

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  yes  no
- II. Operator: QUANICO OIL & GAS, INC.  
Address: P.O. Box 1714 EL DORADO, AR 71730  
Contact party: MR. DAVID ALEXANDER Phone: (505) 624-1702
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project?  yes  no  
If yes, give the Division order number authorizing the project \_\_\_\_\_.
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- ✓ VII. Attach data on the proposed operation, including:
  1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \* VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any. No Additional Stimulation will be used
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) All logs on file at Commission.
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. NO WATER WELLS WITHIN 1 MILE.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification  
I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  
Name: Donald K. Alexander Title Vice-President  
Signature: Donald K. Alexander Date: 4/15/87
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.  
\_\_\_\_\_

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INJECTION WELL DATA SHEET

Quarico Oil & Gas, Inc. "Mac" Federal  
OPERATOR LEASE  
# 2 990' FSL & 330' FEL 6 9-South 30-40-2  
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tabular Data

see attached schematic

Surface Casing 318'  
 Size 24" - 8 5/8" " Cemented with 175 sx.  
 TOC Surface feet determined by Cement circulated  
 Hole size 12"

Intermediate Casing None  
 Size \_\_\_\_\_ " Cemented with \_\_\_\_\_ sx.  
 TOC \_\_\_\_\_ feet determined by \_\_\_\_\_  
 Hole size \_\_\_\_\_

Long string 3335'  
 Size 10.5" - 4 1/2" " Cemented with 150 sx.  
 TOC 2800' feet determined by Volumetric bonds  
 Hole size 7 7/8"  
 Total depth 3335' P.B.T.D. = 3284'

Injection interval  
3247 feet to 3273 feet  
(perforated or open-hole, indicate which)  
(Perforated)

Tubing size 2 3/8" - 4.5# - J:55 lined with unlined set in a  
(material)  
Cherokee - 2 3/8" x 4 1/2" - Model 'B' packer at 3200' feet  
(brand and model)  
 (or describe any other casing-tubing seal).

