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Line Rec 1

CONTINENTAL OIL COMPANY

P. O. Box 1631
Durango, Colorado
November 10, 1966

New Mexico Oil Conservation Commission (2)
P. O. Box 2038
Santa Fe, New Mexico

Attn: Mr. A. L. Porter, Jr. - Director & Secretary

Gentlemen:

Continental Oil Company hereby makes application to inject salt water into the Pennsylvanian "BCD" Pool in the Rattlesnake Field, San Juan County, New Mexico, through Well No. 143 (J-12-29-19). Commission Order No. R-2780, June 19, 1964, granted permission to initiate pressure maintenance of the Pennsylvanian "CD" Pool. Water injection under the subject order was discontinued in February, 1966, after injection of 243,386 barrels of water into Well No. 140 (H-11-29-19).

Injected fluid will be produced salt water from the Pennsylvanian "BCD" Pool at rates ranging from 200 to 500 barrels per day. The salt water will be injected into the Table Mesa and Rattlesnake formations through Well No. 143 (J-12-29-19), which was shut-in as non-commercial in January, 1966.

If any additional information is required, please advise.

Very truly yours,

William K. Decker

H. D. Haley
District Manager
Durango District
Production Department

JB/ca
Att.

cc: N.M.O.C.C., P. O. Box 697, Alamo, New Mexico
State Engineer Office, Capitol Building, Santa Fe, New Mexico
Navajo Tribe, Window Rock, Arizona
U. S. Geological Survey, Farmington, New Mexico
Mr. E. A. Austin, Continental Oil Company, Denver, Colorado

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

OPERATOR Continental Oil Company			ADDRESS P. O. Box 1621, Durango, Colorado		
LEASE NAME Federal-Navajo		WELL NO. 143	FIELD Rattlesnake Penn.		COUNTY San Juan
LOCATION					
UNIT LETTER J ; WELL IS LOCATED 1980' FEET FROM THE South LINE AND 2125' FEET FROM THE East LINE, SECTION 12 TOWNSHIP 29N RANGE 19W NMPM.					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13 3/8"	329'	300	Surface	Returns
INTERMEDIATE	9 5/8"	4650'	370	710' 3325'	Calculations
LONG STRING Liner	7"	6721'	240	4650'	Calculations
Liner	4 1/2"	6870'	-	-	-
TUBING	2 7/8"	6660'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model "D" @ 6640'		
NAME OF PROPOSED INJECTION FORMATION Table Mesa & Rattlesnake			TOP OF FORMATION 6743'		BOTTOM OF FORMATION 6880'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?	PROPOSED INTERVAL(S) OF INJECTION		
Tubing		Open-Hole	6723'-6880'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL?	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?
No	Oil Production				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 Morrison - 1900'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA Dakota - 900'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA Miss. @ Table Mesa - 7400'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)
	200	500	Open	Pressure	1500
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	NATURAL WATER IN DISPOSAL ZONE	ARE WATER ANALYSES ATTACHED?
			Yes	Yes	No
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Navajo Tribe - Window Rock, Arizona					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL		THE NEW MEXICO STATE ENGINEER
	Yes		-		Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)	PLAT OF AREA		ELECTRICAL LOG		DIAGRAMMATIC SKETCH OF WELL
	Yes		Yes		Yes

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

William K. Dietrich
(Signature)

