

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

August 10, 1973

C
O
P
Y

Read & Stevens, Inc.
P. O. Box 2126
Roswell, New Mexico 88201

Gentlemen:

Enclosed herewith please find Administrative Order
SWD-147 for your Federal "L" Well No. 1 located in Unit B
of Section 21, Township 6 South, Range 27 East, NMPM, Chaves
County, New Mexico.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Oil Conservation Commission
Drawer DD
Artesia, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR Read & Stevens Inc.		ADDRESS P. O. Box 2126, Roswell, New Mexico	
LEASE NAME Federal "L"	WELL NO. 1	FIELD Haystack	COUNTY Chaves
LOCATION UNIT LETTER B ; WELL IS LOCATED 660 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE, SECTION 21 TOWNSHIP 6-S RANGE 27-E NMMP.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13 3/8"	30'	4 yds.	Circ.	Observation
INTERMEDIATE	8 5/8"	1350'	650 sks	Circ.	Observation
LONG STRING	4 1/2"	6350'	360 sks	4820'	Temp. Survey
TUBING	2 3/8"	6300'	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model Packer set @ 5975'		
NAME OF PROPOSED INJECTION FORMATION Montoya			TOP OF FORMATION 6324		BOTTOM OF FORMATION below T.D. 6350'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Perforations	PROPOSED INTERVAL(S) OF INJECTION 6325 to 6345'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Cisco gas production		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 5804'-5922'- plan to squeeze					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 350'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 5922'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5804	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 150	MINIMUM 400	MAXIMUM 400	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 - Yes			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Fred Van Eaton, Kenna, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Read & Stevens Inc., Box 2126, Roswell, 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	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes		PLAT OF AREA Yes		ELECTRICAL LOG Yes	
				DIAGRAMMATIC SKETCH OF WELL Yes	

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

(Signature)

Agent for Read & Stevens Inc.

(Title)

Aug 1, 1973

(Date)

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.

THE WESTERN COMPANY
Service Laboratory

WATER ANALYSIS

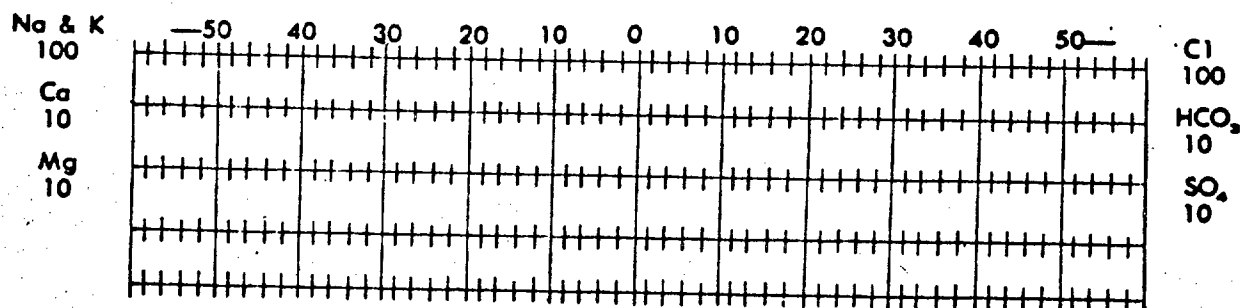
Operator	Shenandoah Oil Corporation	Date Sampled	5-2-71
Well	Read and Stevens Federal M-#1	Date Received	5-3-71
Field	Haystack	Submitted by	Hobbs District
Formation	Cisco	Worked by	Shrode
Depth	5600-5747'	Other Description	
County	Chaves Co., New Mexico		

CHEMICAL DETERMINATIONS

Density	1.125 @ 74° F.	pH	6.0
Iron	None	Hydrogen Sulfide	None
Sodium and Potassium	31,096 ppm	Bicarbonate	122 ppm
Calcium	9,600 ppm	Sulfate	950 ppm
Magnesium	2,650 ppm	Phosphate	ppm
Chloride	89,600 ppm	as Sodium Chloride	ppm

Remarks: Res. - 0.76 ohms @ 76° F.

for Stiff type plot (in meq./l.)