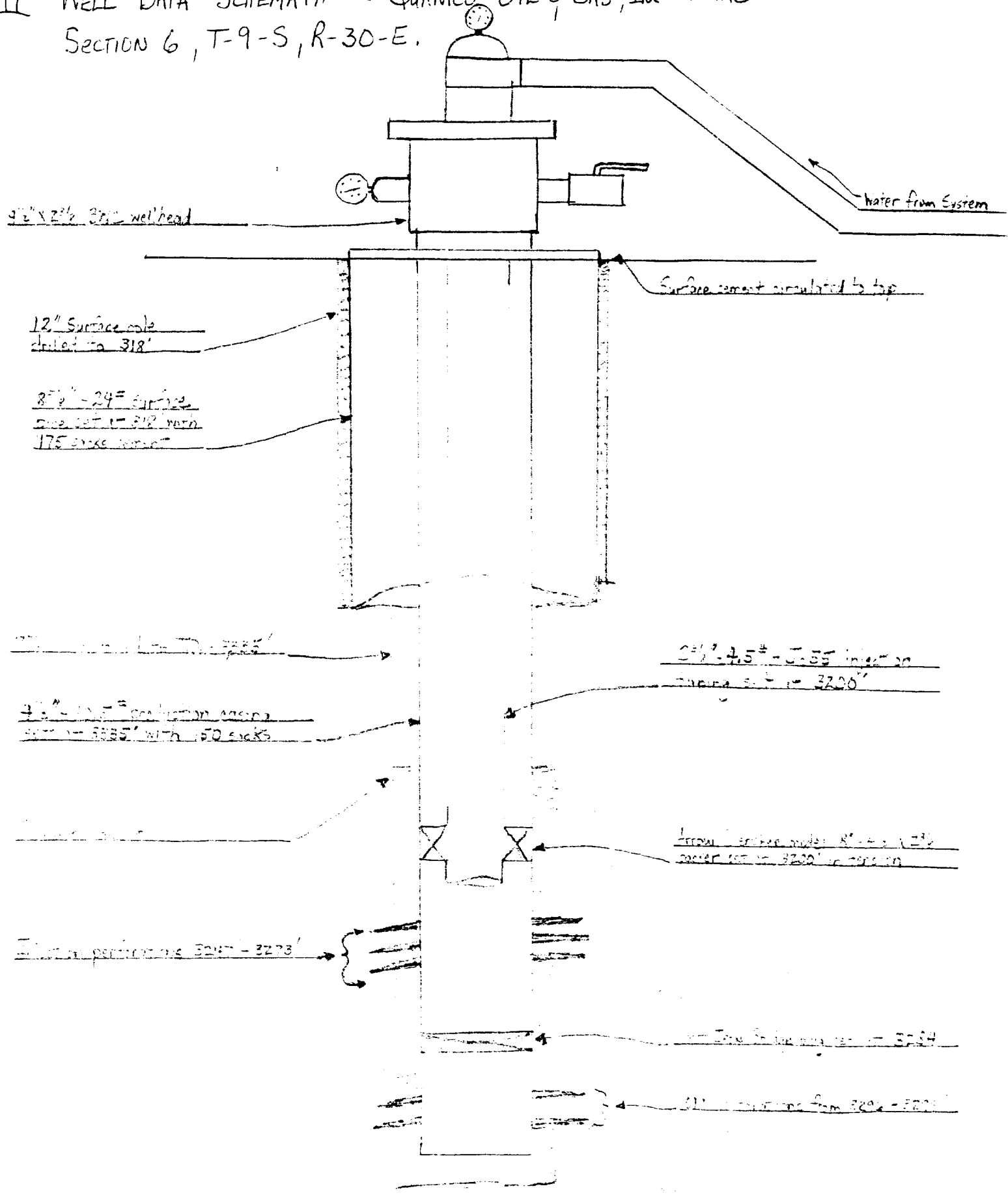
Other Data

- Name of the injection formation Cato - San Andres
- Name of Field or Pool (if applicable) Cato
- Is this a new well drilled for injection?  Yes  No  
 If no, for what purpose was the well originally drilled? production

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) \_\_\_\_\_  
old perforations from 3296' to 3296', sealed with cast iron  
bridge plug @ 3284'

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. There are no productive oil or gas zones, either overlying or underlying this zone, in this area.

III WELL DATA SCHEMATIC = QUANICO OIL & GAS, INC. - "MAC" FEDERAL - Z  
 SECTION 6, T-9-S, R-30-E.



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### III. WELL DATA

A. (1.) 'Mac' FEDERAL # 2 . SECTION 6 , T-9-S , R-30-E  
330' FEL & 990 FSL. (Schematic attached).

#### (2.) CASING DATA:

SURFACE :  $8\frac{5}{8}$ " - 24# SET AT 318' in 12" hole, WITH 175 sacks  
OF CEMENT. CEMENT TOP AT TOP OF GROUND. DETERMINED BECAUSE  
CEMENT WAS CIRCULATED (Schematic attached).

PRODUCTION :  $4\frac{1}{2}$ " - 10.5# SET AT 3335' in  $7\frac{7}{8}$ " hole, WITH 150 sacks  
OF CEMENT. CEMENT TOP AT 2800'. This was determined using volume  
FORMULA FOR ANNULUS BETWEEN OPEN HOLE AND CASING. (Schematic attached).

(3.) TUBING DATA:  $2\frac{3}{8}$ " - 4.5# J-55 unlined tubing will be set at  
3200'. (Schematic attached).

(4.) An Arrow Cherokee MODEL "R" -  $4\frac{1}{2}$ " X  $2\frac{3}{8}$ " PACKER WILL BE SET  
AT 3200', IN TENSION, WITH APPROX. 14,000# OVER STRING WEIGHT.  
(Schematic attached).

