

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 052

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Mescalero Ridge

8. FARM OR LEASE NAME Unit

Mescalero Ridge "35"

9. WELL NO.

17

10. FIELD AND POOL, OR WILDCAT

Pearl-Seven Rivers

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 35-19S-34-E

12. COUNTY OR PARISH 13. STATE

Lea N. Mex.

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)1. OIL WELL ☒ GAS WELL ☐ OTHER

2. NAME OF OPERATOR

Hanson Oil Corporation

3. ADDRESS OF OPERATOR

P. O. Box 1515 - Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1980' FNL & 1650' FEL

Sec. 35, T-19-S, R-34-E, NMPM

Lea County, New Mexico

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3713 GL

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

(Other) Convert to disposal well

☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

It is hereby proposed to convert the captioned oil well to a salt water disposal well. The accompanying application to the State of New Mexico for permission to dispose of salt water by injection into this well gives all pertinent and true information to the best of our knowledge and is hereby made a part of this application.

Occ R-4156

18. I hereby certify that the foregoing is true and correct

SIGNED

Ronald E. Harrington

TITLE

Geologist

DATE 5-17-71

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED

JUN 24 1971

HUR R. BROOKS
DISTRICT ENGINEER

*See Instructions on Reverse Side



Hanson Oil Corporation

PETROLEUM BUILDING
P. O. BOX 1515
ROSWELL, NEW MEXICO 88201
505 622-7330

May 17, 1971

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

Re: Application for Salt Water Disposal
Pearl-Seven Rivers Field
Lea County, New Mexico

Gentlemen:

Hanson Oil Corporation, owner and operator of the Mescalero Ridge Unit "35" Well No. 17, located in Unit G of Section 35, Township 26 South, Range 31 East, NMPM, Pearl - Seven Rivers Field, Lea County, New Mexico, does hereby make application to convert said well for use as a salt water disposal well. Reference is made to the New Mexico Oil Conservation Commission Order No. R-3449 which was issued July 3, 1968, to Ernest A. Hanson authorizing the utilization of another well on this lease for this purpose.

Hanson Oil Corporation proposes to inject produced salt water into the Seven Rivers Formation through 2-3/8" internally plastic coated tubing installed in a HOWCO R-3 packer set at approximately 3970 feet, with injection into the perforated interval from 4020 feet to 4036 feet. The casing-tubing annulus will be filled with a non-corrosive inhibited water, and a pressure gauge will be installed at the surface as a check on any leakage.

