STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

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 Commision.

* 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: Douglas K. Alexander Title Vice-President

Signature: Douglas 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. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

(1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.

(2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

(3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

(1) The name of the injection formation and, if applicable, the field or pool name.

(2) The injection interval and whether it is perforated or open-hole.

(3) State if the well was drilled for injection or, if not, the original purpose of the well.

(4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.

(5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

(1) The name, address, phone number, and contact party for the applicant;

(2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;

(3) the formation name and depth with expected maximum injection rates and pressures; and

(4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

Cyonico Oil & Gas, Inc. "Mac" Federal
OPERATOR LEASE

#2 990' FSL & 330' FEL 6 9-South 30-East
WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

see attached schematic

Tabular Data

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#-4½" Cemented with 150 sx.
TOC 2800' feet determined by Volumetric formula
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)

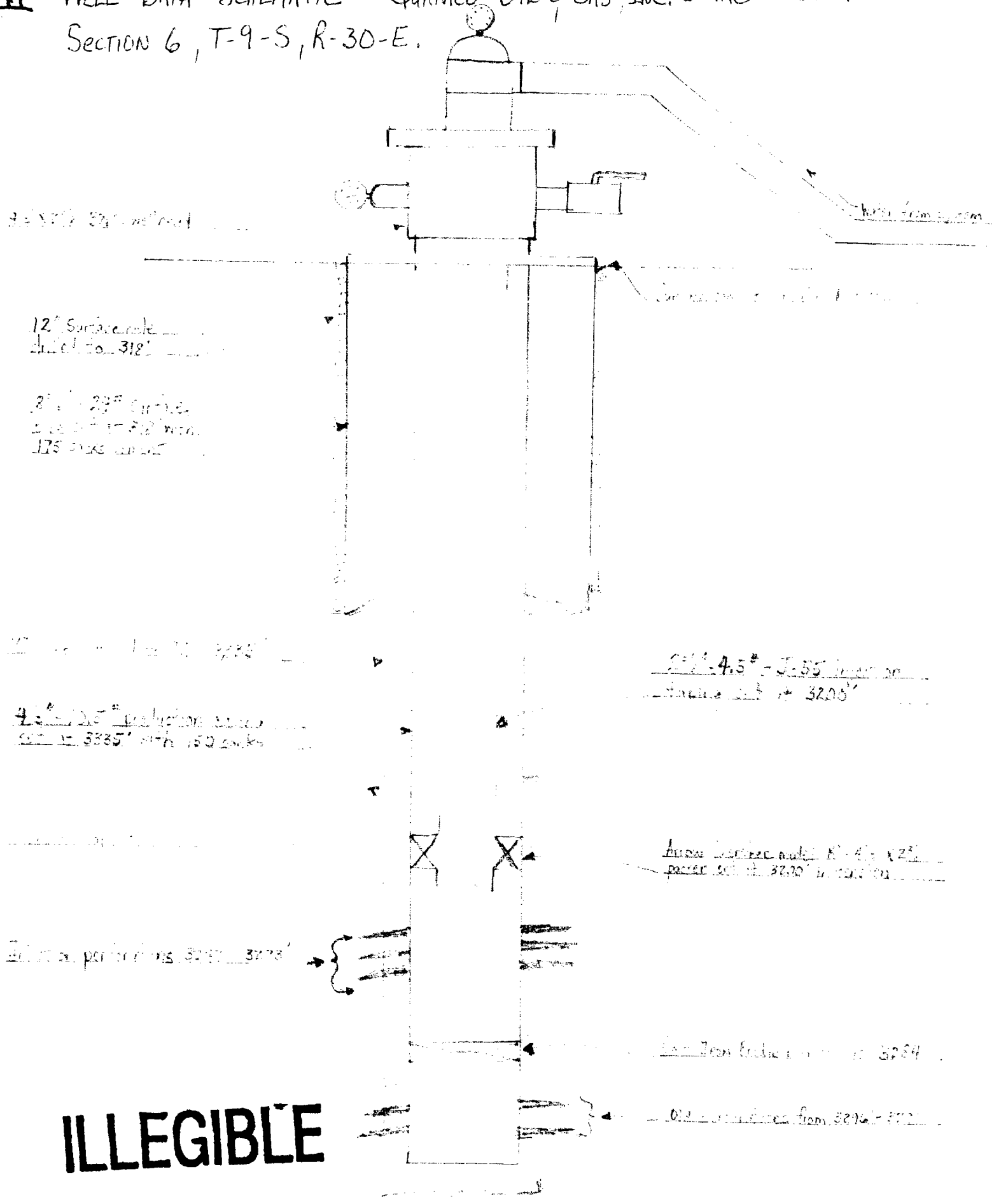
Change in ownership effective October 1, 1984