B. (1.) THE NAME OF THE INJECTION FORMATION IS THE CATO-SAN ANDRES.

(2.) THE INJECTION INTERVAL IS PERFORATED FROM 3247' - 3273'.

(3.) THIS WELL WAS ORIGINALLY DRILLED FOR PRODUCTION.

(4.) THIS WELL HAD ADDITIONAL PERFORATIONS FROM 3296' - 3298'. THESE  
PERFORATIONS WERE SHUT-OFF WITH A CAST-IRON BRIDGE PLUG SET  
AT 3284'.

(5.) THERE ARE NO OTHER OIL OR GAS ZONES PRODUCING, EITHER HIGHER OR  
LOWER, IN THE AREA OF THIS WELL.



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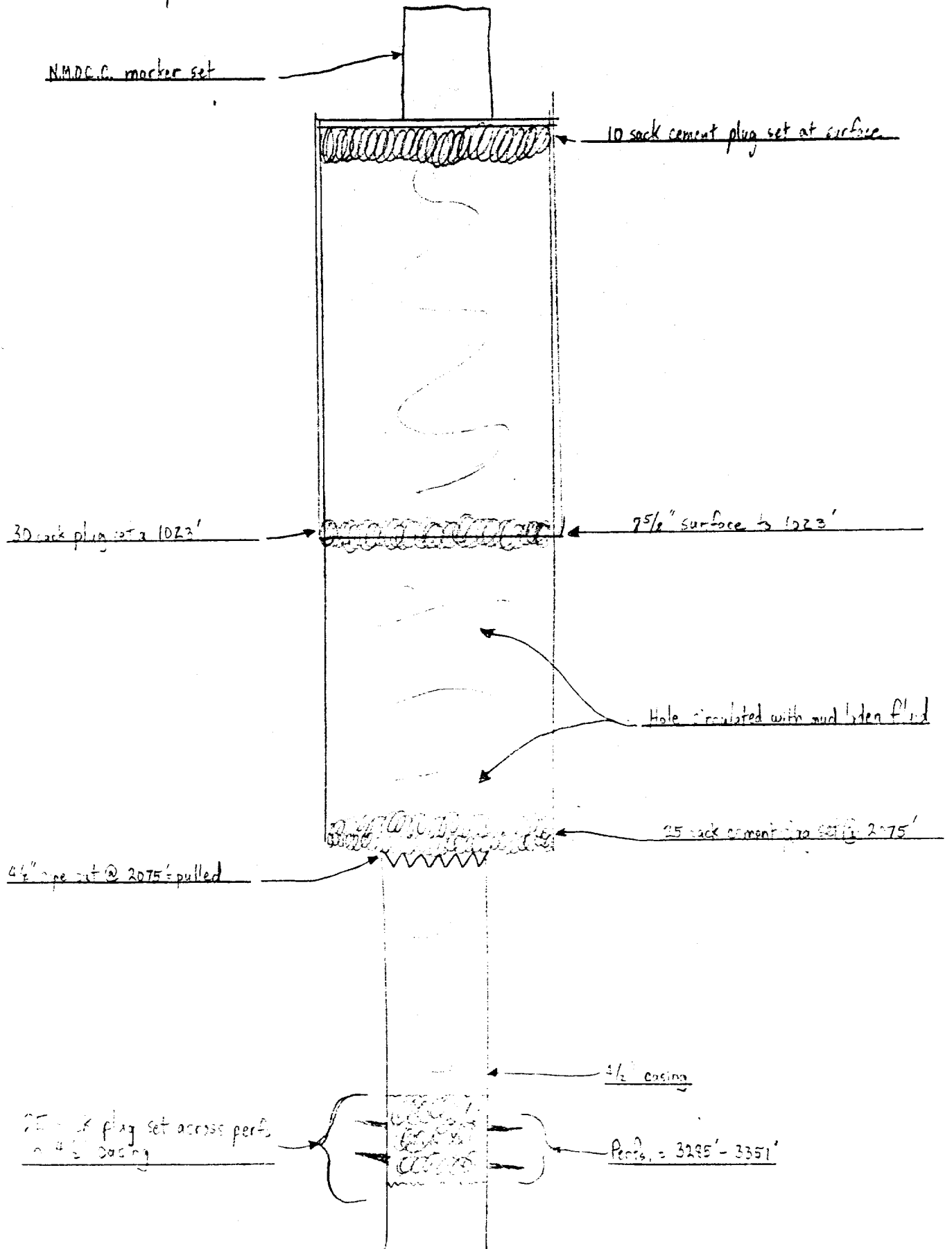