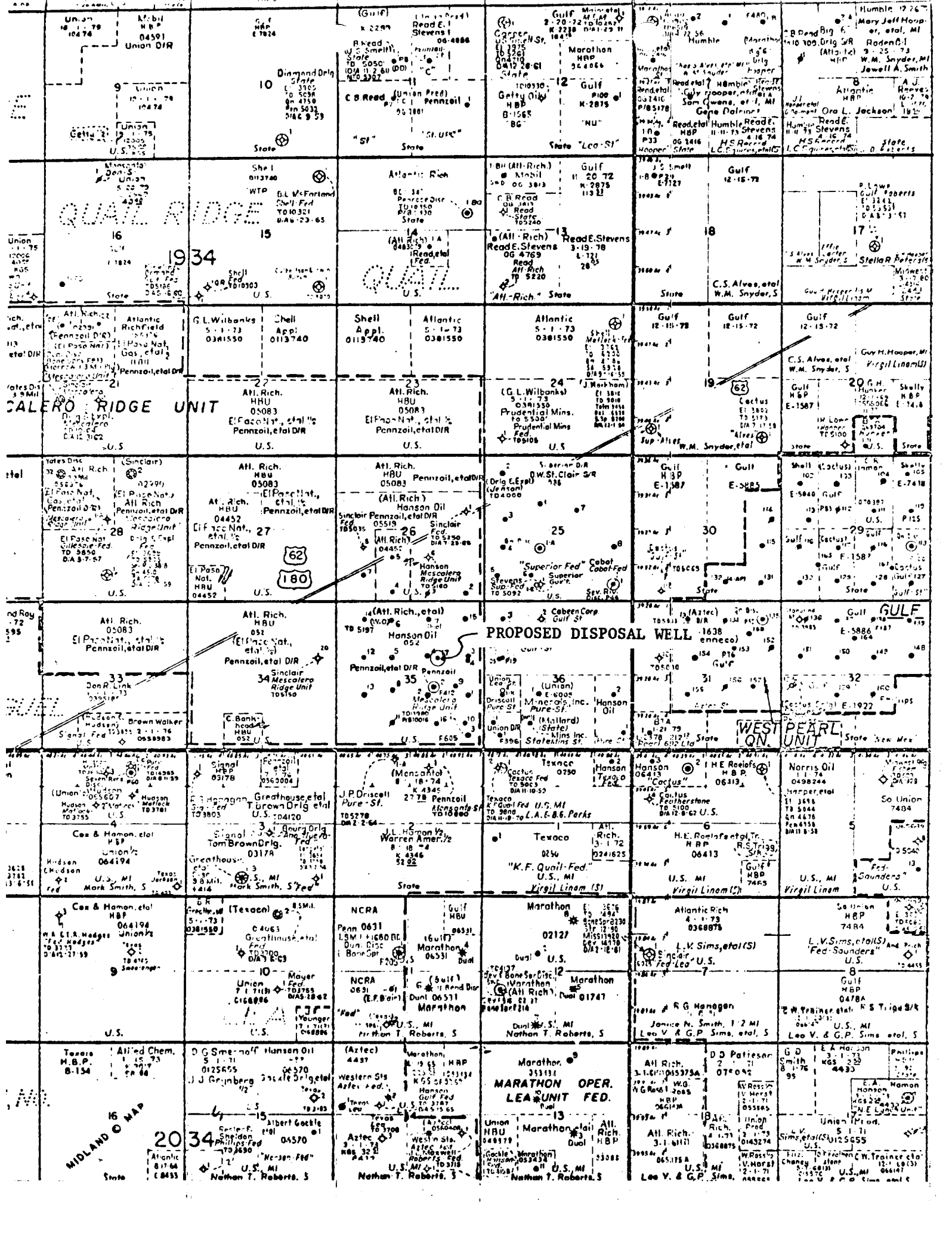
It is respectfully requested that this application be placed on the docket of the New Mexico Oil Conservation Commission hearing scheduled for June 16, 1971.

Yours very truly,

Gerald E. Harrington
Gerald E. Harrington
Geologist

GEH:ef

Enclosures: Plat
Gamma Ray-Densilog
Diagrammatic Sketch
Water Analysis
Form C-108



QUAIL RIDGE

QUAIL RIDGE UNIT

PROPOSED DISPOSAL WELL

WEST PEARL UNIT

MIDLAND O MAP

MARATHON OPER. LEA UNIT FED.



A DIVISION OF DRESSER INDUSTRIES, INC.

Perforating Formation Collar CHART

COMPANY E. A. Hanson
WELL Mescalero Ridge Unit 35 N° 17
FIELD Pearl (Seven Rivers)
LOCATION 1980 ENL 216.50 FEL 35 T-19-S, R-34-E
COUNTY Dea STATE New Mexico

ZERO POINT Ground Level +12'
TOTAL DEPTH (CUST.) 4040
TOTAL DEPTH (LANE WELLS) 4048
PERM. DATUM Ground Level

PERFORATED ZONES		
	DEPTH	SHOTS
FROM <u>C</u> TO <u>4036</u>		<u>1</u>
FROM <u>C</u> TO <u>4033</u>		<u>1</u>
FROM <u>C</u> TO <u>4031</u>		<u>1</u>
FROM <u>C</u> TO <u>4029</u>		<u>1</u>
FROM <u>C</u> TO <u>4027</u>		<u>1</u>
FROM <u>C</u> TO <u>4023.5</u>		<u>1</u>
FROM <u>C</u> TO <u>4020.5</u>		<u>1</u>
FROM _____ TO _____		
FROM _____ TO _____		

