

11/7/97 - 11/24/97 - B5 - ~~WFX~~ M/ - WFX

ABOVE THIS LINE FOR DIVISION USE ONLY

# NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

## ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

**Application Acronyms:**

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
- [DD-Directional Drilling] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

**[1] TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [A] Location - Spacing Unit - Directional Drilling
- NSL  NSP  DD  SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
- DHC  CTB  PLC  PC  OLS  OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
- WFX  PMX  SWD  IPI  EOR  PPR

**[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or  Does Not Apply**

- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

**[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding**

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

E. L. Buttross, Jr.  
Print or Type Name

*E. L. Buttross Jr.*  
Signature

District Engineer  
Title

11/6/97  
Date

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  Yes  No
- II. OPERATOR: Devon Energy Corporation (Nevada)  
ADDRESS: 20 N. Broadway, Suite 1500, Oklahoma City, OK 73102  
CONTACT PARTY: E. L. Buttross, Jr. PHONE: (405) 552-4509
- 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  No  
If yes, give the Division order number authorizing the project WFX-664
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such 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: E. L. Buttross, Jr. TITLE: District Engineer  
SIGNATURE: E. L. Buttross Jr. DATE: 11/6/97
- \* 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. \_\_\_\_\_

**III. WELL DATA**

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

- (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

**XIV. PROOF OF NOTICE**

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

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

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

# DEVON ENERGY CORPORATION

## APPLICATION FOR AUTHORITY TO INJECT

### III Proposed Water Injection Well Data:

#### A.

1. East Shugart Unit #75  
990' FNL & 330' FEL  
Sec. 35-18S-31E  
Eddy County, NM
2. Surface Casing: 8 5/8" 24#, set @ 950' and cemented to surface.  
Production Casing: 5 1/2" 15.5#, set @ 4100' and cemented to surface.

**(Also see proposed wellbore schematic)**

3. Tubing: 2 3/8" plastic coated, set @ +/- 3475'.
4. Packer: 5 1/2" x 2 3/8" nickel plated J-lok pkr, set @ +/- 3475'.

#### B.

1. Injection formation: Queen sands in the Shugart field (Y-SR-Q-G).
2. Injection interval: +/- 3550' to +/- 3950'
3. Original purpose of well: Injection
4. Other perfs: None
5. Depths & names of higher and lower oil or gas zones: The top of the Queen formation is approximately 3400'. There are no known upper or lower oil formations.

### VII Proposed Operation Data:

- (1) Average daily injection rates - 500 - 700 BWPD  
Maximum daily injection rates - 700 BWPD
- (2) Type of injection system - closed system
- (3) Average injection pressure - 1350 psig  
Maximum injection pressures - 1800 psig
- (4) Injection water will be produced water from the East Shugart lease. Some additional water may come from offset leases and from the Double Eagle water system.
- (5) Injection is not for disposal purposes.

## East Shugart Unit #75 con't

### VIII Geological Data:

Geological Name: Queen formation

Lithological Detail: Sand & dolomite

Formation Top: +/- 3400'

Thickness: +/- 400'

Geological Data of Drinking Water Zone: No fresh water zones exist.

### IX Stimulation Program:

The proposed injection interval will be acidized with 15% NEFE acid prior to initial injection.

### X Well Logs:

Copies of well logs will be filed with Oil Conservation Division.

### XI Chemical Analysis of Fresh Water:

There are no known producing fresh water wells within one mile of a proposed injection well.

### XII Affirmative Statement of Open Faults:

Upon examination of the available geologic and engineering data, no evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered in the East Shugart Unit.

### XIII "Proof of Notice" and "Proof of Publication":

The Bureau of Land Management is the surface owner. They have been notified of our application by certified letter with a copy of this application attached. Proof of notice to follow.

Offset operators in the "area of review" are as follows:

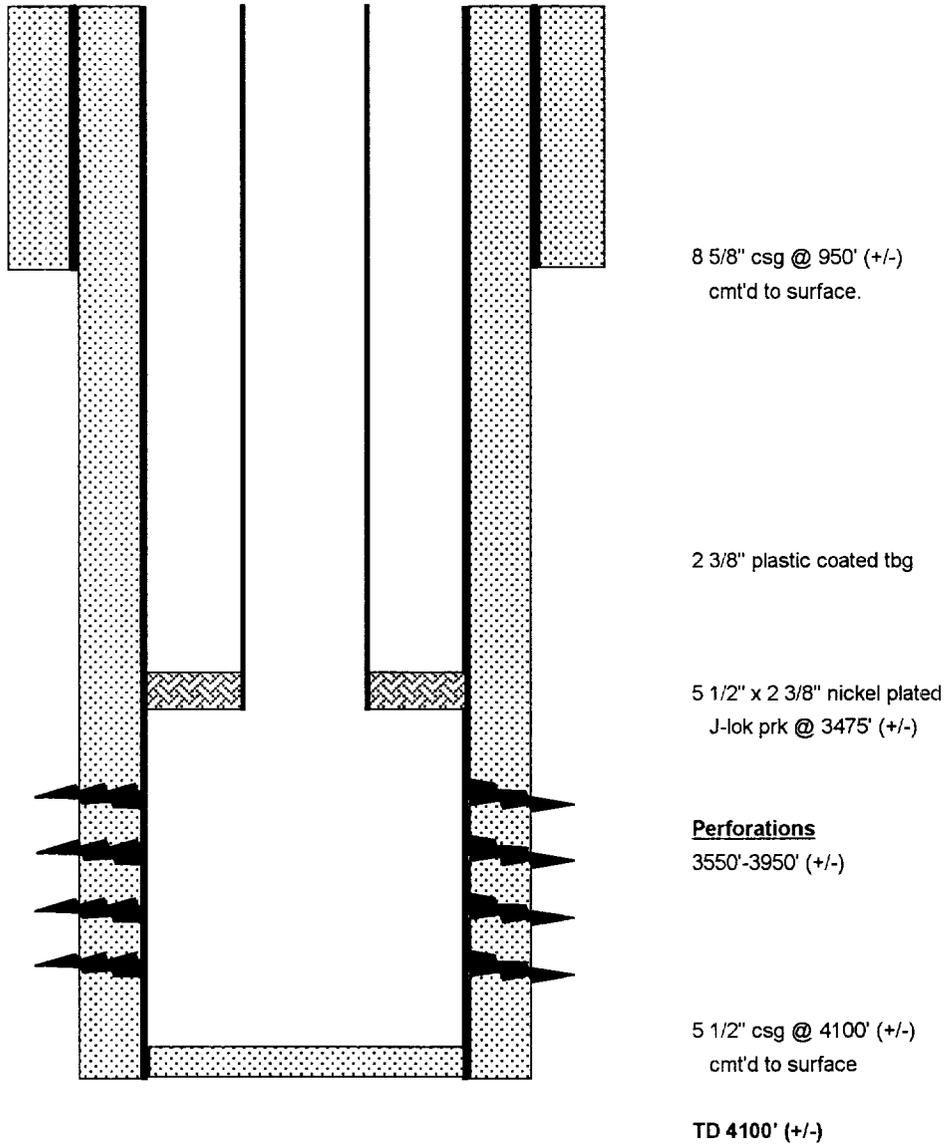
Operator	Well Name	Unit Letter	Location S-T-R
Nuroc Energy Inc.	McFadden Federal #'s 1-8	A & H	3-19S-31E
Headington Oil	Federal 26 #1	O	26-18S-31E
Tom Boyd Drilling	State 36 #1	D	36-18S-31E
Ray Westall	State #1	C	2-19S-31E
	Hinkle B Federal #11	P	26-18S-31E
	Hinkle B Federal #13	I	26-18S-31E
Keohane & Westall	State "2" #1	D	2-19S-31E
Central Resources	NM CK State NCT-1 #1	E	36-18S-31E

Each of the offset operators was provided a copy of the application by certified mail. Proof of notice to follow.

"Proof of Publication" from the Carlsbad Current-Argus is attached.

## DEVON ENERGY CORPORATION PROPOSED WELLBORE SCHEMATIC

WELL NAME: East Shugart Unit #75			FIELD: Shugart (Y-SR-Q-G)			
LOCATION: 990' FNL & 330' FEL, Sec. 35-18S-31E			COUNTY: Eddy County		STATE: NM	
ELEVATION: 3630' GR			SPUD DATE:		COMP DATE:	
API #:		PREPARED BY: Karen Byers			DATE: 10/14/97	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	950' (+/-)	8 5/8"	24#	J-55		12 1/4"
CASING:	4100' (+/-)	5 1/2"	15.5#	J-55		7 7/8"
CASING:						
TUBING:	3475' (+/-)	2 3/8"				
TUBING:						





**DEVON ENERGY CORPORATION**  
**APPLICATION FOR AUTHORITY TO INJECT**

**III Proposed Water Injection Well Data:**

**A.**

1. East Shugart Unit #83  
1100' FSL & 170' FEL  
Sec. 34-18S-31E  
Eddy County, NM
2. Surface Casing: 8 5/8" 24#, set @ 950' and cemented to surface.  
Production Casing: 5 1/2" 15.5#, set @ 4100' and cemented to surface.

**(Also see proposed wellbore schematic)**

3. Tubing: 2 3/8" plastic coated, set @ +/- 3225'.
4. Packer: 5 1/2" x 2 3/8" nickel plated J-lok pkr, set @ +/- 3225'.

**B.**

1. Injection formation: Queen sands in the Shugart field (Y-SR-Q-G).
2. Injection interval: +/- 3300' to +/- 3900'
3. Original purpose of well: Injection
4. Other perfs: None
5. Depths & names of higher and lower oil or gas zones: The top of the Queen formation is approximately 3300'. There are no known upper or lower oil formations.

**VII Proposed Operation Data:**

- (1) Average daily injection rates - 500 - 700 BWPD  
Maximum daily injection rates - 700 BWPD
- (2) Type of injection system - closed system
- (3) Average injection pressure - 1350 psig  
Maximum injection pressures - 1800 psig
- (4) Injection water will be produced water from the East Shugart lease. Some additional water may come from offset leases and from the Double Eagle water system.
- (5) Injection is not for disposal purposes.