# VI. Wells located within area of review

Operator	Lease	Location	Casing	Data	Perforations	TD (ft)	Dates	Type
Wince Oil & Gas, Inc.	NM-25478 Mac Federal #1	Chaves Co. NM 2310' FSL & 330' FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3332' w/175sx.	3306' - 3314'	3306' - 3314'	TD = 3340' P&TD = 3314'	Drilled = 7/10/75 Comp. = 8/24/75	San Andres Producer
Wince Oil & Gas, Inc.	Marshall #1	Chaves Co. NM 2310' FNL & 330' FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3360' w/150sx.	3274' - 3314'	3274' - 3314'	TD = 3360' P&TD = 3344'	Drilled = 4/12/74 Comp. = 3/22/74	San Andres Producer
Wince Oil & Gas, Inc.	Marshall #2	Chaves Co. NM 2310' FNL & 1650' FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3390' w/175sx.	3295' - 3351'	3295' - 3351'	TD = 3374' P&TD = 3317'	Drilled = 12/21/74 Comp. = 7/12/74	San Andres Producer (PH)
Brown, JR.	Federal #1	Chaves Co. NM 330' FSL & 2310' FEL Sec. 6, T-9-S, R-30-E	8 5/8" @ 223' w/180sx.	Casing notch @ 3258'	Casing notch @ 3258'	TD = 3475' P&TD = 3227'	Drilled = 9/27/74 Comp. = 10/29/74	San Andres Producer (PH)
Wells Energy	Thelma Crosby B #3	Chaves Co. NM 1930' FNL & 710' FNL Sec. 5, T-9-S, R-30-E	9 1/2" @ 3475' w/1450sx	3302' - 3306'	3302' - 3306'	TD = 3329' P&TD = 3445'	Drilled = 11/20/74 Comp. = 8/12/74	San Andres Producer
Wells Energy	Mc Graw #1	Chaves Co. NM 1980' FSL & 1980' FNL Sec. 5, T-9-S, R-30-E	4 1/2" @ 3329' w/1400sx	3282' - 3316'	3282' - 3316'	TD = 3470' P&TD = 3322'	Drilled = 8/12/74 Comp. = 12/1/74	San Andres Producer
Wells Energy	Mc Graw #2	Chaves Co. NM 1980' FSL & 660' FNL Sec. 5, T-9-S, R-30-E	8 5/8" @ 254' w/150sx	3279' - 3308'	3279' - 3308'	TD = 3450' P&TD = 3318'	Drilled = 5/22/77 Comp. = 8/12/74	San Andres Producer
Wells Energy	Mc Graw #3	Chaves Co. NM 1990' FSL & 930' FNL Sec. 5, T-9-S, R-30-E	5 1/2" @ 3450' w/2380sx	3267' - 3292'	3267' - 3292'	TD = 3410' P&TD = 3410'	Drilled = 11/14/74 Comp. = 9/17/77	San Andres Producer
Wells Enterprises	Peterson Federal #1	Chaves Co. NM 1980' FSL & 1980' FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3340' w/150sx	3282' - 3289'	3282' - 3289'	TD = 3325' P&TD = 3325'	Drilled = 12/21/74 Comp. = 12/21/74	San Andres Producer
Peterson Oil Properties	Federal #1	Chaves Co. NM 1990' FNL & 660' FEL Sec. 7, T-9-S, R-30-E	4 1/2" @ 3355' w/150sx.	3280' - 3317'	3280' - 3317'	TD = 3360' P&TD = 3317'	Drilled = 12/19/75 Comp. = 12/19/75	San Andres Producer
Wray Corporation	Recher #1	Chaves Co. NM 660' FNL & 660' FNL Sec. 8, T-9-S, R-30-E	4 1/2" @ 3364' w/250sx	3239' - 3283'	3239' - 3283'	TD = 3350' P&TD = 3216'	Drilled = 9/10/74 Comp. = 12/18/75	San Andres Producer
Wray + Dale Gandy	Western Reserves #1	Chaves Co. NM 660' FNL & 1980' FNL Sec. 8, T-9-S, R-30-E	4 1/2" @ 3350' w/250sx	3265' - 3334'	3265' - 3334'	TD = 3330' P&TD = 3317'	Comp. = 5/11/74	San Andres Producer

