



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

ADMINISTRATIVE ORDER SWD-744

***APPLICATION OF GRIFFIN PETROLEUM COMPANY FOR SALT WATER DISPOSAL,
EDDY COUNTY, NEW MEXICO.***

**ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION**

Under the provisions of Rule 701(B), Griffin Petroleum Company made application to the New Mexico Oil Conservation Division on April 29, 1999, for permission to complete for salt water disposal its Willow Lake Com Well No.1 located 660 feet from the North line and 1980 feet from the West line (Unit C) of Section 22, Township 24 South, Range 28 East, NMPM, Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

IT IS THEREFORE ORDERED THAT:

The applicant herein, is hereby authorized to complete its Willow Lake Com Well No.1 located 660 feet from the North line and 1980 feet from the West line (Unit C) of Section 22, Township 24 South, Range 28 East, NMPM, Eddy County, New Mexico, in such manner as to permit the injection of salt water for disposal purposes into the Bone Spring formation at approximately 7,184 feet to approximately 8,850 through 2 7/8-inch plastic-lined tubing set in a packer located at approximately 7,140 feet.

IT IS FURTHER ORDERED THAT:

The operator received verbal approval for the subject well on May 22, 1999.

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing, or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection well to no more than 1437 psi.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the Bone Spring formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment and of the mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

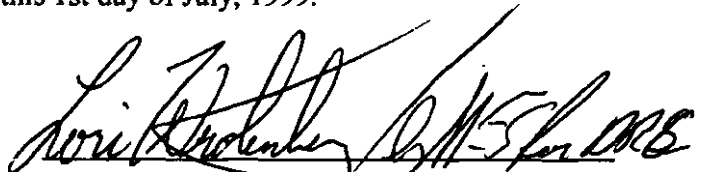
The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations.

Administrative Order SWD-744
Griffin Petroleum Company
May 11, 1999
Page 3

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided

however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

Approved at Santa Fe, New Mexico, on this 1st day of July, 1999.


LORI WROTENBERY, Director

LW/BES/kv

cc: Oil Conservation Division – Artesia

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Co.
811 S. 1st St.
Artesia, NM 87003

Division FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
Griffin Petroleum Company

3a. Address
550 W. Texas Ste. 1240 Midland TX

3b. Phone No. (include area code)
(915) 687-1042

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
660' FNL & 1980' FWL, Section 22
TWP 24-S, RNG 28-E

5. Lease Serial No.
0-2834 NM-20360

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
Willow Lake #1

9. API Well No.
30-01521499

10. Field and Pool, or Exploratory Area
Willow Lake (Atoka)

11. County or Parish, State

Eddy County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Alter Casing
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Change Plans
	<input checked="" type="checkbox"/> Convert to Injection
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other <i>Change Of Operator</i>

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

- 1) Anticipated Start date for conversion - May 21, 1999
- 2) RU pulling unit. Pull out of hole with tubing.
- 3) Perforate the Bone Spring from 7184' - 8850.
- 4) Acidize and frac if necessary.
- 5) Place well on injection.

**SUBJECT TO
LIKE APPROVAL
BY STATE**

*Change Of Operator From Thunderbolt Petroleum To Griffin Petroleum
Company (I/L BLM Bond Number NM2667) Effective 09-01-98*

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

ERIC GRIFFIN

Title
Vice-President

Date
5-4-99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

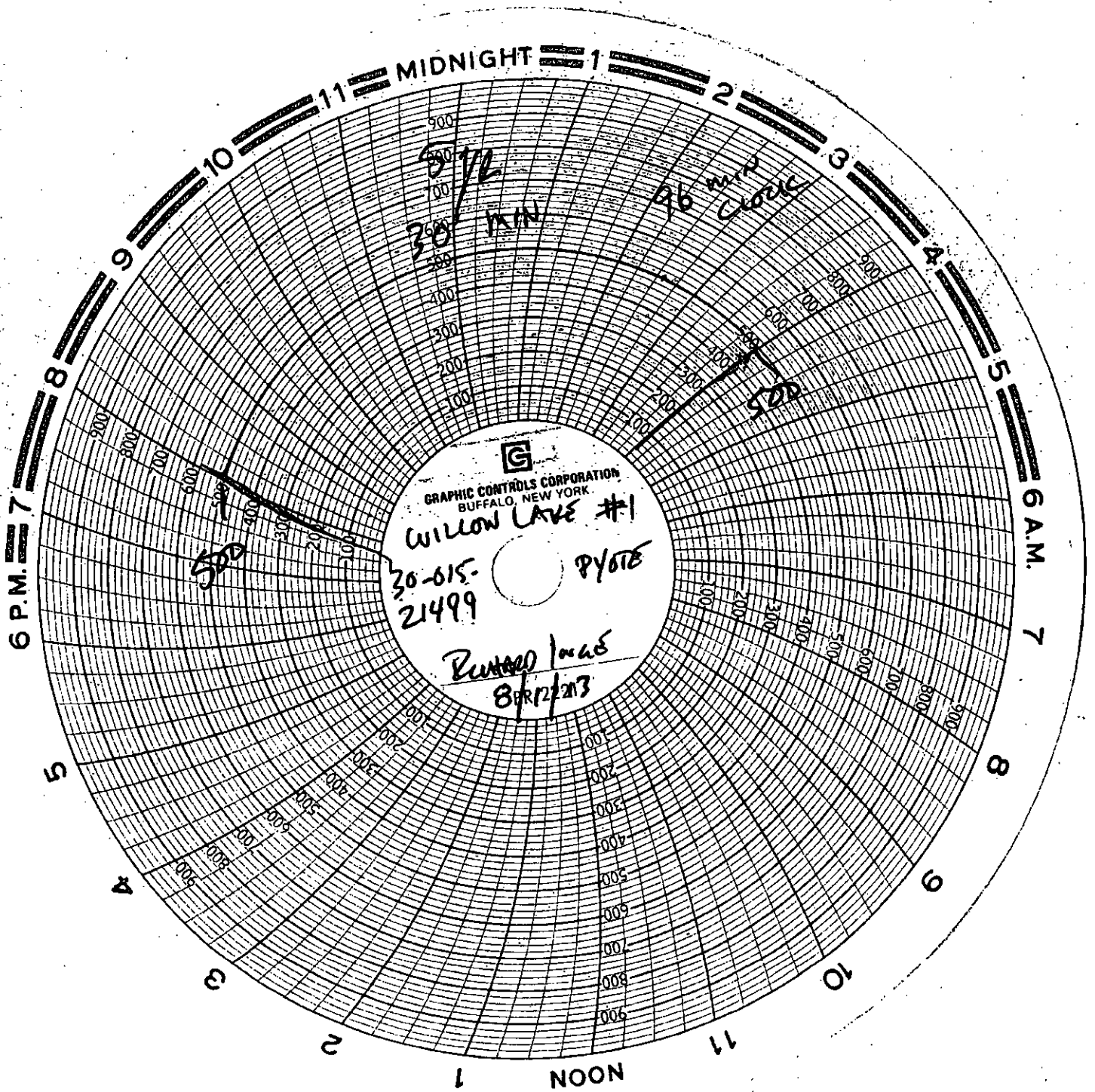
Approved by
(ORIG. SGD.) DAVID R. GLASS

PETROLEUM ENGINEER

Date
MAY 21 1999

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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.



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

nMLB1413536397

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Pyote Water Solutions, LLC	Contact	Jerry Burton NM Operations Manager
Address	400 W Illinois, Ste 950	Telephone No.	(432) 448-4917
Facility Name	Willow Lake SWD	Facility Type	Salt Water Disposal

Surface Owner	Pyote Water Solutions, LLC	Mineral Owner	Pyote Water Solutions, LLC	API No.	30-015-21499
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
				200 ft	South	no	no	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	production water	Volume of Release	1200 bbls	Volume Recovered	1200 bbls
Source of Release	Franco's driver hit cement barrier, took out lead lines 1 & 2	Date and Hour of Occurrence	4/25/14	Date and Hour of Discovery	4/25/14 14:25 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Jerry Burton NM Operations Manager		
By Whom?	anonymous driver reported this	Date and Hour	4/25/14 15:75 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*	NONE
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Describe Cause of Problem and Remedial Action Taken.*	see initial report
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Describe Area Affected and Cleanup Action Taken.*	1. called in Talon for soil samples, checked high on chloride's. 2. Brought in S&B Services, LLC excavating, took out contaminated soil. (3) Talon came back in ran soil samples, chloride check was good. (4) S&B brought in fresh top soil. (5) Talon came back in and re-seeded with #2 BLSI seed.
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Jerry Burton</i>	OIL CONSERVATION DIVISION		
Printed Name: Jerry Burton	Approved by Environmental Specialist: <i>MBratcher</i>		
Title: New Mexico Operations Manager	Approval Date: 1/7/2016	Expiration Date: N/A	
E-mail Address: jerry@pyotewatersystems.com	Conditions of Approval: N/A Final Report		Attached <input type="checkbox"/>
Date: 8-10-14	Phone: 432-448-4917		

* Attach Additional Sheets If Necessary

2RP-2305

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals and Natural
Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-145
August 1, 2011
Permit 160105

Change of Operator

Previous Operator Information

OGRID: 161968
Name: MESQUITE SWD, INC
Address: PO BOX 1479
City, State, Zip: CARLSBAD, NM 88221

New Operator Information

Effective Date: Effective on the date of approval by the OCD
OGRID: 294873
Name: PYOTE WELL SERVICE, LLC
Address: 400 W. Illinois Ave
Ste 950
City, State, Zip: Midland, TX 79701

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Additionally, by signing below, PYOTE WELL SERVICE, LLC certifies that it has read and understands the following synopsis of applicable rules.

PREVIOUS OPERATOR certifies that all below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells being transferred are either (1) in compliance with 19.15.17 NMAC, (2) have been closed pursuant to 19.15.17.13 NMAC or (3) have been retrofitted to comply with Paragraphs 1 through 4 of 19.15.17.11(i) NMAC.

