

OIL CONSERVATION COMMISSION
I DISTRICT

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE June 20, 1966

Re: Proposed NSP _____
Proposed Triple _____
Proposed NSL _____
Proposed NFO _____
Proposed DC _____
SWD X

Gentlemen:

I have examined the application dated 6/16/66

for the Rice Engineering & Operating, Inc. Eunice-Monument-Eumont SWD #L-21
Operator _____ Lease and Well No. _____ S-T-R 21-21-36

and my recommendations are as follows:

If Hearing Not Necessary, O.K.---E.F.E.

O.K. J.W.R.

Yours very truly,



NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Rice Engineering & Operating, Inc.		ADDRESS Box 1142, Hobbs, New Mexico	
LEASE NAME Eunice-Monument-Eumont SWD	WELL NO. L-21	FIELD Eunice	COUNTY Lea
LOCATION UNIT LETTER L ; WELL IS LOCATED 440 FEET FROM THE west LINE AND 1,520 FEET FROM THE south LINE, SECTION 21 TOWNSHIP 21-S RANGE 36-E NMPM.			
CASING AND TUBING DATA			
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT
SURFACE CASING (Proposed)	9-5/8"	300'	250
INTERMEDIATE None			
LONG STRING (Proposed)	7"	4,500'	750
TUBING (Proposed)	5-1/2"	4,500'	2000 estimated
NAME, MODEL AND DEPTH OF TUBING PACKER None-load annular space with oil			
NAME OF PROPOSED INJECTION FORMATION San Andres		TOP OF FORMATION 3,957'	BOTTOM OF FORMATION 5,118'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Open hole	PROPOSED INTERVAL(S) OF INJECTION 4,500' to 5,100' TD
IS THIS A NEW WELL DRILLED FOR DISPOSAL? Yes	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? -		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? -
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 300' (estimated)		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 4,000'	
DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None			
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 12,000	MINIMUM 4,800	MAXIMUM 12,000	OPEN OR CLOSED TYPE SYSTEM Closed
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	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Gravity
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) New Mexico Baptist Childrens' Home (lessee), Box 485, Albuquerque, New Mexico		NATURAL WATER IN DISPOSAL ZONE Yes	APPROX. PRESSURE (PSI) 0
ARE WATER ANALYSES ATTACHED? Yes			
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL			
Continental Oil Company, Box 460, Hobbs, New Mexico			
Gulf Oil Corporation, Box 670, Hobbs, New Mexico			
Atlantic Richfield Company, Box 1978, Roswell, New Mexico			
Standard Oil Company of Texas, Box 579, Hobbs, New Mexico			
Humble Oil & Refining Company, Box 2100, Hobbs, New Mexico			
Shell Oil Company, Box 1509, Midland, Texas			
Cities Service Oil Company, Box 69, Hobbs, New Mexico			
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes	SURFACE OWNER State - 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 Attached	ELECTRICAL LOG No	DIAGRAMMATIC SKETCH OF WELL Yes