## East Shugart Unit #83 con't

### VIII Geological Data:

Geological Name: Queen formation

Lithological Detail: Sand & dolomite

Formation Top: +/- 3392'

Thickness: +/- 600'

Geological Data of Drinking Water Zone: No fresh water zones exist.

### IX Stimulation Program:

The proposed injection interval will be acidized with 15% NEFE acid prior to initial injection.

### X Well Logs:

Copies of well logs will be filed with Oil Conservation Division.

### XI Chemical Analysis of Fresh Water:

There are no known producing fresh water wells within one mile of a proposed injection well.

### XII Affirmative Statement of Open Faults:

Upon examination of the available geologic and engineering data, no evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered in the East Shugart Unit.

### XIII "Proof of Notice" and "Proof of Publication":

The Bureau of Land Management is the surface owner. They have been notified of our application by certified letter with a copy of this application attached. Proof of notice to follow.

Offset operators in the "area of review" are as follows:

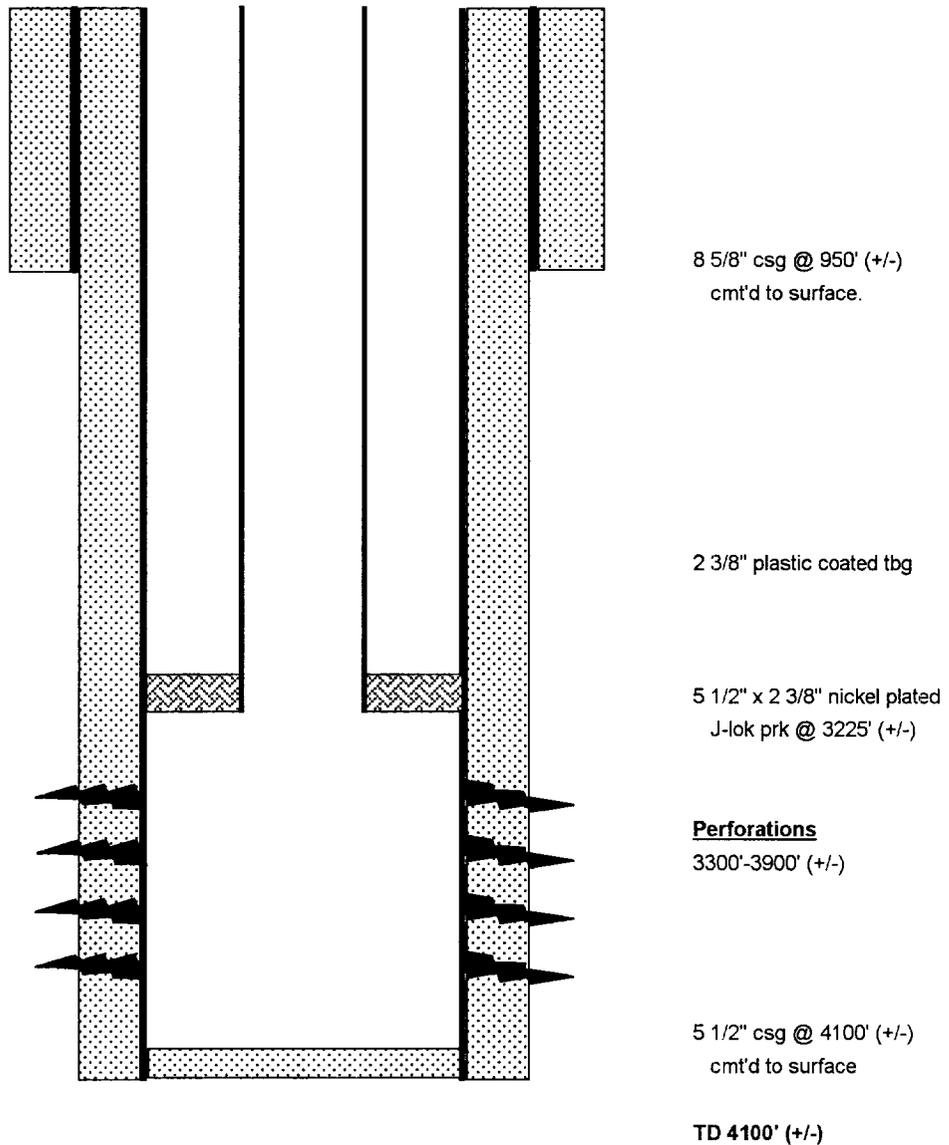
Operator	Well Name	Unit Letter	Location S-T-R
Nuroc Energy Inc.	McFadden Federal #'s 1-8	A & H	3-19S-31E
Headington Oil	Federal 26 #1	O	26-18S-31E
Tom Boyd Drilling	State 36 #1	D	36-18S-31E
Ray Westall	State #1	C	2-19S-31E
	Hinkle B Federal #11	P	26-18S-31E
	Hinkle B Federal #13	I	26-18S-31E
Keohane & Westall	State "2" #1	D	2-19S-31E
Central Resources	NM CK State NCT-1 #1	E	36-18S-31E

Each of the offset operators was provided a copy of the application by certified mail. Proof of notice to follow.