PYOTE WELL SERVICE, LLC understands that the OCD's approval of this operator change:

1. constitutes approval of the transfer of the permit for any permitted pit, below-grade tank or closed-loop system associated with the selected wells; and
2. constitutes approval of the transfer of any below-grade tanks constructed and installed prior to June 16, 2008 associated with the selected wells, regardless of whether the transferor has disclosed the existence of those below-grade tanks to the transferee or to the OCD, and regardless of whether the below-grade tanks are in compliance with 19.15.17 NMAC.

SWD 5/14/99
744

APPLICATION FOR AUTHORIZATION TO INJECT

- I. **PURPOSE:** Secondary Recovery Pressure Maintenance XX Disposal Storage
Application qualifies for administrative approval? XX Yes No
- II. **OPERATOR:** Griffin Petroleum Company
ADDRESS: 550 W. Texas Suite 1240 Midland, TX 79701
CONTACT PARTY: Eric Griffin **PHONE:** (915) 687-104
- III. **WELL DATA:** Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project: Yes XX No
If yes, give the Division order number authorizing the project 29
- 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 or 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 sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
- * 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.
- 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:** Eric Griffin **TITLE:** Vice President
SIGNATURE: Eric Griffin **DATE:** 4-27-99
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. _____

Griffin Petroleum Company

Form C-108 Supplement
Application for Authorization to Inject
Willow Lake Com #1
Eddy County, New Mexico

III. See attached data sheets.

IV. This is not an expansion of an existing project.

V. See attached map.

VI. See attached table.

VII. Data on the proposed operation:

1. The proposed average daily injection rate is 2000 barrels of water per day.
The proposed maximum daily injection rate is 3000 barrels of water per day.
2. The injection station for the gathering and processing of water to be injected will be a closed system.
3. The proposed average injection pressure is 1100 psig.
The proposed maximum injection pressure is 1436 psig.
4. See attached water and compatibility analyses. All injection waters will be produced waters from Permian aged sandstone horizons and injected into the Lower Bone Spring, which is a Permian aged sandstone horizon. The attached compatibility analysis of the injection waters with the receiving formation waters indicate a potential scaling tendency, however, the same scaling tendency is present in the individual waters by themselves before mixing. In discussions with field personnel in this area, they indicate that no scale can be found on or in subsurface pumps when wells are pulled. If at a later date we find we have substantial excess capacity, we may open this well for commercial disposal.
5. Water injection will be into a zone not productive of oil or gas. The Pardue well 1 mile to the west produces out of an Upper Bone Spring Sand horizon 800' higher than the proposed injection interval. This water was inferred to be close in composition to the proposed injection zone waters and was analyzed as such. See attached disposal zone water analysis.

VIII. The Bone Spring formation is a primarily a fine to very fine grained sandstone, subrounded to subangular, unconsolidated to friable, with porosities up to 26%. Sandstones are separated by dolomitic siltstones and shales. This formation occurs at a depth of 7150' in the Willow Lake Com #1 well and has a gross thickness of 1900'. The Rustler formation is the fresh water aquifer in this area. The average depth to the bottom of this aquifer in this area is 93' from surface.

IX. The injection completion interval will be perforated, acidized, and fracture stimulated if needed.

- X. The well logs have been filed with the Division. The well is currently shut-in and uneconomic.
- XI. See attached water analysis statement from the Office of the State Engineer.
- XII. We have examined available geologic and engineering data and found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. A copy of the Newspaper notice run on Sunday, April 25, 1999 in the Carlsbad Current Argus and Registered Mail receipts will be forwarded to the OCD when received.

Willow Lake Com #1
Conversion to Injection
Form C-108 Section III Well Data
Part A

1. **Lease:** Willow Lake Com
Well No. 1
Location: 660' FNL & 1980' FWL, Sec 22, TWP 24S, RNG 28E, Eddy County, NM

2.

Hole Size	Casing Size	Weight	Setting Depth	Sacks of Cement	Estimated TOC	TOC Method	Comments
17-1/2"	13-3/8"	54.5#	633'	600	Surface	Circulated	
12-1/4"	9-5/8"	47#	9825'	4500	Surface	Circulated	
8-1/2"	7-5/8" Liner	33.7#	11,725'	350	9505'	Calculated	Top of liner @ 9505'
6-1/2"	5" Liner	18#	13,205'	230	11,567'	Calculated	Top of liner @ 11,598'
8-1/2"	7-5/8" Tie Back	33.7#	9505'	900	Surface	Calculated	Tie 7-5/8" to surface

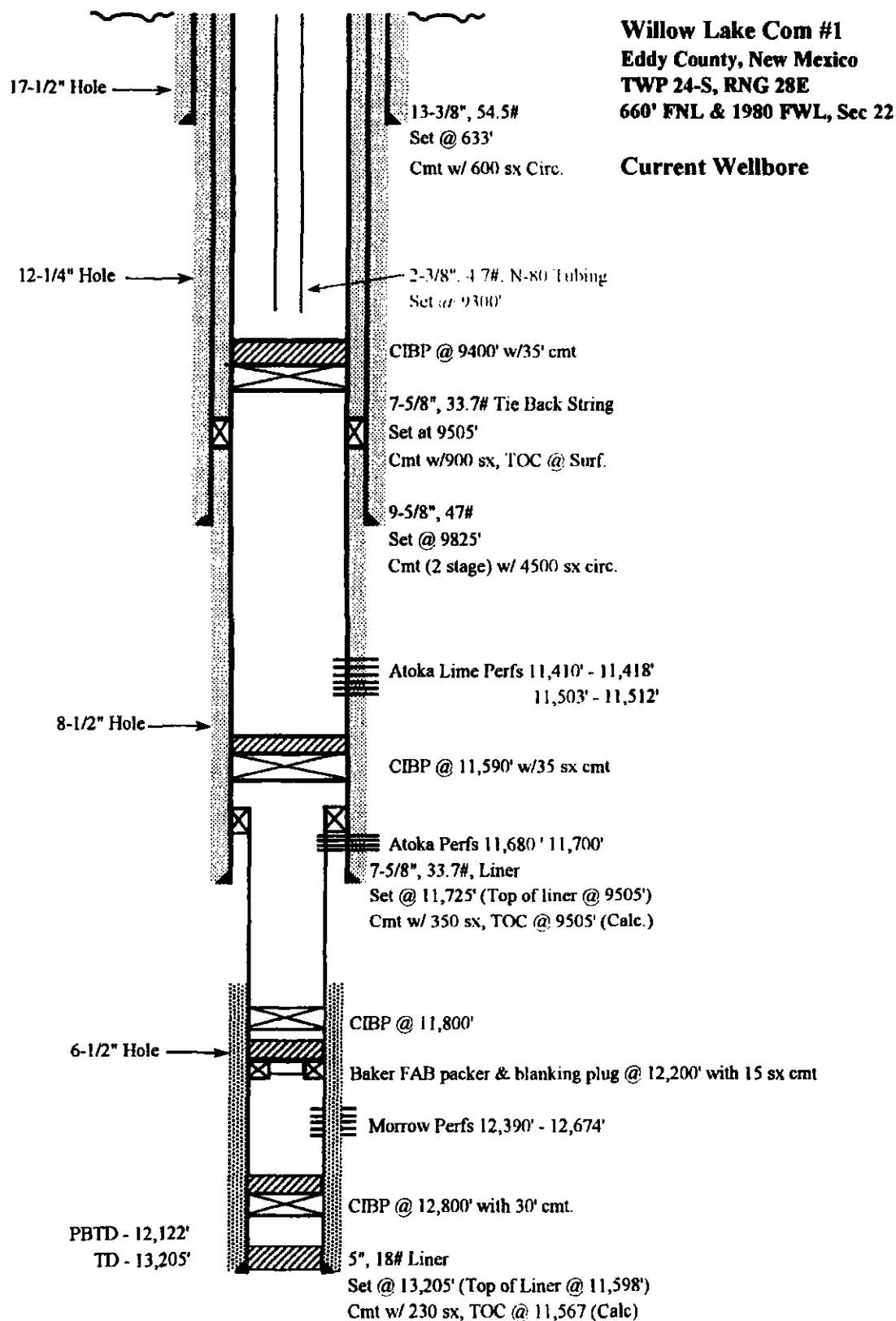
3. Injection tubing: 7140', 2-7/8", J-55, PVC Lined.
4. Injection Packer: Baker Lock-Set. Set at Approx. 7140'.

