

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

OPERATOR <b>Continental Oil Company</b>			ADDRESS <b>P. O. Box 460, Hobbs, New Mexico</b>		
LEASE NAME <b>McCallister A</b>		WELL NO. <b>3</b>	FIELD <b>Scarborough</b>		COUNTY <b>Lea</b>
LOCATION UNIT LETTER <b>P</b> ; WELL IS LOCATED <b>660</b> FEET FROM THE <b>S</b> LINE AND <b>660</b> FEET FROM THE <b>E</b> LINE, SECTION <b>24</b> TOWNSHIP <b>26S</b> RANGE <b>36E</b> NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	<b>13"</b>	<b>462'</b>	<b>400</b>	<b>0'</b>	<b>Calc.</b>
INTERMEDIATE	<b>9 5/8"</b>	<b>2802'</b>	<b>900</b>	<b>0'</b>	<b>Calc.</b>
LONG STRING	<b>7"</b>	<b>3133'</b>	<b>400</b>	<b>500'</b>	<b>Calc.</b>
TUBING	<b>2 3/8"</b>	<b>3010'</b>	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Baker AD-1 or equivalent @ 3010'</b>		
NAME OF PROPOSED INJECTION FORMATION <b>Yates</b>			TOP OF FORMATION <b>2983'</b>		BOTTOM OF FORMATION <b>3270' est.</b>
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>		PERFORATIONS OR OPEN HOLE? <b>Both</b>	PROPOSED INTERVAL(S) OF INJECTION <b>3039'-3100' and 3133'-3245'</b>		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Producing Oil Well</b>				HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>No</b>
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH <b>None</b>					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA <b>200'</b>		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA <b>None</b>		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA <b>None</b>	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) <b>400</b>	MINIMUM <b>400</b>	MAXIMUM <b>1500</b>	OPEN OR CLOSED TYPE SYSTEM <b>Closed</b>	IS INJECTION TO BE BY GRAVITY OR PRESSURE? <b>Gravity</b>	APPROX. PRESSURE (PSI) <b>0</b>
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 - <b>No</b>			WATER TO BE DISPOSED OF <b>No</b>	NATURAL WATER IN DISPOSAL ZONE <b>No</b>	ARE WATER ANALYSES ATTACHED? <b>Yes</b>
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Mr. Frank Anthony, Box 1612, Monahans, Texas</b>					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL <b>None</b>					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG	DIAGRAMMATIC SKETCH OF WELL

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

(Signature)