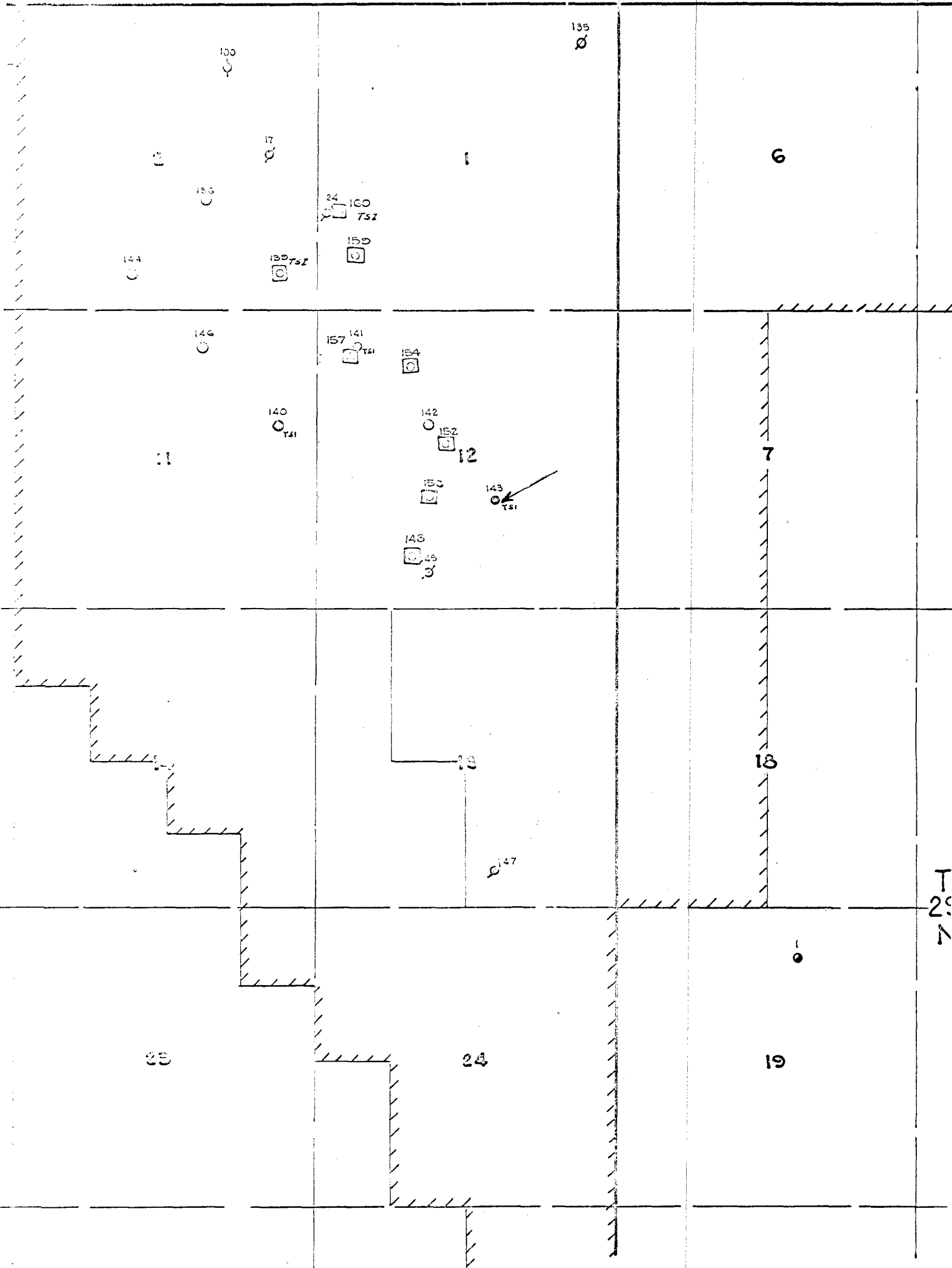
Asst. District Manager
(Title)

November 10, 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.