Tubing size 2 3/8"-4.5#-J-55 lined with unlined (material) set in a
Cherokee - 2 3/8" X 4½" - Model 'R' (brand and model) packer at 3200' feet
(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Cato - San Andres
2. Name of Field or Pool (if applicable) Cato
3. 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 #2
SECTION 6, T-9-S, R-30-E.



ILLEGIBLE

TITAN OIL AND GAS, INC.

[redacted]

200 FORTUNE DRIVE
MONROE, LOUISIANA 71201

INVOICE FOR OPERATING EXPENSES

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 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 1/2" - 10.5# set at 3335' in 7 7/8" hole, with 150 sacks of cement. Cement top at 2800'. This was determined using volumetric formula for annulus between open hole and casing. (Schematic attached)

(3.) Tubing Data: 2 3/8" - 4.5# J-55 unlined tubing will be set at 3200'. (Schematic attached)

(4.) An Arrow Cherokee Model "R" - 4 1/2" X 2 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.

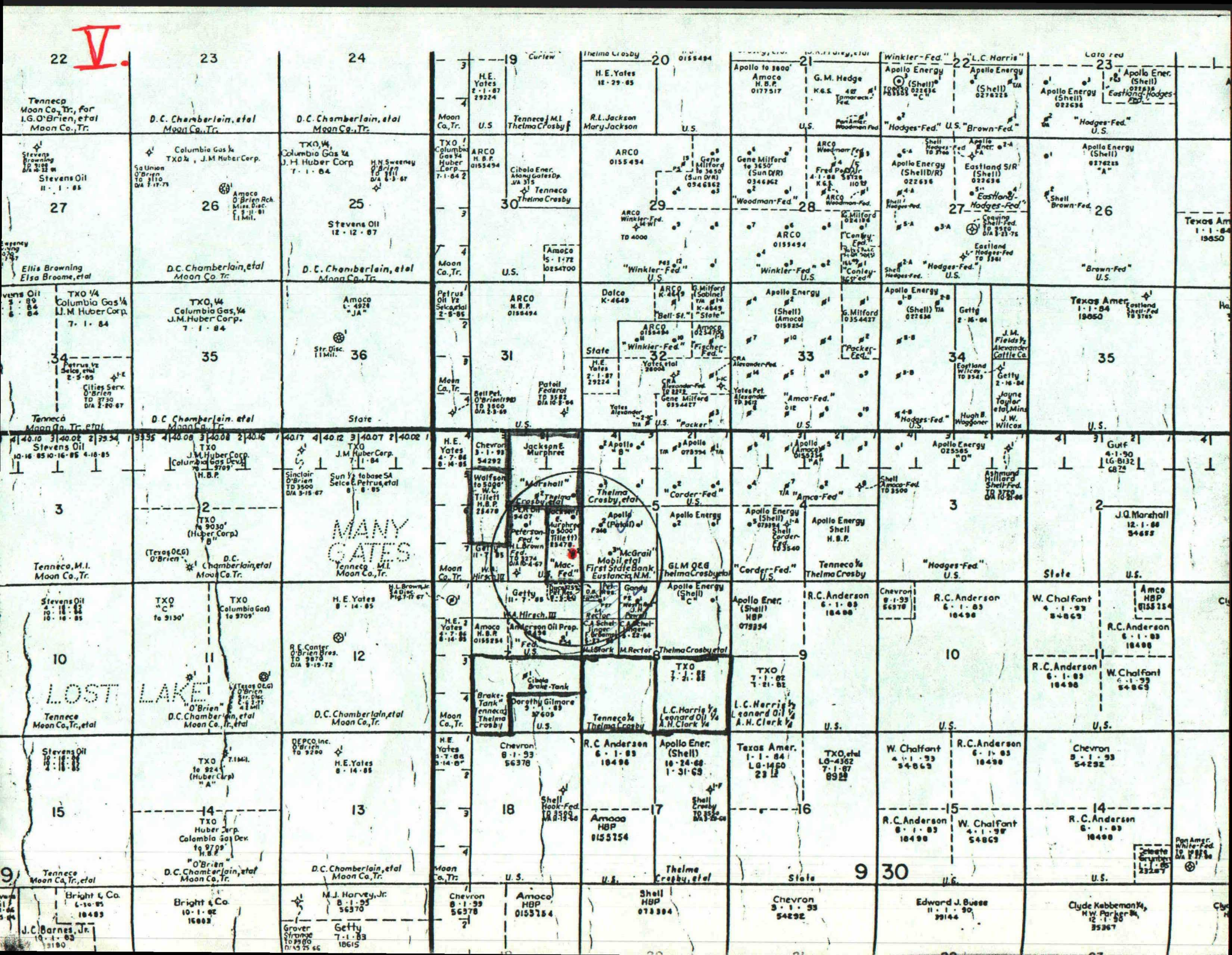
(4.) This well had additional perforations from 3296' - 3298'. These perforations were shut-off with a cast-iron bridge plug set at 3284'.