Per _____

CHARLES B. READ
PRESIDENT

NORMAN L. STEVENS, JR.
VICE-PRESIDENT

JOHN L. ANDERSON, JR.
EXPLORATION MANAGER

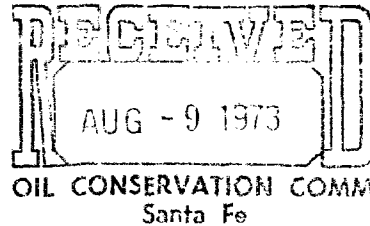
Read & Stevens, Inc.

Oil Producers

P. O. Box 2126

Roswell, New Mexico 88201

August 8, 1973



New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Dan Nutter

Re: Proposed Salt Water Disposal Well
Read & Stevens, Inc. #1 Federal "L"
Unit B, Section 21-6S-27E
Chaves County, New Mexico

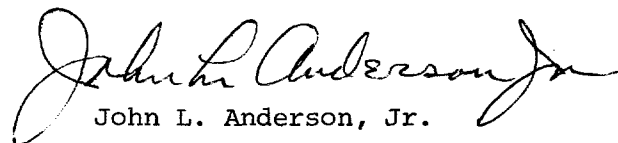
Gentlemen:

With reference to our application for conversion of the captioned well to a salt water disposal well, enclosed please find consent and approval letter as executed by Mr. Jack L. McClellan on behalf of McClellan Oil Corporation.

It is respectfully requested that administrative approval be granted to our application and that our scheduled hearing in this matter be dismissed without prejudice.

Yours very truly,

READ & STEVENS, INC.


John L. Anderson, Jr.

JLA:sw

Enc.

CC Mr. Donald G. Stevens w/encl.
P. O. Box 1797
Santa Fe, New Mexico 87501

CHARLES B. READ
PRESIDENT

NORMAN L. STEVENS, JR.
VICE-PRESIDENT

JOHN L. ANDERSON, JR.
EXPLORATION MANAGER

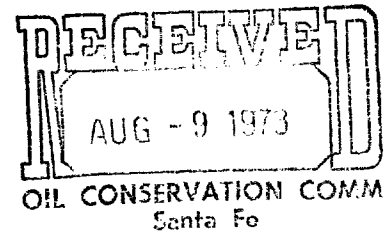
Read & Stevens, Inc.

Oil Producers

P. O. Box 2126

Roswell, New Mexico 88201

August 7, 1973



McClellan Oil Corporation
P. O. Box 848
Roswell, New Mexico 88201

Attention: Mr. Jack L. McClellan

Re: Proposed Salt Water Disposal Well
Read & Stevens, Inc. #1 Federal "L"
660 FNL & 1980 FEL Sec. 21-6S-27E
Chaves County, New Mexico

Gentlemen:

Read & Stevens, Inc. has filed application with the New Mexico Oil Conservation Commission to convert the above captioned well to a salt water disposal well. Salt water currently being produced from the Cisco formation in the Read & Stevens, Inc. #1 Federal "I", and currently being disposed of into your disposal system, will be disposed of through Devonian (Montoya) perforations 6325' to 6345' in the #1 Federal "L".

Enclosed for your consideration are the following items:

1. Exhibit "A" - Structure Map, well location and land map.
2. Exhibit "B" - Structural cross-section of Devonian (Montoya) through critical wells.
3. Exhibit "C" - Diagrammatic sketch of proposed installation of water injection equipment for the captioned well.
4. Exhibit "D" - OCC for C-108, Application to Dispose of Salt Water by Injection into a Porous Formation.

Due to your leasehold acreage position in the area, we request your approval and consent to our proposal outlined above. Should you concur in this request, we ask that you execute a copy of this letter for return to the above address.

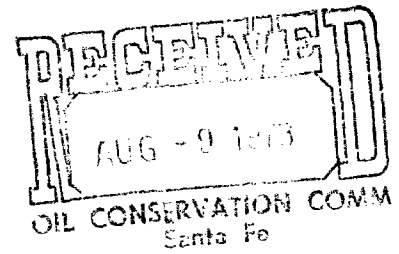
Yours very truly,

READ & STEVENS, INC.