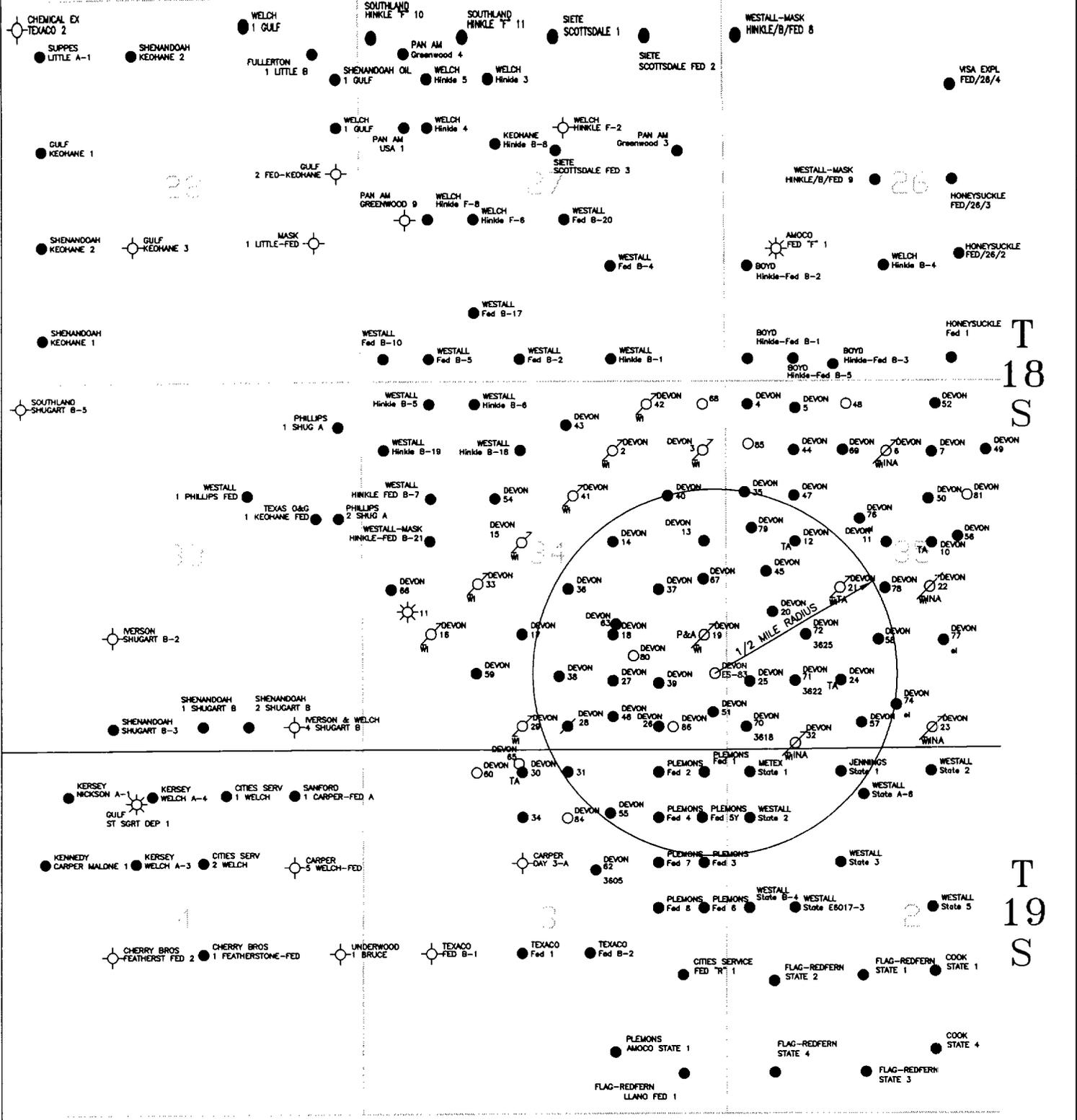
"Proof of Publication" from the Carlsbad Current-Argus is attached.

## DEVON ENERGY CORPORATION PROPOSED WELLBORE SCHEMATIC

WELL NAME: East Shugart Unit #83			FIELD: Shugart (Y-SR-Q-G)			
LOCATION: 1100' FSL & 170' FEL, Sec. 34-18S-31E			COUNTY: Eddy County		STATE: NM	
ELEVATION: 3619' GR			SPUD DATE:		COMP DATE:	
API #:		PREPARED BY: Karen Byers			DATE: 10/14/97	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	950' (+/-)	8 5/8"	24#	J-55		12 1/4"
CASING:	4100' (+/-)	5 1/2"	15.5#	J-55		7 7/8"
CASING:						
TUBING:	3225' (+/-)	2 3/8"				
TUBING:						



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**devon**  
ENERGY CORPORATION

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**EAST SHUGART UNIT**  
EDDY COUNTY, NEW MEXICO

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ESU #83

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Scale in Feet  
1000 0 1000 2000 3000 4000

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E. BUTTROSS 9/97

**DEVON ENERGY CORPORATION**  
**APPLICATION FOR AUTHORITY TO INJECT**

**III**     **Proposed Water Injection Well Data:**

**A.**

1. East Shugart Unit #86  
330' FSL & 780' FEL  
Sec. 34-18S-31E  
Eddy County, NM
2. Surface Casing: 8 5/8" 24#, set @ 950' & cemented to surface.  
Production Casing: 5 1/2" 15.5#, set @ 4100' & cemented to surface.