(5.) There are no other oil or gas zones producing, either higher or lower, in the area of this well.

TITAN OIL AND GAS, INC.

200 FORTUNE DRIVE
MONROE, LOUISIANA 71201

INVOICE FOR OPERATING EXPENSES

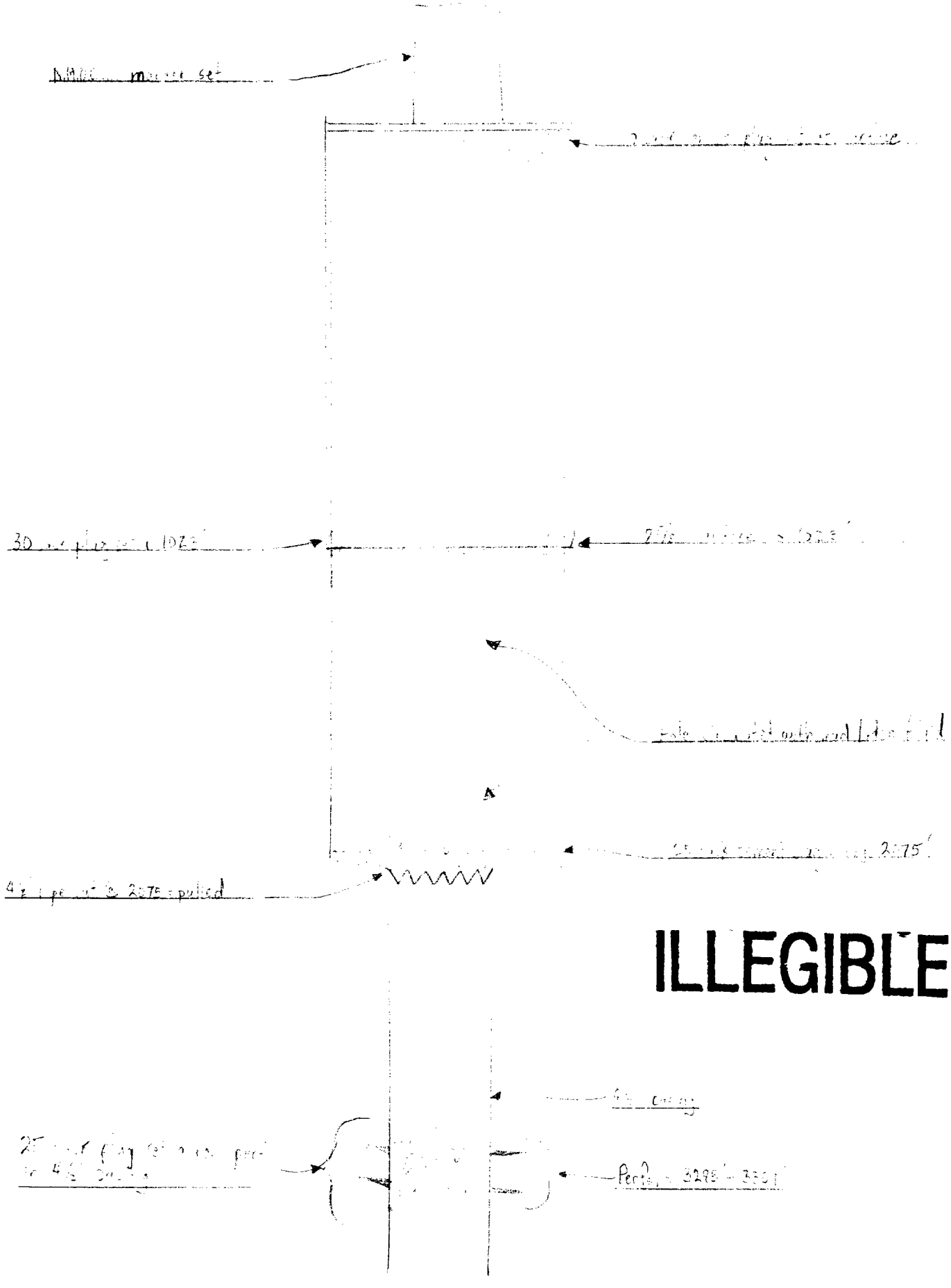

V.
MANY GATES
LOST LAKE
Tenneco Moon Co. Tr. for I.G. O'Brien, etal Moon Co., Tr.
D.C. Chamberlain, etal Moon Co., Tr.
Stevens Oil
Ellis Browning
Elsa Broome, etal
Columbia Gas
J.M. Huber Corp.
Amoco
ARCO
Tenneco Thelma Crosby
R.L. Jackson Mary Jackson
H.E. Yates
G.M. Hedge
Apollo Energy (Shell)
"Winkler-Fed."
"Woodman-Fed."
"Hodges-Fed."
"Brown-Fed."
Texas Amer.
Eastland
Getty
Gene Milford
"Amco-Fed."
"Corder-Fed."
Jackson & Murphree
"Marshall"
"Mac-Fed."
McGrail Mobil etal First State Bank Eustancia, N.M.
GLM O&G Thelma Crosby
R.C. Anderson
W. Chalfont
Chevron
J.Q. Marshall
Gulf
TXO
L.C. Harris
Leonard Oil
A.H. Clark
Dorothy Gilmore
Shell
Bright & Co.
M.J. Harvey, Jr.
Edward J. Buese
Clyde Kebbeman
J.C. Barnes, Jr.
U.S.
State