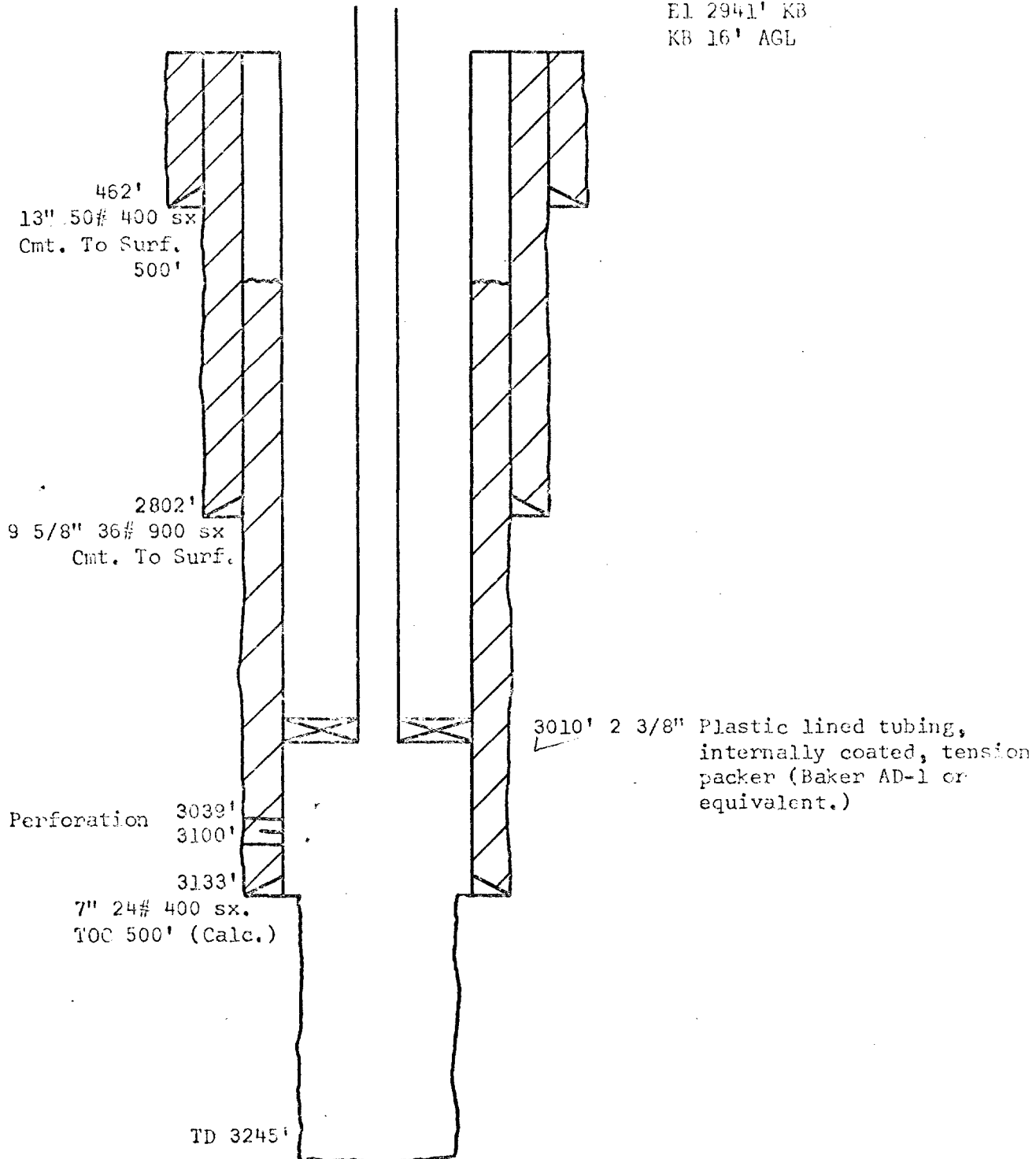
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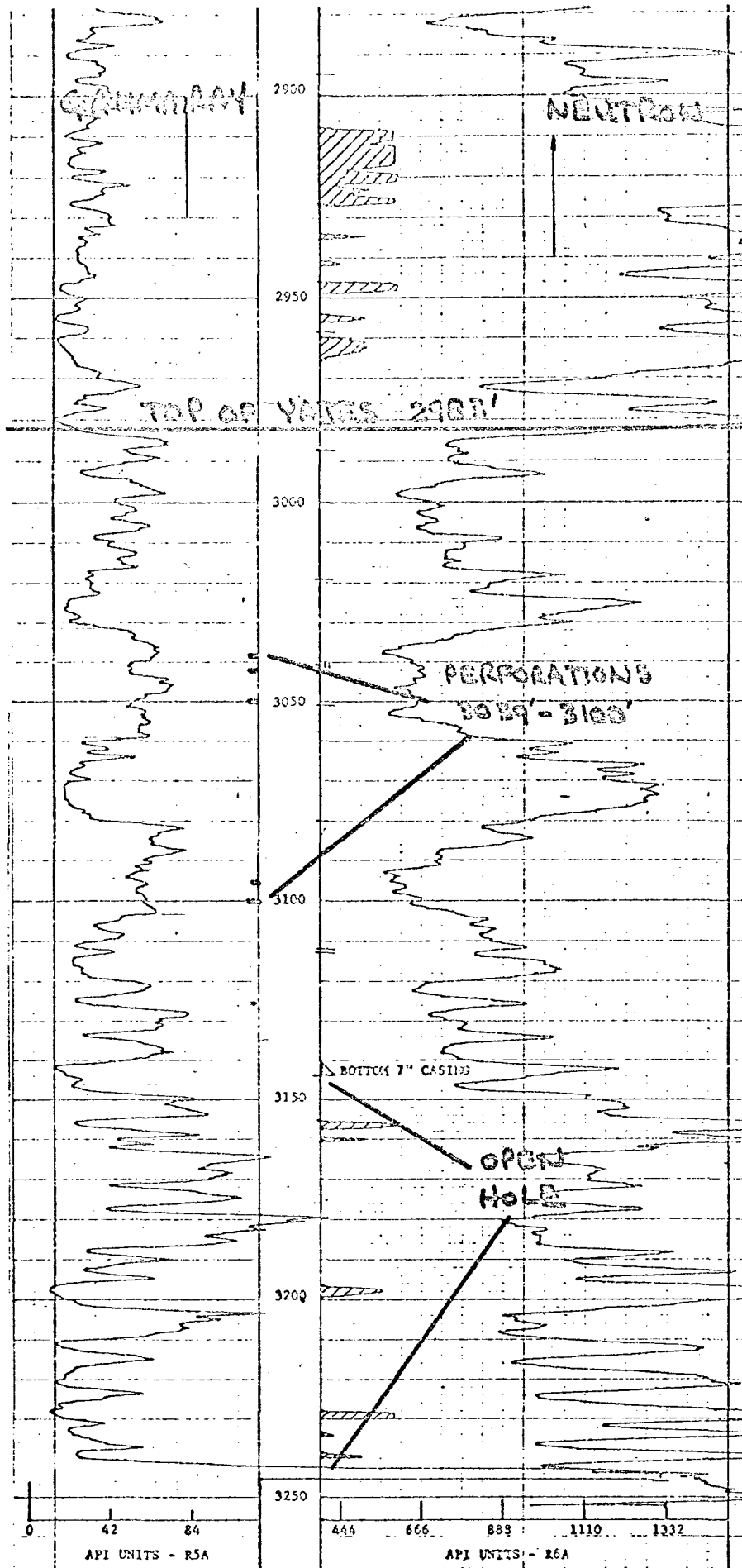
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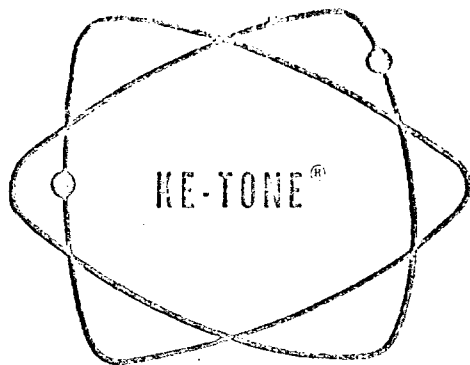
NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office.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