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

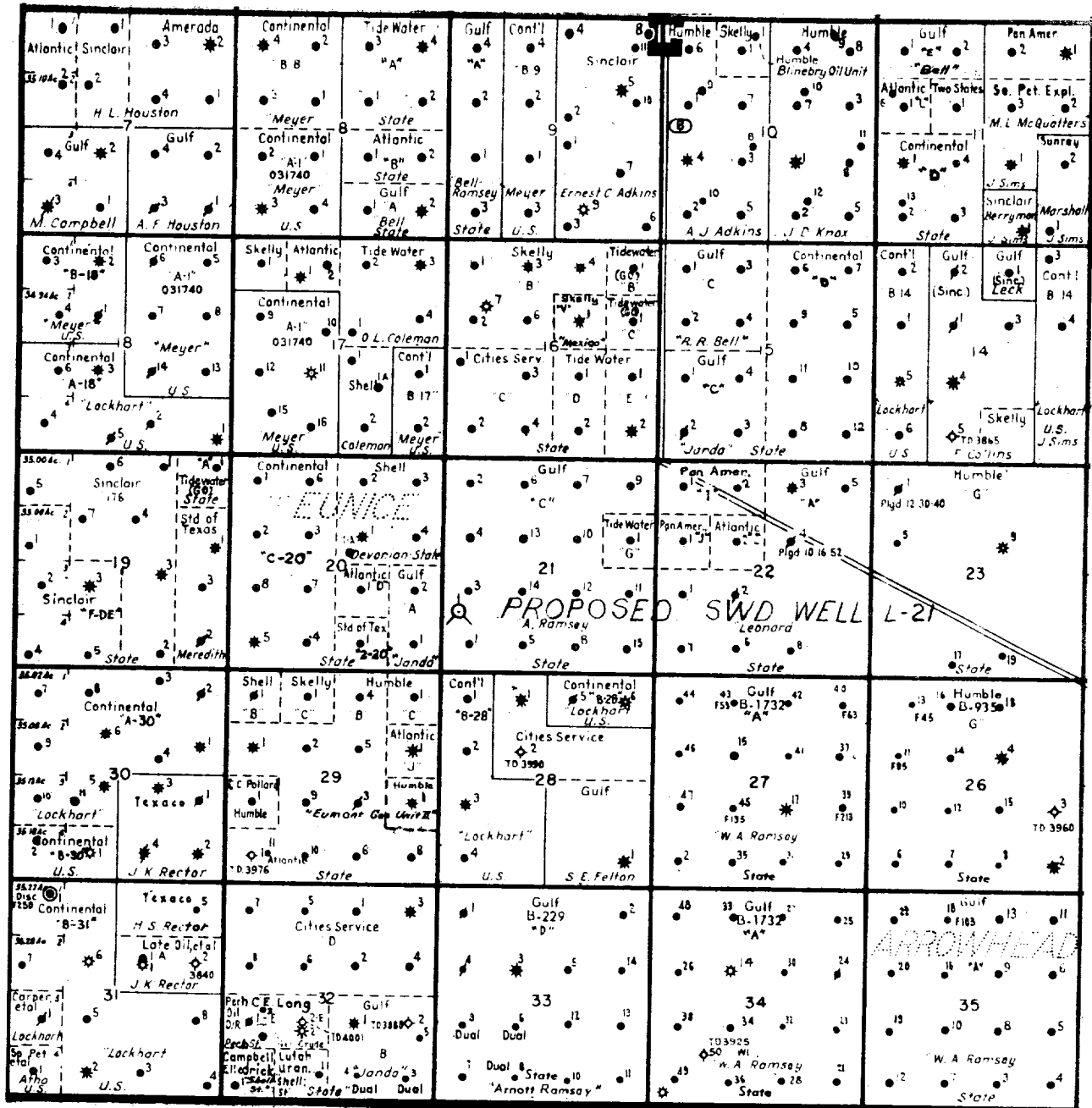
W.G. Abbott
(Signature) **W.G. Abbott**

Division Manager
(Title)

June 15, 1966
(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.

R 36 E



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LEA COUNTY, NEW MEXICO

EXHIBIT "A"

DWN	AMM	6 - 66	LOCATION PLAT EME SWD WELL L-21	SCALE 1" = 4000'
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	DWG NO.