VI. Wells located within area of review

Operator	Lease	Location	Casing Data	Perforations	T.D. & P.B.T.D.	Dates	Type
	NM-25478	Chaves Co. NM	8 5/8" @ 315' w/ 175sx.	3 shots	T.D. = 3340'	Drilled = 7/18/75	San Andres
Manico Oil & Gas, Inc.	Mac Federal #1	2310' FSL & 330' FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3332' w/ 175sx.	3306' - 3314'	P.B.T.D. = 3314'	Comp. = 8/22/75	Producer
		Chaves Co. NM	8 5/8" @ 318' w/ 175 sx.		T.D. = 3360	Drilled = 2/13/76	San Andres
Manico Oil & Gas, Inc.	Marshall #1	2310' FNL & 330' FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3360' w/ 150sx.	3274' - 3314'	P.B.T.D. = 3344	Comp. = 3/23/76	Producer
m. Wolfson Oil		Chaves Co. NM	8 5/8" @ 1023' w/ 300 sx.	13 shots	T.D. = 3390	Drilled = 6/12/76	San Andres
Manico Oil & Gas, Inc.	Marshall #2	2310' FNL & 1650' FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3390' w/ 175sx.	3285' - 3351'	P.B.T.D. = 3377	Comp. = 7/12/76	Producer (PtA)
		Chaves Co. NM	8 5/8" @ 223' w/ 180sx.	Casing notch @	T.D. = 3274'	Drilled = 12/24/68	San Andres
L. Brown, JR.	Federal 6 #1	330' FSL & 2310 FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3274' w/ 200sx	3258'	P.B.T.D. = 3227'	Comp. = 12/27/68	Producer (P&A)
		Chaves Co. NM	8 5/8" @ 275' w/ 200sx		T.D. = 3475'	Drilled = 7/27/76	San Andres
Apollo Energy	Thelma Crosby B #3	1930 FNL & 710' FWL Sec. 5, T-9-S, R-30-E	5 1/2" @ 3475' w/ 1450sx	3302' - 3306'	P.B.T.D. = 3455	Comp. = 8/12/76	Producer
		Chaves Co. NM	8 5/8" @ 275' w/ 200sx		T.D. = 3329	Drilled = 11/20/68	San Andres
Apollo Energy	McGrail #1	1980' FSL & 1980' FWL Sec. 5, T-9-S, R-30-E	4 1/2" @ 3329' w/ 400sx	3282' - 3316'	P.B.T.D. = 3328'	Comp. = 12/1/68	Producer
		Chaves Co. NM.	8 5/8" @ 264' w/ 200 sx		T.D. = 3370	Drilled = 8/12/76	San Andres
Apollo Energy	McGrail #2	1980 FSL & 660 FWL Sec. 5, T-9-S, R-30-E	4 1/2" @ 3370' w/ 1700 sx	3279' - 3308'	P.B.T.D. = 3348'	Comp. = 8/26/76	Producer
		Chaves Co. NM	8 5/8" @ 254' w/ 150 sx		T.D. = 3450'	Drilled = 8/22/77	San Andres
Apollo Energy	McGrail #3	990' FSL & 990' FWL Sec. 5, T-9-S, R-30-E	5 1/2" @ 3450 w/ 2380sx	3267' - 3292'	P.B.T.D. = 3416	Comp. = 9/9/77	Producer
	NM-9407 A	Chaves Co. NM	8 5/8" @ 416' w/ 300 sx.		T.D. = 3340'	Drilled = 10/6/69	San Andres
Orbit Enterprises	Peterson Federal #1	1980' FSL & 1980' FEL Sec. 6, T-9-S, R-30-E	4 1/2" @ 3340' w/ 150 sx	3282' - 3289'	P.B.T.D. 3325'	Comp. = 12/2/69	Producer
	NM-18498	Chaves Co. NM	8 5/8" @ 304' w/ 150 sx.		T.D. = 3355'	Drilled = 11/25/76	San Andres
Anderson Oil Properties	Federal #1	1980' FNL & 660' FEL Sec. 7, T-9-S, R-30-E	4 1/2" @ 3355' w/ 150 sx.	3280' - 3317'	P.B.T.D. = 3317'	Comp. = 12/31/76	Producer
		Chaves Co. NM	8 5/8" @ 325' w/ 225 sx.		T.D. = 3360'	Drilled = 12/9/75	San Andres
Sandy Corporation	Rector #1	660' FNL & 660' FWL Sec. 8, T-9-S, R-30-E	4 1/2" @ 3364' w/ 250 sx	3239' - 3283'	P.B.T.D. = 3216'	Comp. = 12/30/75	Producer
		Chaves Co. NM	8 5/8" @ 340' w/ 200 sx.		T.D. = 3350	Drilled = 4/15/76	San Andres
C. Gandy + Dale Gandy	Western Reserves #1	660 FNL & 1980 FWL Sec. 8, T-9-S, R-30-E	4 1/2" @ 3350 w/ 250 sx	3265' - 3334'	P.B.T.D. 3313'	Comp. 5/1/76	Producer