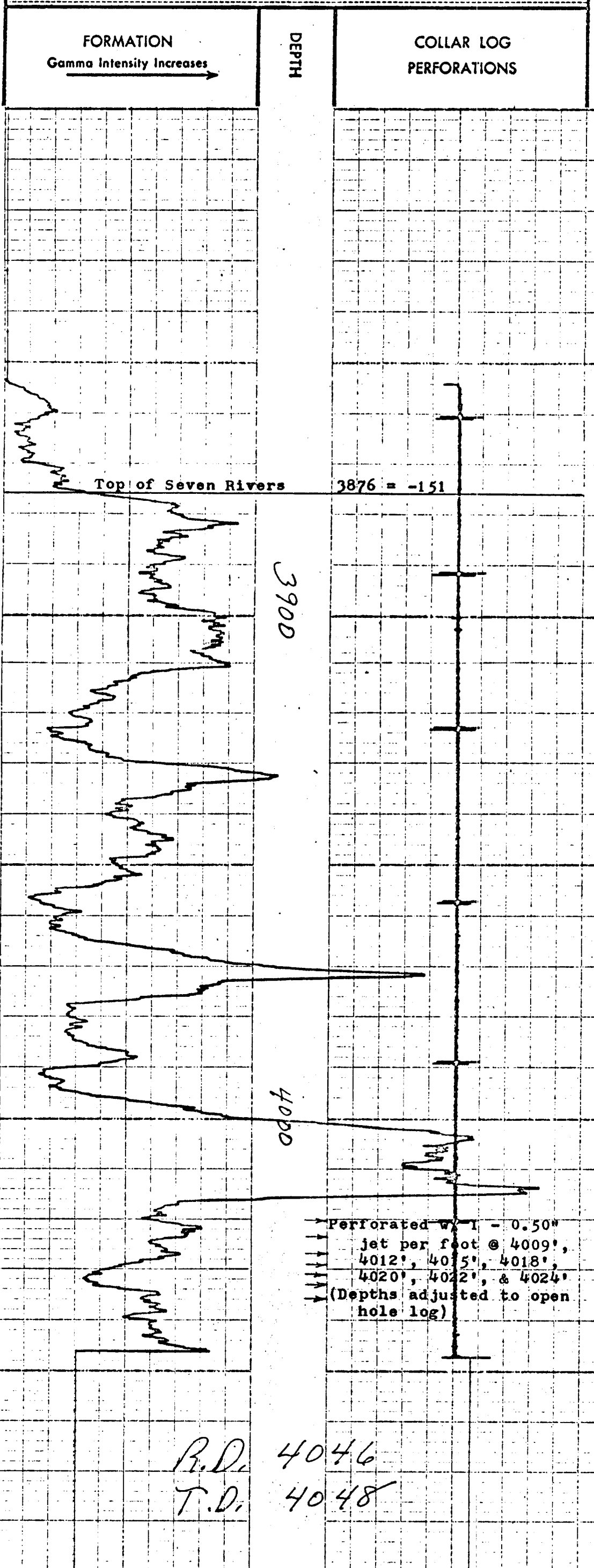
CASING RECORD		
Casing Size	Wt. (Lb./Ft.)	Depth
<u>5 1/2"</u>		<u>T.D.</u>

TYPE GUN Sebeckone SIZE 3 1/2" LENGTH _____
TYPE GUN _____ SIZE _____ LENGTH _____
DATE 5-9-67 S.O. NO. 170156 SERVICE UNIT HP1212
OPERATOR W. R. Hurst WITNESSED BY M. Schram