A handwritten signature in cursive script, appearing to read "John L. Anderson Jr.".

John L. Anderson, Jr.

Read & Stevens, Inc.



McClellan Oil Corporation
August 7, 1973
Page 2

Approval and consent is hereby granted to the proposed salt water disposal well located in Unit B, Section 21, Township 6 South, Range 27 East N.M.P.M. Chaves County, New Mexico.

McClellan Oil Corporation

By *Jack L. McClellan*
Jack L. McClellan, President

Dated: August 7, 1973

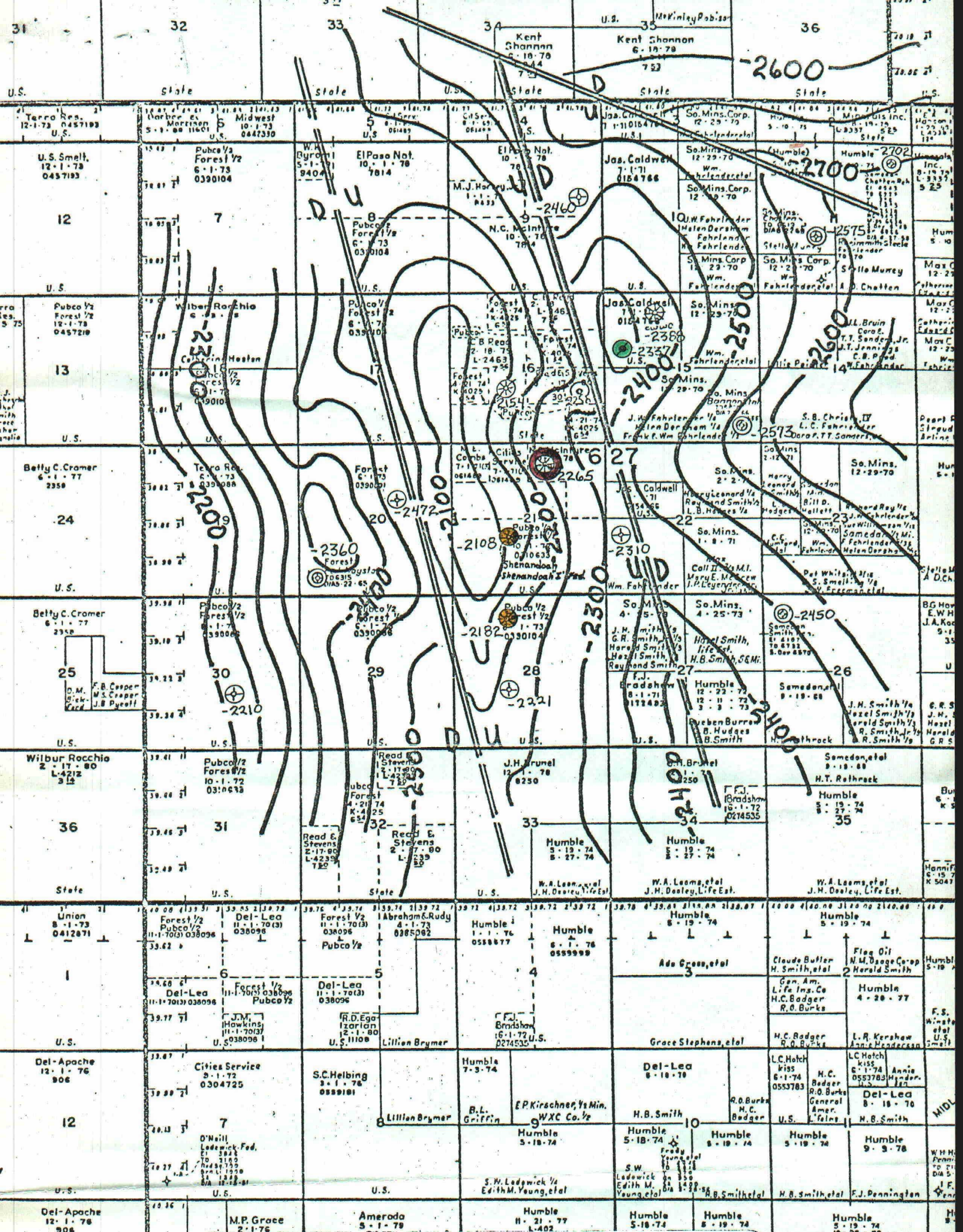


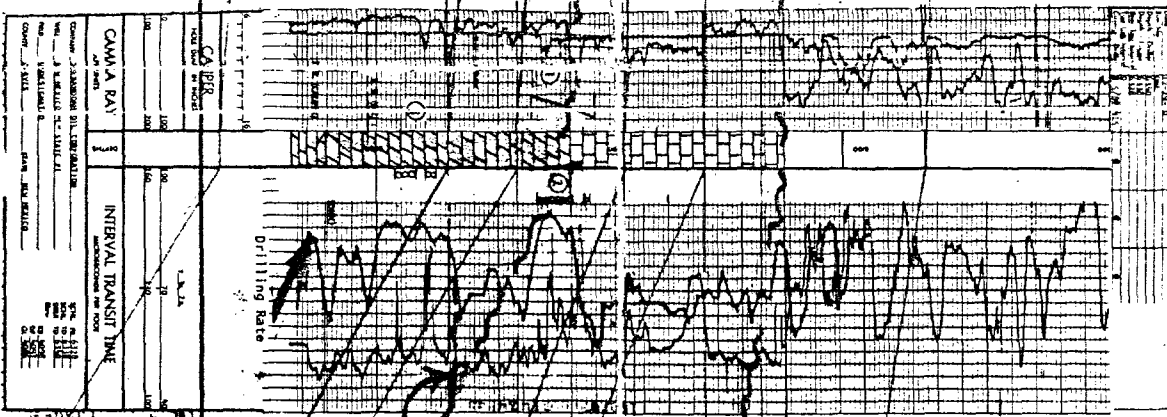
EXHIBIT "A"