VI. Plugging Procedure = Watson Oil Co. Margaret #2

2310' FNL & 1650' FEL Sec. 6 T 7 S. R 30 E. Chaves Co. NM



NMOCC - ARTESIA
NMOCC - HOBBS
BLM - SANTA FE

(May 1963) — Budget Bureau No. 42-R1424.

DEPARTMENT OF THE INTERIOR (Other instructions re- verse side)

GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.: New Mexico ~~03-035440~~

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.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER P&A — 7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: H. L. Brown, Jr. — 8. FARM OR LEASE NAME: Federal-6

3. ADDRESS OF OPERATOR: % Yourtee Building, Midland, Texas — 9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.): At surface: 330' FSL & 2310' FEL of Sec. 6, T-9-S, R-30-E — 10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 6, T-9-S, R-30-E

14. PERMIT NO. — 15. ELEVATIONS (Show whether DF, RT, GR, etc.) — 12. COUNTY OR PARISH: Chaves — 13. STATE: New Mexico

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 COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☒
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other)	☐			(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.)*

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

10 sacks cement at 3258';
Cut off 4-1/2" casing at 2500' (top of cement @ 2550')
25 sacks cement at 2500';
25 sacks cement at 1350';
25 sacks cement at 930';
25 sacks cement at 273';
10 sacks cement at the surface with 4' 4½" 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.

ILLEGIBLE

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

SIGNED _____ TITLE _____ DATE October 12, 1967

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

MAY 6 1968

J. W. SUTHERLAND
DISTRICT ENGINEER

OCT 16 1967

*See Instructions on Reverse Side

VII. Disposal System Data

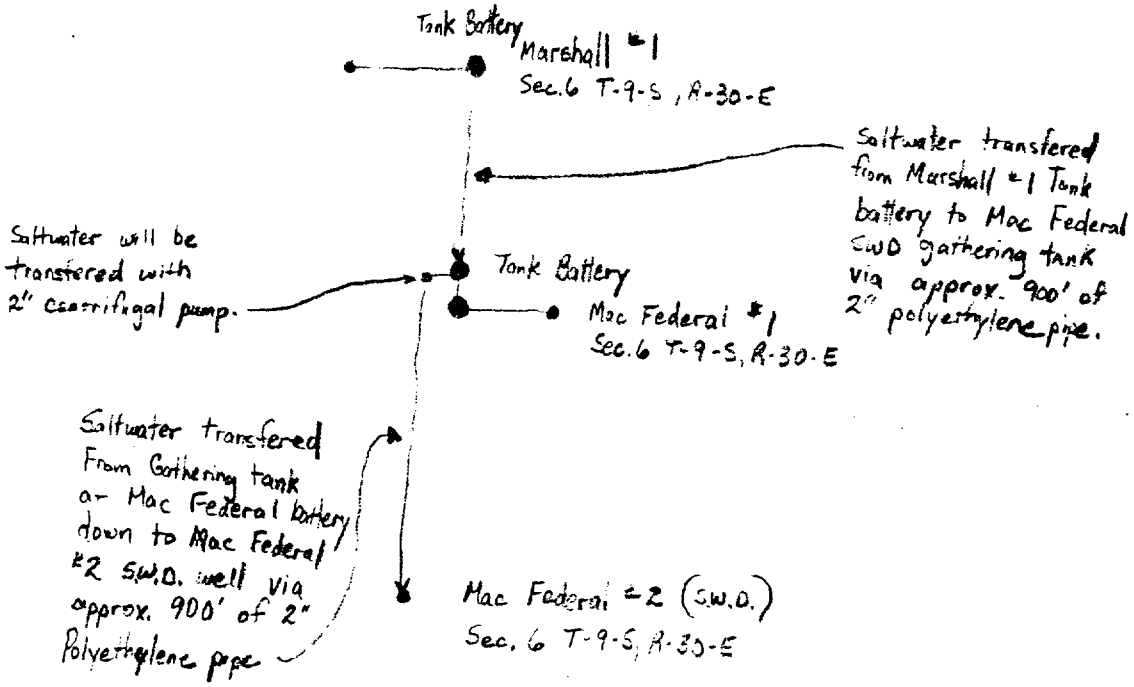
(1.) We propose to inject a maximum of 400 barrels of fluid per day at a rate of 1/2 BPM.