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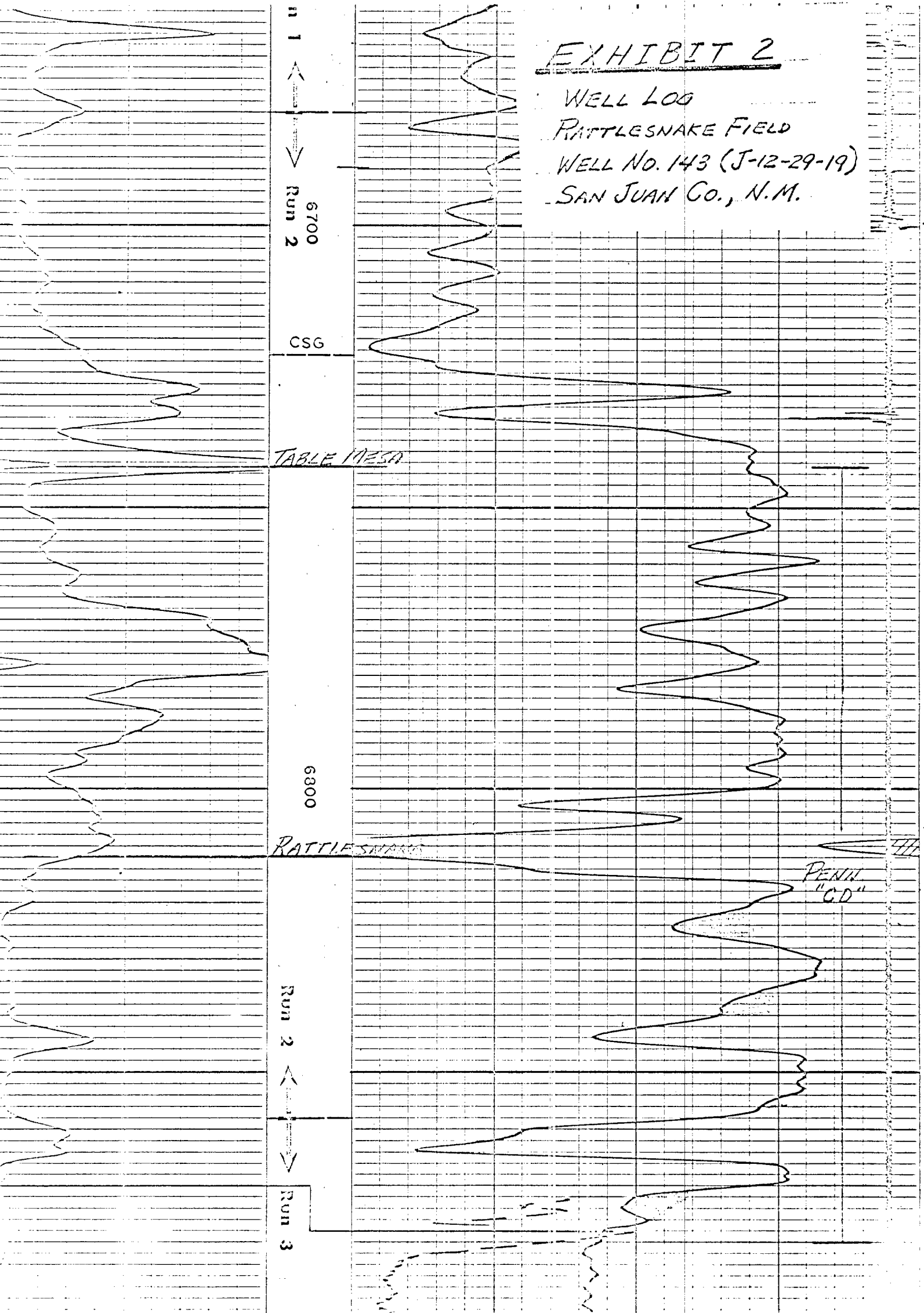
EXHIBIT 2

WELL LOG

RATTLESNAKE FIELD

WELL NO. 143 (J-12-29-19)

SAN JUAN CO., N.M.



