 14#/ft. J-55
csg. set at 3110'. Cmt.
w/582 sx. TOC - 950'.

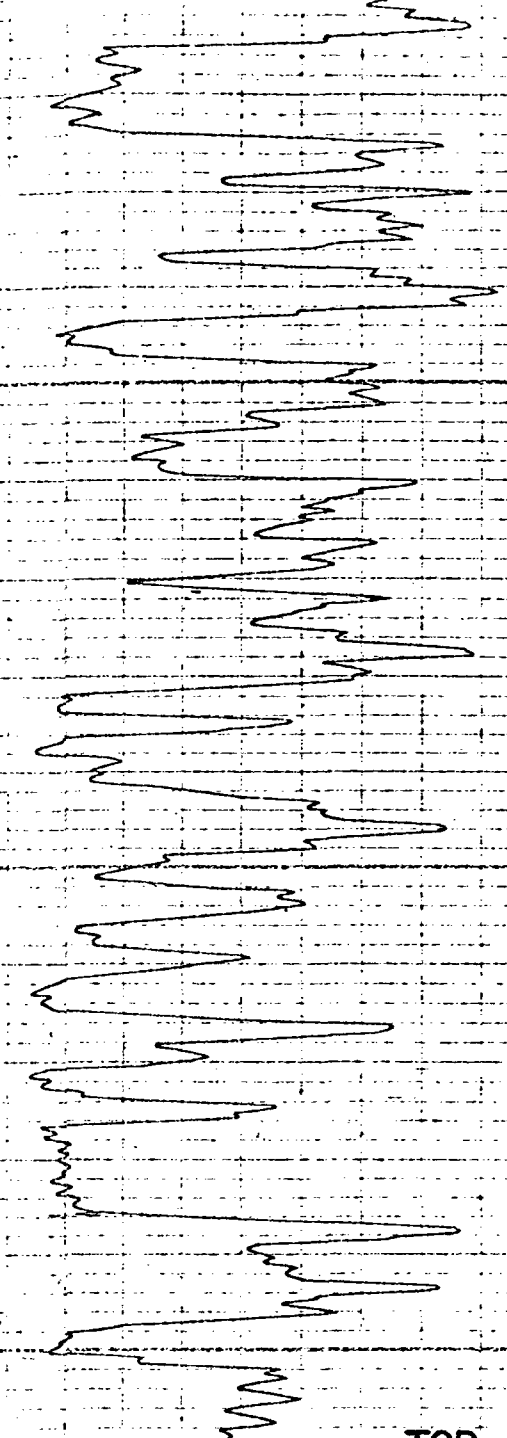
3 1/2" OD, J-55 tbg.
set at 3010'. Tbg. is
to be plastic lined.

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OIL CONSERVATION COMMISSION	EXHIBIT NO. <u>3</u>
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Tension packer - 3010'.
Seven Rivers Disposal
Interval - 3012-3110'

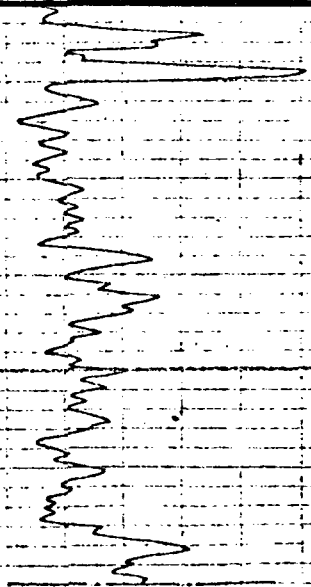
TD 3110'