**(Also see proposed wellbore schematic)**

3. Tubing: 2 3/8" plastic coated, set @ +/- 3225'.
4. Packer: 5 1/2" x 2 3/8" nickel plated J-Lok pkr, set @ +/- 3225'.

**B.**

1. Injection formation: Queen sands in the Shugart field (Y-SR-Q-G).
2. Injection interval: +/- 3300' to +/- 3850'
3. Original purpose of well: Injection
4. Other perfs: None
5. Depths & names of higher and lower oil or gas zones: The top of the Queen formation is approximately 3300'. There are no known upper or lower oil formations.

**VII**     **Proposed Operation Data:**

- (1) Average daily injection rates - 500 - 700 BWPD  
Maximum daily injection rates - 700 BWPD
- (2) Type of injection system - closed system
- (3) Average injection pressure - 1350 psig  
Maximum injection pressures - 1800 psig
- (4) Injection water will be produced water from the East Shugart lease. Some additional water may come from offset leases and from the Double Eagle water system.
- (5) Injection is not for disposal purposes.

## East Shugart Unit #86 con't

### VIII Geological Data:

Geological Name: Queen formation

Lithological Detail: Sand & dolomite

Formation Top: +/- 3300'

Thickness: +/- 560'

Geological Data of Drinking Water Zone: No fresh water zones exist.

### IX Stimulation Program:

The proposed injection interval will be acidized with 15% NEFE acid prior to initial injection.

### X Well Logs:

Copies of well logs will be filed with Oil Conservation Division.

### XI Chemical Analysis of Fresh Water:

There are no known producing fresh water wells within one mile of a proposed injection well.

### XII Affirmative Statement of Open Faults:

Upon examination of the available geologic and engineering data, no evidence of fault communication between the shallow aquifers and the proposed injection zones has been encountered in the East Shugart Unit.

### XIII "Proof of Notice" and "Proof of Publication":

The Bureau of Land Management is the surface owner. They have been notified of our application by certified letter with a copy of this application attached. Proof of notice to follow.

Offset operators in the "area of review" are as follows:

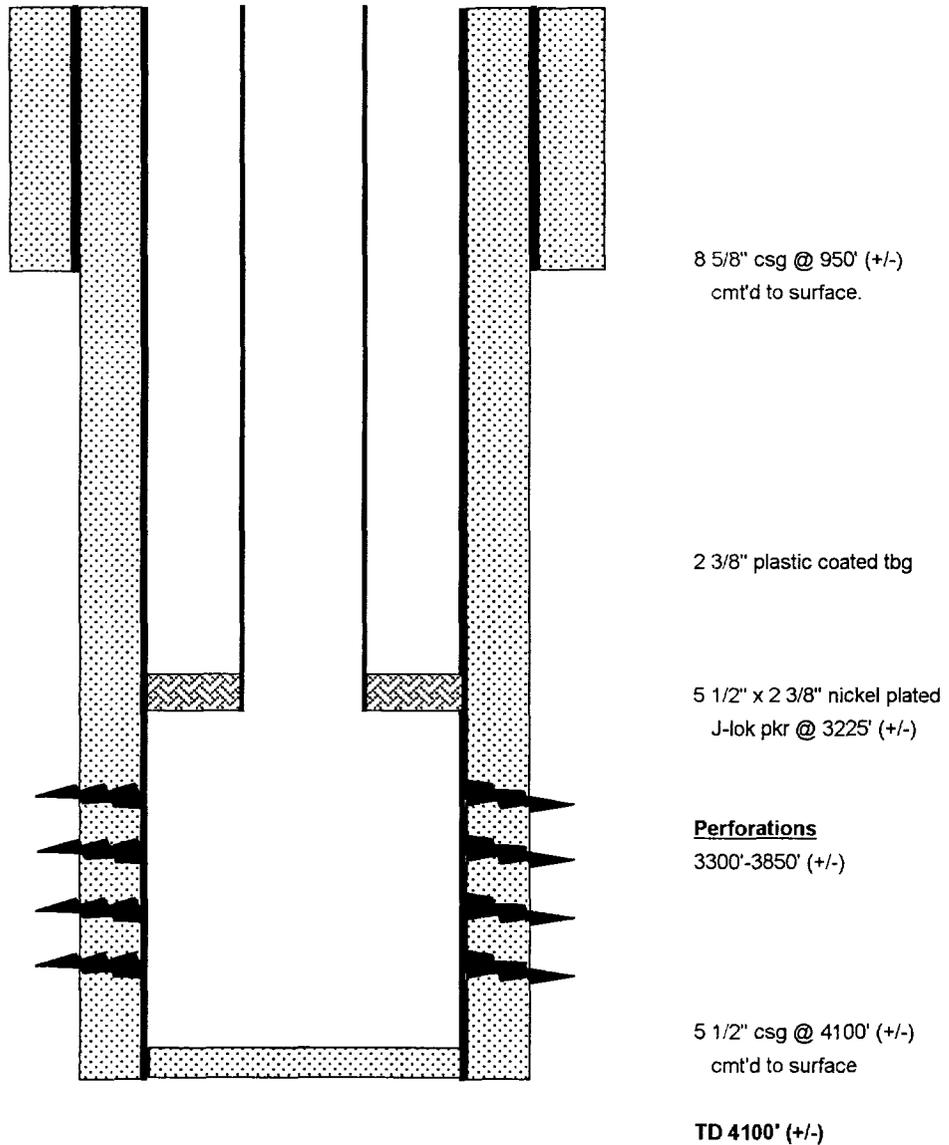
Operator	Well Name	Unit Letter	Location S-T-R
Nuroc Energy Inc.	McFadden Federal #'s 1-8	A & H	3-19S-31E
Headington Oil	Federal 26 #1	O	26-18S-31E
Tom Boyd Drilling	State 36 #1	D	36-18S-31E
Ray Westall	State #1	C	2-19S-31E
	Hinkle B Federal #11	P	26-18S-31E
	Hinkle B Federal #13	I	26-18S-31E
Keohane & Westall	State "2" #1	D	2-19S-31E
Central Resources	NM CK State NCT-1 #1	E	36-18S-31E

