4·10·95

OCDSSIW1

CURRY ENGINEERING

PETROLEUM ENGINEERS
No. 40 Lafayette Place
Midland, Texas, 79705

Phone (915) 683-8044 Fax (915) 694-7897

Mr. David Catanach
New Mexico Oil Conservation Division
Engineering Bureau
2040 South Pacheco
Santa Fe, NM, 87505

Re: Antelope Ridge Field Area
San Simon Water Disposal Co. Application for
Water Injection Well, Sec. 22, T23S, R34E,
Lea County, New Mexico

Dear Mr. Catanach:

I spoke with you on March 24, 1995 after submitting an application for a water injection well for the purpose of disposing of produced water to Mr. Jerry Sexton on March 23. The application is made in the name of San Simon Water Disposal Company, which is a subsidiary of Mr. J. C. Williamson, who is the Operator and part owner of all of the leases located in Sections 10, 15, and 22 as shown on Exhibits attached to a copy of the application submitted to Mr. Sexton. San Simon has submitted applications to the BLM for their approval, which we expect to have in a few days, and have attached those applications to this letter for your information and files.

We have discussed this application with Mr. Sexton at least twice and appreciate his assistance in advising us on this applications in order to expedite your approval and our need to start our construction process for a water disposal system in this remote desert area. Mr. Sexton readily agreed for the necessity of a good water disposal system in this area and suggested I call you as I did on the 24th of this month. I also appreciate your advising me on your immediate informational needs to approve our commencement of buying materials and remedial work on this project. I have begun meeting those requirements in the following manner:

a. COPIES OF THE APPLICATION FOR CONVERTING A WELL TO SALT WATER DISPOSAL SERVICE: The requested copies are attached, as well as all of the applications made relative to federal requirements.

b. LEGAL NOTICE REQUIREMENTS: We have made arrangements that proper notice will appear in the Hobbs Daily News-Sun on March 27, 1995. A copy of the receipt of payment for the ad and copies certified by the News-Sun will be furnished both Hobbs and Santa Fe OCD offices as soon as available.

c. NOTICES AND WAIVERS FROM OFFSETTING OPERATORS: Copies of the attached applications have been mailed to each offset Operator for his information and files with letters showing their approval of the Project to be returned to Mr. Williamson's office. Mr. Williamson will fax you copies of these waivers upon receipt and will furnish hard copies to the Hobbs OCD office as they are received by him. We have contacted almost all of the offset Operators and have received 100 percent support from those contacted.

Please advise as soon as you perceive any additional information that you will require or will expedite out commencement of construction and equipment acquisition. We are currently undergoing an expense of $1.60 to $1.84 per barrel of water produced and expect to reduce those costs to $0.50 or less to dispose of this water and to construct a well designed system that will protect the environment from spills and other contamination This system will extend the economic life of these leases, some of which are State leases, for substantial amounts.

We appreciate your assistance in this matter and will be happy to furnish any material or answers that you may require.

CURRY ENGINEERING

Max E. Curry, partner

CC: Mr. Jerry Sexton
OCD, Hobbs.

Mr. J. C. Williamson
P. O. Box 16
Midland, Texas 79701

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: SAN SIMON WATER DISPOSAL CO. Well: CURRY FEDERAL WELL NO. 2 22-23 34

Contact: MAY CURRY Title: AGENT Phone: _____

DATE IN _____ RELEASE DATE _____ DATE OUT _____

Proposed Injection Application is for: __ WATERFLOOD __ Expansion __ Initial

Original Order: R- _____ __ Secondary Recovery __ Pressure Maintenance

SENSITIVE AREAS X SALT WATER DISPOSAL

__WIPP __ Capitan Reef X Commercial Operation

Data is complete for proposed well(s)? __ Additional Data SWD 588

AREA of REVIEW WELLS

0 Total # of AOR 0 # of Plugged Wells

__ Tabulation Complete __ Schematics of P & A's

__ Cement Tops Adequate __ AOR Repair Required

INJECTION INFORMATION

Injection Formation(s) BELL CANYON 5230-6180

Source of Water AREA PRODUCTION + GAS PLANT Compatible YES

PROOF OF NOTICE

X Copy of Legal Notice __ Information Printed Correctly

X Correct Operators __ Copies of Certified Mail Receipts

__ Objection Received __ Set to Hearing _____ Date

NOTES: 660' FSL + 1830' FWL 'N'

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact: __ Telephoned __ Letter _____ Date Nature of Discussion _____

2nd Contact: __ Telephoned __ Letter _____ Date Nature of Discussion _____

3rd Contact: __ Telephoned __ Letter _____ Date Nature of Discussion _____

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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 X Disposal Storage.
Application Qualifies for administration approval. Yes No

II. OPERATOR: SAN SIMON WATER DISPOSAL COMPANY (Subsidiary of J. C. Williamson)
ADDRESS: P. O. Box 16, Midland, Texas 79701.
CONTACT PARTY: Max E. Curry, No. 40 Lafayette Place, Midland, Texas 79705,
TELEPHONE (915) 583-8044 FAX (915) 694-7897

III. WELL DATA SHEET: The Injection Well Data Sheet for the conversion of Curry Federal, Well No. 2 is attached. This is identified as Exhibit "A", and represents the only well proposed for injection at this time.

IV. *IS THIS an expansion of an existing Project?* Yes X No. If yes give the Division Order Number Authorizing the project. Not Applicable.

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. EXHIBIT "B" hereto attached, consists of two maps (Pages 1 and 2), which will be utilized for all purposes of this application.

VI. Exhibit "C" is a leasehold map of the subject area defining the area of interest and the area of review for the injection well in this application. Attached to the map are schematic drawings of wells within a one mile area. There are no wells within the specified one-half mile area, but the one mile area includes wells believed to be important to this application.

VII The following data relates to the proposed Operation of the San Simon Water Disposal Company.

1. The current daily rate of production projected as of July 1, 1995 consists of 730 barrels of water produced primarily from the Delaware formation. Exhibit "D" includes water analyses of several types of water that will be injected into the proposed injection well. The injected water is expected to be approximately as follows:

	BBLS	% of TOTALS
Delaware formation produced water	670	91.8
Pennsylvanian formation produced water	30	4.1
Fresh waste water from the gasoline plant	30	4.1
Totals	730	100.0

Check w/ Roger

The system will be operated as a closed system that excludes air from the system by maintaining pressure on the storage tanks at the water treating and pumping station and an oil blanket will be maintained on the water storage tanks at the various tank batteries.

3. The maximum pressure the system is designed to operate under is 1,100 psig, which is 0.2 psig times the 5,500' to the top perforation in the injection well. It is anticipated that the closed system and proper maintenance will keep the injection pressures below 500 psig for several years at the projected injection rate.

4, 5. Water analyses are presented in Exhibit "D" for all pertinent waters affected by this application.

VIII: The geological zone proposed for the Curry Federal Well No. 2 for injection is the Bell Canyon formation of the Delaware Mountain Group, between the depths of 5230' and 6180'.

IX: The stimulation program for the proposed injection well will include more than one perforated interval in the Bell Canyon formation between the depths of 5230 and 6180' The principal intervals will be 6140-6160' (already perforated and tested water) and the interval 5230 - 5280'. Each of the horizons will be treated as follows:

a. Perforate the chosen interval, acidize with a small treatment with ball sealers to assure all perforations are open.

b. Follow the breakdown acid with a 5,000 to 20,000 gallon fracture treatment of gelled water and sand with ball sealers. Flush balls off perforations and commence injection. It is believed that the two intervals suggested will be sufficient, but other zones may be opened and treated down the tubing without having to pull the well.

X. Attached to this application is a Gamma Ray-Neutron well log showing the interval that will be utilized for water injection. It is requested that prior approval for any zone between 5230' and 6180 feet be approved subject to prior notice to the Hobbs New Mexico Oil Conservation Division. For more detail of the subject well see Exhibit C, pages 2 and 3.

XI. Water analyses for fresh water produced on or near these leases and a sample of produced waters are attached to this application.

XII. By signature of this application Applicant does affirm that an exhaustive examination of all available data precludes the presence of oopen faults or any other hydrologic connection between the proposed disposal zone and any underground source of drinking water.

XIII. PROOF OF NOTICE will be furnished the Hobbs office within sseven days or sooner when available. Copies of this application, with all exhibits have been prepared and submitted to the following Operators. Proof of Notice will be furnished as soon as possible.

Scott Exploration, Inc.	(John Worrall, III)	Roswell, NM
Strata Production Co.	(Mark Murphy)	Roswell, NM
Tenison Oil Co.	(President)	Dallas, Texas
Santa Fe Energy,	(Supervisor)	Midland, Texas

XIV. CERTIFICATION:

I, Max E. Curry. Agent for J. C. Williamson and San Simon Water Disposal Company, do certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: Max E. Curry TITLE AGENT

SIGNATURE Max E. Curry DATE 3-20-95

CATEGORY DETERMINATION

RIGHTS-OF-WAY UNDER TITLE V, FEDERAL LAND POLICY AND MANAGEMENT ACT OF 1976

The applicant shall submit with each application a non-refundable application processing fee in the amount required by the following table:

	Category	Processing Fee	Monitoring Fee	Total
/X/	I	$ 125	$ 50	$ 175
/_/	II	$ 300	$ 75	$ 375
/_/	III	$ 550	$ 100	$ 650
/_/	IV	$ 925	$ 200	$1,125
/_/	V	As Required	To be included with costs determined under 43 CFR 2808.3.	

Rationale: Majority of pipeline is within disturbed areas

Determination Made By: [signature] Date: 2/17/95

Approved By: Richard L. Manus — Authorized Officer Date: 2/17/95

If the application is significantly different from the information used to make this category determination, the application may be rejected.

Applicant's Name J. C. Williamson

Applicant's Right-of-Way No. ____________

Legal Description: Twp. 23S, Rng. 34 E, Sec. 10, 15, 22

Twp. ______, Rng. ______, Sec. ______

Project Name: Sunshine Water Disposal System

APPLICANT: Please attach a copy of this form to your SF-299 (Right-of-Way application form).

STANDARD FORM 299 (3/94)
Prescribed by DOI/USDA/DOT
P.L. 96-487 and Federal
Register Notice 6-3-81

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

FORM APPROVED
OMB NO. 1004-0060
Expires: June 30, 1995

FOR AGENCY USE ONLY

Application Number

Date filed

NOTE: Before completing and filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

1. Name and address of applicant *(include zip code)*
San Simon Water Disposal Company
J. C. Williamson
P. O. Box 16
Midland, Texas 79701

2. Name, title, and address of authorized agent if different from Item 1
J. C. Williamson,
or Max E. Curry (Agent)
P. O. Box 16
Midland, Texas 79701

3. TELEPHONE *(area code)*
Applicant (915) 682-1797
Authorized Agent (915) 683-8044

4. As applicant are you? *(check one)*
- a. ☐ Individual
- b. ☐ Corporation*
- c. ☑ Association
- d. ☐ State Government/State Agency
- e. ☐ Local Government
- f. ☐ Federal Agency

* *If checked, complete supplemental page*

5. Specify what application is for: *(check one)*
- a. ☑ New authorization
- b. ☐ Renewing existing authorization No.
- c. ☐ Amend existing authorization No.
- d. ☐ Assign existing authorization No.
- e. ☐ Existing use for which no authorization has been received*
- f. ☐ Other*

* *If checked, provide details under Item 7*

6. If an individual, or partnership are you a citizen(s) of the United States? ☐ Yes ☐ No All associates are United States citizens.