Willow Lake Com #1
Conversion to Injection
Form C-108 Section III Well Data
Part B

Other Well Information

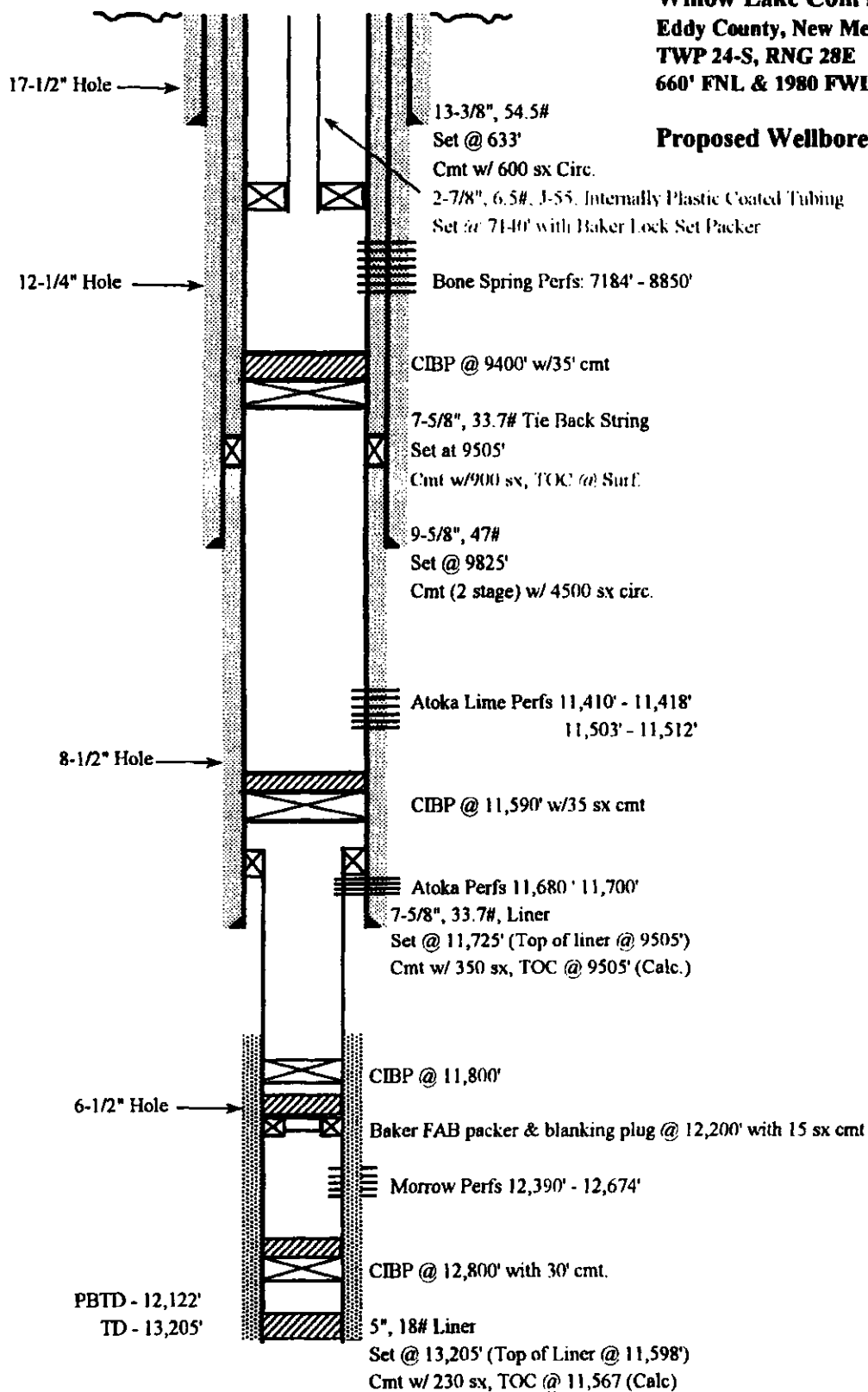
1. Injection Formation: Bone Spring
Field: Malaga, East
2. Initial Perfs: 7184' - 7192', 7198' - 7204', 7258' - 7282', 7308' - 7316'
7354' - 7380', 7524' - 7536', 7543' - 7555', 8590' - 8636'
8794' - 8800', 8805' - 8813', 8815' - 8822', 8838' - 8850'
3. The well was originally drilled as a Morrow and Atoka Gas Producer.
4. Other perforated intervals:

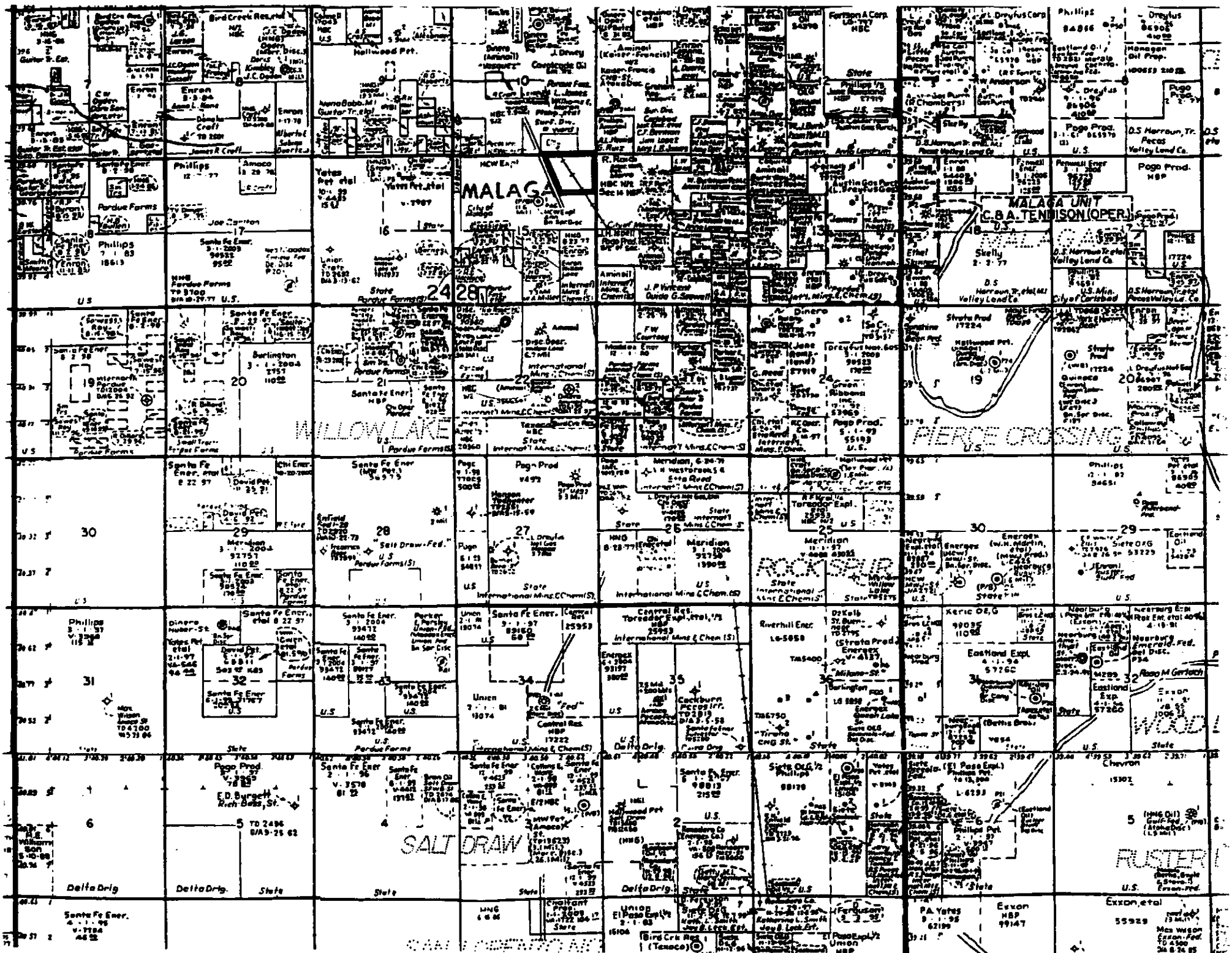
<u>Zone</u>	<u>Perfs</u>	<u>Isolation</u>
Morrow	12,390' - 12,674'	Packer w/blanking plug at 12,200' with 15 sacks cement on top.
Atoka Sand	11,680' - 11,700'	CIBP @ 11,590' with 35 sacks cement on top.
Atoka Lime	11,410' - 11,512'	CIBP @ 9400' with 35 sacks cement on top. Approved by OCD due to lower casing leaks.
5. Within this wellbore there are no upper zones commercially productive of oil & gas.
The next lower productive horizon is the Atoka Lime at 11,410', however it is uneconomic to produce.



Willow Lake Com #1
Eddy County, New Mexico
TWP 24-S, RNG 28E
660' FNL & 1980 FWL, Sec 22

Proposed Wellbore





Willow Lake Com #1
Conversion to Injection
Form C-108

Section VI - Wells Within 1/2 Mile Radius

Lease: Willow Lake 15

Well No. 1

Location: 660' FSL & 1980' FEL, Sec 15, TWP 24S, RNG 28E, Eddy County, NM

Operator: Kaiser-Francis

Well Type: Atoka Gas Producer

Date Drilled: Spud 8/20/89, Completed 10/17/89

TD/PBTD: 11,829'/11,746'

Completion: Atoka Perfs: 11,664' - 11,675'

Hole Size	Casing Size	Weight	Setting Depth	Sacks of Cement	Estimated TOC	TOC Method	Comments
17-1/2"	13-3/8"	48# & 54.5#	604'	650	Surface	Circulated	
12-1/4"	9-5/8"	36#	2492'	985	Surface	Circulated	
8-3/4"	7"	26#	10,476'	650			
6-1/8"	4-1/2" Liner		11,828'	294			Top of liner @ 10,184'