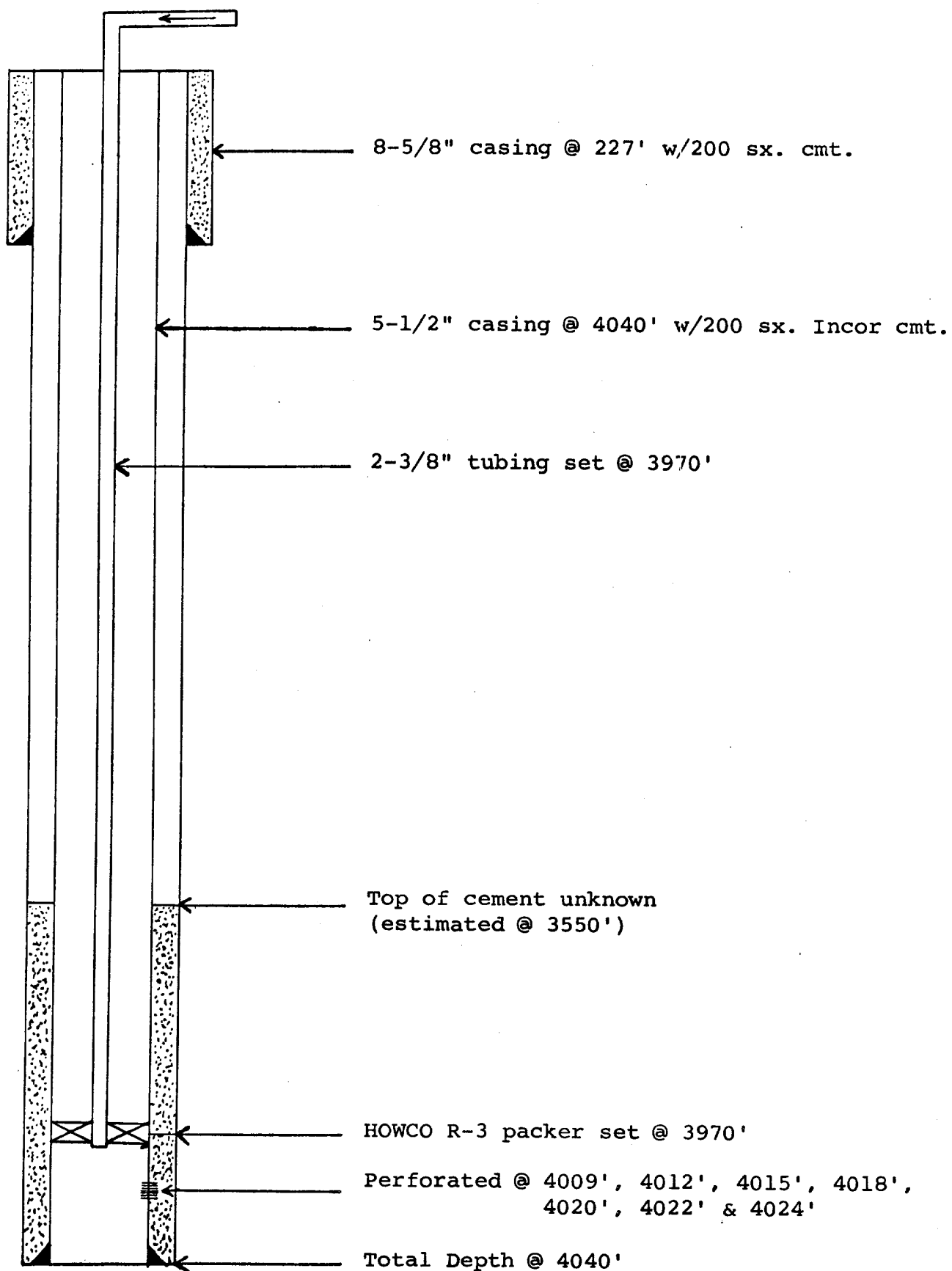
This Perforating-Formation-Collar Chart is offered to locate collars with respect to the formation and to correlate collars with open hole logs. Quality checks or calibrations are not made since the chart is not intended for formation evaluation. Only this field copy is made. No copies are retained in Lane-Wells files.

REMARKS OR OTHER DATA

Reset +8' to Open Hole Log



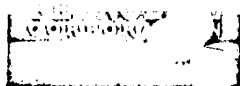
DIAGRAMMATIC SKETCH
Salt Water Disposal Well



RECEIVED

JUN 23 1971

OIL CONSERVATION COMM.
HOBBS, N. M.