PRODUCTIVE FORMATIONS OF WELLS WITHIN A
TWO-MILE RADIUS OF PROPOSED E-M-E SWD WELL L-21

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>FORMATION</u>
Atlantic	Coleman	1	Yates, San Andres
"	Coleman	2	Grayburg, San Andres
"	State "D"	1	Grayburg
"	State "J"	1	Yates, Queen
"	State "L"	2	Grayburg, San Andres
Cities Service	Felton	1	Seven Rivers, Queen
"	State "C"	1	Seven Rivers, Queen, Grayburg
"	State "C"	2	Seven Rivers, Queen, Grayburg
"	State "C"	3	Seven Rivers, Queen, Grayburg
"	State "C"	4	Seven Rivers, Queen, Grayburg
"	State "D"	1	Seven Rivers, Queen
"	State "D"	2	Seven Rivers, Queen
"	State "D"	3	Seven Rivers, Queen
"	State "D"	4	Seven Rivers, Queen
"	State "D"	5	Seven Rivers, Queen
"	State "D"	6	Seven Rivers, Queen
"	State "D"	7	Seven Rivers, Queen
"	State "D"	8	Seven Rivers, Queen
Continental	Lockhart "A-18"	1	Yates, Penrose, Grayburg
"	" "	2	Penrose
"	" "	3	Yates, Grayburg
"	" "	5	Queen, Penrose
"	Lockhart "A-30"	1	Yates, Queen
"	" "	2	Queen
"	" "	3	Queen
"	" "	4	Queen
"	" "	5	Yates, Seven Rivers, Queen
"	" "	6	Seven Rivers, Queen
"	" "	7	Seven Rivers
"	" "	8	Seven Rivers
"	" "	11	Seven Rivers
"	Lockhart "B-28"	1	Penrose
"	" "	2	Penrose
"	" "	3	Yates, Seven Rivers, Queen, Penrose
"	" "	4	Penrose
"	" "	5	Penrose
"	" "	6	Yates, Seven Rivers, Queen, Penrose

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>FORMATION</u>
Continental	Meyer "A-1"	4	Grayburg
Contd.	"	5	Grayburg
"	"	7	Yates, Grayburg
"	"	8	Grayburg
"	"	9	Grayburg
"	"	10	Grayburg
"	"	11	Queen, Grayburg
"	"	12	Grayburg
"	"	13	Grayburg
"	"	14	Grayburg
"	"	15	Grayburg
"	"	16	Grayburg
"	Meyer "B-9"	3	Grayburg
"	Meyer "B-17"	1	Grayburg
"	"	2	Grayburg
"	State "C-20"	1	Grayburg
"	"	2	Penrose
"	"	3	Penrose
"	"	4	Penrose
"	"	5	Yates, Seven Rivers,
"	"		Grayburg
"	"	6	Penrose
"	"	7	Grayburg
"	"	8	Grayburg
"	State "D"	8	Grayburg
"	"	11	Grayburg
"	"	12	Queen, Grayburg
Gulf	Bell "A"	1	Grayburg
"	"	2	Queen, Grayburg
"	Bell "C"	1	Grayburg
"	"	2	Grayburg
"	"	4	Queen, Grayburg
"	Bell-Ramsey "A"	3	Grayburg
"	Felton	1	Queen, Grayburg
"	Janda "A"	1	Grayburg
"	"	2	Grayburg
"	Janda "B"	1	Seven Rivers, Queen,
"	"		Grayburg
"	"	5	Grayburg
"	Janda "C"	1	Grayburg
"	"	2	Grayburg
"	"	3	Grayburg
"	"	4	Grayburg
"	Leonard "A"	1	Grayburg
"	"	2	Grayburg
"	"	3	Seven Rivers, Queen,
"	"		Grayburg
"	"	4	Grayburg
"	"	5	Grayburg

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>FORMATION</u>
Gulf Contd.	Leonard "A"	6	Grayburg
"	"	7	Yates, Grayburg
"	"	8	Grayburg
"	W. A. Ramsey "A"	2	Queen, Penrose
"	"	15	Queen, Penrose
"	"	17	Yates, Seven Rivers, Queen, Penrose
"	"	26	Queen, Penrose
"	"	31	Queen, Penrose
"	"	33	Queen, Penrose
"	"	35	Queen, Penrose
"	"	37	Queen, Penrose
"	"	39	Queen, Penrose
"	"	40	Queen, Penrose
"	"	41	Queen, Penrose
"	"	42	Queen, Penrose
"	"	43	Queen, Penrose
"	"	44	Queen, Penrose
"	"	45	Queen, Penrose
"	"	46	Queen, Penrose
"	"	47	Queen, Penrose
"	"	48	Queen, Penrose
"	A. Ramsey "C"	1	Grayburg
"	"	2	Grayburg
"	"	3	Grayburg
"	"	4	Grayburg
"	"	5	Grayburg
"	"	6	Grayburg
"	"	7	Grayburg
"	"	8	Grayburg
"	"	9	Grayburg
"	"	10	Grayburg
"	"	11	Grayburg
"	"	12	Grayburg
"	"	13	Yates, Seven Rivers, Grayburg
"	"	14	Grayburg
"	"	15	Grayburg
"	A. Ramsey "D"	1	Penrose
"	"	2	Queen, Penrose
"	"	3	Yates, Seven Rivers, Queen, Penrose, Grayburg
"	"	4	Queen, Penrose
"	"	5	Queen, Penrose
"	"	6	Seven Rivers, Queen, Penrose
"	"	9	Seven Rivers, Queen, Penrose
"	"	12	Queen, Penrose
"	"	14	Queen, Grayburg