Structure - Well Location - Land Map
Haystack Area, Chaves County, N.M.

Datum: Top Montoya fm. C.I.: 50 feet

- Proposed Salt Water Disposal Well
- Non-Producing Devonian (Montoya) oil well.
No production in 1973 - Cum.: 23,752 Bbls O.
- Currently producing Cisco Gas Wells

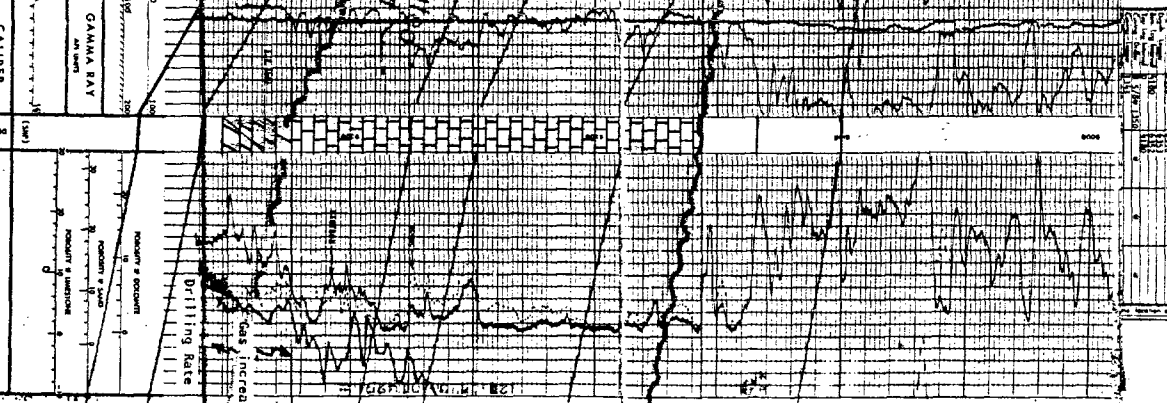
William J. LeMay - Geologist

COMPANY: SQUILGEE OIL CORPORATION
WELL: SQUILGEE 10916 108
FIELD: SQUILGEE
COUNTY: GAMMA RAY
STATE: MISSISSIPPI
LOCATION: 10916 108 & 10917 108
DATE: 11-1-73
TIME: 11:00 AM
DRILLING RATE: 0.00
CALIBER: 3 1/2