7. Project description *(describe in detail)*: (a) Type of system or facility, *(e.g., canal, pipeline, road)*; (b) related structures and facilities; (c) physical specifications *(length, width, grading, etc.)*; (d) term of years needed; (e) time of year of use or operation; (f) Volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction *(Attach additional sheets, if additional space is needed.)*

The Project is to construct a water gathering system to collect produced water in the Antelope Ridge Field area and transport it by pipeline to a central tank battery or water pumping station where the water will be cleaned and pressured into a high pressure pipeline to be injected into a well that has been temporarily abandoned waiting on remedial work to comply with State of New Mexico rules and regulations for water injection wells. The water will be gathered from water holding tanks at each battery in the field. The water will be gathered and pumped into a polyethylene pipeline utilizing a closed system that will exclude all air (Oxygen) and will be transported to a central tank battery. All tanks will exclude air (Oxygen) by holding pressure on the closed tanks and by placing a thin oil blanket floating on the surface of open tanks. Automatic fluid levels will permit the water to be disposed of into a water injection well that is further described in the attached Sundry Report. All pipelines will be laid in existing lease road bar ditches and all tank or other facilities will be constructed on well location drilling pads or tank battery pads, all of which have been approved by prior archeological inspections and BLM applications. A detailed map, Exhibit A, and a detailed discussion, Exhibit B, is attached for further information on this application.

8. Attach a map covering area and show location of project proposal — Attached

9. State or Loc government approval: ☐ Attached ☑ Applied for ☐ Not required — Applied for, to be submitted as soon as approved.

10. Nonreturnable application fee: ☑ Attached ☐ Not required — Attached.

11. Does project cross international boundary or affect international waterways? ☐ Yes ☐ No *(If "yes," indicate on map)*

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

All Associates are technically and financially competent to construct, operate, maintain and terminate the system for which authorization is being requested. See Exhibit C for details on individual Associates.

(Continued on reverse)

Attachment 1-1

13a. Describe other reasonable alternative routes and modes considered. All other routes have been examined and each would require disturbance of new areas. All of the rights of ways to be used are in previously disturbed areas. The bar ditches of lease roads will be used exclusively for pipeline rights of way . The operating equipment will be placed on existing drilling pads and existing tank batteries.

b. Why were these alternatives not selected? The primary reason that the existing roads are used are because they have already been cleared of brush and are the most direct way to gather produced water from all of the wells operated by the Associates, who have an economic interest in each of the wells described in this application. This is by far the most economically attractive traverse and will generate less impact on the land.

c. Give explanation as to why it is necessary to cross Federal Lands. Almost all of the wells producing in the field, and those affected by this application are on Federal Lands. The produced water on these leases are currently trucked out at an exorbitant cost that, if not eliminated, will cause early abandonment of the leases. The pipelines laid in the bar ditches of existing lease roads will not. damage the land as much as trucking .

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. *(Specify number, date, code, or name.)* The only similar system is that of Citation Oil and Gas that gathers water from the Antelope Ridge Unit leases in Sections 27, 28, 33, and 34 of T23S, R34E; and Sections 3 and 4 of T24S, R34E, This system transports water to their injection well in Section 22 of T23S, R34E, which is in the same section as this applications proposed injection well.

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal *(construction, operation, and maintenance)*; (b) estimated cost of next best alternative; and (c) expected public benefits.

SEE ATTACHMENT TO THIS APPLICATION, NEXT PAGE

16. Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.

The subject area is located in the desert on large ranches with no habitation within a mile of any part of the system and approximately 25 miles from any town. The impact will not be noticed.

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; (c) surface and ground water quality and quantity; (d) the control or structural change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability.

SEE ATTACHMENT TO THIS APPLICATION, NEXT PAGE

18. Describe the probable effects that the proposed project will have on (a) populations of fish, plantlife, wildlife, and marine life, including threatened and endangered species; and (b) marine mammals, including hunting, capturing, collecting, or killing these animals. This system will eliminate spills and discharges of produced water and by-products into a pressure contained underground system that will prevent the opportunity for wildlife to drink or be otherwise harmed by such spills. It is common knowledge that this Operator has furnished alternate fresh drinking water at several locations in this desert area, and will continue to do so.

19. State whether any hazardous material, as defined in this paragraph, will be used, produced, transported or stored on or within the right-of-way or any of the right-of-way facilities, or used in the construction, operation, maintenance or termination of the right-of-way or any of its facilities. "Hazardous material" means any substance, pollutant or contaminant that is listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. 9601 et seq., and its regulations. The definition of hazardous substances under CERCLA includes any "hazardous waste" as defined in the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, 42 U.S.C. 9601 et seq., and its regulations. The term hazardous materials also includes any nuclear or byproduct material as defined by the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq. The term does **not** include petroleum, including crude oil or any fraction thereof that is not otherwise specifically listed or designated as a hazardous substance under CERCLA Section 101(14), 42 U.S.C. 9601(14), nor does the term include natural gas.

19. The materials produced in this area are not hazardous , but this system is designed to dispose of an objectionable water that is not useful for livestock, vegetation, manufacturing or suitable for human consumption.

20. Name all the Department(s)/Agency(ies) where this application is being filed.

SEE ATTACHMENT TO THIS APPLICATION, NEXT PAGE

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant [signature] Agent Date 5-20-95

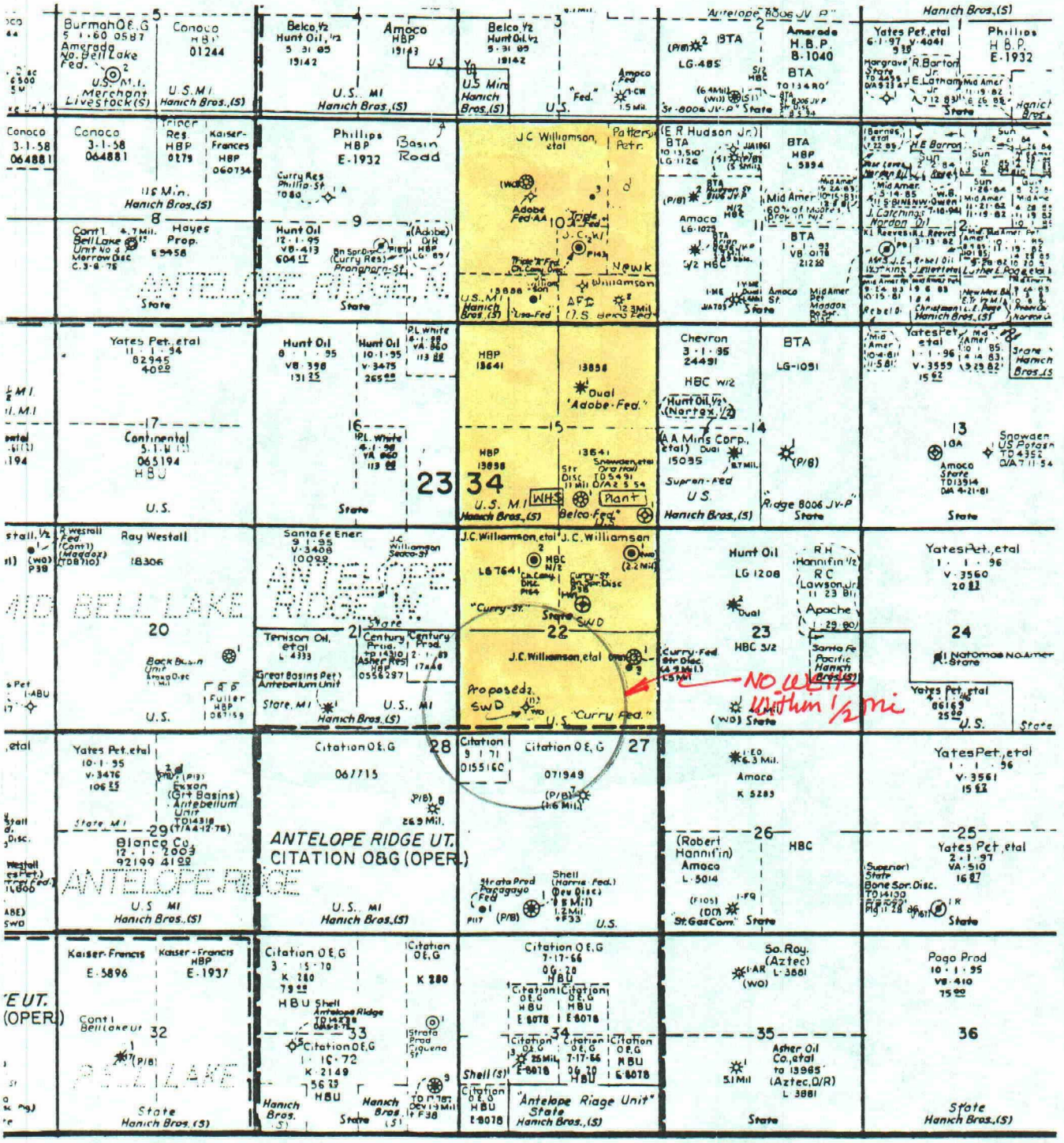
Title 18, U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

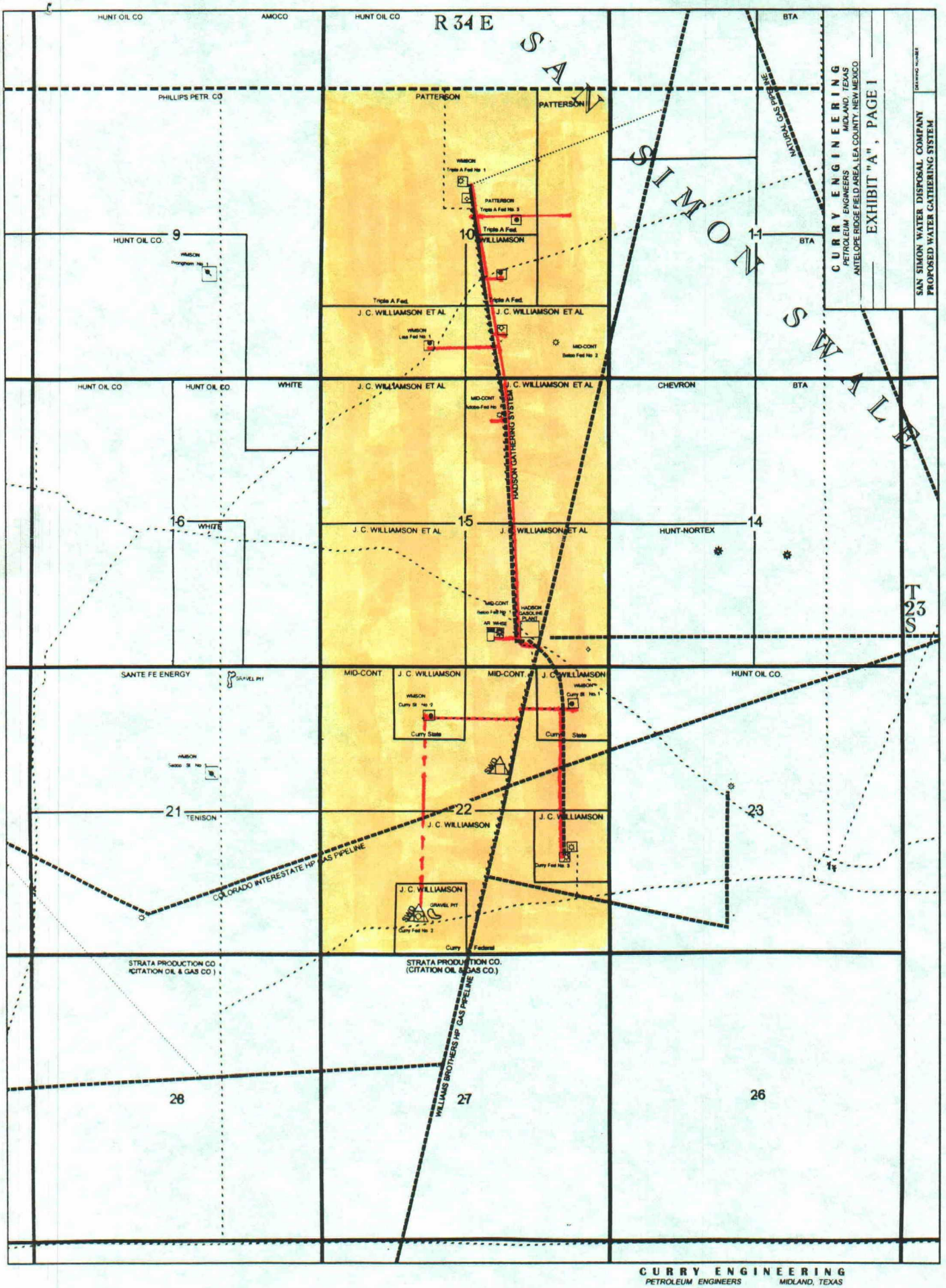
E X H I B I T "A": ATTACHMENT AS EXHIBIT "A"