# Proposed Injection Schematic

660' FSL, 660' FHL,  
Sec. 24, T-26S, R-36E  
El 2941' KB  
KB 16' AGL







TELEPHONE: HOBBS 378-7721  
AREA CODE - 505

# UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

Company Continental Oil Company  
Field SCARBOROUGH YATES SEVEN RIVERS  
Lease McAlister A #5 Sampling Date 4-28-70  
Type of Sample \_\_\_\_\_

## WATER ANALYSIS

IONIC FORM	me/l *	mg/l *
Calcium (Ca++)	6.59	132
Magnesium (Mg++)	8.72	106
Sodium (Na+) (Calculated)	130.63	3,003
Iron		0.91
Carbonate (HCO <sub>3</sub> -)	30.99	1,891
Carbonate (CO <sub>3</sub> -)	NOT FOUND	
Hydroxide (OH-)	NOT FOUND	
Sulphate (SO <sub>4</sub> -)	1.02	49
Chloride (Cl-)	113.93	4,040
7.9 ph c 68°F		
Dissolved Solids on Evap. at 103° - 105° C		
Hardness as Ca CO <sub>3</sub>	15.31	766
Carbonate Hardness as CaCO <sub>3</sub> (temporary)	30.90	1,550
Non-Carbonate Hardness as CaCO <sub>3</sub> (permanent)	15.31	766
Alkalinity as CaCO <sub>3</sub>	30.90	1,550
Specific Gravity c 68° F	1.005	