Each of the offset operators was provided a copy of the application by certified mail. Proof of notice to follow.

"Proof of Publication" from the Carlsbad Current-Argus is attached.

## DEVON ENERGY CORPORATION PROPOSED WELLBORE SCHEMATIC

WELL NAME: East Shugart Unit #86			FIELD: Shugart (Y-SR-Q-G)			
LOCATION: 330' FSL & 780' FEL, Sec. 34-18S-31E			COUNTY: Eddy County		STATE: NM	
ELEVATION:			SPUD DATE:		COMP DATE:	
API #:		PREPARED BY: Karen Byers			DATE: 10/14/97	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	950' (+/-)	8 5/8"	24#	J-55		12 1/4"
CASING:	4100' (+/-)	5 1/2"	15.5#	J-55		7 7/8"
CASING:						
TUBING:	3225' (+/-)	2 3/8"				
TUBING:						





Attachment VI  
Wells Operated by Devon Energy

<u>WELL NAME</u>	<u>LOCATION</u>	<u>SPUD DATE</u>	<u>COMP DATE</u>	<u>WELL TYPE</u>	<u>DEPTH/PBTD</u>	<u>COMPLETION RECORD</u>
East Shugart Unit #6	990' FNL & 2310' FWL Sec. 35-18S-31E	6/28/58	12/18/58	Oil	4292'/4093'	8" @ 898' w/50 sxs cmt. Est. TOC @ 738'. 7" @ 4115' w/225 sxs cmt. TOC @ 2370' (before Yates squeeze). Perfs 2698'-2774' & 3081'-3877'. CIBP @ 3510'. Perf'd 2814'-3468'. Began inj 5/25/66. Drid out CIBP @ 3510'. Perf'd 2649'-2658' & 3572'-3698'. Squeezed perfs 2649'-2817'. TOC behind 7" @ 2110' after sqz.
East Shugart Unit #7	990' FNL & 2310' FEL Sec. 35-18S-31E	11/3/57	2/19/58	Oil	3885'	8 5/8", 28# @ 914' w/100 sxs cmt. Est. TOC @ 362'. 7", 20# @ 3875' w/150 sxs cmt. Est. TOC @ 2570'. Open hole completion 3875'-3885'. Perf'd 2710'-2839' & 3369'-3706'.
East Shugart Unit #8	990' FNL & 990' FEL Sec. 35-18S-31E	9/15/58	1/21/59	Oil	3935'/3915'	8", 24# csg @ 850' w/50 sxs cmt. Est. TOC @ 738'. 7", 20# csg @ 3935' w/100 sxs cmt. TOC @ 2200' (CBL). Perf'd 3890'-3901'. Added perfs 3809'-3829'. Added perfs 3400'-3718'.
East Shugart Unit #9	1650' FNL & 990' FWL Sec. 35-18S-31E	2/19/59	5/6/59	Oil	3908'	8 5/8" @ 800' w/50 sxs cmt. Est. TOC @ 730'. 5 1/2" @ 3906' w/100 sxs cmt. Est TOC @ 3372'. Perf'd 3404'-3895'. Squeezed 3148'-3159'. TOC @ 2230' (CBL). Perf'd 3404'-3497'. Set CIBP # 3350'. Converted to WIW. Pkr @ 3330'. C.F.
East Shugart Unit #10	2310' FNL & 2310' FEL Sec. 35-18S-31E	5/2/57	9/15/57	Oil	3908'/3350' 3908'	8 5/8" @ 925' w/100 sxs cmt. Est. TOC @ 701'. Sqz'd @ 400' w/50 sxs cmt. 7" @ 3640' w/100 sxs cmt. TOC @ 2350' (CBL 11/89). 4 1/2" liner @ 3600'-3930', cmt'd w/50 sxs. TOC @ liner top. Perf'd 3381'-3925'.
East Shugart Unit #12	2310' FNL & 990' FWL Sec. 35-18S-31E	8/30/57	12/3/57	Oil	3925'	8 5/8" @ 904' w/50 sxs cmt. Est. TOC @ 792'. 7" @ 3925' w/135 sxs cmt. TOC @ 2572' (CBL 7/68). Perf'd 3554'-3564' & 3870'-3884'. Squeezed 2540'-2541' w/60 sxs. Perf'd 2694'-2868' & 3350'-3473'. Set BP @ 2950'. Set BP @ 2650'.
			8/7/78	TA	3925'/2950' 3925'/2650'	