DST 62101-62361, 00, 11
JTS/77, 813, 200, RECORD dec. to 100, KES/EPD
PS 241-244
1213 168/11

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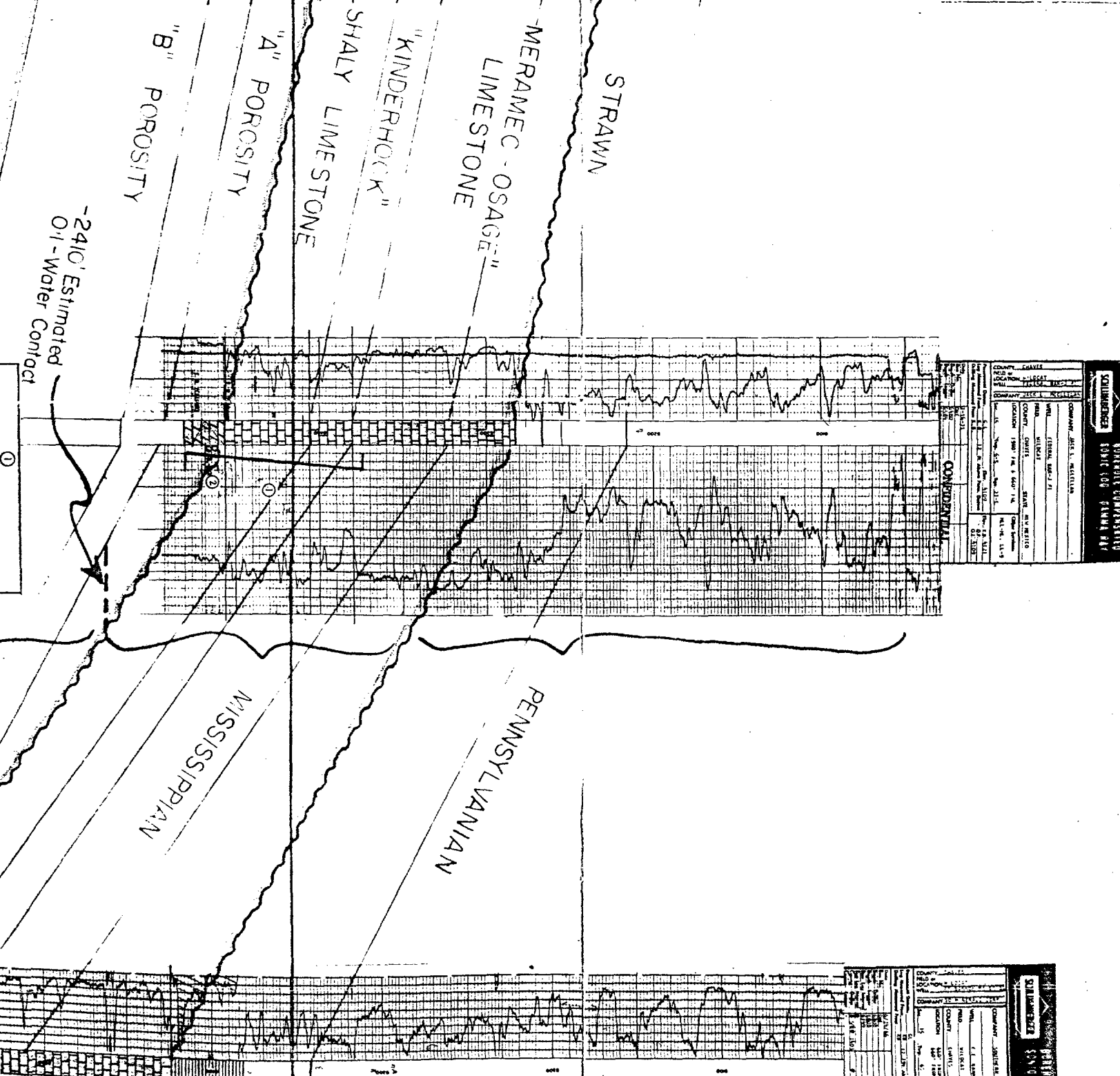
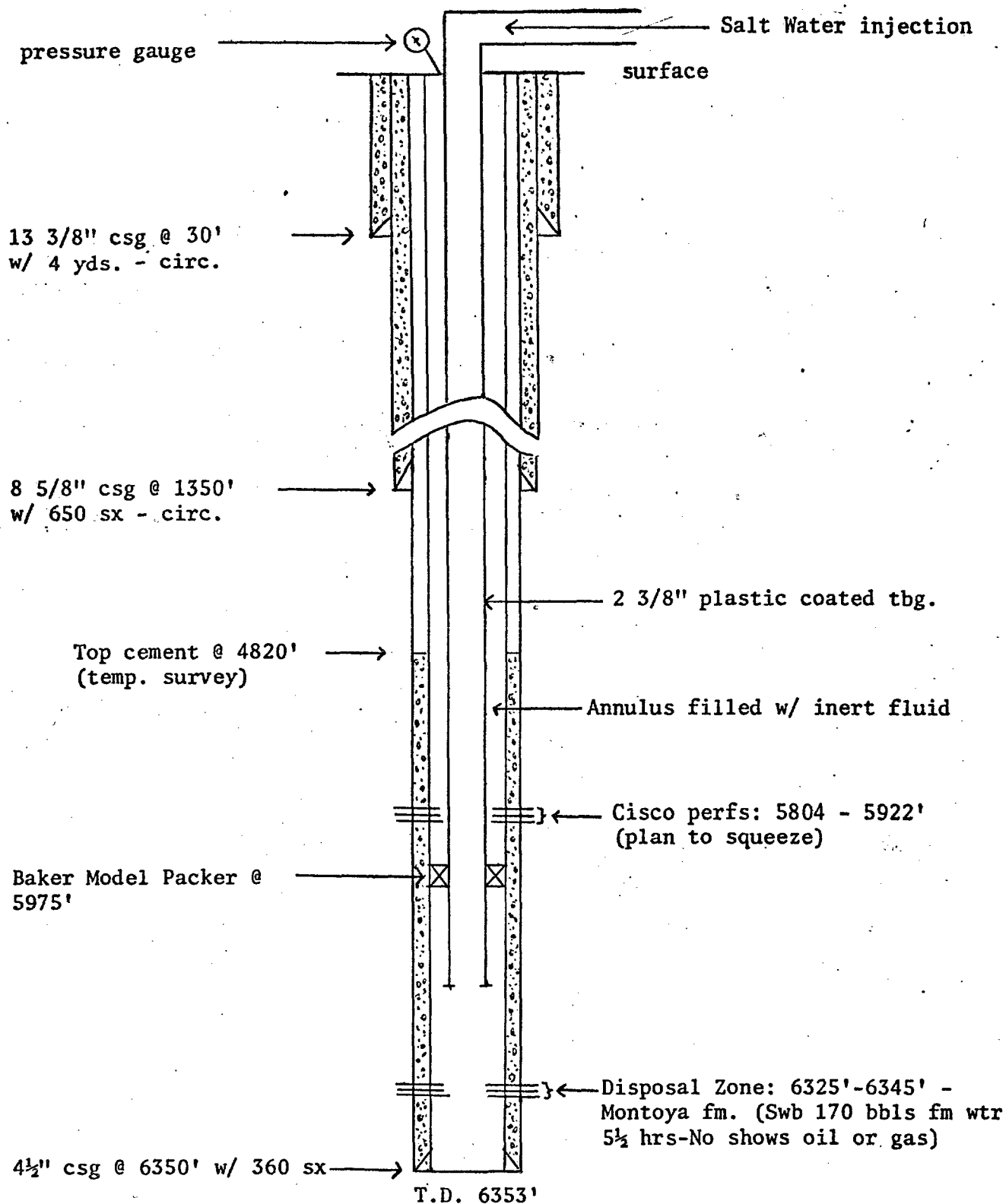


EXHIBIT "C"



DIAGRAMATIC SKETCH of proposed installation of Water Injection Equipment for Read & Stevens Inc. No. 1 Federal "L" located 660' FNL & 1980' FEL, Section 21, T-6-S, R-27-E, Chaves County, New Mexico.