MOORE BUSINESS FORMS NO. 14

\* mg/l = milligrams per Liter

\* me/l = milliequivalents per Liter

Calcium Carbonate scaling index positive at 86°F. (1.39)

Calcium Sulfate scaling index negative

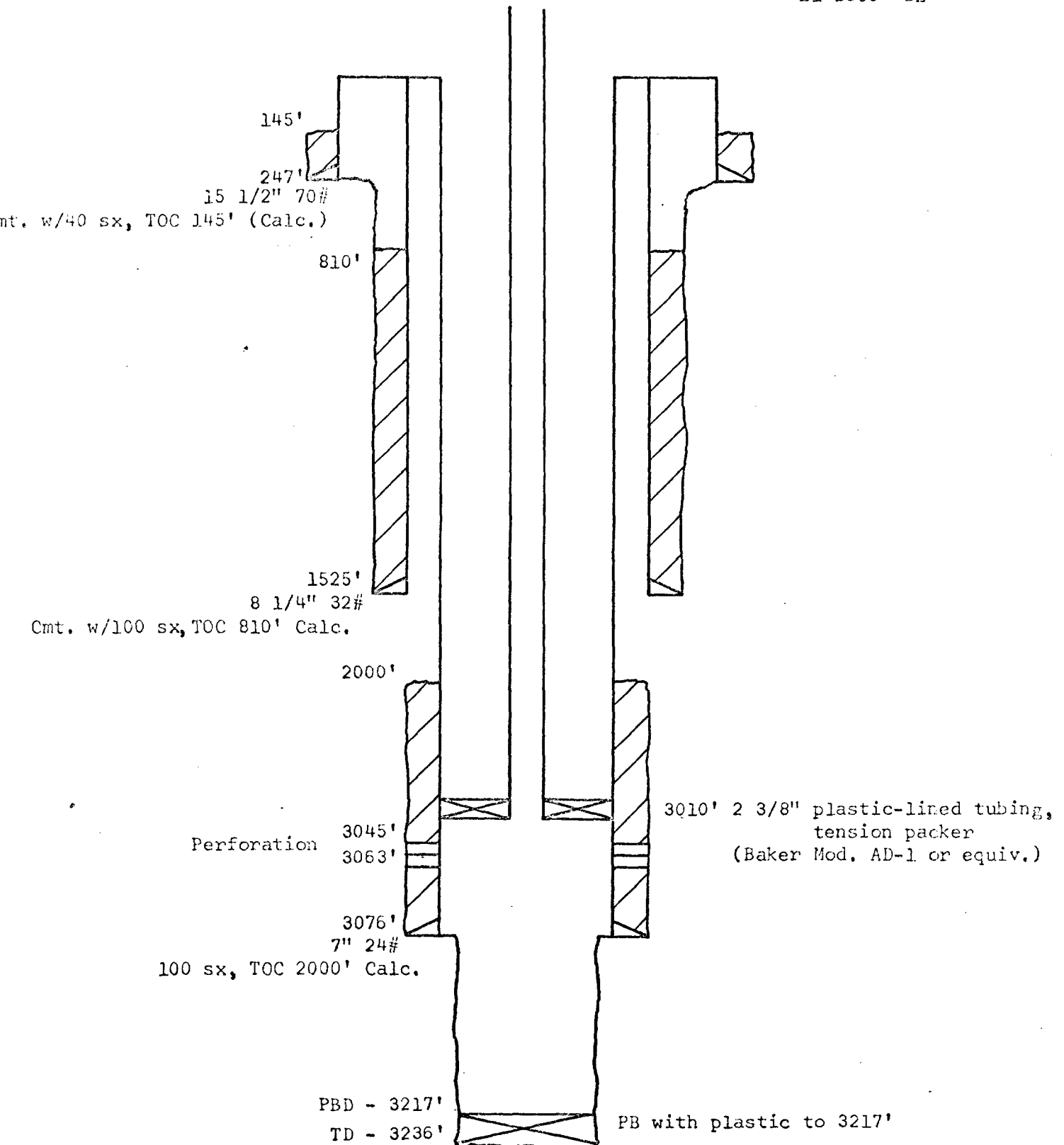
*Makes Water Work*

Exhibit No. 8

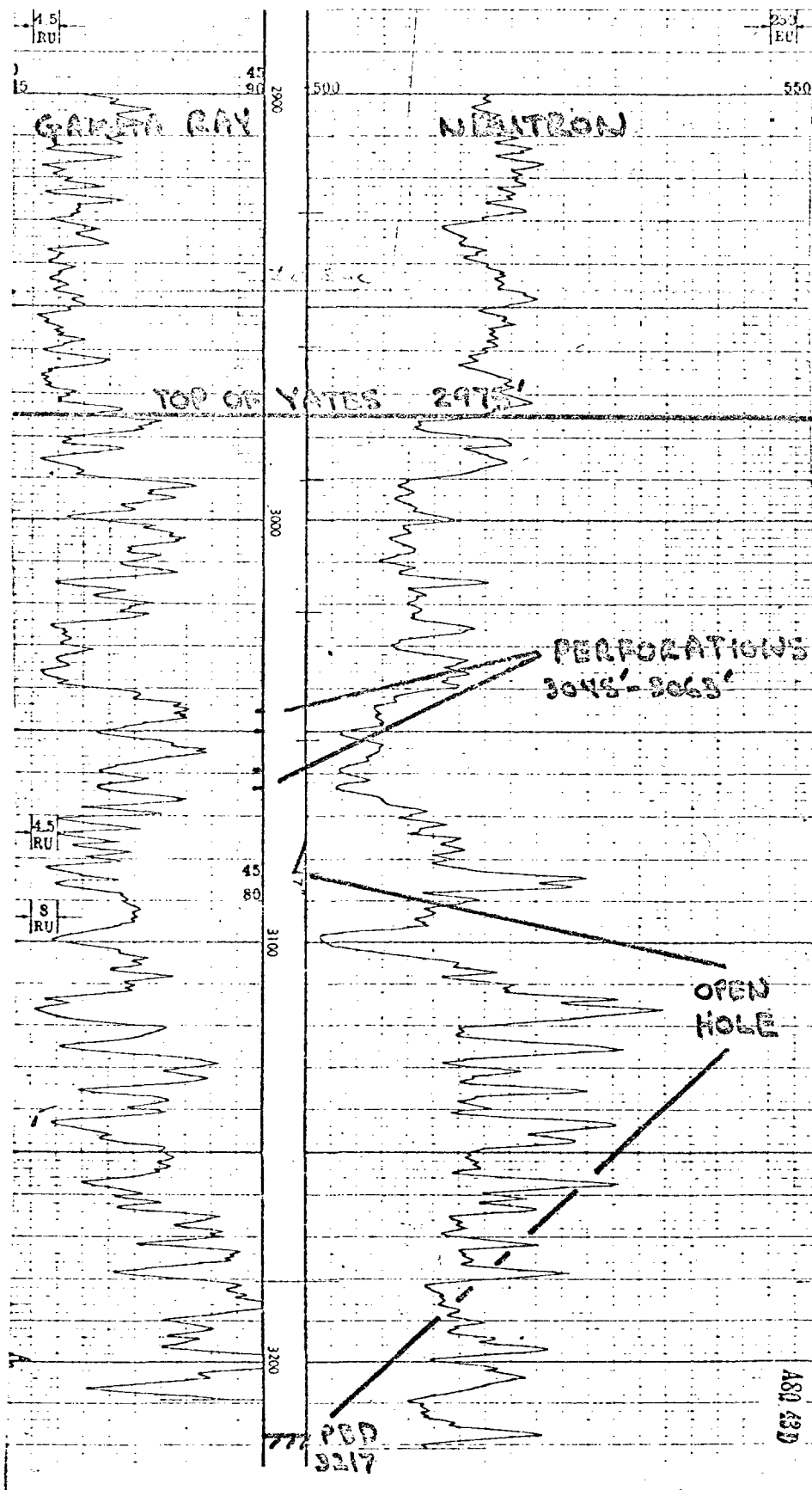
McCallister "A" No. 2

Proposed Injection Schematic

330' FNL, 990' FLL  
Sec. 24, T-26S, R-37E  
E1 2936' GL



MCCALLISTER "A" NO. 2



NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR <b>Continental Oil Company</b>		ADDRESS <b>P. O. Box 460, Hobbs, New Mexico</b>			
LEASE NAME <b>McCallister A</b>	WELL NO. <b>2</b>	FIELD <b>Scarborough</b>		COUNTY <b>Lea</b>	
LOCATION UNIT LETTER <b>A</b> ; WELL IS LOCATED <b>330</b> FEET FROM THE <b>N</b> LINE AND <b>990</b> FEET FROM THE <b>E</b> LINE, SECTION <b>24</b> TOWNSHIP <b>26S</b> RANGE <b>36E</b> NMPL.					
<b>CASING AND TUBING DATA</b>					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	<b>15 1/2"</b>	<b>247'</b>	<b>40</b>	<b>145'</b>	<b>Calc.</b>
INTERMEDIATE	<b>8 1/4"</b>	<b>1525'</b>	<b>100</b>	<b>810'</b>	<b>Calc.</b>
LONG STRING	<b>7"</b>	<b>3076'</b>	<b>100</b>	<b>2000'</b>	<b>Calc.</b>
TUBING	<b>2 3/8"</b>	<b>3010'</b>	NAME, MODEL AND DEPTH OF TUBING PACKER <b>Baker Tension Model AD-1 or equivalent @ 3010'</b>		