SUPPLEMENT TO : **OIL CONSERVATION DIVISION FORM C-108**
APPLICATION OF: **San Simon Water Disposal Co., Antelope Ridge Area**
Section 22, T23S, R34E. Lea County, NM 3-20-95

AREA OF REVIEW

OPERATOR: J. C. Williamson **LEASE:** Curry Federal **WELL No. 2**
LOCATION: SEC. 2, T33S, R34E, Lea County, NM





CURRY ENGINEERING
PETROLEUM ENGINEERS MIDLAND, TEXAS

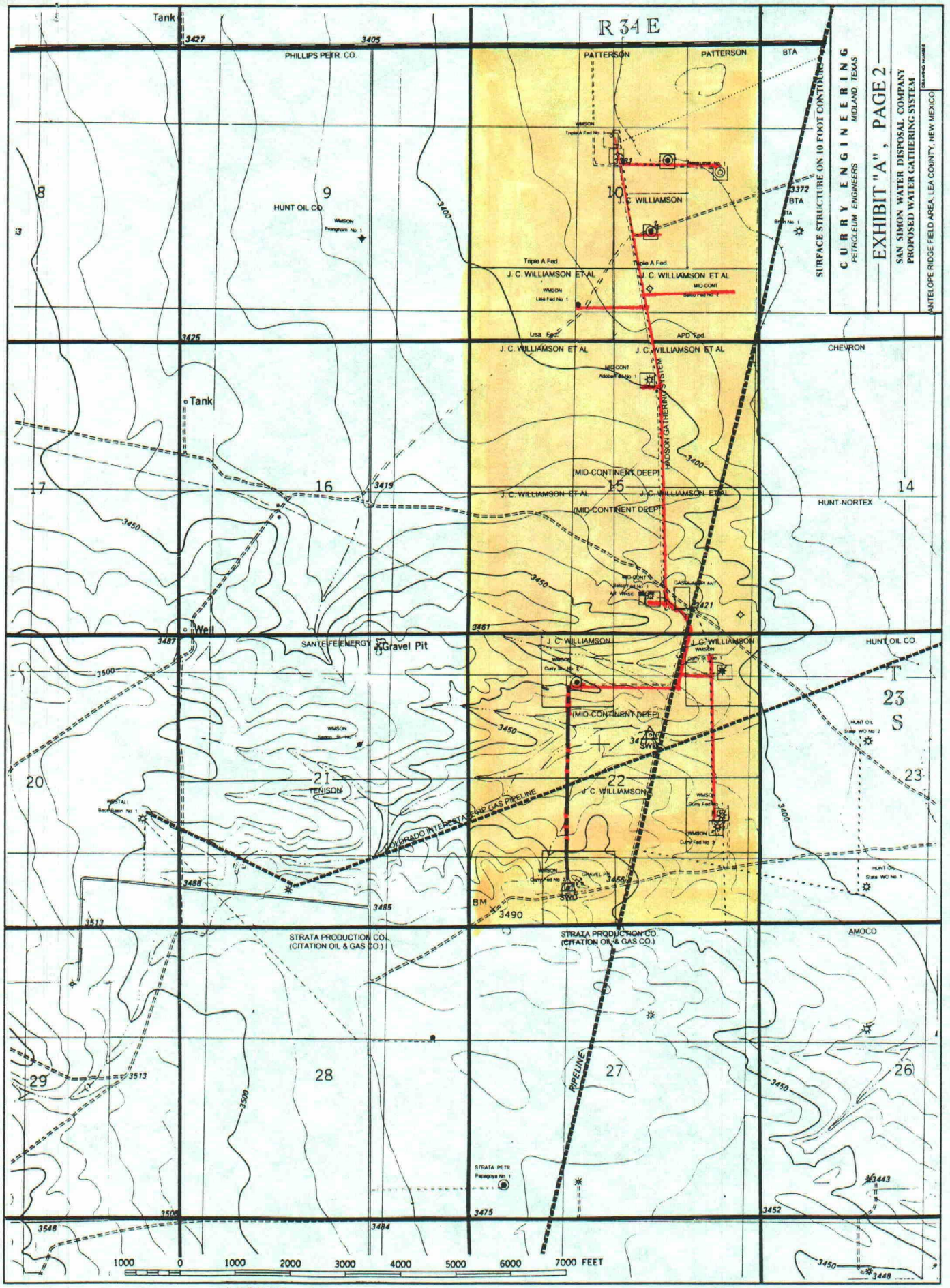

R 34 E
T 23 S
CURRY ENGINEERING
PETROLEUM ENGINEERS
MIDLAND, TEXAS
EXHIBIT "A", PAGE 2
SAN SIMON WATER DISPOSAL COMPANY
PROPOSED WATER GATHERING SYSTEM
ANTELOPE RIDGE FIELD AREA, LEA COUNTY, NEW MEXICO
SURFACE STRUCTURE ON 10 FOOT CONTOURS
PHILLIPS PETR. CO.
HUNT OIL CO.
PATTERSON
J. C. WILLIAMSON
J. C. WILLIAMSON ET AL
(MID-CONTINENT DEEP)
CHEVRON
HUNT-NORTEX
SANTEFE ENERGY
Gravel Pit
TENISON
J. C. WILLIAMSON
HUNT OIL CO.
STRATA PRODUCTION CO.
(CITATION OIL & GAS CO.)
AMOCO
JACSON GATHERING SYSTEM
COLORADO INTERSTATE NIP GAS PIPELINE
RIPELINE
Tank
Well
SWD
BM
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
LEGEND
DELAWARE OIL WELL
OTHER ZONE OIL WELL
DRY HOLE
DEEP GAS WELL
WATER DISPOSAL WELL
LEASE OR RANCH ROAD
PAVED HIGHWAY
HIGH PRESSURE GAS PIPELINE
LOW PRESSURE GAS GATHERING PIPELI
WATER GATHERING PIPELINE
WATER INJECTION PIPELINE
DRILLING PAD AND TANK BATTERIES
CURRY ENGINEERING
PETROLEUM ENGINEERS

EXHIBIT "B", PAGE 2, SAN SIMON WATER DISPOSAL COMPANY APPLICATION

THE FOLLOWING PARAGRAPHS ARE SUPPLEMENTS OF INTEROGATORIES SET OUT ON THE BLM STANDARD FORM 299(3/94) TO WHICH THIS INSTRUMENT IS AN ATTACHMENT AND IS IDENTIFIED BY QUERY NUMBER RELATING TO THAT FORM:

---

15. *Provid statement of need for the Project, including economic feasibility.*

The water produced in the subject area of this application is currently trucked out for a total cost of $1.40 to $1.86 per barrel. The water production is projected to be 730 barrels per day in the next 3 months. The cost of the proposed disposal system is estimated to cost $150,000. The future water production is expected to increase substantially over the next few years and the proposed system will be able to dispose of it properly at a cost to the oil and gas operators between $0.35 to $0.50 per barrel. This system should prolong the producing life of the leases by many years.

---

17. *Describe likely environmental effects in the area, including social and economic aspects, and the rural lifestyles.* **(a). The air quality should be vastly improved by eliminating the trucks that are required on a daily basis to transport the water from the subject leases to other disposal wells. All prime movers of the system will be electric and will not discharge any products to the air. (b). The visual impact will be quite pleasing as all pipelines will be underground, and all installations will be done in a professional manner with consideration to efficiency, safety and cosmetic design. The water will be transported on a continuous basis and will not be subject to spills and unsightly discharges. (c) Surface and ground water will be protected by pipeline transport and pumped into an environmentally and regulatory approved disposal well. (d) No stream or body of water is in the subject area and all measures of the ground water has been protected as prescribed by the State of New Mexico water resources agency. (e) The system will be very quite with only small electrical prime movers at each tank battery and a large electric motor running a triplex pump at a very very remote water gathering battery, a minimum of 1.5 miles from the only two habitations in the area. (f) As previously discussed elsewhere in this application only those areas already in use by the oil and gas industry will be used as rights of way, thereby eliminating any disturbance of the soil and vegetation**

---

20. *Name all of the Departments and Agencies where this application is being filed.*

This application has been filed with the Bureau of Land Management at Carlsbad, New Mexico both in its total form and attachments, with appropriate attachments (Sundry Notices) being directed to the Engineering Department for approval of the well to be used for disposal purposes. The entire application to the Department of Energy for the State of New Mexico Conservation Commission for approval for converting an abandoned well to a water disposal well is hereto attached and designated as Exhibit D for all purposes of this application.

SUPPLEMENTAL

NOTE: The responsible agency(ies) will provide additional instructions	CHECK APPROPRIATE BLOCK	
I - PRIVATE CORPORATIONS	ATTACHED	FILED*
a. Articles of Incorporation	☐	☐
b. Corporation Bylaws	☐	☐
c. A certification from the State showing the corporation is in good standing and is entitled to operate within the State.	☐	☐
d. Copy of resolution authorizing filing	☐	☐
e. The name and address of each shareholder owning 3 percent or more of the shares, together with the number and percentage of any class of voting shares of the entity which such shareholder is authorized to vote and the name and address of each affiliate of the entity together with, in the case of an affiliate controlled by the entity, the number of shares and the percentage of any class of voting stock of that affiliate owned, directly or indirectly, by that entity, and in the case of an affiliate which controls that entity, the number of shares and the percentage of any class of voting stock of that entity owned, directly or indirectly, by the affiliate.	☐	☐
f. If application is for an oil or gas pipeline, describe any related right-of-way or temporary use permit applications, and identify previous applications.	☐	☐
g. If application is for an oil and gas pipeline, identify all Federal lands by agency impacted by proposal.	☐	☐
II - PUBLIC CORPORATIONS		
a. Copy of law forming corporation	☐	☐
b. Proof of organization	☐	☐
c. Copy of Bylaws	☐	☐
d. Copy of resolution authorizing filing	☐	☐
d. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	☐	☐
III - PARTNERSHIP OR OTHER UNINCORPORATED ENTITY		
a. Articles of association, if any	☑	☐
b. If one partner is authorized to sign, resolution authorizing action is	☑	☐
c. Name and address of each participant, partner, association, or other **See Exhibit C., hereto attached.**	☑	☐
d. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	☐	☐

* If the required information is already filed with the agency processing this application and is current, check block entitled "Filed." Provide the file identification information *(e.g., number, date, code, name)*. If not on file or current, attach the requested information.

SEE ATTACHMENT TO THIS APPLICATION, NEXT PAGE

If. This application is for rights of way on previously approved lease road and oil field related operations that are identified on the map as Exhibit A., hereto attached.

Ig. Exhibit D is a map identifying all Federal Land in the area to be impacted by this application.

NOTICE

The Privacy Act of 1974 provides that you be furnished the following information in connection with information required by this application for an authorization.

AUTHORITY: 16 U.S.C. 310; 5 U.S.C. 301.

PRINCIPAL PURPOSE: The information is to be used to process the application.

ROUTINE USES: (1) The processing of the applicant's request for an authorization. (2) Documentation for public information. (3) Transfer to appropriate Federal agencies when concurrence is required prior to granting a right in public lands or resources. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Disclosure of the information is voluntary. If all the information is not provided, the application may be rejected.