William J. LeMay - Geologist

NEW MEXICO OIL CONSERVATION COMMISSION

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

OPERATOR		ADDRESS				
Read & Stevens Inc.		P. O. Box 2126, Roswell, New Mexico				
LEASE NAME	WELL NO.	FIELD	COUNTY			
Federal "L"	1	Haystack	Chaves			
LOCATION						
UNIT LETTER <u>B</u> ; WELL IS LOCATED <u>660</u> FEET FROM THE <u>North</u> LINE AND <u>1980</u> FEET FROM THE <u>East</u> LINE, SECTION <u>21</u> TOWNSHIP <u>6-S</u> RANGE <u>27-E</u> NMPM.						
CASING AND TUBING DATA						
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY	
SURFACE CASING	13 3/8"	30'	4 yds.	Circ.	Observation	
INTERMEDIATE	8 5/8"	1350'	650 sks	Circ.	Observation	
LONG STRING	4 1/2"	6350'	360 sks	4820'	Temp. Survey	
TUBING	2 3/8"	6300'	NAME, MODEL AND DEPTH OF TUBING PACKER			
		Baker Model Packer set @ 5975'				
NAME OF PROPOSED INJECTION FORMATION		TOP OF FORMATION		BOTTOM OF FORMATION		
Montoya		6324		below T.D. 6350'		
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS?		PERFORATIONS OR OPEN HOLE?		PROPOSED INTERVAL(S) OF INJECTION		
Tubing		Perforations		6325 to 6345'		
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		Cisco gas production		Yes		
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH						
5804'-5922'- plan to squeeze						
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA		
350'		5922'		5804		
ANTICIPATED DAILY INJECTION VOLUME (BBL'S.)	MINIMUM	MAXIMUM	OPEN OR CLOSED TYPE SYSTEM	IS INJECTION TO BE BY GRAVITY OR PRESSURE?	APPROX. PRESSURE (PSI)	
	150	400	Closed	Gravity		
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	Yes	
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)						
Fred Van Eaton, Kenna, New Mexico						
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL						
Read & Stevens Inc., Box 2126, Roswell, New Mexico						
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL		
		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.

(Signature)