NAME OF PROPOSED INJECTION FORMATION <b>Yates</b>		TOP OF FORMATION <b>2975'</b>		BOTTOM OF FORMATION <b>3276' est</b>	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? <b>Tubing</b>		PERFORATIONS OR OPEN HOLE? <b>Both</b>		PROPOSED INTERVAL(S) OF INJECTION <b>Perfs 3045-3063' &amp; O.H. 3076-3217'</b>	
IS THIS A NEW WELL DRILLED FOR DISPOSAL? <b>No</b>		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? <b>Producing oil well</b>		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? <b>No</b>	
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NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) <b>Mr. Frank Anthony, Box 1612, Monahans, Texas</b>					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL <b>El Paso Natural Gas Company, Jal, New Mexico</b> <b>Pan American Petroleum Corporation, Box 68, Hobbs, New Mexico</b>					
<div style="border: 2px solid black; padding: 5px; width: fit-content; margin: auto;"> <b>BEFORE EXAMINER NUTTER</b>  <b>OIL CONSERVATION COMMISSION</b>  <b>EXHIBIT NO. 2</b>  <b>CASE NO. 4112</b> </div>					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? <b>YES</b>			EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL <b>YES</b>		
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) <b>YES</b>			ELECTRICAL LOG <b>YES</b>		
PLAT OF AREA <b>YES</b>			DIAGRAMMATIC SKETCH OF WELL <b>YES</b>		