Attachment VI  
Wells Operated by Devon Energy

<u>WELL NAME</u>	<u>LOCATION</u>	<u>SPUD DATE</u>	<u>COMP DATE</u>	<u>WELL TYPE</u>	<u>DEPTH/PBTD</u>	<u>COMPLETION RECORD</u>
East Shugart Unit #13	2310' FNL & 330' FEL Sec. 34-18S-31E	4/19/57	7/15/57	Oil	3855'	8" @ 910' w/50 sxs cmt. 5 1/2" @ 3850' w/200 sxs cmt. TOC 2124', good bond 2728' (CBL). Perf'd 3832'-3854'. Squeezed 8" x 5 1/2" annulus w/400 sxs cmt. Squeezed perfs 2740'-2741' w/75 sxs cmt. TOC @ 2630' Perf'd 3335'-3438' & 2651'-2782' Perf'd 3812'-3819' & 3333'-3770'.
East Shugart Unit #14	2310' FNL & 1650' FEL	5/14/58	8/1/58	Oil	3682'/3676'	8 5/8" @ 898' w/75 sxs cmt. Est'd TOC @ 706'. 5 1/2" @ 3676' w/200 sxs cmt. TOC @ 2578' (CBL). Perf'd 3520'-3552'. Squeezed 8 5/8" x 5 1/2" annulus w/310 sxs cmt thru perfs @ 2560', TOC @ 1988', good bond @ 2117'. Perf'd 2632'-2656', 3635'-3654', 3414'-3439' & 3331'-3341'. Squeezed 8 5/8" x 5 1/2" annulus w/260 sxs cmt thru perfs @ 1924'-1925'. Squeezed perfs 1924'-1925' w/50 sxs cmt. Cmt'd annulus w/150 sxs cmt. Circ'd cmt. Deepened. Perf'd 2632'-2770' & 3331'-3654'. Open hole 3682'- 3860'.
East Shugart Unit #17	1650' FSL & 2310' FWL Sec. 34-18S-31E	12/2/44	1/24/45	Oil	2742'	8 1/4" @ 890' w/50 sxs cmt. Est'd TOC @ 605'. 7" @ 2642' w/100 sxs cmt. Est'd TOC @ 1154'. Open hole comp 2642'-2742'. 4 1/2" @ 3917' w/225 sxs cmt. TOC @ 1700' (temp svy). Perf'd 2670'-2740' & 3308'-3833'.
East Shugart Unit #18	1650' FSL & 1650' FEL Sec. 34-18S-31E	2/2/45	3/13/45	Oil	2838'	8 1/4" @ 911' w/50 sxs cmt. Est'd TOC @ 626'. 7" @ 2655' w/100 sxs cmt. Est'd TOC @ 1167'. Open hole completion 2655'-2838' 4 1/2" @ 3550' w/250 sxs cmt. TOC @ 2410' (temp svy). Perf'd 3296'-3424'. Squeezed 4 1/2" x 7" annulus w/350 sxs. Resqueezed w/50 sxs. Perf'd 2685'-2847'. Open hole section added 3550'-3905'.
			5/10/59		3571'	
			10/1/69			
			4/23/91		3905'	
			12/10/69		3925'/3892'	