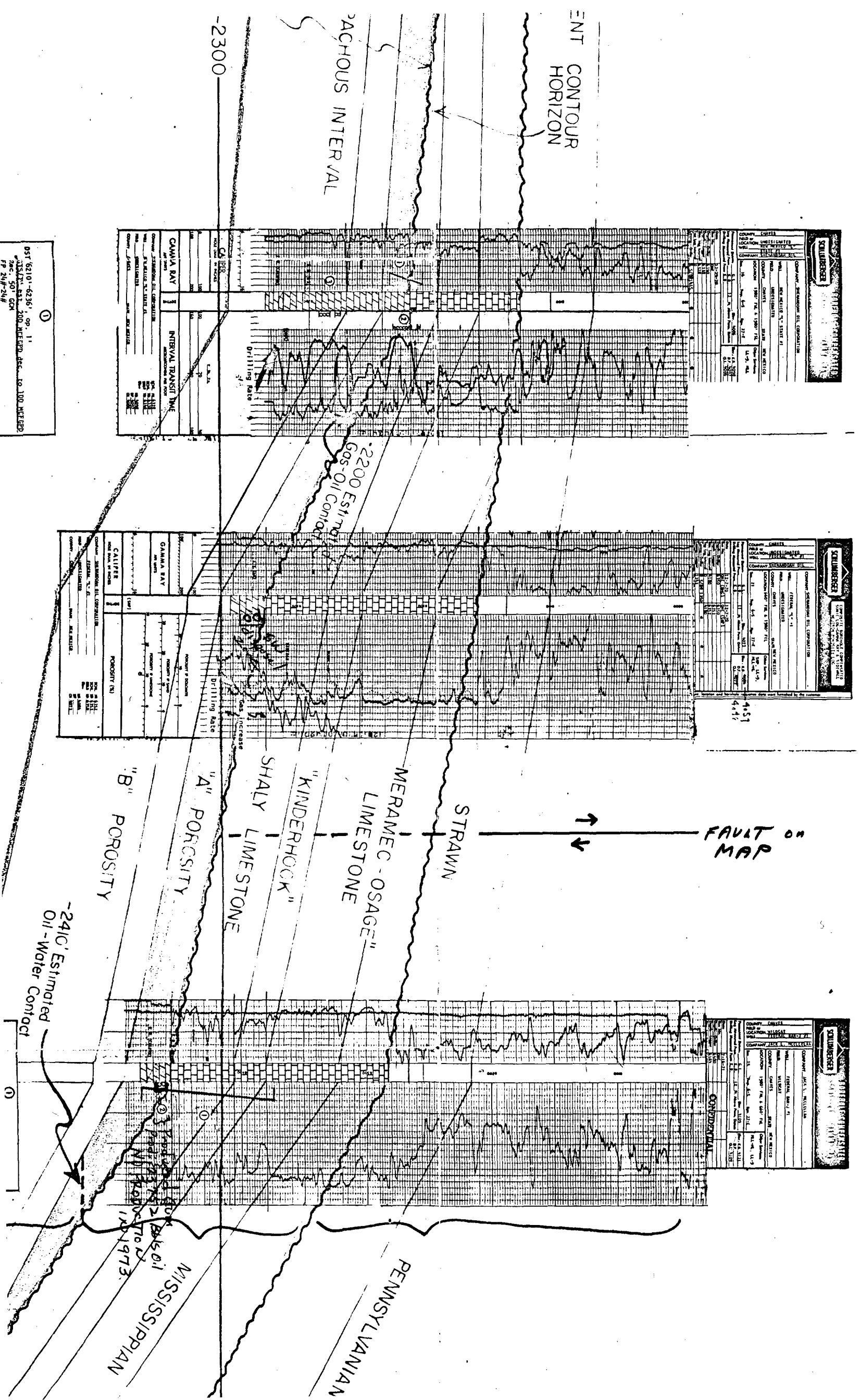
Agent for Read & Stevens Inc.

(Title)

Aug 1, 1973

(Date)

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.



SCHLUMBERGER**SIDEWALL
NEUTRON POROSITY LOG**COMPANY SHENANDOAH OIL CORPORATIONWELL FEDERAL "L" #1FIELD UNDESIGNATEDCOUNTY CHAVES STATE NEW MEXICOLocation: 660' FNL
1980' FEL

Other Services:

LL-7, MLL
BHCSec. 21 Twp. 6-S Rge. 27-EPermanent Datum: GL; Elev.: 4073
Log Measured From FB, 11 Ft. Above Perm. Datum
Drilling Measured From MBElev.: K.B. 4052
D.F. 4048
G.L. 4043

Date	<u>12-6-70</u>
Run No.	<u>ONE</u>
Type Log	<u>EPITHERMAL NEUTRON</u>
Depth—Driller	<u>6350</u>
Depth—Logger	<u>6353</u>
Bottom logged interval	<u>6352</u>
Top logged interval	<u>0</u>
Type fluid in hole	<u>Salt Gel</u>
Salinity, PPM Cl.	<u>100,000</u>
Density	<u>9.5</u>
Level	<u>FULL</u>
Max rec. temp., deg F.	<u>115</u>
Operating rig time	<u>3 HR</u>
Recorded by	<u>FREEMAN</u>
Witnessed by	<u>MCINTYRE</u>

EXHIBIT "B"

WELL LOG with TOPS and
PERFORATIONS.

BORE-HOLE RECORD				CASING RECORD			
Run No.	Bit	From	To	Size	Wgt.	From	To
1	7 1/8	CSG	TD	8 3/4		SURF	1350

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE