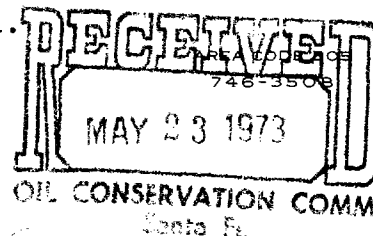


A. J. LOSEE  
JOEL M. CARSON

LAW OFFICES  
**LOSEE & CARSON, P.A.**  
300 AMERICAN HOME BUILDING  
P. O. DRAWER 239  
ARTESIA, NEW MEXICO 88210

21 May 1973



Mr. A. L. Porter, Jr., Secretary-Director  
Oil Conservation Commission of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

*SWD - 141*

*Due June 7*

Dear Mr. Porter:

In support of the application of Navajo Refining Company for administrative approval of an exception to the requirements of Rule 701-A of the Oil Conservation Commission of New Mexico, for a salt water disposal well, please find:

1. Commission Form C-108 in triplicate;
2. Plat of area;
3. Electric log;
4. Diagrammatic sketch of proposed injection well.

In addition to the foregoing, you will please consider the letter of Mr. Fred G. Hansen, President of Navajo Refining Company, addressed to you under date of May 9, 1973, setting forth the components of the refinery waste water which is proposed to be disposed of in this well.

In addition you are advised that this well was originally drilled by Charles Loveless to a total depth of 6,871 feet below the surface, where it was plugged and abandoned. Yates Petroleum Corporation, as Operator, proposes to re-enter this well and deepen the same to the Morrow zone of the Pennsylvanian system, where, if it is found non-productive of oil or gas, it will be deepened to the Devonian formation, where, if it is again found non-productive of oil or gas, it is proposed to be completed as a salt water disposal well and turned over to Navajo Refining Company.

Mr. A. L. Porter, Jr., Secretary-Director  
Oil Conservation Commission of New Mexico  
-2-

21 May 1973

The consent of Yates Petroleum Corporation, the operator of all leases within 1/2 mile of the proposed injection well, and Mr. Phillip Hefner, the surface owner, are hereto attached and made a part hereof.

If there is any further information I can furnish you in this matter, please do not hesitate to let me know.

Very truly yours,

LOSEE & CARSON, P.A.



A. J. Losee

AJL:jw  
Enclosures

cc w/enclosures: Navajo Refining Company  
Yates Petroleum Corporation  
Mr. Phillip Hefner

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

June 7, 1973

LOSEE & CARSON  
P. O. Drawer 239  
Artesia, New Mexico

Re: Order No. SWD-141  
Navajo Refining Company

Gentlemen:

Enclosed herewith please find Administrative Order SWD-141 for Navajo Refining Company's State CK Well No. 1 located in Unit C of Section 4, Township 17 South, Range 26 East, NMPM, Eddy County, New Mexico.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Oil Conservation Commission  
Drawer DD  
Artesia, New Mexico

- Oil & Gas Engineering Committee  
Box 127  
Hobbs, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2083

SAN ANTONIO, TEXAS 78201

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NEW MEXICO OIL CONSERVATION COMMISSION

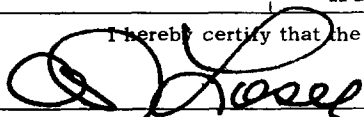
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Navajo Refining Company		ADDRESS P. O. Drawer 159, Artesia, N.M., 88210	
LEASE NAME State CK	WELL NO. 1	FIELD Wild Cat	COUNTY Eddy
LOCATION OWDD UNIT LETTER <u>C</u> ; WELL IS LOCATED <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>2,180</u> FEET FROM THE <u>West</u> LINE, SECTION <u>4</u> TOWNSHIP <u>17-S</u> RANGE <u>26-E</u> NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING Yes	8-5/8"	1,228'		Circulated	(Set)
INTERMEDIATE					
LONG STRING Yes	5/2"	8,600'	300	7,000'	Temp. Survey
TUBING Internal Plastic	2-1/2"	8,600'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker model D - 8,600'		
NAME OF PROPOSED INJECTION FORMATION Devonian		TOP OF FORMATION 8,500'		BOTTOM OF FORMATION 8,600-8,700'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? 2-1/2" tubing		PERFORATIONS OR OPEN HOLES? Perf	PROPOSED INTERVAL(S) OF INJECTION 8,550-8,650		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? OWDD oil or gas		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 1,000'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None in area		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA None in area	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 5,000	MINIMUM 10,000	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 1,000
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 - Unfit		WATER TO BE DISPOSED OF Refinery waste		NATURAL WATER IN DISPOSAL ZONE Salt brine	ARE WATER ANALYSES ATTACHED?
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) State land					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Yates Petroleum Corporation, Artesia, New Mexico					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes					
SURFACE OWNER Yes		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes		THE NEW MEXICO STATE ENGINEER No	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Attached		ELECTRICAL LOG Attached		DIAGRAMMATIC SKETCH OF WELL Attached	

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

  
(Signature)

Attorney

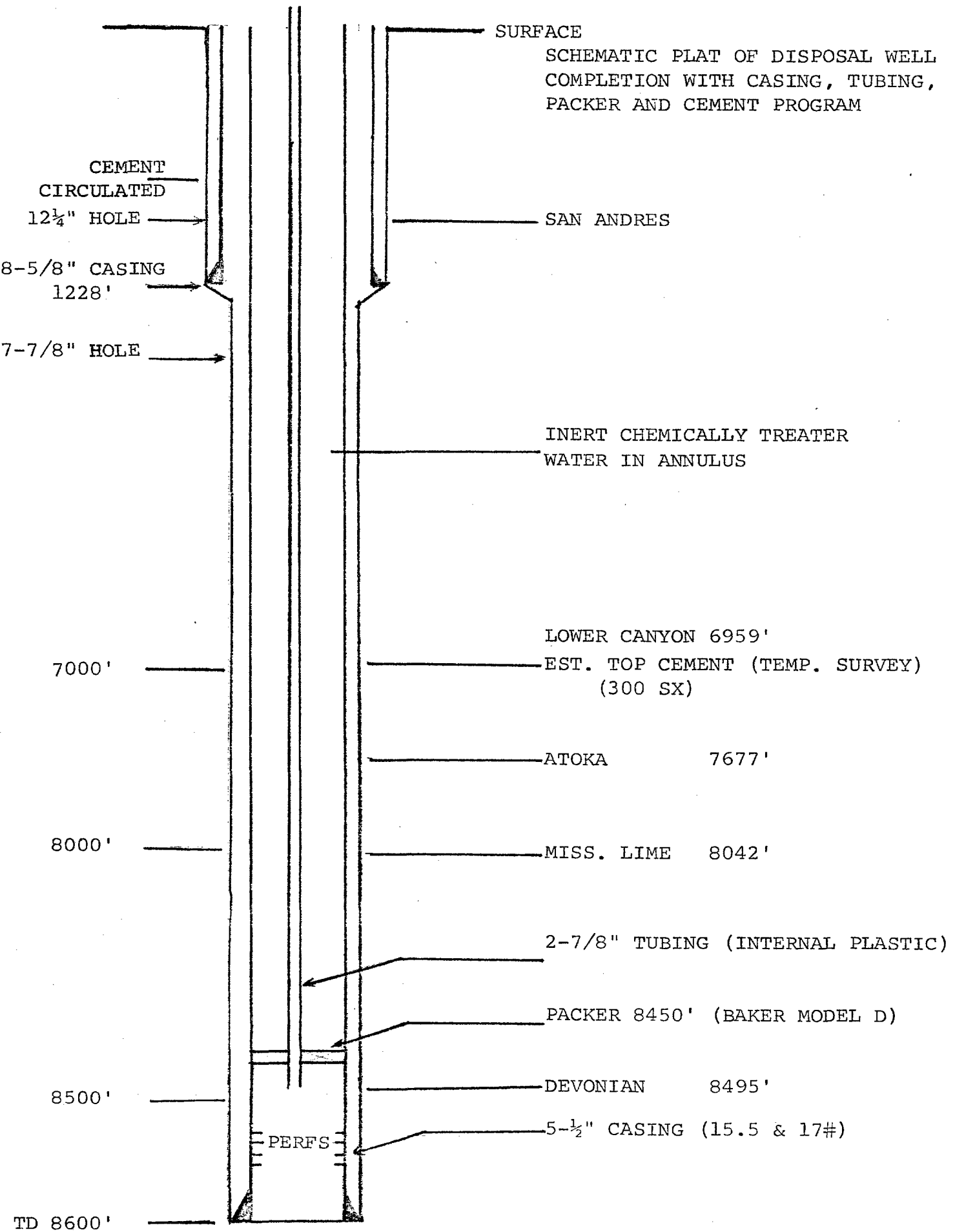
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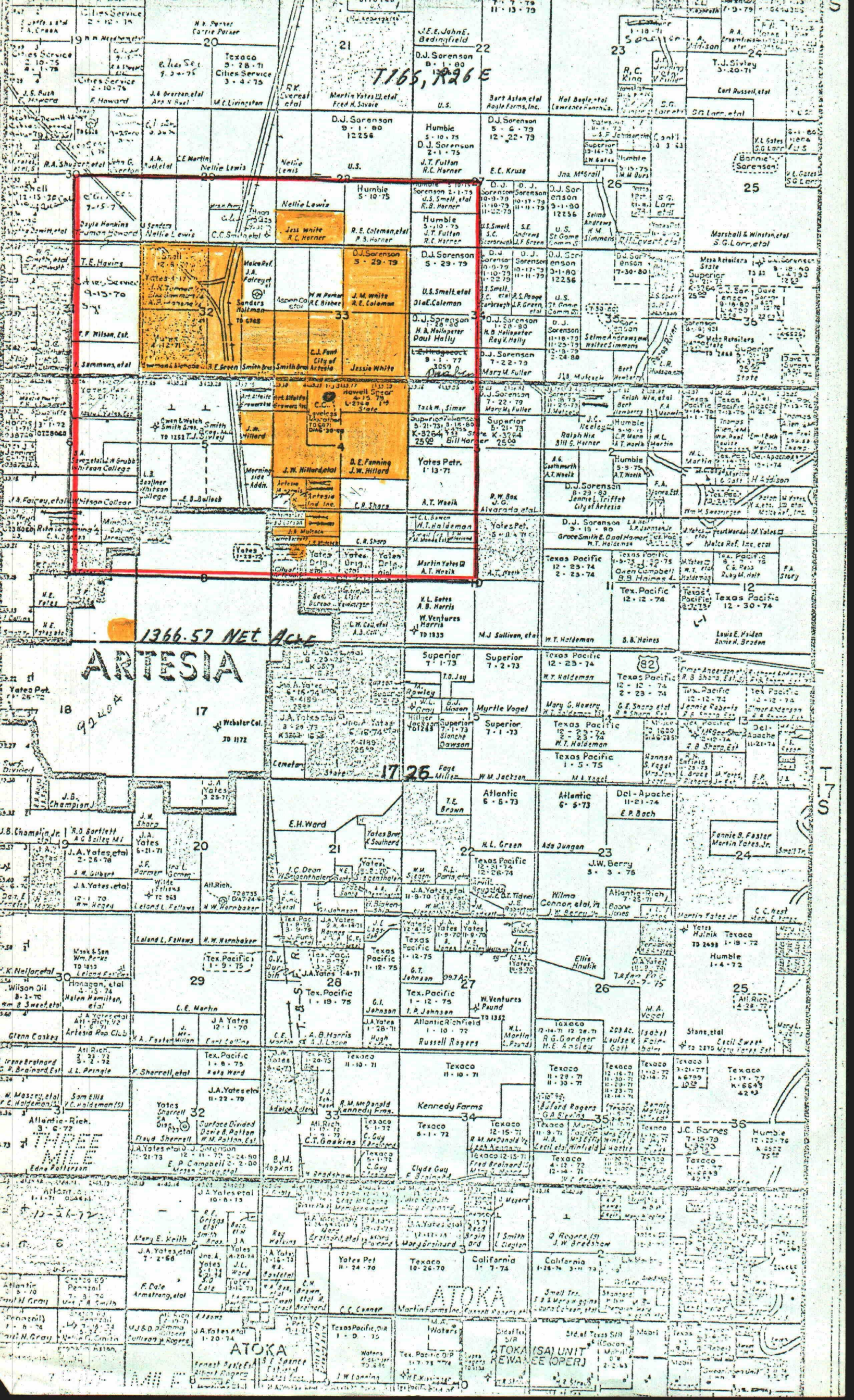
May 21, 1973