(2.) This will be a closed system.

(3.) The average injection pressure will be -0- with the well on a vacumn. 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.



PETROLITE
TRETOLITE DIVISION
369 Marshall Avenue / Saint Louis, Missouri 63119
(314) WO 1-3500/TWX 910-760-1660/Telex 44-2417

WATER ANALYSIS REPORT

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

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

Analysis		Mg/L		*Meq/L	
1. pH	6.17				
2. H_2S (Qualitative)	Pos.				
3. Specific Gravity	1.140				
4. Dissolved Solids		187,934			
5. Suspended Solids					
6. Phenolphthalein Alkalinity ($CaCO_3$)					
7. Methyl Orange Alkalinity ($CaCO_3$)		630			
8. Bicarbonate (HCO_3)	HCO_3	769	÷61	12.6	HCO_3
9. Chlorides (Cl)	Cl	114,000	÷35.5	3,211	Cl
10. Sulfates (SO_4)	SO_4	1,375	÷48	29	SO_4
11. Calcium (Ca)	Ca	7,200	÷20	360	Ca
12. Magnesium (Mg)	Mg	2,187	÷12.2	179	Mg
13. Total Hardness ($CaCO_3$)		27,000			
14. Total Iron (Fe)		2.0			
15. Barium (Qualitative)					
16. Strontium					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

360	Ca ←	→ HCO_3
179	Mg →	→ SO_4
2,714	Na ←	→ Cl

12.6	
29	
3,211	

Saturation Values Distilled Water 20°C

$CaCO_3$	13 Mg/L
$CaSO_4 \cdot 2H_2O$	2,090 Mg/L
$MgCO_3$	103 Mg/L

Compound	Equiv. Wt.	X Meq/L =	Mg/L
$Ca(HCO_3)_2$	81.04	12.6	1,021
$CaSO_4$	68.07	29	1,975
$CaCl_2$	55.50	318	17,649
$Mg(HCO_3)_2$	73.17		
$MgSO_4$	60.19		
$MgCl_2$	47.62	179	8,520
$NaHCO_3$	84.00		
Na_2SO_4	71.03		
NaCl	58.46	2,714	158,769

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

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

Respectfully submitted
TRETOLITE COMPANY

Ray Shaffner

1342-A

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

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_4)	2,400			
Bicarbonates (HCO_3)	694			
Soluble Iron (Fe)	Nil			

*Milligrams per liter

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

Respectfully submitted,

Analyst: Brewer

HALLIBURTON COMPANY

By W. L. Brewer
CHEMIST

cc:

NOTICE

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 8, 1968

Donald R. Young

Midland

Core #1 3350-3400 Cut 50' Rec 46' (The 4' lost is probably 3351-55)