Lease: Willow Lake 15

Well No. 3

Location: 660' FSL & 1980' FEL, Sec 15, TWP 24S, RNG 28E, Eddy County, NM

Operator: Aminoil

Well Type: Atoka Gas Producer

Date Drilled: Spud 12/28/77, Completed 3/19/78

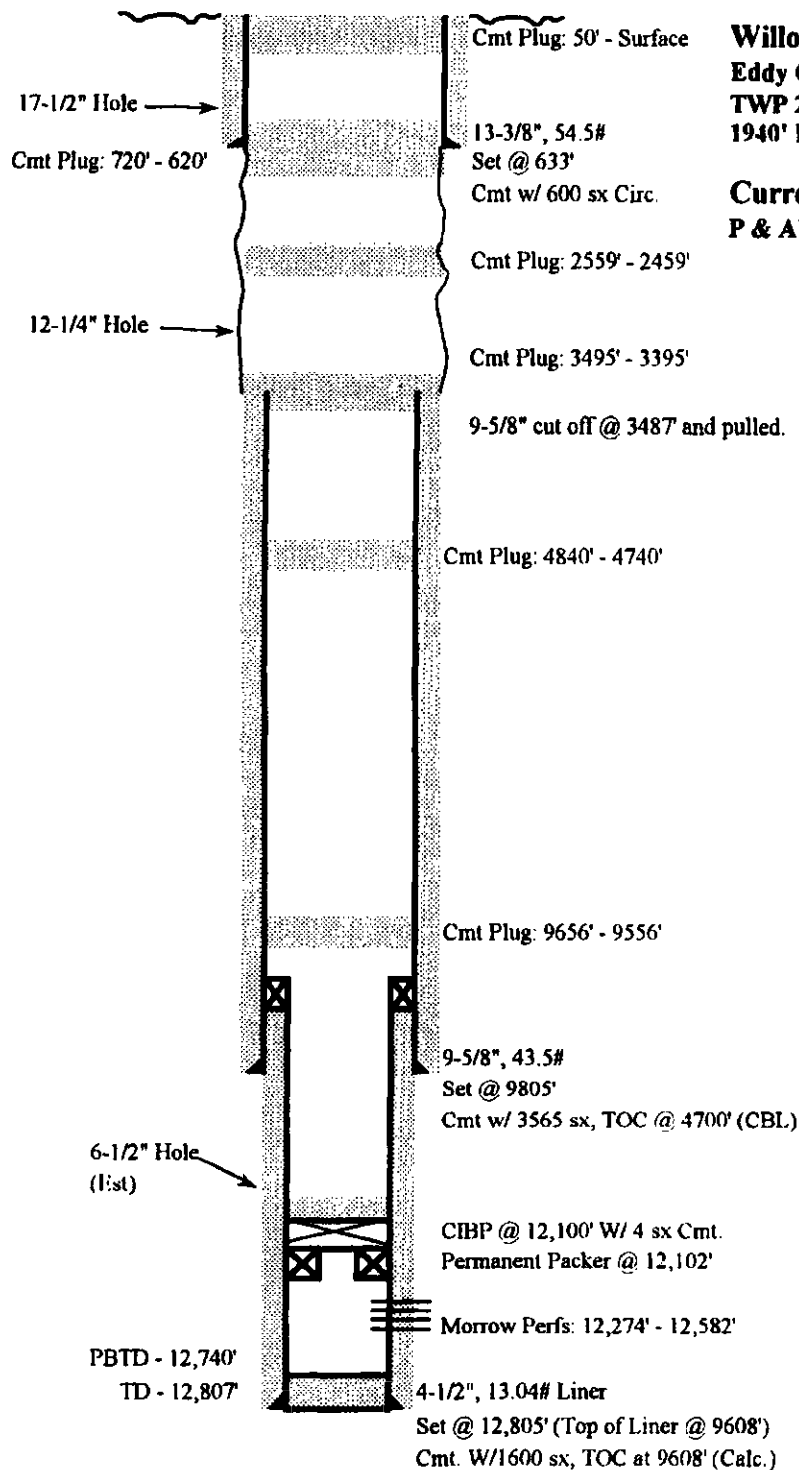
TD/PBTD: 12,805'/11,746'

Completion: Morrow Perfs: 12,274' - 12,582', Currently Plugged & Abandoned

Hole Size	Casing Size	Weight	Setting Depth	Sacks of Cement	Estimated TOC	TOC Method	Comments
17-1/2"	13-3/8"	54.5#	640'	650	Surface	Circulated	
12-1/4"	9-5/8"	43.5#	9805'	3665	2600'	Temp. Surv.	2 Stage Cmt/DV @ 4796'
6-1/2" est	4-1/2" Liner	13.04#	12,805'	1600	9608'	Calc	Top of liner @ 9,608'

Plugging Detail: CIBP @ 12,100' with 4 sx cement on top. Cut 9-5/8" casing at 3487' and pull out of hole.

Spot cement plugs from : 9656' - 9556', 4840' - 4740', 3495' - 3395', 2559' - 2459', 720' - 620', 50' - Surface.



Willow Lake 15 #3
Eddy County, New Mexico
TWP 24-S, RNG 28E
1940' FSL & 1940' FWL, Sec 15

Current Wellbore
P & A'd 11-25-81

BJ SERVICES COMPANY
WATER ANALYSIS #FW01W305
ARTESIA LAB

GENERAL INFORMATION

OPERATOR:	GRIFFIN PETROLEUM	DEPTH:	+/- 6025'
WELL:	WILLOW LAKE 2-22	DATE SAMPLED:	03/25/99
FIELD:		DATE RECEIVED:	03/25/99
SUBMITTED BY:	REX GLENN	COUNTY:	EDDY
WORKED BY:	KEITH JACKSON	STATE:	NM
PHONE NUMBER:		FORMATION:	DELEWARE

SAMPLE DESCRIPTION

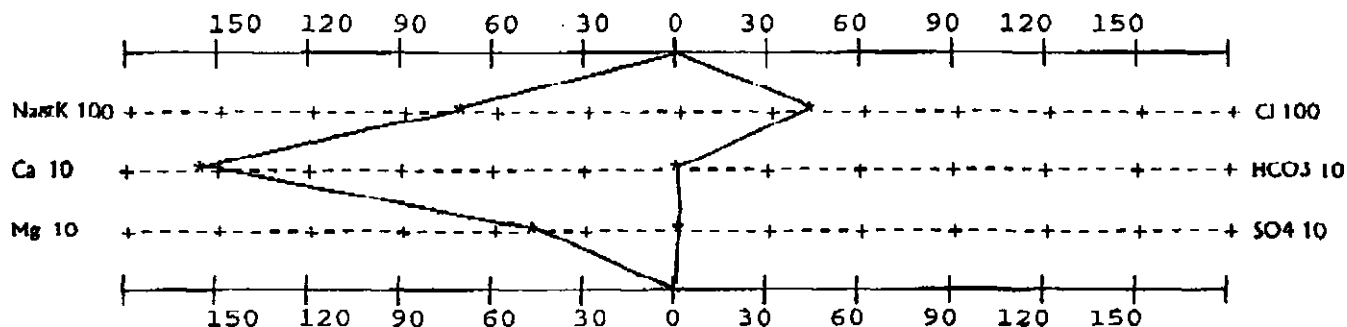
PROPOSED INJECTION WATER

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.205	@ 76°F	PH:	5.45
RESISTIVITY (CALCULATED):	0.025	ohms @ 75°F		
IRON (FE++) :	8 ppm	SULFATE:		141 ppm
CALCIUM:	30,902 ppm	TOTAL HARDNESS		102,136 ppm
MAGNESIUM:	6,050 ppm	BICARBONATE:		51 ppm
CHLORIDE:	155,152 ppm	SODIUM CHLORIDE (Calc)		255,225 ppm
SODIUM+POTASS:	72,639 ppm	TOT. DISSOLVED SOLIDS:		330,118 ppm
IODINE:		POTASSIUM K+:		1125 PPM

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



SCALING TENDENCIES

CASO4 SCALING IS PROBABLE

CACO3 SCALING IS PROBABLE

2024 RELEASE UNDER E.O. 14176

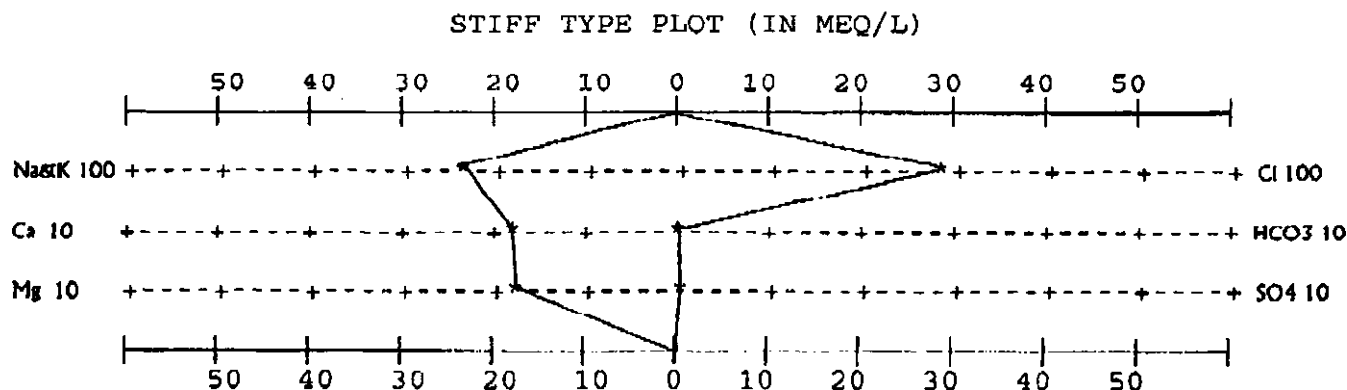
JAN 21 '99 16:05 FR BJ ARTESIA

FW01W321

BJ SERVICES COMPANY
WATER ANALYSIS #FW01W321
ARTESIA LAB

GENERAL INFORMATION			
OPERATOR:	GRIFFIN PETROLEUM	DEPTH:	
WELL:	PROPOSED INJECTION	INTERVDATE SAMPLED:	01/21/99
FIELD:		DATE RECEIVED:	01/21/99
SUBMITTED BY:		COUNTY:	EDDY STATE: NM
WORKED BY:	BRETT DEMPSEY	FORMATION:	BONE SPRINGS
PHONE NUMBER:			

SAMPLE DESCRIPTION	
Original sample taken from Chi Pardue well	
PROPOSED INJECTION WATER & DISPOSAL ZONE WATER	
PHYSICAL AND CHEMICAL DETERMINATIONS	
SPECIFIC GRAVITY: 1.125 @ 75°F RESISTIVITY (CALCULATED): 0.025 ohms @ 75°F IRON (FE++) : 500 ppm CALCIUM: 3,559 ppm MAGNESIUM: 2,160 ppm CHLORIDE: 97,756 ppm SODIUM+POTASS: 75,009 ppm IODINE:	PH: 6.27 SULFATE: 356 ppm TOTAL HARDNESS 17,788 ppm BICARBONATE: 434 ppm SODIUM CHLORIDE (Calc) 160,808 ppm TOT. DISSOLVED SOLIDS: 191,343 ppm POTASSIUM CHLORIDE:
REMARKS	