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

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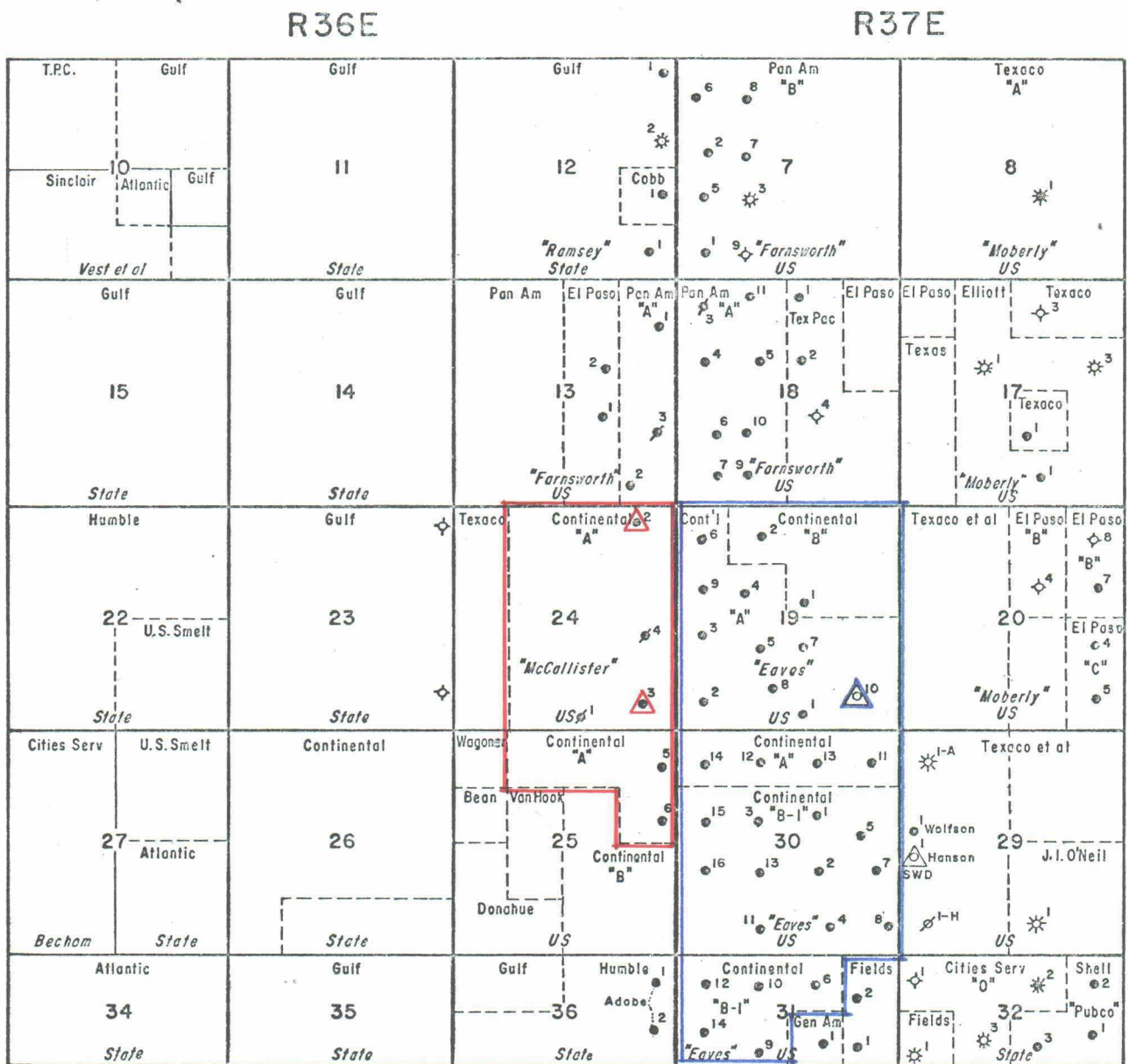
(Title)

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R 3487 Eaves #10  
3208-3255 SR

R-3487-H Eaves #10  
inj into perf & OH  
3107-3410 SR



BEFORE EXAMINER NUTTER  
OIL CONSERVATION DIVISION  
EXHIBIT NO. 1  
CASE NO. 4412

CONTINENTAL OIL COMPANY  
PRODUCTION DEPARTMENT—HOBBS DIVISION  
SCARBOROUGH POOL  
LEA COUNTY, NEW MEXICO

SCALE  
0 2000 4000