Top 6' brn shly dolo, 60% sat w/poor poro w/few anhy inclu

Bottom 40' brn f-xlyn dn to gran w/fair to good very fine ppt and interxlyn poro bldg oil throughout and vert frac throughout

Core #2 3400-3450 Rec 50' being:
2 brn f-xlyn dn dolo bldg O & G
8 same, tite
12 anhy
5 anhy dolo, tite
7 brn f-xlyn dense dolo bldg G-O-W
3 same;vert frac
13 same; tite

Core #3 3450-3491 Rec 41' being:
5 brn f-xlyn dn lmy dolo
15 brn f-xlyn dn v-limey 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.

Douglas K. Alexander 4-15-87

Douglas K. Alexander

VICE-President

XIII.

AFFIDAVIT OF PUBLICATION

County of Chaves
State of New Mexico,

I, Joan 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, 19 87

and ending with the issue dated 9

April, 19 87

Joan M. Pettit
Manager

Sworn and subscribed to before me

this 9th day of

April, 19 87

Marylou L. Skipper
Notary Public

My commission expires

July 21, 19 90
(Seal)

Publish April 9, 1987

Notice

Notice is hereby given to area operators that Quadco Oil & Gas Inc., P.O.Box 1714 EL DORADO ARK 71730 Phone (501) 863-7171 is permitting for saltwater disposal, its Mac Federal #2 well. This well is located 990' FEL & 990' FSL of section 4 T-9-s R-30-E in Chaves County, N.M. Saltwater will be injected into the Cato-San Andres zone from 3296-3298. Maximum injection rate is 400 BFPD at a maximum pressure of 10#. Any objections or requests for hearings, should be filed with the, Oil Conservation Division, P.O.Box 2088, Santa Fe, N.M. 87501 within 15 days.

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:
Anderson Oil Properties
P.O. Box 8307
La Jolla, CA 92038

4. Article Number
P 171 570 630

Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

SAN DIEGO, CA PACIFIC BEACH STA. APR 28 1987 USPO

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:
Apollo Energy
P.O. Box 5315
Hobbs, NM 88241

4. Article Number
P 171 570 626

Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X

6. Signature – Agent
X

7. Date of Delivery

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

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1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:
M.C. Gandy & Dale Gandy
P.O. Box 763
Hobbs, NM, 88240

4. Article Number
P 171 570 631

Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature – Addressee
X Callie Dumas

6. Signature – Agent
X

7. Date of Delivery
4-20-87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:
Gandy Corporation
c/o Oil Reports & Gas Service
P.O. Box 755
Hobbs, NM 88241

4. Article Number
P 171 570 627

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X Colleen Dumas

6. Signature — Agent
X

7. Date of Delivery
4-20-87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

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1. ☐ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:
Orbit Enterprises
P.O. Box 763
Hobbs, NM 88241

4. Article Number
P 171 570 628

Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☒ Express Mail

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X Colleen Dumas

6. Signature — Agent
X

7. Date of Delivery
4-20-87

8. Addressee's Address *(ONLY if requested and fee paid)*

PS Form 3811, Feb. 1986 DOMESTIC RETURN RECEIPT

P 171 570 632

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to	BLM
Street and No.	P.O. Drawer 1857
P.O., State and ZIP Code	Roswell NM 88201
Postage	$.
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered	
Return receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$2.18
Postmark or Date	

PS Form 3800, Feb. 1982 * U.S.G.P.O. 1984-446-014

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

April 20, 1987

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:
MC_____
DHC_____
NSL_____
NSP_____
SWD XX
WFX_____
PMX_____

Gentlemen:

I have examined the application for the:

Quanico Oil & Gas Inc.	Mac Federal #2-P	6-9-30
Operator	Lease & Well No. Unit	S-T-R

and my recommendations are as follows:

OK -- Jerry Sexton

Yours very truly,

Jerry Sexton

Jerry Sexton
Supervisor, District 1

/ed