SCALING TENDENCIES	
CASO4 SCALING IS PROBABLE	CACO3 SCALING IS PROBABLE

BJ SERVICES COMPANY
WATER ANALYSIS #FW01W322
ARTESIA LAB

GENERAL INFORMATION

OPERATOR:	GRIFFIN PETROLEUM	DEPTH:	
WELL:	PROPOSED INJECTION INTERV	DATE SAMPLED:	01/21/99
FIELD:		DATE RECEIVED:	01/21/99
SUBMITTED BY:		COUNTY:	EDDY
WORKED BY:	BRETT DEMPSEY	STATE:	NM
PHONE NUMBER:		FORMATION:	BONE SPRINGS DELEWAR

SAMPLE DESCRIPTION

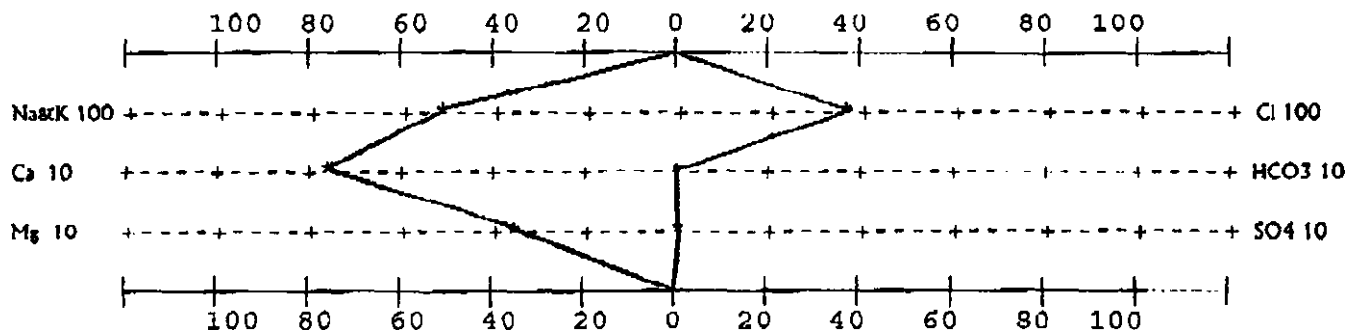
Results from mixing Pardue water with Gumby water

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.165	@ 73°F	PH:	6.16
RESISTIVITY (CALCULATED):	0.025	ohms @ 75°F		
IRON (FE++) :	325 ppm	SULFATE:		300 ppm
CALCIUM:	15,466 ppm	TOTAL HARDNESS		55,827 ppm
MAGNESIUM:	4,172 ppm	BICARBONATE:		304 ppm
CHLORIDE:	133,875 ppm	SODIUM CHLORIDE (Calc)		220,225 ppm
SODIUM+POTASS:	82,950 ppm	TOT. DISSOLVED SOLIDS:		273,257 ppm
IODINE:		POTASSIUM CHLORIDE:		

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



SCALING TENDENCIES

CASO4 SCALING IS PROBABLE

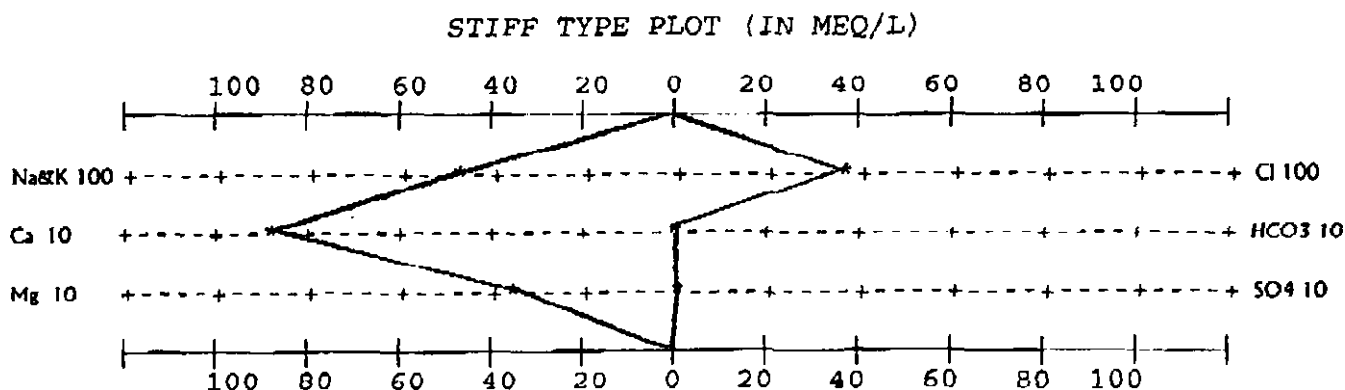
CACO3 SCALING IS PROBABLE

FW01W323

BJ SERVICES COMPANY
WATER ANALYSIS #FW01W323
ARTESIA LAB

GENERAL INFORMATION			
OPERATOR:	GRIFFIN PETROLEUM	DEPTH:	
WELL:	PROPOSED INJECTION INTERV	DATE SAMPLED:	01/21/99
FIELD:		DATE RECEIVED:	01/21/99
SUBMITTED BY:		COUNTY:	EDDY STATE: NM
WORKED BY:	BRETT DEMPSEY	FORMATION:	BONE SPRINGS AND 22-
PHONE NUMBER:			

SAMPLE DESCRIPTION	
Results from mixing Pardue water with Willow Lake 22-2 water	
PHYSICAL AND CHEMICAL DETERMINATIONS	
SPECIFIC GRAVITY:	1.165 @ 75°F PH: 5.86
RESISTIVITY (CALCULATED):	0.025 ohms @ 75°F
IRON (FE++) :	254 ppm
CALCIUM:	17,700 ppm
MAGNESIUM:	4,172 ppm
CHLORIDE:	127,439 ppm
SODIUM+POTASS:	73,783 ppm
IODINE:	
SULFATE:	245 ppm
TOTAL HARDNESS	61,410 ppm
BICARBONATE:	236 ppm
SODIUM CHLORIDE (Calc)	209,637 ppm
TOT. DISSOLVED SOLIDS:	263,113 ppm
POTASSIUM CHLORIDE:	
REMARKS	



SCALING TENDENCIES	
CASO4 SCALING IS PROBABLE	CACO3 SCALING IS PROBABLE

Office of the State Engineer

1900 W. Second St.
Roswell, NM 88201
(505) 622-6521
Fax: (505) 623-8559

FAX TRANSMISSION COVER SHEET

Date: April 21, 1999
To: Eric Griffin
Fax: 1-915-687-2504
Re: water well info
Sender: Eric C. Milstead

**YOU SHOULD RECEIVE 13 PAGE(S), INCLUDING THIS COVER SHEET. IF
YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (505) 622-6521**

The chloride information for the area of interest is:

<u>Location</u>	<u>Chloride Level</u>	<u>Date Sampled</u>
24S.28E.15.21224*	630	3/26/92
24S.28E.15.21224*	308	8/20/97
24S.28E.16.33111	1039	5/28/81
24S.28E.21.443113	785	7/13/55

*same well

I hope this information is helpful to you in your endeavors. Also, the well location system is based upon the quarter system rather than the letter system used in the oilfield. The OSE has assigned the following:

1=Northwest
2=Northeast
3=Southwest
4=Southeast

If you have any questions, please, call.

Griffin Petroleum Company

Form C-108
Application for Authorization to Inject

Mailing List

BLM
2909 W. Second Street
Roswell, NM 88201

Kaiser-Francis Oil Company
P. O. Box 21468
Tulsa, OK 74121-1468

Dinero Operating Company
P. O. Box 10505
Midland, TX 79702-7505

Chi Energy, Inc.
P. O. Box 1799
Midland, TX 79702-1799

OCD
P. O. Box 2088
Santa Fe, NM 87504-2088

OCD – District II
811 South First
Artesia, NM 88210

Wells Operators Operator Data OCD Review OCD Only Administration

OCD Permitting

Home Wells Well Details

30-015-21499 WILLOW LAKE #001 [312240]

General Well Information

Operator: [294873] PYOTE WELL SERVICE, LLC
 Status: Active
 Well Type: Salt Water Disposal Direction: Vertical
 Work Type: New Lease Type: Federal
 Surface Location: C-22-24S-28E 660 FNL 1980 FWL
 Lat/Long: 32.2089767,-104.0777435 NAD83
 GL Elevation: 3015
 Sing/Mult Compl: Single
 Potash Waiver: False

[Edit](#)

Quick Links

- [General Well Information](#)
- [History](#)
- [Comments](#)
- [Operator](#)
- [Pits](#)
- [Casing](#)
- [Well Completions](#)
- [Financial Assurance](#)
- [Compliance](#)
- [Complaints, Incidents and Spills](#)
- [Orders](#)
- [Production](#)
- [Transporters](#)
- [Points of Disposition](#)

Proposed Formation and/or Notes

Depths

Proposed: 0 Total Vertical Depth: 99999
 Measured Vertical Depth: 0 Plugback Measured: 0

Associated Images

- [Well Files](#)
- [Well Logs](#)
- [Administrative Orders](#)

New Searches

- [New Well Search](#)

Formation Tops

Formation Top Producing

Event Dates

Initial APD Approval: 10/01/1976
 Most Recent APD Approval: 03/27/2013 Current APD Expiration: 10/01/1978
 APD Cancellation:
 APD Extension Approval:
 Spud: 03/17/1975
 Approved Temporary Abandonment: TA Expiration:
 Shut In:
 Plug and Abandoned Intent Received:
 Well Plugged:
 Site Release: PNR Expiration:
 Last Inspection: 06/08/2016 Last MIT/BHT: 06/08/2016