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>FORMATION</u>
Humble	Eumont Gas	1	Seven Rivers, Queen,
"	Unit II		Penrose
"	State "B"	1	Seven Rivers, Queen,
"	"	2	Penrose
"	"	3	Penrose, Grayburg
"	"	4	Penrose, Grayburg
"	"	5	Grayburg
"	"	6	Penrose
"	"	8	Penrose
"	"	9	Penrose
"	"	10	Penrose
"	"	11	Penrose
"	State "C"	1	Grayburg
Pan American	State "I"	1	Grayburg
"	"	2	Grayburg
"	State "J"	1	Grayburg, San Andres
Pollard, C.C.	State	1	Queen
Shell	Coleman	1	Seven Rivers
"	"	1-A	Seven Rivers
"	"	2	Seven Rivers
"	Dev. State	1	Seven Rivers
"	"	1-A	Seven Rivers
"	"	2	Seven Rivers
"	"	3	Seven Rivers
"	"	4	Seven Rivers
"	State "B"	1	Seven Rivers
Sinclair	Adkins	3	Grayburg
"	"	6	Grayburg
"	"	9	Queen
"	State "176"	1	Queen
"	"	2	Queen
"	"	3	Queen
"	"	4	Queen
"	"	6	Queen
"	"	7	Queen
"	State "F-DE"	1	Queen
"	"	2	Queen
"	"	3	Seven Rivers, Queen
"	"	4	Queen
"	"	5	Queen

<u>COMPANY</u>	<u>LEASE</u>	<u>WELL NO.</u>	<u>FORMATION</u>
Skelly	Coleman	1	Penrose, Grayburg
"	Mexico "V"	1	Yates, Penrose, Grayburg
"	State "B"	1	Penrose, Grayburg
"	"	2	Queen, Penrose, Grayburg
"	"	3	Penrose, Grayburg
"	"	4	Queen, Penrose, Grayburg
"	"	6	Penrose, Grayburg
"	"	7	Yates
"	State "C"	1	Queen, Penrose, Grayburg
Stand. of Texas Meredith		1	Seven Rivers, Queen
"	"	2	Seven Rivers, Queen
"	"	3	Seven Rivers, Queen
"	State "2-20"	1	Seven Rivers, Queen
Texaco	Rector	1	Penrose, Grayburg
"	"	2	Penrose, Grayburg
"	"	3	Penrose, Grayburg
"	"	4	Penrose, Grayburg
"	"	5	Seven Rivers
Tidewater	Coleman	1	San Andres
"	"	2	San Andres
"	"	3	San Andres
"	"	4	San Andres
"	(GO) State "A"	1	San Andres
"	(GO) State "B"	1	San Andres
"	(GO) State "C"	1	San Andres
"	State "D"	1	San Andres
"	"	2	San Andres
"	State "E"	1	San Andres
"	"	2	San Andres
"	State "G"	1	San Andres