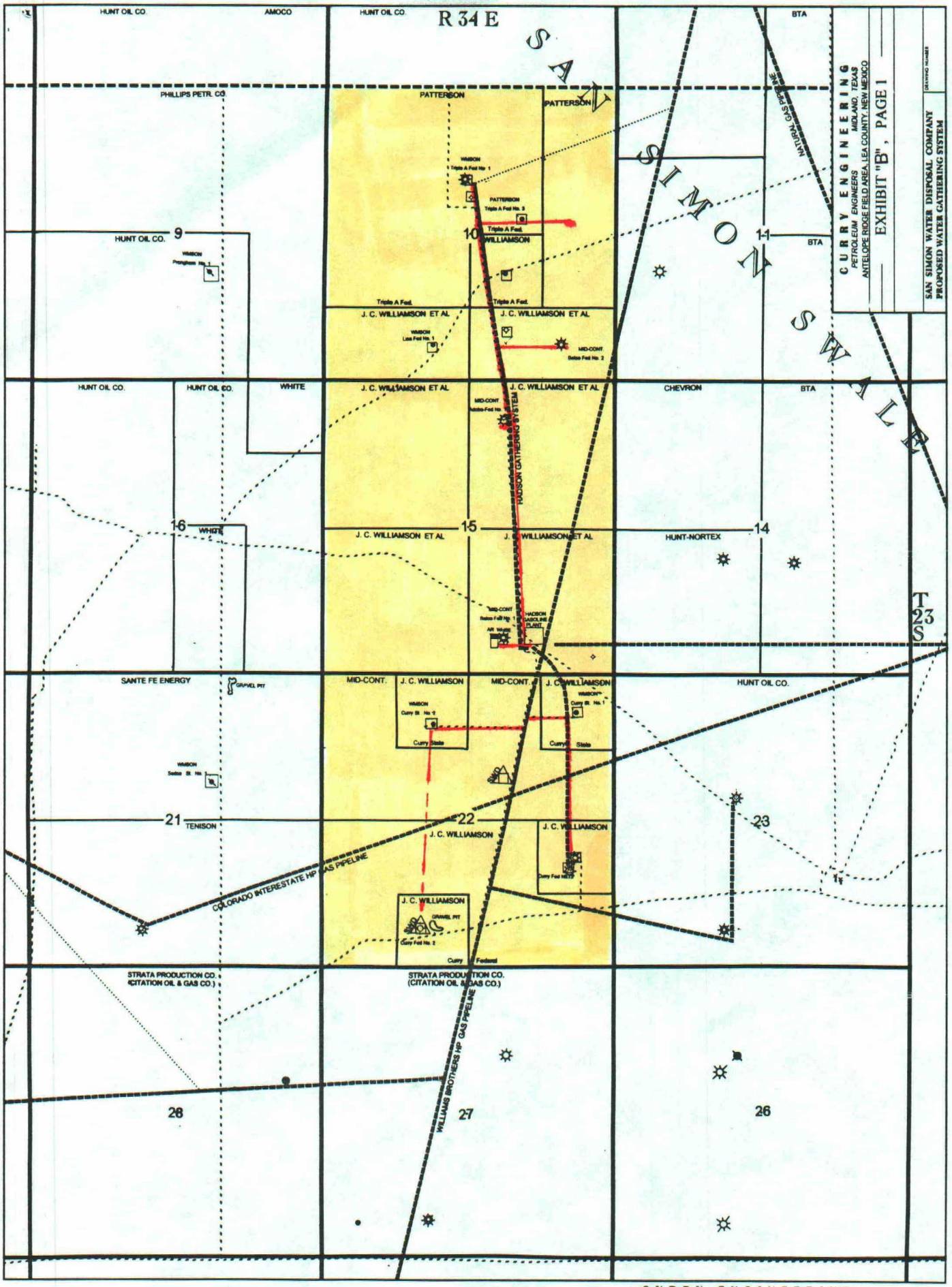
DATA COLLECTION STATEMENT

The Federal agencies collect this information from applicants requesting right-of-way, permit, license, lease, or certification for the use of Federal lands.

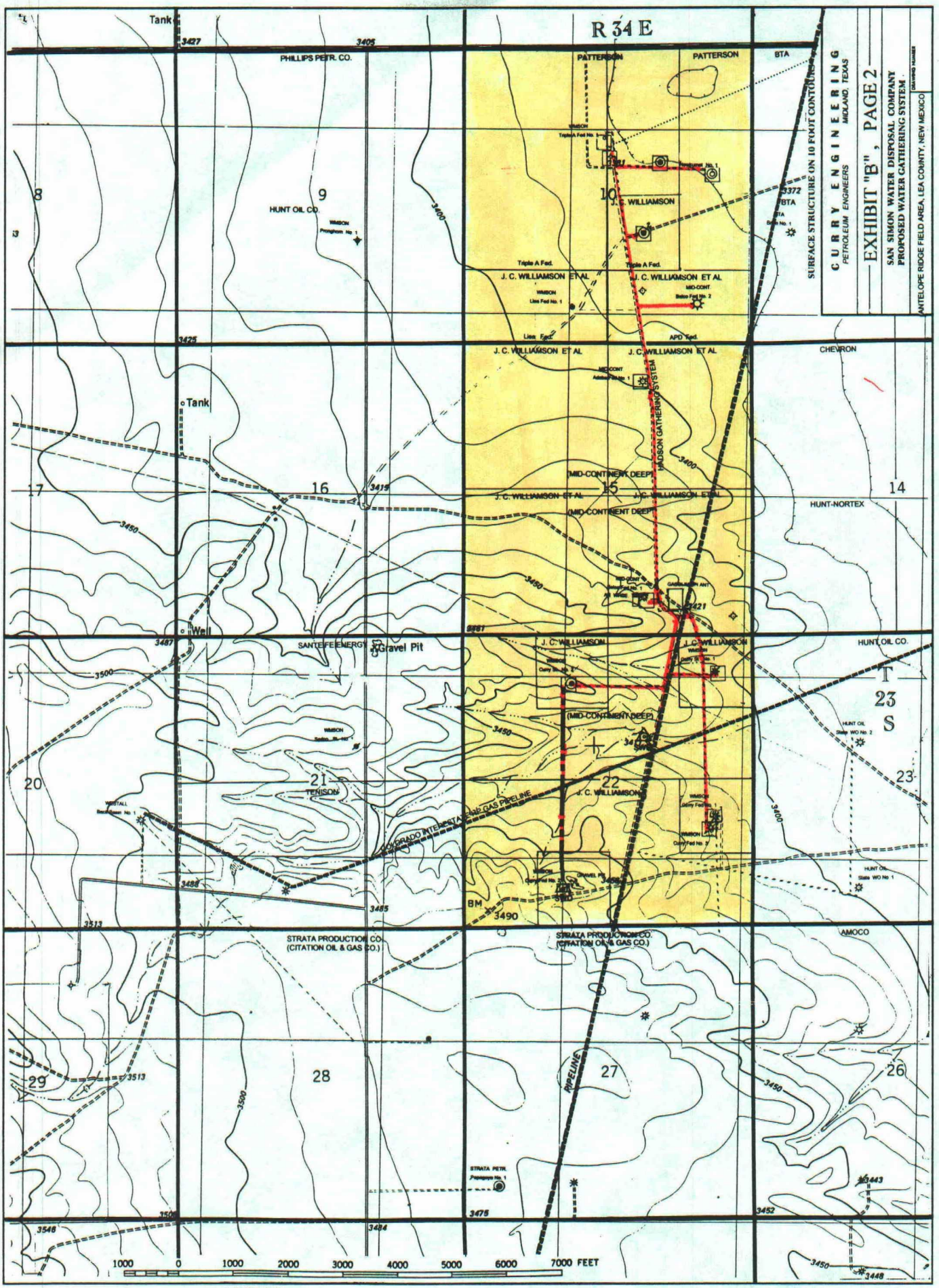
The Federal agencies use this information to evaluate the applicant's proposal.

The public is obligated to submit this form if they wish to obtain permission to use Federal lands.

A reproducible copy of this form may be obtained from the Bureau of Land Management, Division of Lands, 1620 L Street, Rm. 204, Washington, D.C. 20036.



CURRY ENGINEERING
PETROLEUM ENGINEERS MIDLAND, TEXAS


R 34 E
EXHIBIT "B", PAGE 2
CURRY ENGINEERING
PETROLEUM ENGINEERS
MIDLAND, TEXAS
SAN SIMON WATER DISPOSAL COMPANY
PROPOSED WATER GATHERING SYSTEM
ANTELOPE RIDGE FIELD AREA, LEA COUNTY, NEW MEXICO
SURFACE STRUCTURE ON 10 FOOT CONTOURS
PHILLIPS PETR. CO.
HUNT OIL CO.
PATTERSON
BTA
J. C. WILLIAMSON
J. C. WILLIAMSON ET AL
MID-CONT
CHEVRON
HUNT-NORTEX
SANTEFE ENERGY
Gravel Pit
TENISON
HUNT OIL CO.
STRATA PRODUCTION CO.
(CITATION OIL & GAS CO.)
AMOCO
MADISON GATHERING SYSTEM
(MID-CONTINENT DEEP)
Tank
Well
BM 3490
T 23 S
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
LEGEND
DELAWARE OIL WELL
OTHER ZONE OIL WELL
DRY HOLE
DEEP GAS WELL
WATER DISPOSAL WELL
LEASE OR RANCH ROAD
PAVED HIGHWAY
HIGH PRESSURE GAS PIPELINE
LOW PRESSURE GAS GATHERING PIPELI
WATER GATHERING PIPELINE
WATER INJECTION PIPELINE
DRILLING PAD AND TANK BATTERIES
CURRY ENGINEERING
PETROLEUM ENGINEERS

E X H I B I T "C"

The following discussion describes the association of owners of San Simon Water Disposal Company and discusses their competence and financial backing relative to constructing and operating the proposed water disposal company

Each of the owners of San Simon Water Disposal Company own an interest (shown in parentheses after their names) in all of the leases within the area of interest. J. C. Williamson is the Operator of Record for the shallow operating rights to the leases from which water will be gathered for disposal. All of the owners have arranged for 100 percent financing in advance for the construction of the water disposal system which demonstrates their financial ability and responsibility for construction of the system. J. C. Williamson will also be the Operator of Record for the water system as it is a subsidiary of the oil and gas operations and will be operated under a variation of the same Operating Agreement as the oil and gas leases. The operations and construction of the system will be supervised by the individual owners, whose expertise is discussed below:

MR. J. C. WILLIAMSON: (33.333 PERCENT)

Mr. Williamson has been an independent operator of oil and gas leases, most of which have been federal leases, for over fifty years and currently operates more than 60 oil wells in New Mexico. He is a pioneer geologist in the area and has been one of the first to recognize ond actively seek Delaware production in the Delaware Basin.

MR. MAX E. CURRY: (33.333 PERCENT)

Mr. Curry is a registered professional engineer with a BS degree in Petroleum Engineering from the University of Oklahoma. He has been active in the area of interest since 1950 and as a consulting engineer since he founded Curry Engineering in 1958, As a consultant, and for his own account, he has drilled and operated in excess of 400 wells in New Mexico and has designed, constructed and operated several water flood programs, gasoline plants and gas gathering systems. He will design and supervise the construction for the subject water gathering and disposal system.

MR. FRED W. TAYLOR: (16.667 PERCENT)

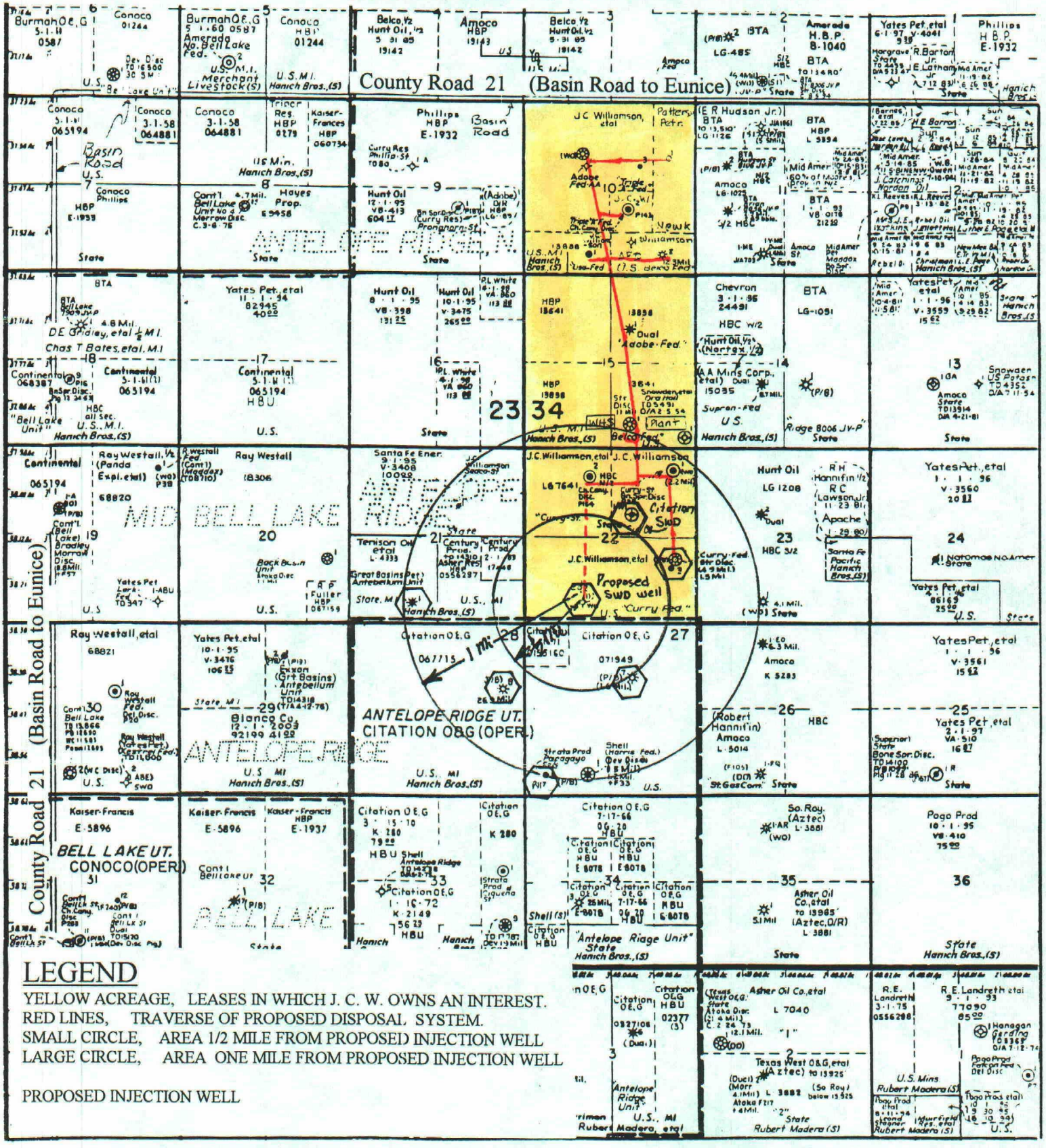
Mr. Taylor has been an operator of oil and gas producing systems, gas gathering and water systems in Oklahoma, Kansas, Texas and New Mexico. He has been in the oil field equipment sales and manufacturing business for many years and has been closely associated with the Antelope Ridge Field area as well as others in Chaves, Lea and Eddy Counties in New Mexico.

MR. TED. L. JURGENSEN: (16.666 PERCENT)

Mr. Jurgensen is a Mechanical Engineer long associated in the design and manufacturing of oil field equipment and services and is an owner in several operations in the Delaware Basin area.

E X H I B I T "C": LEASEHOLD MAP OF SUBJECT AREA

SUPPLEMENT TO : OIL CONSERVATION DIVISION FORM C-108
APPLICATION OF: San Simon Water Disposal Co., Antelope Ridge Area
Section 10, 15, and 22, T23S, R34E. Lea County, NM



LEGEND

YELLOW ACREAGE, LEASES IN WHICH J. C. W. OWNS AN INTEREST.
RED LINES, TRAVERSE OF PROPOSED DISPOSAL SYSTEM.
SMALL CIRCLE, AREA 1/2 MILE FROM PROPOSED INJECTION WELL
LARGE CIRCLE, AREA ONE MILE FROM PROPOSED INJECTION WELL

PROPOSED INJECTION WELL

E X H I B I T "C": ATTACHMENT TO EXHIBIT "C" (MAP) **Page 2**

SUPPLEMENT TO : **OIL CONSERVATION DIVISION FORM C-108**
APPLICATION OF: **San Simon Water Disposal Co., Antelope Ridge Area**
Section 22, T23S, R34E. Lea County, NM 3-20-95

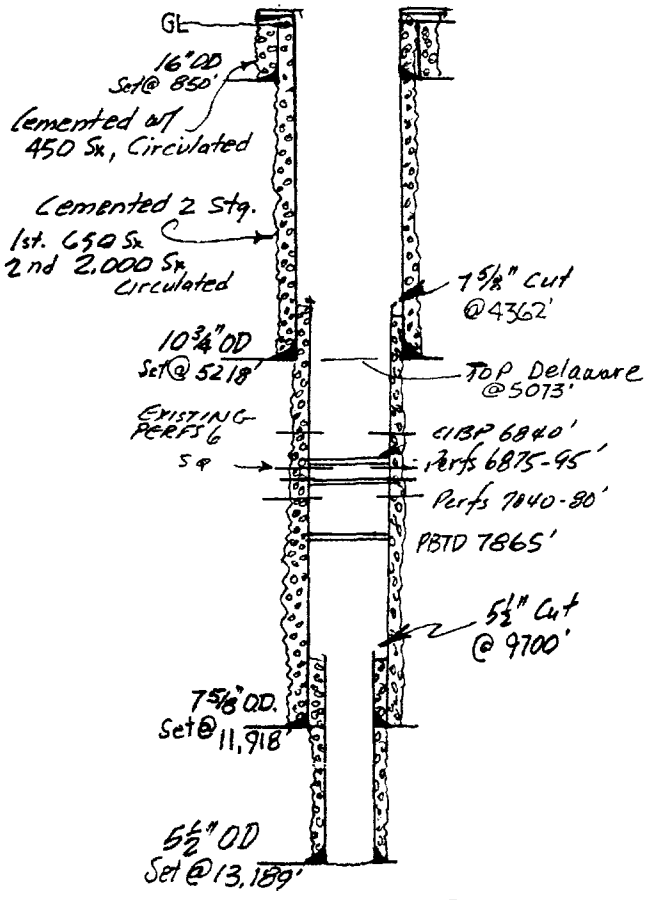
I N J E C T I O N W E L L D A T A

OPERATOR: J. C. Williamson **LEASE:** Curry Federal **WELL No.2**
LOCATION: SEC.22, T33S, R34E, Lea County, NM

PLUGGING RECORD

(CURRENT CONDITION OF THE WELL)

SCHEMATIC DRAWING OF WELL



ORIGINALLY DRILLED BY PATRICK PETR.

TUBULAR DATA

SURFACE CASING: Set @ 850 '
CSG. SIZE: 16", 65#, H-40.**CEMENTED WITH** 450 Sx. Circulated. **HOLE SIZE** 20"

INTERMEDIATE CASING: Set @ 5218'
CSG. SIZE: 10-3/4", 40.4-51#, **CEMENTED WITH**: 1st Stage 650 Sax. 2nd Stage 2000 Sax. Cement Circulated. **HOLE SIZE:** 13-3/4"

SECOND INTERMEDIATE CSG: Set @ 11,918'
CSG SIZE: 7-5/8", 29.7 - 33.7#, **CEMENTED WITH:** 1,100 Sax. **HOLE SIZE:** 9-1/2"
The top of cement was found at /or near 4300' when the well was originally plugged. This casing was cut off and pulled at 4,362' , leaving an 856' of cemented overlap inside the 10-3/4" Csg.

PRODUCTION CASING: Set @ 13,189'
CSG SIZE: 5" tapered to 5-1/2". **CEMENTED WITH:** 350 Sax. **HOLE SIZE:** 6-1/2".
This casing was later cut off at 9700' and a **CIBP** was set at 7900' with 35' of cement on top. PBTD was 7865'. Perfs in Delaware **7132-7154** tested 45 BWPD, no Shows Oil or Gas. **CIBP** at 7110' w/cement on top. Perfed **7040-7080'**, tested 95 BWPD with no shows. **CIBP** at 7030 w/cement on top. Perfed **6876-6895'**, tested 2 BO w/5 BW. Ran tracer then squeezed perfs. After squeeze found top of cement at 6746'. Drilled out and re-tested 6876-6895 perfs, no shows. **CIBP** 6840' w/cement on top. Perfed from **6140-6160'**. Acidized with 500 gals. Swabbed 135 BWPD average for nine days. found top water each day at 500' FS, no shows

CURRENT CONDITIONS OF HOLE: Well is shut in with a Plugged Back Total Depth of **6820'.** The perforations **6140-6160** are open and have been tested thoroughly for no oil or gas shows.It is the intention of the Operator to open additional perforations in the Bell Canyon formations to inject produced water by gathering, treating, and pumping into various sand bodies between 5000' and 6160'.

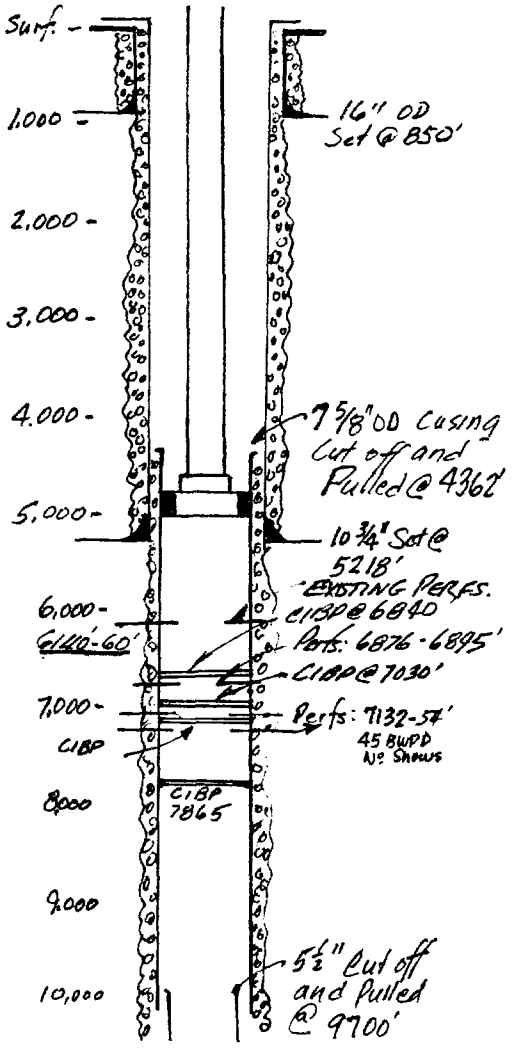
E X H I B I T "C": ATTACHMENT TO EXHIBIT "C" (MAP) **Page 3**
SUPPLEMENT TO : OIL CONSERVATION DIVISION FORM C-108
APPLICATION OF: San Simon Water Disposal Co., Antelope Ridge Area
Section 22, T23S, R34E. Lea County, NM 3-20-95

I N J E C T I O N W E L L D A T A

OPERATOR: J. C. Williamson **LEASE:** Curry Federal **WELL No. 2**
LOCATION: SEC.22, T33S, R34E, Lea County, NM

PROPOSED OPERATING CONDITIONS
(CONDITIONS AFTER RE-COMPLETION)

SCHEMATIC DRAWING OF WELL



TUBULAR DATA

SURFACE CASING: Set @ 850 '
CSG. SIZE: 16", 65#, H-40. CEMENTED
WITH 450 Sx. Circulated. **HOLE SIZE** 20"

INTERMEDIATE CASING: Set @ 5218'
CSG. SIZE: 10-3/4", 40.4-51#, **CEMENTED**
WITH: 1st Stage 650 Sax, 2nd Stage 2000 Sax. Cement Circulated. **HOLE SIZE:** 13-3/4"

SECOND INTERMEDIATE CSG: Set @ 11,918'
CSG SIZE: 7-5/8", 29.7 - 33.7#, **CEMENTED**
WITH: 1,100 Sax. **HOLE SIZE:** 9-1/2"
The top of cement was found at /or near 4300' when the well was originally plugged. This casing was cut off and pulled at 4,362' , leaving an 856' of cemented overlap inside the 10-3/4" Csg. This overlap has been tested to 2000 psig before fracture treatment, OK.