History

Effective Date	Property	Well Number	Operator	C-101 Work Type	Well Type	Well Status	Apd Cancelled	Plug Date
03/27/2013	[312240] WILLOW LAKE	#001	[294873] PYOTE WELL SERVICE, LLC	New	Salt Water Disposal	Active		

Wells	Operators	Operator Data	OCD Review	OCD Only	Administration
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05/25/1999	[23843] WILLOW LAKE	#001	[169495] GRIFFIN PETROLEUM COMPANY	New	Salt Water Disposal	Active
08/01/1998	[23843] WILLOW LAKE	#001	[169495] GRIFFIN PETROLEUM COMPANY	New	Gas	Active
02/01/1998	[22970] WILLOW LAKE COM	#001	[160017] THUNDERBOLT PETROLEUM, LLC	New	Gas	Active
02/01/1997	[20422] WILLOW LAKE COM	#001	[6233] DISCOVERY OPERATING INC	New	Gas	Active
10/01/1976	[5479] WILLOW LAKE COM	#001	[12361] KAISER- FRANCIS OIL CO	New	Gas	Active

Department Notes**Comments**Add**Operator**

Company: [294873] PYOTE WELL SERVICE, LLC
 Address:

Country: U.S.A.
 Main Phone: 432-685-0169

Central Contact Person

Name:	Jenni Usher	Title:	Agent
Phone:	432-685-0169	Fax:	432-818-0427
Cell:	512-820-8772		
E-Mail Address:	jennimusher@gmail.com		

Hobbs Contacts

Name:	Billy Doucette	Title:	
Phone:	325-574-9215	Fax:	
Cell:	325-574-9215		
E-Mail Address:	billy_doucette@geslic.com		

Artesia Contacts

Wells Operators Operator Data OCD Review OCD Only Administration

Pits

No Pits Found

Casing[Edit](#)

			Boreholes, Strings and Equipment Specifications			Specifications for Strings and Tubing			Strings Cemented and Intervals			Cement and Plug Description		
String/Hole Type	Taper	Date Set	Diameter	Top	Bottom (Depth)	Grade	Length	Weight	Bot of Cem	Top of Cem	Meth	Class of Cement	Sacks	Pressure Test (Y/N)
Tubing 1	1		2.875	0	7135		7135	0.0	0	0			0	No
Packer	1		0.000	7135	7140		5	0.0	0	0			0	No

Well Completions[Add](#)[Edit](#)**[96095] SWD;BONE SPRING**

Status: Active **Last Produced:** 07/01/2016
Bottomhole Location: C-22-24S-28E 660 FNL 1980 FWL
Lat/Long:
Acreage:
DHC: No **Consolidation Code:**
Test **Production Method:** Flowing
Oil Volume: 0.0 bbls
Gas Volume: 0.0 mcf
Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)
	7184	8850

Notes**Event Dates**

Initial Effective/Approval: 05/25/1999
Most Recent Approval: 03/27/2013
Confidential Requested On:
Test Allowable Approval:
Production Test:
TD Reached:
Deviation Report Received: No
Directional Survey Received: No
First Oil Production:
Ready to Produce:
C-104 Approval:

TA Expiration:
Confidential Until:
Test Allowable End:
DHC:
Rig Released:
Logs Received: No
Closure Pit Plat Received:
First Gas Production:
Completion Report Received:

Wells Operators Operator Data OCD Review OCD Only Administration

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
03/27/2013	[312240] WILLOW LAKE	#001	[294873] PYOTE WELL SERVICE, LLC	Active	
01/01/2005	[301022] WILLOW LAKE	#001	[161968] MESQUITE SWD, INC	Active	
05/25/1999	[23843] WILLOW LAKE	#001	[169495] GRIFFIN PETROLEUM COMPANY	Active	

Department Notes**[87440] WILLOW LAKE;ATOKA (GAS)**[Edit](#)

Status: Zone Permanently Plugged **Last Produced:** 07/01/1992
Bottomhole Location: C-22-24S-28E 660 FNL 1980 FWL
Lat/Long:
Acreage:
DHC: No **Consolidation Code:**
Test **Production Method:** Flowing
Oil Volume: 0.0 bbls
Gas Volume: 0.0 mcf
Water Volume: 0.0 bbls

Perforations

Date	Top Measured Depth (Where Completion Enters Formation)	Bottom Measured Depth (End of Lateral)
------	---	---

Notes**Event Dates**

Initial Effective/Approval:	10/01/1976	
Most Recent Approval:	05/25/1999	TA Expiration:
Confidential Requested On:		Confidential Until:
Test Allowable Approval:		Test Allowable End:
Production Test:		DHC:
TD Reached:		Rig Released:
Deviation Report Received:	No	Logs Received: No
Directional Survey Received:	No	Closure Pit Plat Received:
First Oil Production:	12/01/1976	First Gas Production: 12/01/1976
Ready to Produce:		Completion Report Received:
C-104 Approval:		
Plug Back:		
Authorization Revoked Start:		Revoked Until:

Well Completion History

Effective Date	Property	Well Number	Operator	Completion Status	TA Expiration Date
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Wells	Operators	Operator Data	OCD Review	OCD Only	Administration
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08/01/1998	[23843] WILLOW LAKE	#001	[169495] GRIFFIN PETROLEUM COMPANY	Active	
02/01/1998	[22970] WILLOW LAKE COM	#001	[160017] THUNDERBOLT PETROLEUM, LLC	Active	
02/01/1997	[20422] WILLOW LAKE COM	#001	[6233] DISCOVERY OPERATING INC	Active	
02/23/1994	[5479] WILLOW LAKE COM	#001	[12361] KAISER-FRANCIS OIL CO	Active	
10/01/1976	[5479] WILLOW LAKE COM	#001	[12361] KAISER-FRANCIS OIL CO	Active	

Department Notes**Financial Assurance**

Bond Id	Bond Type	Amount	Issuer	Cash/Surety	Issuer Bond Number	Bond Cancellation Date
7472	Blanket	50000	U.S. SPECIALTY INSURANCE COMPANY	Surety	B007761	

Requests to release bonds must be submitted in writing. You may send an e-mail to Denise.Gallegos@state.nm.us or fax a letter to (505) 476-3453.

Compliance

Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

GEG0221228701 Date of Violations: 07/30/2002 Violations: Mechanical Integrity

Date of Violation: 07/30/2002

Compliance

Resolved:

08/19/2002

Required:

Notes

No company rep to witness, RETESTED

Notifications

Notification

Notification Date

Enforcement

07/31/2002

Corrective Actions

Corrective Action

Date

Wells Operators Operator Data OCD Review OCD Only Administration

Violation R-105.B. Workover pit requires fluid to be removed and the workover pit covered.

Notifications

Notification	Notification Date	Enforcement
	12/23/2003	

Corrective Actions

Corrective Action	Date
Approved [Compliance/Remediation] Plan	02/11/2004

MLB1413540534 Date of Violations: 05/15/2014 Violations: Pollution and Contamination

Date of Violation:	05/15/2014		
Compliance Required:		Resolved:	01/08/2016

Notes

C-141 tracking: 2RP-2305 Approved Final C-141 closure for 2RP-2305

Notifications

Notification	Notification Date	Enforcement
--------------	-------------------	-------------

Corrective Actions

Corrective Action	Date
Approved [Compliance/Remediation] Plan	01/08/2016

Complaints, Incidents and Spills

Please note that incidents that impact ground water are recorded along with "facilities" which may not be wells, so although the initial report may be recorded here as a spill, information related to the abatement plans, remediation plans and ground water impact information are not yet part of this application.

nMLB0421237667

Type Of Incident:	Release Other
Action:	Other - Specify in Notes
Notified:	Oil Conservation Division Rep

Event Dates

Incident:	01/20/2004	OCD Notified:	
Response:		Resolved:	07/30/2004

Notes

Site was remediated per OCD Rules, Regs and Guidelines. Old production pit was main point of remediation. All actions have been completed.

Spills

Wells	Operators	Operator Data	OCD Review	OCD Only	Administration
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Type Of Incident:	Produced Water Release
Action:	Referred to Environmental Inspector
Notified:	Industry Rep

Incident:	04/25/2014	OCD Notified:	04/25/2014
Response:		Resolved:	01/08/2016

2RP-2305 C-141 rec'd 5/14/14 for release on 4/25/14. Reported an estimated 800 - 1000 bbls PW released w/no fluid recovered. Cause listed as "Driver from Franco's Trucking hit a cement barrier into load line 1 & 2, busted underground lines. Driver got off looked at accident he made and left. Did not report accident to Jerry or his work. Occurred around 2:30 am. Anonymous driver called jerry at 3:45 to report mess and water all over at Willow Lake. Called OCD 4-25-14. Notified land owner as well, Scott Branson. After reviewing video, Franco's was notified as well." Area affected listed as "Scott Branson land owner will not let us clean up the land, due to he wants damages cost. And he will have his own company due the cleanup. Undecided from SB & Franco's Trucking cost of damages." Phone conversation with Jerry Burton indicates released fluid exited south side of location into adjacent property, surface owner Scott Branson.