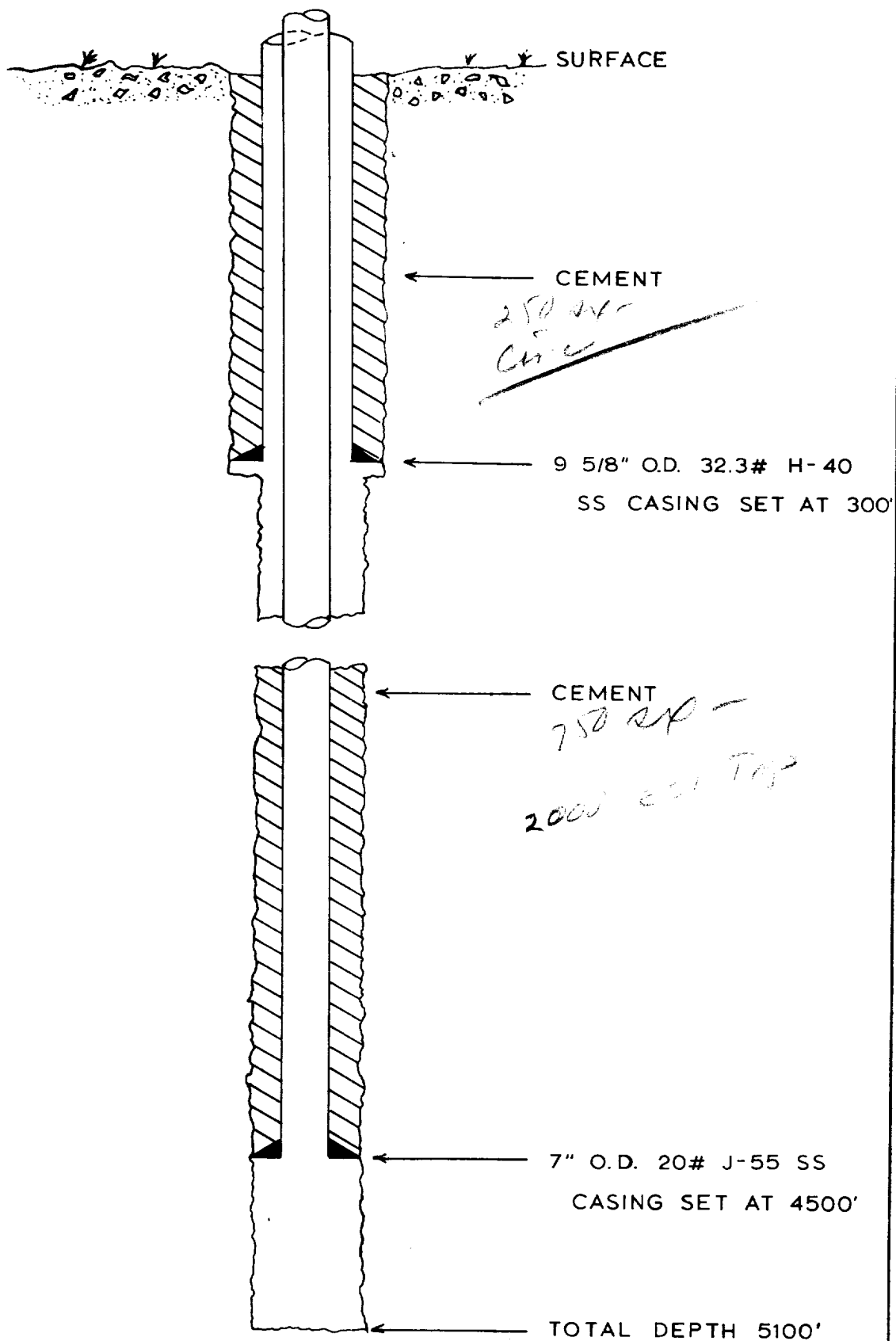


EXHIBIT "B"

DWN	AMM	6-66	PROPOSED COMPLETION EME SWD WELL L-21	SCALE NONE
				DWG NO.
			Rice Engineering & Operating, Inc. Hobbs, New Mexico	

FORMATION WATER ANALYSIS

MILLIGRAMS PER LITER

GRAYBURG

Sodium, Na	5,060
Calcium, Ca	665
Magnesium, Mg	295
Sulphate, SO ₄	120
Chloride, Cl	9,620
Bicarbonate, HCO ₃	1,910
Hydrogen Sulphide, H ₂ S	<u>180</u>
TOTAL SOLIDS	17,850
pH	7.6
Specific Gravity	1.009