COMPLETION PROGNOSIS: The well will have a head installed for 3-1/2" OD Hydril tubing. The flow line from the treating and pumping station will consist of 3-1/2" OD CS Hydril that will be internally coated with 505 Epoxy coating or equivalent by Spin Coat. The flow line will not be buried, at least for the time being. The existing perforations will be left in their current condition and the tubing will be run in the hole with a Baker Lockset , nickel trim, or equivalent packer to be set at or near 5000'. The current perforated intervals will be tested by pump tests to determine if they will require treatment. It is obvious that the perforations will require at minimum a small fracture treatment in the area of 10,000 to 20,000 gallons, but all treatments and additional perforations will be performed through the tubing without pulling the tubing.

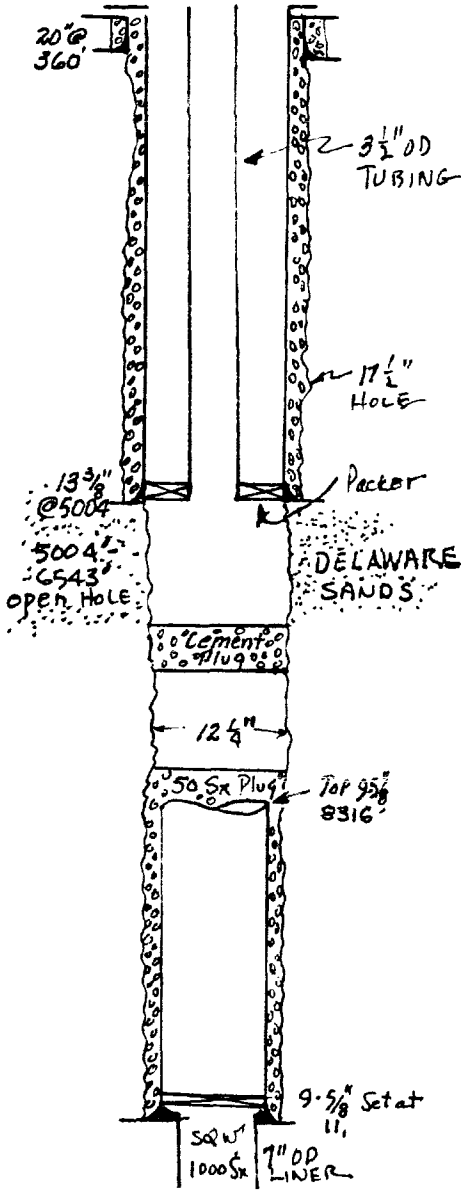
The Operator is requesting that any perforations between the top of the Delaware formation at or near 5,000' and the base of the existing perforations at 6160' be approved for further perforation and treatment after proper notice to the Oil Conservation Division. This proposed interval is less than the open hole interval that the Citation salt water disposal well is injecting into in the same Section as the subject application.

SUPPLEMENT TO : **OIL CONSERVATION DIVISION FORM C-108**
APPLICATION OF: **San Simon Water Disposal Co., Antelope Ridge Area**
Section 22, T23S, R34E. Lea County, NM 3-20-95

I N J E C T I O N W E L L D A T A

OPERATOR: CITATION OIL & GAS **LEASE: North AR Unit WELL No.**1
LOCATION: SEC.22, T33S, R34E, Lea County, NM
(CURRENT CONDITION OF THE WELL)

SCHEMATIC DRAWING OF WELL



TUBULAR DATA

SURFACE CASING: Set @ 360 '
CSG. SIZE: 20" **CEMENTED**
WITH 650 Sx. Circulated. **HOLE SIZE: 26"**

INTERMEDIATE CASING: Set @ 5004"
CSG. SIZE: 13-3/8" **CEMENTED**
WITH: 2250 Sax. TOC 2815'
HOLE SIZE: 17-1/2"

SECOND INTERMEDIATE CSG: Set @ 11.507'
CSG SIZE: 9-5/8" **CEMENTED**
WITH: 1.000 Sax. **HOLE SIZE:** 12-1/4"
The top of cement was found at /or near 8300' when the well was originally plugged. This casing was cut off and pulled at 8316'

PRODUCTION CASING: Set @ 14.134'
CSG SIZE: 7".Liner **CEMENTED**
WITH: 560 Sax. **HOLE SIZE:** 8-1/4".
CIBP was set at the top of the liner and squeezed off with 1000 Sx of Cement. The open hole section left between the cut off 9-5/8" casing at 8316' and the 13-3/8" casing seat was plugged back with a cement plug between 6743 and 6543".

CURRENT CONDITION OF HOLE: The water is disposed of by injecting it into the open hole section 5004' and the PBTD of 6543' down 3-1/2" OD tubing below a packer set at or near 5000'. The well is currently injecting water at approximately 1000 psig.

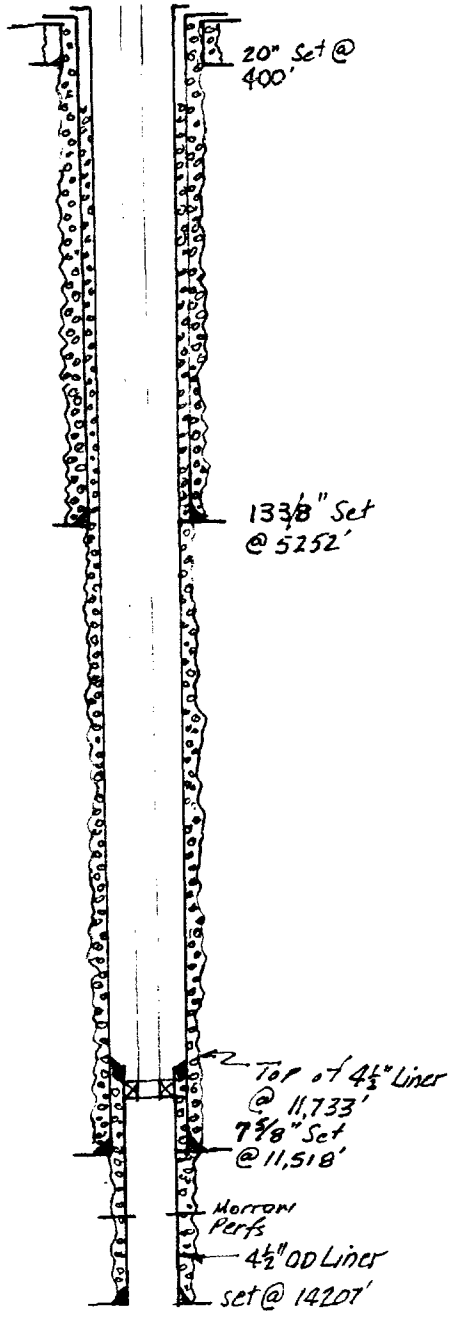
SUPPLEMENT TO : **OIL CONSERVATION DIVISION FORM C-108**
APPLICATION OF: **San Simon Water Disposal Co., Antelope Ridge Area**
Section 22, T23S, R34E. Lea County, NM 3-20-95

P R O D U C I N G W E L L D A T A

OPERATOR: Tenison Oil **LEASE:** Antebellum Unit **WELL No. 1**
LOCATION: SEC. 21, T33S, R34E, Lea County, NM

CURRENT CONDITIONS

SCHEMATIC DRAWING OF WELL



TUBULAR DATA

SURFACE CASING: Set @ 400'
CSG. SIZE: 20", 133#, H-40. **CEMENTED**
WITH 825 Sx. **HOLE SIZE** 26"

INTERMEDIATE CASING: Set @ 5252'
CSG. SIZE: 13-3/8", 72#, **CEMENTED**
WITH: 3750 Sax.
HOLE SIZE: 17-1/2"

SECOND INTERMEDIATE LINER: Set @ 11,650'
CSG SIZE: 9-5/8", 47, 40#, **CEMENTED**
WITH: 1929 Sx. **HOLE SIZE:** 10-3/4"

PRODUCTION LINER : 14,207 - 11,733'
CSG. SIZE: 4-1/2", P-110. **CEMENTED**
WITH: 875 Sax. HOLE SIZE: 6-1/2"

CURRENT STATUS OF WELL: The well is currently producing as a high pressure gas well from the Morrow (Penn.) formation.

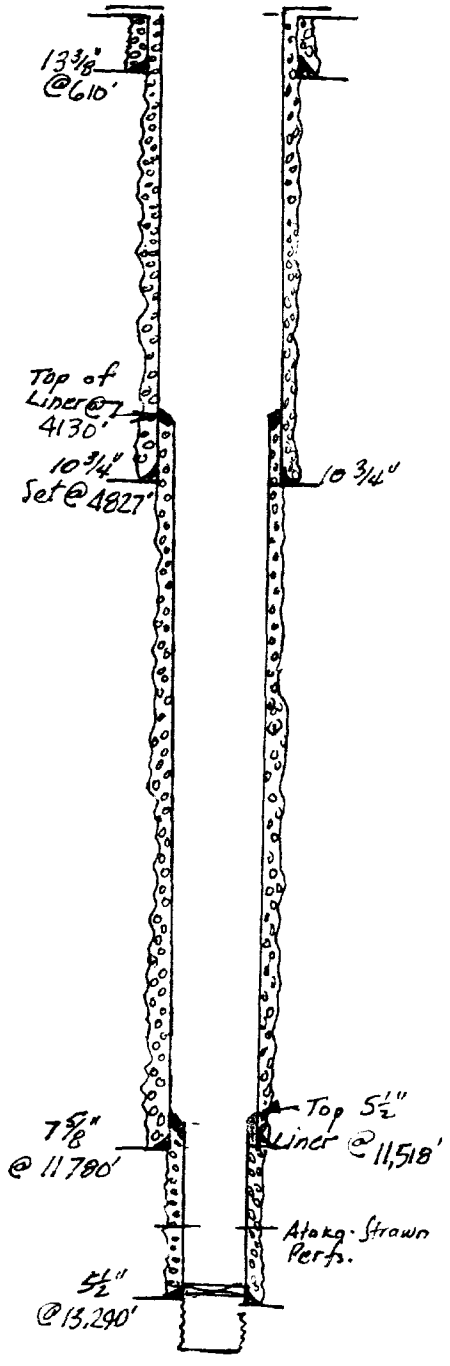
E X H I B I T "C": ATTACHMENT TO EXHIBIT "C" (MAP) **Page 6**
SUPPLEMENT TO : OIL CONSERVATION DIVISION FORM C-108
APPLICATION OF: San Simon Water Disposal Co., Antelope Ridge Area
Section 22, T23S, R34E. Lea County, NM 3-20-95

P R O D U C I N G W E L L D A T A

OPERATOR: J. C. Williamson **LEASE:** Curry Federal **WELL No. 3**
LOCATION: SEC. 22, T33S, R34E, Lea County, NM

(CURRENT CONDITIONS)

SCHEMATIC DRAWING OF WELL



TUBULAR DATA

Set 61' of 20" conductor pipe, Circulated cement back to surface with 100 sacks of cement.