Cause	Source	Product Spilled	Square Feet	Volume Spilled	Volume Recovered
Human Error	Other (Specify)	Produced Water	0	1000	0 BBL

Salt Water Disposal SWD-744-0

Applicant: [169495] GRIFFIN PETROLEUM COMPANY

Reviewer: BES **Contact:**

BLM Office: **Approved By:**

Issuing Office: Santa Fe

Received:	04/29/1999	
Suspended:	05/14/1999	
Ordered:	07/01/1999	Expiration:
Cancelled:		

Notes

Formation	Injection		Packer Depth	Tubing Size	Gradient	Pressure		Comments
	Top	Bottom				Injection Limit	CO2 Limit	
Pbs	7184	8850	7140	3	0	1437	0	BONE SPRING

Wells Operators Operator Data OCD Review OCD Only Administration

Processing Dates

Received:

Suspended:

Ordered: 05/15/2014

Expiration:

Cancelled: 01/08/2016

Comments

jerry@pyotewatersystems.com

Notes**Production / Injection**

Earliest Production in OCD Records: 7/1992 Last 7/2016 [Show All Production](#) [Export to Excel](#)

Production

Injection

Time Frame	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days		Water(BBLS)	Co2(MCF)	Gas(MCF)	Other	Pressure
				P/I						
1992 Cumulative	1790	4228548	2838	99		0	0	0	0	N/A
1994	0	0	0	0		0	0	0	0	N/A
1995	0	0	0	0		0	0	0	0	N/A
1996	0	0	0	0		0	0	0	0	N/A
1997	0	0	0	0		0	0	0	0	N/A
1998	0	0	0	0		0	0	0	0	N/A
1999	0	0	0	0		90021	0	0	0	N/A
2000	0	0	0	0		124944	0	0	0	N/A
2001	0	0	0	0		161562	0	0	0	N/A
2002	0	0	0	0		167651	0	0	0	N/A
2003	0	0	0	0		168503	0	0	0	N/A
2004	0	0	0	0		140839	0	0	0	N/A
2005	0	0	0	0		358136	0	0	0	N/A
2006	0	0	0	0		353976	0	0	0	N/A
2007	0	0	0	0		233158	0	0	0	N/A
2008	0	0	0	0		413372	0	0	0	N/A
2009	0	0	0	0		521738	0	0	0	N/A
2010	0	0	0	0		914726	0	0	0	N/A

	Wells	Operators	Operator Data	OCD Review	OCD Only	Administration
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2012	0	0	0	0	796897	0	0	0	N/A
------	---	---	---	---	--------	---	---	---	-----

2013	0	0	0	0	998064	0	0	0	N/A
------	---	---	---	---	--------	---	---	---	-----

2014	0	0	0	0	1059302	0	0	0	N/A
------	---	---	---	---	---------	---	---	---	-----

2015									
------	--	--	--	--	--	--	--	--	--

SWD;BONE SPRING									
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Jan	0	0	0	0	82532	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Feb	0	0	0	0	72567	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Mar	0	0	0	0	58344	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Apr	0	0	0	0	41952	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

May	0	0	0	0	58147	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Jun	0	0	0	0	66961	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Jul	0	0	0	0	80670	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Aug	0	0	0	0	82015	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Sep	0	0	0	0	71997	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Oct	0	0	0	0	82588	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Nov	0	0	0	0	74058	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Dec	0	0	0	0	63164	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Pool Total:	0	0	0	0	834995	0	0	0	N/A
-------------	---	---	---	---	--------	---	---	---	-----

Annual Total:	0	0	0	0	834995	0	0	0	N/A
---------------	---	---	---	---	--------	---	---	---	-----

2016									
------	--	--	--	--	--	--	--	--	--

SWD;BONE SPRING									
-----------------	--	--	--	--	--	--	--	--	--

Jan	0	0	0	0	55543	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Feb	0	0	0	0	58835	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Mar	0	0	0	0	53885	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Apr	0	0	0	0	55530	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

May	0	0	0	0	46838	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Jun	0	0	0	0	39667	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

Jul	0	0	0	0	37988	0	0	0	0
-----	---	---	---	---	-------	---	---	---	---

	Wells	Operators	Operator Data	OCD Review	OCD Only	Administration
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Annual Total:	0	0	0	0	348286	0	0	0	N/A
---------------	---	---	---	---	--------	---	---	---	-----

Grand Total:	1790	4228548	2838	99	8765080	0	0	0	N/A
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Reclamation Fund Activity

Plugging Under Reclamation Fund:

[Edit](#)

Contractor:

Contract Issued Date:

Cost of Plugging:

Additional Shared

Costs:

Total Costs:

Site Release Under Reclamation Fund:

Contractor:

Contract Issued Date:

Cost of Site Release:

Additional Shared

Costs:

Total Costs:

Transporters

Transporter	Product	Most Recent for Property
[23857] UNKNOWN	Oil	6/2015
[215019] DOT OIL ENTERPRISES, LTD	Oil	10/2015
[243484] TRANSOIL MARKETING, INC.	Oil	2/2015
[251346] DORADO TRANSPORTATION, LLC	Oil	7/2016

Points of Disposition

ID	Type	Description	Pool(s)
2826253	Oil	WILLOW LAKE SWD	[96095] SWD;BONE SPRING
1115850	Water		[87440] WILLOW LAKE;ATOKA (GAS)

Wells Operators Operator Data OCD Review OCD Only Administration

Griffin Petroleum Company

MAY - 4 1999

May 3, 1999

Ben Stone
Oil Conservation Division
Engineering Bureau
2040 S. Pacheco
Santa Fe, NM 87505

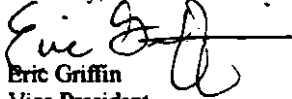
Re: Willow Lake Com #1
Eddy County, NM
T 24S, R 28E, Sec 22
Form C-108 - Application for Injection

Dear Mr. Stone.

Enclosed please find a copy of the newspaper notification of Griffin Petroleum Company's application for injection. As you can see, this notification was run in the *Carlsbad Current Argus* on Sunday, April 25, 1999. Also find enclosed copies of the Certified Mail receipts showing that the application has been furnished to and received by the offsetting leasehold operators and the surface owner. Griffin Petroleum Company respectfully requests that when the proper time has passed to allow for objections, that our application for injection be expeditiously handled.

If you need any other information, please contact Eric Griffin at the letterhead telephone number or address.

Sincerely,


Eric Griffin
Vice President

EDG/

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- ☐ Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
☐ Print your name and address on the reverse of this form so that we can return this card to you.
☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
☐ Write "Return Receipt Requested" on the mailpiece below the article number.
☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to:

RECEIVED
APR 29 1999
DALLAS, TX 75202-1799

4a. Article Number

2-445-242-124

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

PS Form 3811, December 1994

102595-99-8-0223

Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- ☐ Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
☐ Print your name and address on the reverse of this form so that we can return this card to you.
☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
☐ Write "Return Receipt Requested" on the mailpiece below the article number.
☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to:

RECEIVED
APR 29 1999
BUREAU OF LAND MANAGEMENT
2909 N SECOND ST
ROSWELL, NM 88201

4a. Article Number

2-445-242-121

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

PS Form 3811, December 1994

102595-99-8-0223

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☐ Write "Return Receipt Requested" on the mailpiece below the article number.
☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to:

RECEIVED
APR 29 1999
OIL CONSERVATION DIVISION
811 SOUTH FIRST
ARTESIA, NM 88210

4a. Article Number

2-445-242-125

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

8. Addressee's Address (Only if requested and fee is paid)

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

PS Form 3811, December 1994

102595-99-8-0223

Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

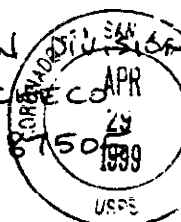
- ☐ Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
☐ Print your name and address on the reverse of this form so that we can return this card to you.
☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
☐ Write "Return Receipt Requested" on the mailpiece below the article number.
☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to:

OIL CONSERVATION
2040
311 SOUTH PACIFIC CO
SANTA FE, NM 87501



4a. Article Number

2-445-242-126

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

4/29/99

5. Received By: (Print Name)

6. Signature

[Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-99-B-0223 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- ☐ Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
☐ Print your name and address on the reverse of this form so that we can return this card to you.
☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
☐ Write "Return Receipt Requested" on the mailpiece below the article number.
☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to:

KAISER - FRANCIS OIL CO.
P.O. BOX 21468
TULSA, OK 74121-1468

4a. Article Number

2-445-242-722

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

APR 29 1999

5. Received By: (Print Name)

6. Signature (Addressee or Agent)

[Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-99-B-0223 Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- ☐ Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b.
☐ Print your name and address on the reverse of this form so that we can return this card to you.
☐ Attach this form to the front of the mailpiece, or on the back if space does not permit.
☐ Write "Return Receipt Requested" on the mailpiece below the article number.
☐ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

3. Article Addressed to:

DINERO ENTERPRISE CO.
P.O. BOX 10505
MIDLAND, TX 79703-7505

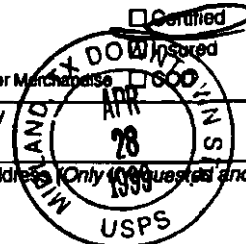
4a. Article Number

2-445-242-123

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery



5. Received By: (Print Name)

6. Signature (Addressee or Agent)

[Signature]

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-99-B-0223 Domestic Return Receipt

Prowess

From Page 1A

simply collapse.

The two champion teams from Carlsbad hail from Carlsbad High School and P.R. Leyva Middle School.

The Leyva team consists of eighth-graders A.J. Sepich, Shaelyn Burnett and Barry Duggan seventh-graders John Kearney and Missy Currier, and sixth-graders David Livingstone and Brian Christopherson. This team also won a special award for their level of creativity. In the end, their structure weighed only 11.4 grams and held 390.2 pounds.

The CHS team, known as "CHS Blue," is made up of Lisa Kearney and Alisa Priestley. Their structure held over 20,000 times its own weight.

A third team, "CHS Silver," placed second, finishing with more style points than any other team.

"All the students did so well. They did a great job representing Carlsbad," Christopherson said.

He added special praise for CHS Blue, who lost three of its five members at the last minute due to academic ineligibility and lack of interest.

"Lisa and Alisa decided not to quit. They wrote their songs and built everything on the bus ride up to Albuquerque," Christopherson said. "The



Lisa Kearney and Alisa Priestley, members of the Carlsbad High School team "CHS Blue," work on their hole-in-one tower at a recent tiddlywits of the Mind competition in Albuquerque. The team won first place honors.

judges loved their never-die spirit."