CHARLES RAY
API UNITS

NEUTRON
STANDARD COUNTS SECOND

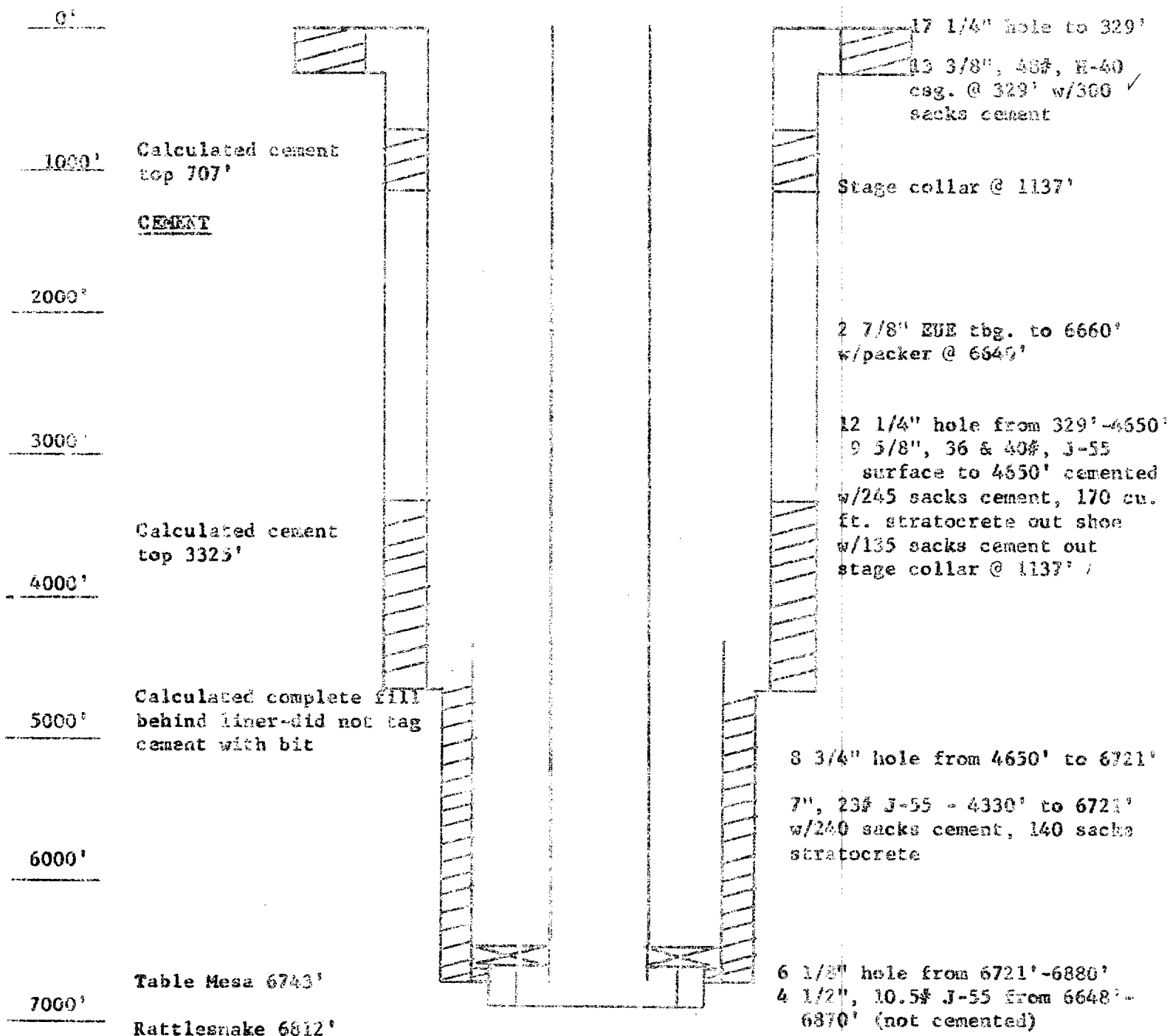


EXHIBIT 2

Schematic Completion Diagram
Rattlesnake Field
Well No. 143
San Juan County, New Mexico



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

December 5, 1966

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, NEW MEXICO 87501

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

105 DEC 6 1966

Dear Mr. Porter:

Reference is made to the application of Continental Oil Company which seeks administrative approval to inject salt water through their well #43 (J-12-29-19) into the Pennsylvanian "BCD" Pool in Rattlesnake Field.

After reviewing the application and the exhibits submitted therewith, and additional information submitted to me orally by Continental staff, it appears that the granting of the application would not cause a threat to any of the fresh waters existing in the area. Therefore, this office offers no objection to the granting of the application.

FEI/ma
cc-Continental Oil Co.

Yours truly,

S. E. Reynolds
State Engineer

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Div.