(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.

NAVAJO REFINING COMPANY  
 STATE CK #1 UNIT C 4-17-26  
 EDDY COUNTY, NEW MEXICO





T165, R26E

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**ARTESIA**

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# REFINING COMPANY

501 EAST MAIN STREET • P. O. DRAWER 159

ARTESIA, NEW MEXICO - 88210

May 9, 1973

*Salt water disposal*  
**RECEIVED**  
MAY 15 1973  
OIL CONSERVATION COMM  
Santa Fe

Mr. A. L. Porter  
Commissioner of Oil and Gas  
State Land Office Building  
Santa Fe, New Mexico 87501

Dear Sir:

Navajo Refining Company plans to drill a disposal well in the NENW of Section 4-T17S-R26E, approximately two miles north of the City of Artesia. We plan to use the Devonian formation for disposal of H<sub>2</sub>S gases and some refinery waste water. The H<sub>2</sub>S will be stripped from fuel gases prior to burning in our boilers and furnaces. This will be necessary to meet environmental standards. The refinery waste water will be wastes from certain processes in the refinery which contribute most heavily to the chemicals and biological oxygen demand in our overall waste disposal system. The following is more specific:

Gases

H<sub>2</sub>S - 12 mols per hour  
CO<sub>2</sub> - relatively small amounts.

These gases will come from an amine scrubbing process.

Liquids and Solids

Rate - estimated at 100 GPM containing the following in parts per million.

Oil and Grease	-	155 ppm
Phenols	-	34 ppm
Fluoride	-	30 ppm
Lead	- less than	100 ppb
Iron	- less than	100 ppb
Copper	- less than	10 ppb
Chromium	- less than	50 ppb
Phosphorus (as P)	-	1 ppm
Sodium Chloride	-	710 ppm
Sulfide	-	164 ppm

*Handwritten notes and signatures, including a large signature that appears to read 'A. L. Porter'.*



Mr. A. L. Porter  
Commissioner of Oil and Gas  
May 9, 1973

Page Two

Total Dis. Solids	-	2875 ppm
Chemical Oxygen Demand	-	200 ppm
Total Alkalinity	-	200 ppm
Total Hardness	-	700 ppm

This method of disposing of waste appears to be the best economic alternate available to Navajo Refining Company. Other methods are much more costly and could threaten the continued operation of the Artesia refinery.

For the reasons stated, Navajo plans to request permission to dispose of 12 mols per hour of H<sub>2</sub>S gases and 100 GPM of waste water into the Devonian formation through this well in Section 4-T17S-R26E, Eddy County, New Mexico. All reasonable safety and control requirements will be followed and your office will be advised before disposal begins.

This preliminary information is being forwarded at the suggestion of A. J. Losee who will contact your office the week of May 14, 1973 concerning the proper procedure to follow in obtaining commission approval for this disposal well.

Very truly yours,



Fred G. Hansen  
President

FGH-eh