Eva Livingstone, mother of Leyva's David Livingstone, said she loves how Odyssey of the Mind can make high-level learning fun.

"The kids learn a technical sense of problem solving by mixing team work and creativity."

Students do all the work. I just think it's a great program," Livingstone said.

Her son, David, agreed.

"I've learned so much about architecture. It's fun, too, working with other kids and meeting so many new people," the younger Livingstone said.

NATO

From Page 1A

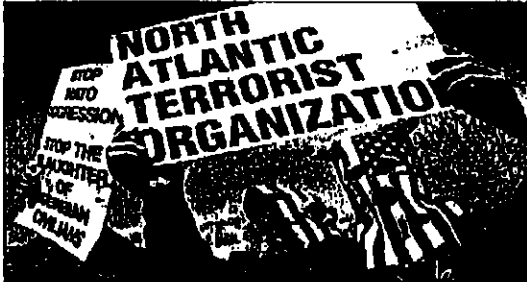
But Russia, angry about 32 days of airstrikes against Yugoslavia, indicated it would ignore an embargo. "According to international law, sanctions cannot be imposed unless they are approved by the (U.N.) Security Council," Russian Foreign Minister Igor Ivanov said on a trip to Egypt. "We will continue delivering oil in keeping with our international commitments." Russia and Libya are Yugoslavia's key oil suppliers.

And in Moscow, former Prime Minister Viktor Chernomyrdin said the world "may slip toward a third world war, the final war" as a result of NATO's bombing. Chernomyrdin, Russia's mediator on Kosovo, also said he had received invitations from the leaders of several NATO countries to discuss his recent efforts to end the crisis.

Concerns about stopping ships also were heard at the summit. "According to international rules, it is an act of war" to stop and forcibly search ships on the sea, French President Jacques Chirac said. "So we must be very cautious." He said France supports NATO's determination to prevent any material useful to Yugoslav military forces from reaching them and he urged all democratic nations to support the embargo.

Clinton defended the idea of searching, saying it was unreasonable to ask pilots to risk their lives attacking oil depots when Milosevic could get fuel from ships. Clinton said he did not expect that sea searches would lead to violence "but we have to be firm about it" and "take every reasonable means" to ensure the success of any embargo.

NATO Secretary-General Javier Solana said the alliance would do "whatever is in our power and our capabilities" to enforce such an embargo. He said he hoped it would not be necessary to challenge Russian ships. Solana would not state a legal basis for intercepting ships at sea, but he told



Anti-NATO demonstrators protest in Lafayette Park, just north of the White House. Security in Washington at world leaders met blocks away as part of NATO's 50th anniversary celebration.

In the Mellon auditorium where, 50 years ago, President Truman led allies in signing NATO's founding treaty, pledging a one-for-all, all-for-one common defense.

The summit expanded beyond the 19 NATO countries to include leaders of 23 nations in a partnership with the alliance. They all were invited to the White House for dinner

under a huge tent on the South Lawn.

Despite objections from Russia to NATO expansion, the leaders agreed to leave the door open to more new members.

The alliance expanded to 19 countries this year with the inclusion of former Russian satellites Poland, Hungary and the Czech Republic.

Proposed Injection Well Notification

Griffin Petroleum Company (GPC) is applying for an injection permit to convert the Willow Lake #1 well to injection. This well is located 660 feet from the North Line and 1980 feet from the West Line of Section 22, TWP 24-S, RNG 28E, Eddy County, New Mexico. This injection well will be used for salt water disposal in the Bone Spring formation at a depth of 7150'. Expected maximum rates and pressures are 2000 barrels of water per day and 1436 psig respectively. GPC's address is 550 W. Texas St. 1240, Midland, TX 79701. Contact Eric Griffin at GPC (915) 687-1042 with any questions. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87504. 2088 within 15 days.

Ross Hyden SUPERSTORE

Established in 1960...It's About Commitment!
Where you get the best prices, service and selection...

**Cool Deals on a Hot Set of Wheels
Cars that Make Sense and Fun to Drive
We have one for you**

1999 PONTIAC SUNFIRE SE COUPEW/SPECIAL SUN & S

Stock #	Manufacturer Suggested Retail Price	Factory Rebate	Final Price
P9134	\$16,185 Less	\$425	\$15,760 Less
P9135	\$16,395 Less	\$425	\$15,970 Less
P9136	\$16,185 Less	\$425	\$15,760 Less
P9137	\$16,185 Less	\$425	\$15,760 Less
P9138	\$16,185 Less	\$425	\$15,760 Less
P9139	\$16,395 Less	\$425	\$15,970 Less

1999 PONTIAC SUNFIRE SEDAN

Stock #	Manufacturer Suggested Retail Price	Factory Rebate	Final Price
P9131	\$16,590 Less	\$1,500	\$15,090 Less
P9132	\$16,590 Less	\$1,500	\$15,090 Less

2000 MODEL YEAR DODGE PLYMOUTH

Stock #	Manufacturer Suggested Retail Price	Factory Rebate	Final Price
D0103	\$16,475 Less	\$875	\$15,600 Less
PL0100	\$16,475 Less	\$875	\$15,600 Less
U0101	\$16,765 Less	\$1,025	\$15,740 Less
PL0101	\$16,765 Less	\$1,025	\$15,740 Less
D0100	\$12,890 Less	0	\$12,890 Less

1999 Model Clearance

Have you been looking for a new car for a while? Now about a new car for 1999. We've got 7 new 1999 models. After all, why not start out with a car that's new? You've just found it.

COME INTO ROSS HYDEN SUPERSTORE

Stock #	Manufacturer Suggested Retail Price	Factory Rebate	Final Price
PL9106	\$15,020 Less	\$1,500	\$13,520 Less
PL9117	\$13,990 Less	\$1,500	\$12,490 Less
D9306	\$14,720 Less	\$1,500	\$13,220 Less
D9252	\$14,120 Less	\$1,500	\$12,620 Less
D9307	\$15,210 Less	\$1,500	\$13,710 Less
D9241	\$15,695 Less	\$1,500	\$14,195 Less
D9249	\$13,999 Less	\$1,500	\$12,499 Less

OR
Take Advantage of Factory Interest of 1.9%* for up to 60 months.
THAT'S LESS THAN TWO PERCENT IN!
0 DOWN - THAT'S NO MONEY DOWN
Not Even Your Sales Tax or License & Doc Fee.
Absolutely \$0 Down and 45 Days Until First P.

PL9106 - '236" mo.	D9252 - '255" mo.	D9241
PL9119 - '252" mo.	D9307 - '275" mo.	D9249
D9306 - '259" mo.		

MORE

1999 MODEL CLEARANCE BARGAINS
Plymouth: Breeze Expresso, Dodge Stratus, Chrysler

Stock #	Manufacturer Suggested Retail Price	Factory Rebate	Final Price
PL9116	\$17,915 Less	\$1,500	\$16,415 Less
PL9117	\$18,015 Less	\$1,500	\$16,515 Less
D9223	\$17,705 Less	\$1,500	\$16,205 Less
CH9118	\$21,935 Less	\$1,500	\$20,435 Less
CM9123	\$21,935 Less	\$1,500	\$20,435 Less

OR
Take Advantage of Factory Interest of 1.9%* for up to 60 months.
THAT'S LESS THAN TWO PERCENT IN!
0 DOWN - THAT'S NO MONEY DOWN
Not Even Your Sales Tax or License & Doc Fee.
Absolutely \$0 Down and 45 Days Until First P.

PL9116 - '322" mo.	PL9117 - '326" mo.	D9223 - '320" mo.	CH9118 - '306
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AND MORE

Stock #	Manufacturer Suggested Retail Price	Factory Rebate	Final Price
D9213 Dodge Intrepid	\$21,925 Less	\$1,500	\$20,425 Less
CH9114 Chrysler 300M	\$21,440 Less	\$1,500	\$19,940 Less
CH9116A Chrysler Sebring X1	\$22,540 Less	\$1,500	\$21,040 Less

Z 445 242 124

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
CHI ENERGY	
Street & Number	
P.O. BOX 1799	
Post Office, State, & ZIP Code	
MIDLAND TX 79703-1799	
Postage	\$ 99
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.64
Postmark or Date	APR 1995

PS Form 3800, April 1995

Z 445 242 125

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
OIL CONSERVATION DIVISION	
Street & Number	
811 SOUTH FIRST	
Post Office, State, & ZIP Code	
ARTESIA, NM 88210	
Postage	\$ 99
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.64
Postmark or Date	APR 1995

PS Form 3800, April 1995

Z 445 242 122

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
KASER-FRANCIS OIL CO.	
Street & Number	
P.O. BOX 21468	
Post Office, State, & ZIP Code	
TULSA, OK 74121-1468	
Postage	\$ 99
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.64
Postmark or Date	APR 1995

PS Form 3800, April 1995

Z 445 242 126

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
OIL CONSERVATION DIVISION	
Street & Number	
2409 SOUTH PACHECO	
Post Office, State, & ZIP Code	
SANTA FE, NM 87505	
Postage	\$ 99
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.64
Postmark or Date	APR 1995

PS Form 3800, April 1995

Z 445 242 123

US Postal Service

Receipt for Certified Mail

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Do not use for International Mail (See reverse)

Sent to	
DINERO OPERATING COMPANY	
Street & Number	
P.O. BOX 10505	
Post Office, State, & ZIP Code	
MIDLAND TX 79703-1505	
Postage	\$ 99
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
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Postmark or Date	APR 1995

PS Form 3800, April 1995

Z 445 242 121

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Sent to	
BUREAU OF LAND MANAGEMENT	
Street & Number	
2909 W. SECOND ST.	
Post Office, State, & ZIP Code	
ROSWELL, NM 88201	
Postage	\$ 99
Certified Fee	1.40
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.25
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.64
Postmark or Date	APR 1995

PS Form 3800, April 1995