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VI. Plugging Schematic = Wolfson Oil Co. Marshall T-2  
2310' FNL & 1650' FEL of Sec. 6 T-9-S, R-30-E, Chaves Co. NM



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

to BE FILED IN THE OFFICE OF THE DISTRICT ENGINEER  
(Other instructions on reverse side)

Budget Project No. 42-R1424

NMOCG - ARIZONA

NMOCG - TEXAS

BLM - SANTA FE

SUMMARY 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.

5. LEASE DESIGNATION AND SERIAL NO.

New Mexico ~~035448~~ 035448

6. IF INDIAN, ALLOTTEE OR TRUST LAND

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal-6

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

Wildcats

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

Sec. 6, T-9-S, R-30-E

12. COUNTY OR PARISH; 13. STATE

Chaves New Mexico

1.  OIL WELL  GAS WELL  OTHER Day

2. NAME OF OPERATOR  
H. L. Brown, Jr.

3. ADDRESS OF OPERATOR  
704 Vaughn Building, Midland, Texas

4. DEPTH OF WELL (Report location clearly and in accordance with any state requirements. See page 17 below.)  
330' FSL & 2310' FSL of Sec. 6, T-9-S, R-30-E

14. PERMIT NO.

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

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SEEDING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other) \_\_\_\_\_

(Note: Report results of multiple completion on Well Completion or Reservoir 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.)

On October 5, 1967, this well was plugged and abandoned as follows:

- 10 sacks cement at 3258';
- Out off 4-1/2" casing at 2500' (top of cement @ 2550')
- 25 sacks cement at 2500';
- 25 sacks cement at 1850';
- 25 sacks cement at 930';
- 25 sacks cement at 273';
- 10 sacks cement at the surface with 4' 4 1/2" steel marker in place.

Hole was filled with 8.9# mud.

Completed at 8:00 P.M. on October 5, 1967.

Notification will be given when well site has been cleared and conditioned for final inspection.

18. If necessary, attach a true and correct copy of the survey on which the foregoing is based and correct.

APPROVED

DATE

1967

October 12, 1967

APPROVED BY

DATE

APPROVED

1967

OCT 10 1967

MAY 6 1968

J. W. SUTHERLAND  
DISTRICT ENGINEER

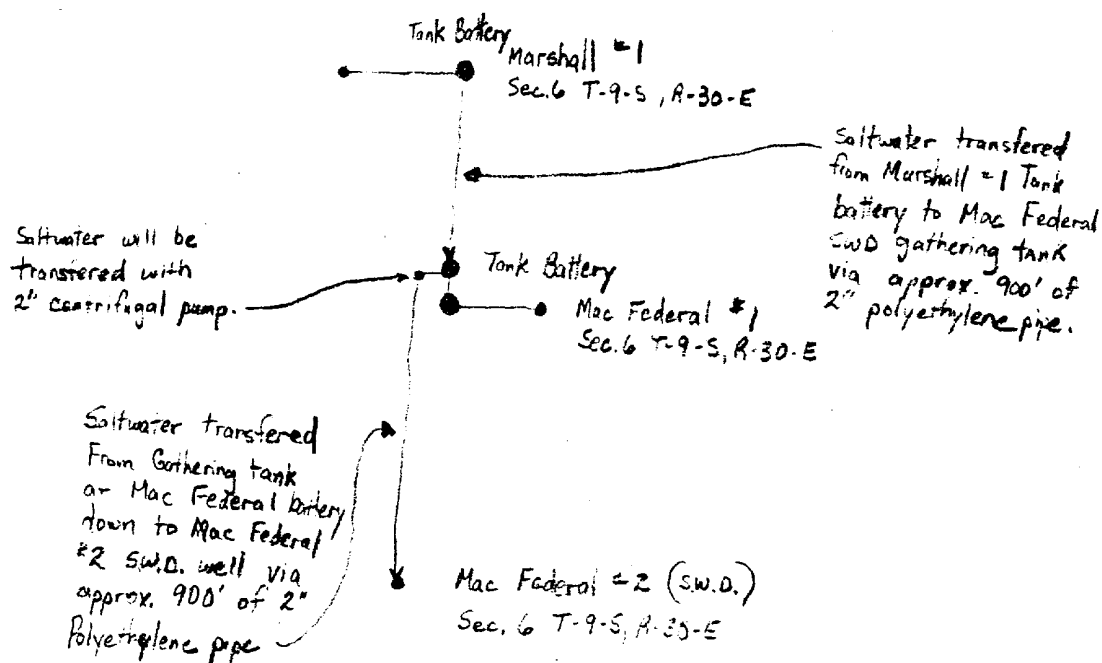
THIS INFORMATION ON THIS SHEET

U.S. GEOLOGICAL SURVEY

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## VII. DISPOSAL SYSTEM DATA

- (1.) WE PROPOSE TO INJECT A MAXIMUM OF 400 BARRELS OF FLUID PER DAY AT A RATE OF  $\frac{1}{2}$  BPM,
- (2.) THIS WILL BE A CLOSED SYSTEM,
- (3.) THE AVERAGE INJECTION PRESSURE WILL BE -0- WITH THE WELL ON A VACUUM. THE MAXIMUM PRESSURE WILL BE 10 #.
- (4.) THE SOURCE OF WATER IS FROM SAN ANDRES FORMATION PRODUCERS, AND SHOULD BE COMPATIBLE WITH WATER IN INJECTION FORMATION.
- (5.) See ATTACHMENT, WITH ENCLOSED WATER ANALYSIS.



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# WATER ANALYSIS REPORT

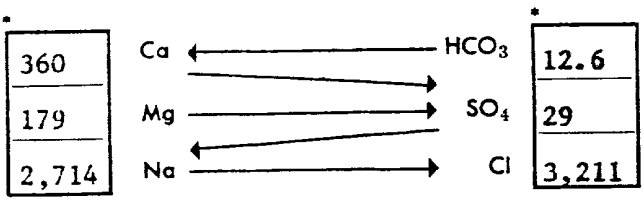
COMPANY Wolfson Oil Company ADDRESS Lovington, N.M. DATE: 2-7-79

SOURCE Mac Federal # 1 Kato Field DATE SAMPLED 1-25-79 ANALYSIS NO. 13755

Analysis	Mg/L	*Meq/L
1. pH	<u>6.17</u>	
2. H <sub>2</sub> S (Qualitative)	<u>Pos.</u>	
3. Specific Gravity	<u>1.140</u>	
4. Dissolved Solids	<u>187,934</u>	
5. Suspended Solids	<u>        </u>	
6. Phenolphthalein Alkalinity (CaCO <sub>3</sub> )	<u>        </u>	
7. Methyl Orange Alkalinity (CaCO <sub>3</sub> )	<u>630</u>	
8. Bicarbonate (HCO <sub>3</sub> )	HCO <sub>3</sub> <u>769</u>	÷ 61 <u>12.6</u> HCO <sub>3</sub>
9. Chlorides (Cl)	Cl <u>114,000</u>	÷ 35.5 <u>3,211</u> Cl
10. Sulfates (SO <sub>4</sub> )	SO <sub>4</sub> <u>1,375</u>	÷ 48 <u>29</u> SO <sub>4</sub>
11. Calcium (Ca)	Ca <u>7,200</u>	÷ 20 <u>360</u> Ca
12. Magnesium (Mg)	Mg <u>2,187</u>	÷ 12.2 <u>179</u> Mg
13. Total Hardness (CaCO <sub>3</sub> )	<u>27,000</u>	
14. Total Iron (Fe)	<u>2.0</u>	
15. Barium (Qualitative)		
16. Strontium		

\*Milli equivalents per liter

## PROBABLE MINERAL COMPOSITION



Saturation Values	Distilled Water 20°C
Ca CO <sub>3</sub>	13 Mg/L
Ca SO <sub>4</sub> • 2H <sub>2</sub> O	2,090 Mg/L
Mg CO <sub>3</sub>	103 Mg/L

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO <sub>3</sub> ) <sub>2</sub>	81.04		<u>12.6</u>		<u>1,021</u>
Ca SO <sub>4</sub>	68.07		<u>29</u>		<u>1,975</u>
Ca Cl <sub>2</sub>	55.50		<u>318</u>		<u>17,649</u>
Mg (HCO <sub>3</sub> ) <sub>2</sub>	73.17				
Mg SO <sub>4</sub>	60.19				
Mg Cl <sub>2</sub>	47.62		<u>179</u>		<u>8,520</u>
Na HCO <sub>3</sub>	84.00				
Na <sub>2</sub> SO <sub>4</sub>	71.03				
Na Cl	58.46		<u>2,714</u>		<u>158,769</u>

REMARKS Eng. Dept.-Dallas, Eng. Dept-Midland

(2) Adkins-W. Roberts-Gray-File

Respectfully submitted  
 TRETOLITE COMPANY

Ray Shaffner



HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES  
MIDLAND DIVISION  
HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. W81-042

To Wolfson Oil Company

Date 1-15-81

3206 Republic National Bank Tower

Dallas, Texas 75201

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by \_\_\_\_\_ Date Rec. 1-15-81

Well No. MAC Federal #1 Depth \_\_\_\_\_ Formation \_\_\_\_\_

County Lea Field Cato Source \_\_\_\_\_

Resistivity \_\_\_\_\_ 0.051 @ 74°F. \_\_\_\_\_

Specific Gravity \_\_\_\_\_ 1.141 \_\_\_\_\_

pH \_\_\_\_\_ 6.0 \_\_\_\_\_

Calcium (Ca) \_\_\_\_\_ 8,700 \_\_\_\_\_ \*MPL

Magnesium (Mg) \_\_\_\_\_ 1,200 \_\_\_\_\_

Chlorides (Cl) \_\_\_\_\_ 129,000 \_\_\_\_\_

Sulfates (SO<sub>4</sub>) \_\_\_\_\_ 2,400 \_\_\_\_\_

Bicarbonates (HCO<sub>3</sub>) \_\_\_\_\_ 694 \_\_\_\_\_

Soluble Iron (Fe) \_\_\_\_\_ Nil \_\_\_\_\_

Remarks: The submitted scale sample is 100% Calcium Carbonate, and is completely acid soluble.

\*Milligrams per liter

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

cc:

By W. L. Brewer  
CHEMIST

NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

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# VIII. GEOLOGICAL DATA

1. The geological name of the injection formation is the San Andres Dolomite.
2. The San Andres is a hard dense dark brown f-xlyn Dolomite w/ scattered vugs and vertical fractures throughout (See attached core descriptions for more detail.)
3. The approximate thickness of the San Andres interval in this area is 700'.
4. The San Andres top in this area is 2612'. (From WORTH WELL SURVEYS NUCLEAR LOG) The Sub-sea elevation is +1432'.
5. The San Andres interval in this area is known to be productive of oil & gas and is the primary producer of the Cato-San Andres field. It produces from 2 distinct porosity intervals known as the Cato and Milensand intervals.

**CORE DESCRIPTION**  
Sun #6 Woodman-Federal  
Chaves County, N. M.

January 21, 1968

Donald R. Young

Michigan

Core #1 3350-3400 Cor 20" Rec 44" (The 4" being 3351-35)

Top 6" brn sli dolo, 60% sli, 40% dolo, fine sand, incl  
Bottom 40" brn f-xlyn, 20% sli, 80% dolo, fine  
yln and irregularly pore, 20% sli, 80% dolo, vert frac  
throughout

Core #2 3400-3450 Rec 20" being:

2" brn f-xlyn dn dolo bldg  
4" same, tite  
12" sli  
4" sly dolo, tite  
7" brn f-xlyn dense dolo bldg 6-0-0  
5" same; vert frac  
13" same; tite

Core #3 3450-3491 Rec 41" being:

5" brn f-xlyn dn lny dolo  
15" brn f-xlyn dn v-liney dolo  
21" brn f-xlyn dn ls  
3450-54 sli bldg oil  
3461-64 sli bldg W & O  
3484-88 vert frac and stained

Donald R. Young

# Quanico Oil & Gas, Inc.

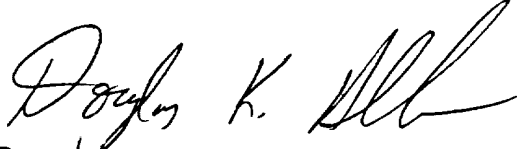
203 WEST MAIN ST. P.O. BOX 1714

EL DORADO, ARKANSAS 71730

PHONE (501) 863-7170

XII.

I have examined all available geologic and engineering data available on the proposed disposal zone, and find no evidence of any open faults or other hydrologic connection between this zone and any underground source of drinking water. This statement is backed up by the fact that this zone is productive of oil & gas in all of the surrounding wells.

 4-15-87  
Douglas K. Alexander  
VICE-PRESIDENT

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XIII.

AFFIDAVIT OF PUBLICATION

County of Chaves }  
State of New Mexico, }

I, Jean M. Pettit,  
Manager

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached was published once a week in the regular and entire issue of said paper and not in a supplement thereof for a period

of once  
..... weeks

beginning with the issue dated 9  
April, 1987

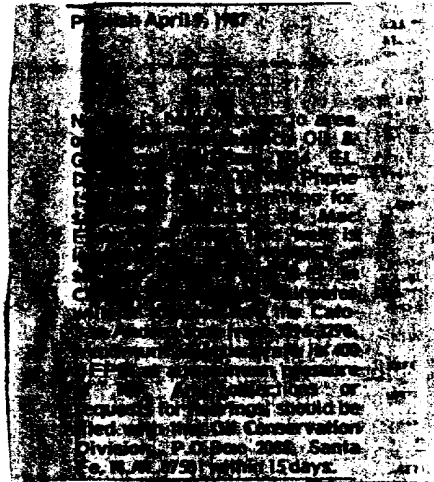
and ending with the issue dated 9  
April, 1987

Jean M. Pettit  
Manager

Sworn and subscribed to before me  
this 9th day of .....

April, 1987  
Margaret Skinner  
Notary Public

My commission expires .....  
July 21, 1990  
(Seal)



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