JAN 27 1968

WATER ANALYSIS REPORT

COMPANY Hanson Oil Co. ADDRESS Roswell, N.M. DATE 1-26-68
 SOURCE Mescalero Ridge Unit DATE SAMPLED 1-20-68 ANALYSIS NO. 2040

Analysis	Mg/L	*Meq/L
1. PH <u>7.7</u>		
2. H ₂ S (Qualitative) <u>Neg.</u>		
3. Specific Gravity <u>1.000</u>		
4. Dissolved Solids <u>2,950</u>		
5. Suspended Solids <u> </u>		
6. Phenol Alkalinity (CaCO ₃) <u> </u>		
7. M. O. Alkalinity (CaCO ₃) <u>180</u>		
8. Bicarbonate (HCO ₃) <u>220</u>	÷ 61	<u>4</u>
9. Chlorides (Cl) <u>747</u>	÷ 35.5	<u>21</u>
10. Sulfates (SO ₄) <u>954</u>	÷ 48	<u>20</u>
11. Calcium (Ca) <u>80</u>	÷ 20	<u>4</u>
12. Magnesium (Mg) <u>24</u>	÷ 12.2	<u>2</u>
13. Total Hardness (CaCO ₃) <u>300</u>		
14. Total Iron (Fe) <u>1.3ppm</u>		
15. Barium (Qualitative) <u> </u>		
16. <u> </u>		

NOTED
JAN 28 1968
HANSON

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

	Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
4	Ca (HCO ₃) ₂	81.04	4			324
2	Ca SO ₄	68.07				
39	Ca Cl ₂	55.50				
	Mg (HCO ₃) ₂	73.17				
	Mg SO ₄	60.19	2			120
	Mg Cl ₂	47.62				
	Na HCO ₃	84.00				
	Na ₂ SO ₄	71.03	18			1,280
	Na Cl	58.46	21			1,230

Saturation Values Distilled Water 20°C

Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

REMARKS Mr. Ernest A. Hanson, Box 1515 Roswell N.M.Buford Parmer, Worsham, file

Respectfully submitted
TRETOLITE COMPANY
Ray Shaffner

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JUN 28 1971

OIL CONSERVATION COMM.
HOBBS, N. M.

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

OPERATOR Hanson Oil Corporation		ADDRESS P. O. Box 1515 - Roswell, New Mexico 88201	
LEASE NAME Mescalero Ridge Unit "35"	WELL NO. 17	FIELD Pearl - Seven Rivers	COUNTY Lea
LOCATION UNIT LETTER G ; WELL IS LOCATED 1980 FEET FROM THE North LINE AND 1650 FEET FROM THE East LINE, SECTION 35 TOWNSHIP 19-S RANGE 34-E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8"	227'	200	circulated	
INTERMEDIATE					
LONG STRING	5-1/2"	4040'	200	3550'	calculation
TUBING	2-3/8"	3970'	NAME, MODEL AND DEPTH OF TUBING PACKER HOWCO R-3 @ 3970'		
NAME OF PROPOSED INJECTION FORMATION Seven Rivers			TOP OF FORMATION 3876'		BOTTOM OF FORMATION Unknown
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES Perforations	PROPOSED INTERVAL(S) OF INJECTION 4009-4024'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Producing Oil Well				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 Unknown		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 3854'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 4572'	
ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 750	MINIMUM 2000	MAXIMUM Open	OPEN OR CLOSED TYPE SYSTEM Pressure	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Yes	APPROX. PRESSURE (PSI) 2000
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) W. M. Snyder Estate - Box 726 - Lovington, New Mexico 88260					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
Minerals, Inc. - P. O. Box 1320 - Hobbs, New Mexico 88240					
Union Oil Co. of California - Union Oil Bldg. - Midland, Texas 79701					
J. P. Driscoll - 3108 Southland Center - Dallas, Texas 75210					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	SURFACE OWNER 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 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)

Geologist

(Title)

5-17-71

(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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JUN 24 1971

OIL CONSERVATION COMM.
HOBBS, N. M.