SHOLES B-25 NO. 5



2900
3000

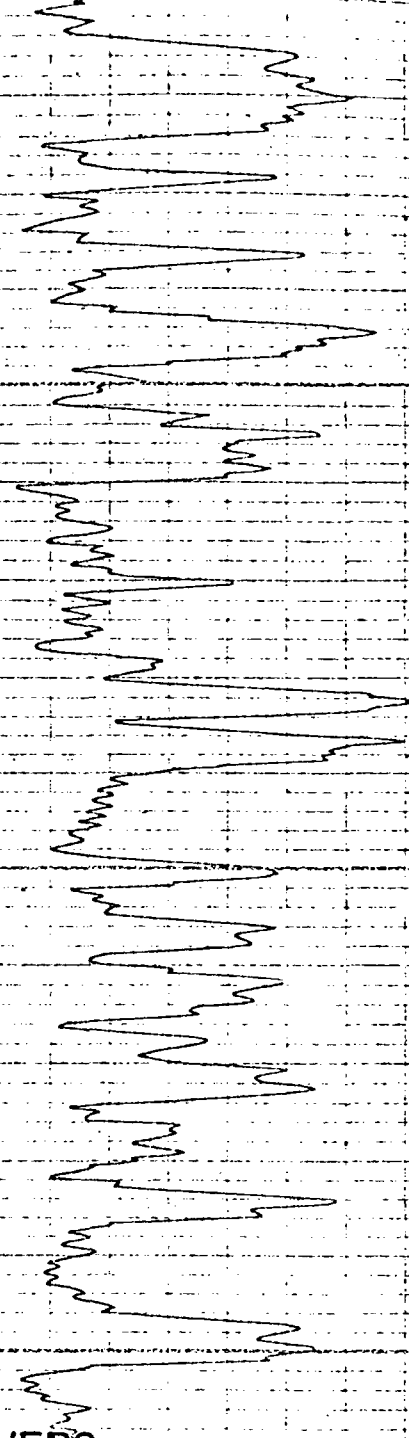
TOP of SEVEN RIVERS



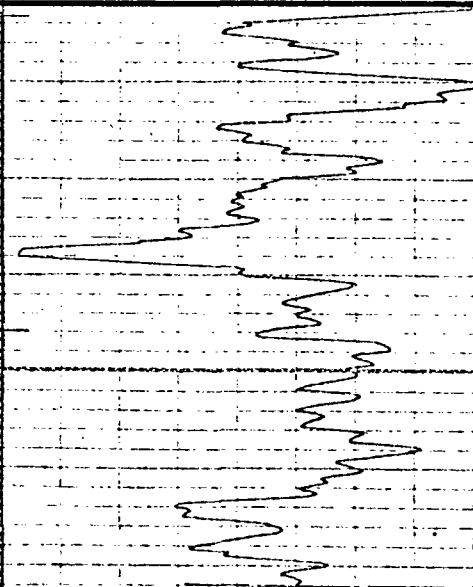
R.D. - 3072'

CONTINENTAL OIL COMPANY
SHOLES "B-25" NO. 25
JAL MAT FIELD

3100



5-1/2



R.D. - 3072'

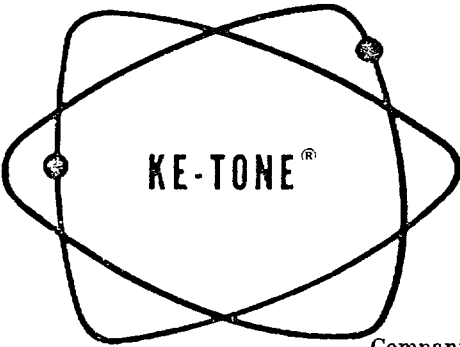
T.D. - 3074'

INTERVAL TO BE PERF.
3012'-3110', 2 spf

BEFORE EXAMINER NUTTER

EXHIBIT NO. 4
CASE NO. 38413

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 Jalmat Queen - NMFU
Lease Sholes A Sampling Date 6/24/68
Type of Sample _____

WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca++)	37.52	752
Magnesium (Mg++)	26.56	323
Sodium (Na+) (cal.)	130.84	3008
Iron		0.80
Bicarbonate (HCO ₃)	6.40	390
Carbonate (CO ₃ -)	NOT	FOUND
Hydroxide (OH-)	NOT	FOUND
Sulphate (SO ₄ -)	48.93	2350
Chloride (Cl-)	139.59	4950
7.2 pH c @ 68° F		
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as Ca CO ₃	64.08	3204
Carbonate Hardness, as CaCO ₃ (temporary)	6.40	320
Non-Carbonate Hardness as CaCO ₃ (permanent)	57.68	2884
Alkalinity as CaCO ₃	6.40	320
Specific Gravity c 68° F	1.005	

* mg/l = milligrams per Liter

* me/l = milliequivalents per Liter

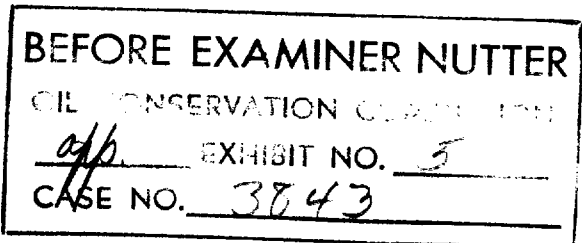


EXHIBIT NO. 5

Makes Water Work