SURFACE CASING: Set @ 610'
CSG. SIZE: 13-3/8", 68#. H-40. CEMENTED
WITH 750 Sx. Circulated. **HOLE SIZE** 17-1/2"

INTERMEDIATE CASING: Set @ 4827'
CSG. SIZE: 10-3/4", 40.4-51#. **CEMENTED**
WITH: 1st Stage 1000 Sax. 2nd Stage 250 Sax. Cement Circulated. **HOLE SIZE:** 12-1/4"

SECOND INTERMEDIATE LINER: Set @ 11,780'
CSG SIZE: 7-5/8", 29.7 - 33.7#. **CEMENTED**
WITH: 2470 Sx. **HOLE SIZE:** 9-1/2"
Top of Liner at 4130. Cement circulated to top of liner.t

PRODUCTION CASING LINER: 13,290 - 11,518'
CSG. SIZE: 5-1/2", 17#. P-110. **CEMENTED**
WITH: 175 Sax. Converted mud to oil-base system and drilled to TD for open hole completion. Well not commercial . abandoned Morrow and attempted completion in Atoka-Strawn section. High Pressure-low volume The well is currently shut in

CURRENT STATUS OF WELL: The well is currently shut in waiting on recompletion in the Delaware formation. This remedial work is scheduled to begin in a few weeks.

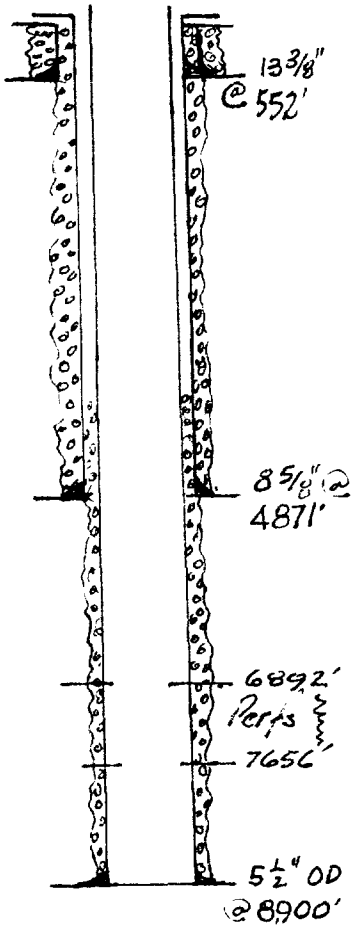
E X H I B I T "C": ATTACHMENT TO EXHIBIT "C" (MAP) **Page 7**
SUPPLEMENT TO : OIL CONSERVATION DIVISION FORM C-108
APPLICATION OF: San Simon Water Disposal Co., Antelope Ridge Area
Section 22, T23S, R34E. Lea County, NM 3-20-95

P R O D U C I N G W E L L D A T A

OPERATOR: Strata Production Co. **LEASE:** Papagayo Federal **WELL No. 1**
LOCATION: SEC. 27, T33S, R34E, Lea County, NM

(CURRENT CONDITIONS)

SCHEMATIC DRAWING OF WELL



TUBULAR DATA

SURFACE CASING: Set @ 552 '
CSG. SIZE: 13-3/8", 48#, H-40. CEMENTED
WITH 700 Sx. **HOLE SIZE** 17-1/2"

INTERMEDIATE CASING: Set @ 4871'
CSG. SIZE: 8--5/8", 24 and 32#. **CEMENTED**
WITH: 1,330 Sax. circulated 136 sax to pit.
Cement Circulated. **HOLE SIZE:** 9-1/2"

PRODUCTION CASING: Set @ 8,900'
CSG. SIZE: 5-1/2", 17#. P-110. **CEMENTED**
WITH: 1st stg: 680 Sax. . 2nd Stg. 395 Sax .

CURRENT STATUS OF WELL: The well is currently perforated in several sand bodies between the depths 7656' and 6892' in the Delaware formation. The well is currently producing oil.. The well was potentialed at 117 BO and 86 BW on the date 9-7-94.

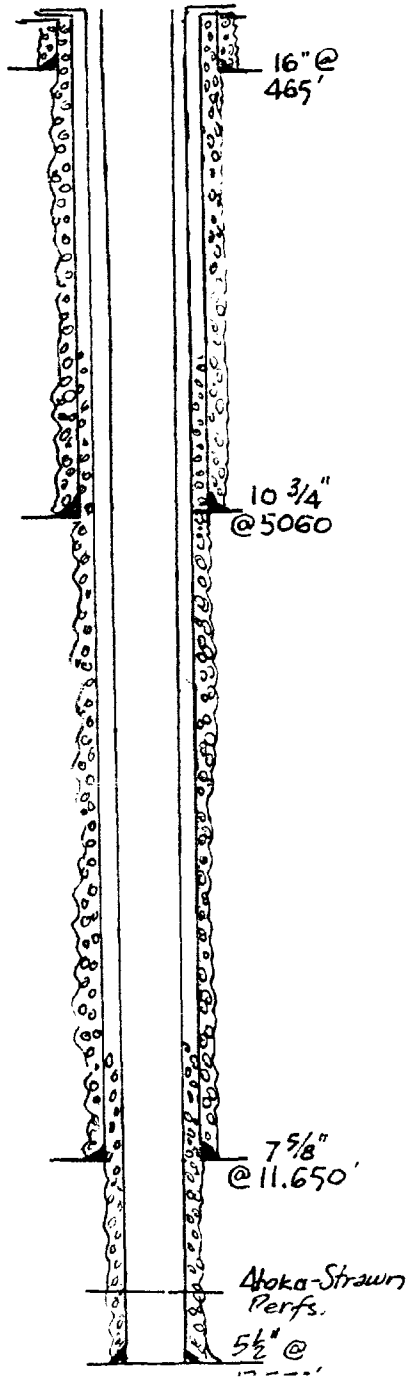
SUPPLEMENT TO : **OIL CONSERVATION DIVISION FORM C-108**
APPLICATION OF: **San Simon Water Disposal Co., Antelope Ridge Area**
Section 22, T23S, R34E. Lea County, NM 3-20-95

P R O D U C I N G W E L L D A T A

OPERATOR: Citation Oil & Gas **LEASE:** Antelope Ridge Unit **WELL No.** 7
LOCATION: SEC. 27, T33S, R34E, Lea County, NM

CURRENT CONDITIONS

SCHEMATIC DRAWING OF WELL



TUBULAR DATA

SURFACE CASING: Set @ 465 '
CSG. SIZE: 16". 65#. H-40. CEMENTED
WITH 875 Sx. **HOLE SIZE** 20"

INTERMEDIATE CASING: Set @ 5060'
CSG. SIZE: 10-3/4". 40.4-51#. **CEMENTED**
WITH: 1700 Sax.
HOLE SIZE: 14-3/4"

SECOND INTERMEDIATE Set @ 11,650'
CSG SIZE: 7-5/8". 29.7 - 33.7#. **CEMENTED**
WITH: 800 Sx. **HOLE SIZE:** 9-1/2"

PRODUCTION CASING : 13,574"
CSG. SIZE: 5-1/2". 17#. P-110. **CEMENTED**
WITH: 175 Sax. HOLE SIZE: 6-1/2"

CURRENT STATUS OF WELL: The well is currently producing as a high pressure gas well from the Atoka-Strawn (Penn.) formation.

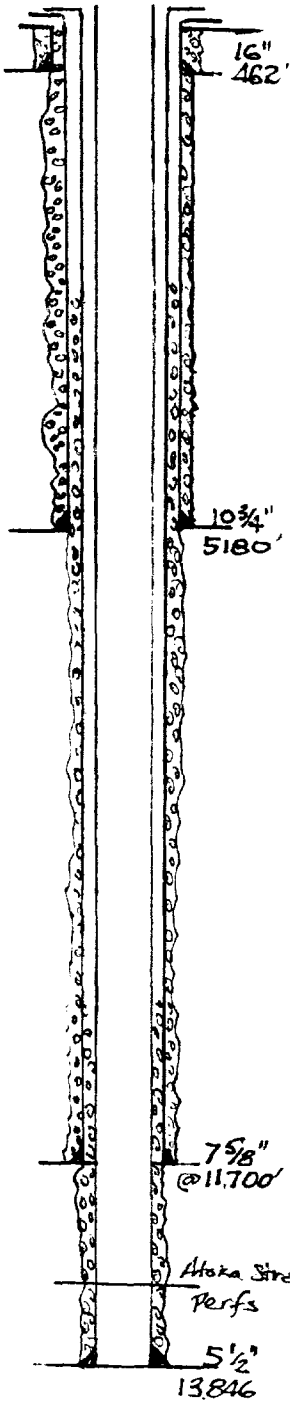
SUPPLEMENT TO : **OIL CONSERVATION DIVISION FORM C-108**
APPLICATION OF: **San Simon Water Disposal Co., Antelope Ridge Area**
Section 22, T23S, R34E. Lea County, NM 3-20-95

P R O D U C I N G W E L L D A T A

OPERATOR: Citation Oil & Gas **LEASE:** Antelope Ridge Unit **WELL No. 8**
LOCATION: SEC. 28, T33S, R34E, Lea County, NM

CURRENT CONDITIONS

SCHEMATIC DRAWING OF WELL



TUBULAR DATA

SURFACE CASING: Set @ 462 '
CSG. SIZE: 16", 65#, H-40. CEMENTED
WITH 950 Sx. **HOLE SIZE** 20"

INTERMEDIATE CASING: Set @ 5180'
CSG. SIZE: 10-3/4", 40.4-51#. **CEMENTED**
WITH: 1670 Sax.
HOLE SIZE: 14-3/4"

SECOND INTERMEDIATE Set @ 11,700'
CSG SIZE: 7-5/8", 29.7 - 33.7#. **CEMENTED**
WITH: 1000 Sx. **HOLE SIZE:** 9-1/2"

PRODUCTION CASING : 13,846"
CSG. SIZE: 5-1/2", 17#. P-110. **CEMENTED**
WITH: 175 Sax. HOLE SIZE: 6-1/2"

CURRENT STATUS OF WELL: The well is currently producing as a high pressure gas well from the Atoka-Strawn (Penn.) formation.

22 (N) - 23 - 34

Schlumberger

BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY

COMPANY PATRICK PETROLEUM CORPORATION

WELL SUPERIOR FEDERAL #1

FIELD ANTELOPE RIDGE

COUNTY LEA STATE NEW MEXICO

LOCATION 660' FSL & 1830' FWL

Sec. 22 Twp. 23-S Rge. 34-E

Other Services: DIL

COUNTY LEA
FIELD OR LOCATION ANTELOPE RIDGE
WELL SUPERIOR FEDERAL #1
COMPANY PATRICK PETR.

Permanent Datum: G.L. Elev. 3476
Log Measured From K.B. 19 Ft. Above Perm. Datum
Drilling Measured From K.B.

Elev.: K.B. 3495
D.F. 3494
G.L. 3476

Date	2-4-72	3-15-72			
Run No.	ONE	TWO			
Depth—Driller	11927	13500			
Depth—Logger	11928	13489			
Btm. Log Interval	11926	13487			
Top Log Interval	0	11927			
Casing—Driller	10 3/4@5200	7 5/8 @ 11927	@	@	
Casing—Logger	5219	11927			
Bit Size	9 7/8	6 1/2			
Type Fluid in Hole	CAUSTIC BRINE	CAUSTIC CHEM. FRESH MUD			
Dens. | Visc.	9.3 | 28	13.2 | 50			
pH | Fluid Loss	10 | mls	13.0 | 17.2 mls	| mls	| mls	
Source of Sample	PIT	PIT			
R_m @ Meas. Temp.	.069@ 70°F	.53 @ 59°F	@ °F	@ °F	
R_{mf} @ Meas. Temp.	.069@ 70°F	.295 @ 70°F	@ °F	@ °F	
R_{mc} @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F	
Source: R_{mf} R_{mc}	M |	M |			
R_m @ BHT	.032@ 156°F	.185 @ 173°F	@ °F	@ °F	
Time Since Circ.	5 HOURS	8 HOURS			
Max. Rec. Temp.	156 °F	173 °F	°F	°F	
Equip. | Location	7646 | HOBBS	7645 | HOBBS	|	|	
Recorded By	WILSON	WALLS			
Witnessed By	MANULIK	MANULIK			

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

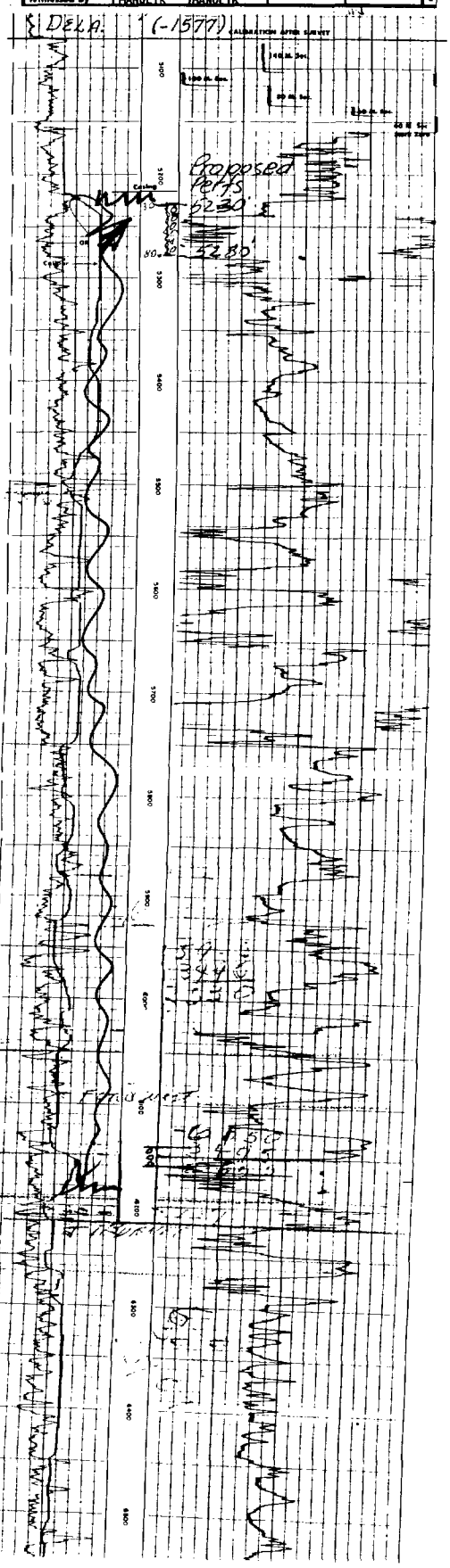
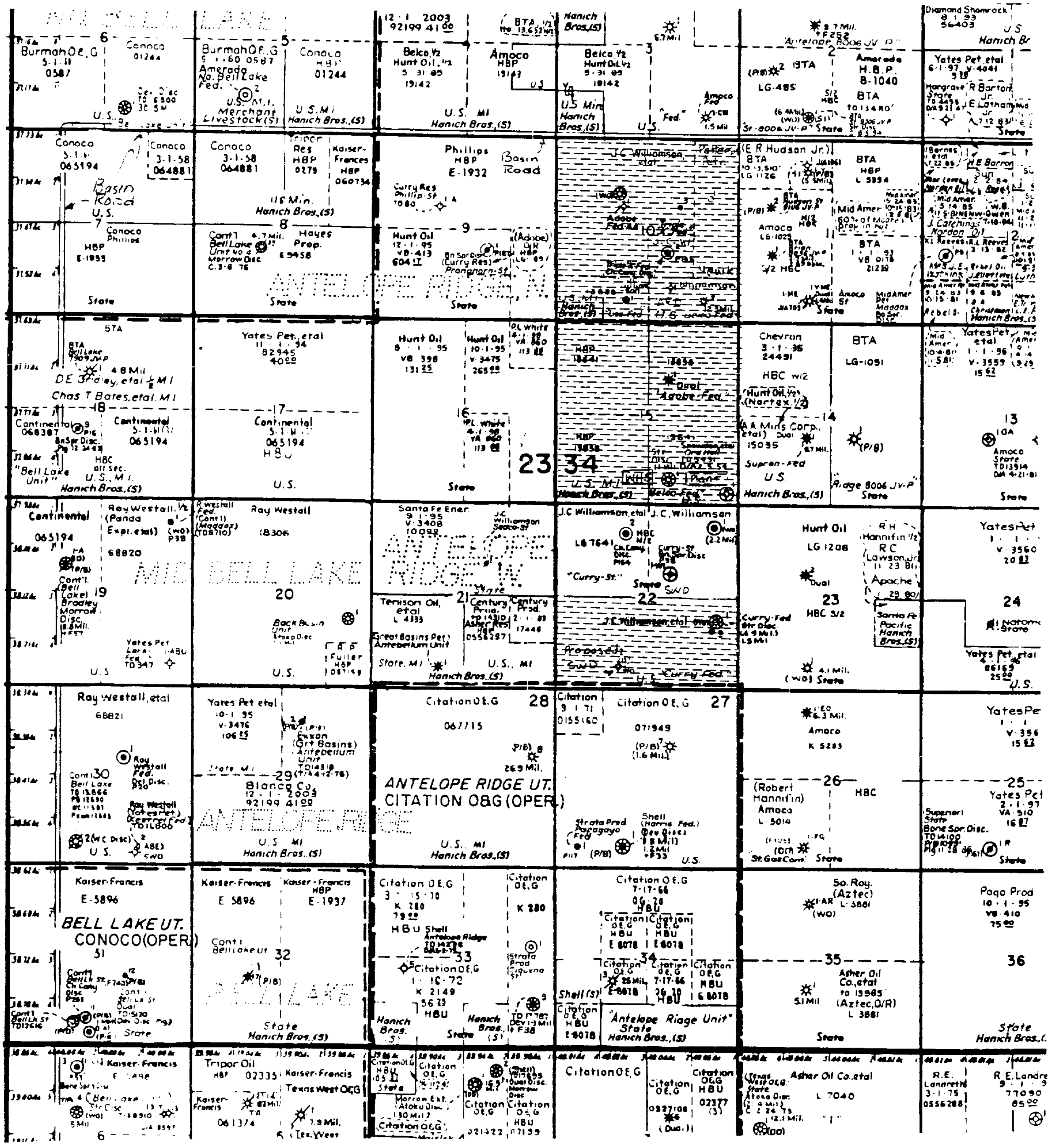


EXHIBIT "D"

SHADED LEASES ARE THOSE FEDERAL LEASES THAT WILL BE DIRECTLY AFFECTED BY THE SUBJECT APPLICATION FOR RIGHTS OF WAY FOR THE PROPOSED WATER DISPOSAL SYSTEM



Form 3160-5
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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.)

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NM-0552659A

1. OIL WELL ☐ GAS WELL ☐ OTHER: CONVERT WELL TO WATER INJECTION

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR: J. C. WILLIAMSON

8. FARM OR LEASE NAME: Curry Federal

3. ADDRESS OF OPERATOR: P. O. Box 16, Midland, Texas 79701

9. WELL NO.: No. 2

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

Unit N, Section 22, T23S, R34E, Lea County, New Mexico.
Located 660' FSL and 1830' FWL of the Section

10. FIELD AND POOL, OR WILDCAT: Antelope Ridge

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 10, T23S, R34E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GL 3476'

12. COUNTY OR PARISH: Lea

13. STATE: NM

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) Convert to Water Disposal	☐			(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.)*

This notice is a request of approval for remedial work required to convert the Curry Federal Well No. 2 (Originally drilled by Patrick Petroleum and abandoned, then operated by Estoril Producing Co., and recently acquired by J. C. Williamson) to a water injection well to dispose of produced water. The system is under advisement for administrative approval by the New Mexico Oil Conservation Division and. The Bureau of Land Management is considering a formal request for Rights of Way on leases owned and operated by the applicant to gather , treat and pump water into the subject well. Almost all of the water gathered is produced on federal leases and will substantially reduce the operating cost of these leases and give them many more years of productivity as well as protect the environment. Attached are two exhibits that will set out in detail the current conditions of the subject well and a detailed prognosis of the remedial work planned to convert the subject well to water disposal service.

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

SIGNED: Mary E. Currey TITLE: Agent DATE: 3-20-95

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Fred W. Taylor
P. O. Box 16, Midland, TX 79702

LABORATORY NO. 295181
SAMPLE RECEIVED 2-18-95
RESULTS REPORTED 2-22-95

COMPANY J. C. Williamson LEASE As listed
FIELD OR POOL Antelope Ridge
SECTION ____ BLOCK ____ SURVEY ____ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Raw water - taken from Antelope Ridge Warehouse water well.
NO. 2 Produced water - taken from Triple "A" #3.
NO. 3
NO. 4
REMARKS: 2. Delaware

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0037	1.1914		
pH When Sampled				
pH When Received	8.07	6.03		
Bicarbonate as HCO_3	212	46		
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	316	93,000		
Calcium as Ca	82	32,600		
Magnesium as Mg	27	2,795		
Sodium and/or Potassium	49	77,132		
Sulfate as SO_4	92	274		
Chloride as Cl	108	184,649		
Iron as Fe	1.1	18.0		
Barium as Ba		0		
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	570	297,497		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	12.70	0.046		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks It is our understanding these waters are to be utilized for drilling purposes. We see no evidence that would cause any need for concern in the water from the water well. However, the water from Triple "A" #3 shows an abnormally high calcium and magnesium; and if a high-pH drilling brine is anticipitated, it is necessary to add significantly more treatment to raise the pH above 9.0 in that magnesium and some calcium would precipitate as hydroxides before getting the pH on up to the level normally used for drilling purposes. Otherwise, we see no need for concern regarding the use of this water from Triple "A" #3.

Form No. 3

By Waylan C. Martin, M.A.

1948 A

HALLIBURTON DIVISION LABORAT

HALLIBURTON SERVICES
MIDLAND DIVISION
HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No. 89-057

To J C Williamson

P.O. Box 16

Midland TX 79710

Date 3-29-89

Submitted by _____ Date Rec. 3-29-89

Well No. Water Wells & Curry #2 Depth _____ Formation _____

County _____ Field _____ Source _____

	Water Well #1	Water Well #2	Curry St. #2
Resistivity	10 @ 70°	10 @ 70°	0.076 @ 70°
Specific Gravity	1.005	1.005	1.155
pH	6.8	7.2	5.1
Calcium (Ca)	195	400	22,500 *MPL
Magnesium (Mg)	Nil	Nil	3,150
Chlorides (Cl)	100	130	144,000
Sulfates (SO_4)	Light	Heavy	Moderate
Bicarbonates (HCO_3)	216	132	Nil
Soluble Iron (Fe)	Nil	Nil	Heavy

Remarks:

*Milligrams per liter

Respectfully submitted,

Analyst: Jay Bradford

HALLIBURTON COMPANY

cc:

By _____
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.

POST OFFICE DRAWER 1030
ROSWELL, NM 88202-1030

STRATA PRODUCTION COMPANY

200 WEST FIRST STREET, ROSWELL PETROLEUM BUILDING, SUITE 700
ROSWELL, NEW MEXICO 88201

TELEPHONE (505) 622-1127
FACSIMILE (505) 623-3533

March 30, 1995

Via Telefax (505-827-5741) Original by U.S. Mail
Oil Conservation Division
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87501
Attention: Mr. David Catanach

RE: C-108 SWD Application
San Simon Water Disposal Company
Curry Federal Well No. 2

Gentlemen:

State Production Company has been provided with a copy of the referenced Application. As an offset operator and owner of leasehold and operating rights, Strata offers no objection to the conversion of the Curry Federal Well No. 2 for purposes of salt water disposal.

Sincerely,

Strata Production Company

Mark B. Murphy
President

MBM/cdr

cc: Via Telefax (915-694-7897)
San Simon Water Disposal
Attention: Mr. Max E. Curry

Hobbs Daily News-Sun

No. 21959

P.O. Box 860
Hobbs, N.M. 88240

Date 3-23-95

Received of J. C. Williamson $ 19.88

Legal Notice March 27, 1995

A/R Retail ______ A/R Class. ______

Section 22, T23S, R34E of Water disposal well.

Class Prepaids ______ Misc. ______

Cash ✓ Check ______ M/C ______

By [signature]

To David

Will be published 3-27-95 – a copy will be mailed at that time.

MEC