Attachment VI  
Wells Operated by Devon Energy

<u>WELL NAME</u>	<u>LOCATION</u>	<u>SPUD DATE</u>	<u>COMP DATE</u>	<u>WELL TYPE</u>	<u>DEPTH/PBTD</u>	<u>COMPLETION RECORD</u>
East Shugart Unit #19	1650' FSL & 330' FEL Sec. 34-18S-31E	5/12/45	7/15/45	Oil	2857'	8 5/8" @ 920' w/50 sxs. Est. TOC @ 760'. 7" @ 2695' w/100 sxs cmt. Est. TOC @ 1500'. Open hole 2695'-2857'. 4 1/2" @ 3477' w/100 sxs cmt. Est'd TOC @ 2247'. Perf'd 3390'-3445'. Perf'd 2706'-2842' & 3324'-3336'. Open hole 3477'-3870'. Plugged & abandoned.
				Dual WIW	3477'	
				Oil	3870'	
				P&A		
				Oil	4088'	
East Shugart Unit #20	1980' FSL & 660' FWL Sec. 35-18S-31E	7/30/37	2/15/69	Oil	4088'	10" @ 903' w/50 sxs cmt. TOC @ surface. 6 5/8" @ 3000' w/100 sxs cmt. TOC @ 2190' (CBL). 5 1/2" liner f/2930'-3327' w/est. 25 sxs cmt. TOC @ top liner (CBL). Open hole 3327'-4088'. Squeezed 2869'-2870' w/165 sxs cmt. TOC @ 1993' (CBL). Perf'd 2733'-2822'.
				Dual WIW	4018'/3928'	
				Oil	4018'/3913'	
				TA	4018'/2725'	
				TA		
East Shugart Unit #21	2310' FSL & 1650' FWL Sec. 35-18S-31E	8/6/57	10/26/57	Oil	4018'/3928'	8 5/8" @ 915' w/50 sxs cmt. Est TOC @ 803'. 7" @ 4000' w/100 sxs cmt. TOC @ 2622' (CBL). Perf'd 3564'-3898'. CIBP @ 3510'. Perf'd 3370'-3495'. Squeezed @ 2888'-2889' w/75 sxs cmt & 2750'-2751' w/70 sxs cmt. Perf'd 2773'-2918'. Drilled out CIBP @ 3510' & cleaned out to 3913'. Temporarily abandoned. Set CIBP @ 2725'.
				Dual WIW	4018'/3510'	
				Oil	4018'/3913'	
				TA	4018'/2725'	
				TA		
East Shugart Unit #24	990' FSL & 1650' FWL Sec. 35-18S-31E	2/2/57	4/8/57	Oil	3520'/3480'	8" @ 923' w/50 sxs. Est TOC @ 800'. 7" @ 3400' w/100 sxs. TOC @ 2194' (CBL) Perf'd 3350'-3370'. 4 1/2" liner f/3084'-3930' w/100 sxs. TOC @ top of liner. Squeezed 8 5/8" x 7" annulus w/200 sxs cmt. Perf'd 2756'-2804' & 3355'-3897'. CIBP @ 2675'. Drilled out CIBP @ 2675'. Ran CIBP @ 3150', ran 4 1/2" tie-back liner to 3084' w/300 sxs, circ'd cmt to surface. Pushed CIBP to 3928'. Perf'd 3815'-3897'. Inj interval 3355'-3879'.
				Oil	3930'/3928'	
				TA	8/8/78	
				WIW	3/1/96	

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East Shugart Unit #25	990' FSL & 330' FWL Sec. 34-18S-31E	7/23/56	10/11/56	Oil	3900'	8" @ 907' w/50 sxs. Est. TOC @ 766'. 7" @ 2700' w/50 sxs. Est. TOC @ 1770'. Knocked off @ 2700' & pulled. 4 1/2" @ 3900' w/100 sxs. TOC @ 2700' (CEL). Perf'd 3857'-3869'. Set plug @ 3472' & perf'd 3400'-3460'. Perf'd @ 2697' & squeezed 8 5/8" x 4 1/2" annulus w/500 sxs. Perf'd 3535'-3668' & 2697'-2772'.
East Shugart Unit #26	330' FSL & 990' FEL Sec. 34-18S-31E	9/18/40	12/11/40	Oil	3627'	8" @ 970' w/50 sxs cmt. Est'd TOC @ 701'. 7" @ 3304' w/100 sxs. Est'd TOC @ 1816'. Open hole 3304'-3627'. Shot hole from 3395'-3432' & 3608'-3625'. Perf'd 2690'-2746'.
East Shugart Unit #27	990' FSL & 1650' FEL Sec. 34-18S-31E	4/28/52	8/4/52	Oil	3675'	7" @ 2570' mudded, cut & pulled from 2570' 5", 15.5# @ 3448' w/25 sxs cmt. TOC @ 2720'. Open hole 3448'-3675'. Squeezed 5 1/2" x 8" annulus thru perms @ 2498'-2500' w/300 sxs. Cemented casing leaks 455'-597' w/300 sxs. Perf'd 3297'-3372'. Perf'd 2634'-2838'. Perf'd 3297'-3416'. pulled. 4 1/2" @ 3900' w/100 sxs. TOC @ 2700' (CEL). Perf'd 3857'-3869'. Set plug @ 3472' & perf'd 3400'-3460'. Perf'd @ 2697' & squeezed 8 5/8" x 4 1/2" annulus w/500 sxs. Perf'd 3535'-3668' & 2697'-2772'. Ran slotted liner 3424'-3837'.
East Shugart Unit #28	330' FSL & 2310' FEL Sec. 34-18S-31E	8/17/40	9/30/40	Oil	2678'	8 1/4" @ 944' w/50 sxs cmt. Est'd TOC @ 659'. 7" @ 2591' w/100 sxs cmt. TOC @ 1840' Open hole completion 2591'-2678'. Converted to WIW. Cmt retainers @ 2541' & 806' & set cmt plugs.
East Shugart Unit #29	330' FSL & 2310' FWL Sec. 34-18S-31E	1944	1944	Oil	2685'	8 5/8" @ 918' w/50 sxs cmt. Est'd TOC @ 778'. 7" @ 2646' w/100 sxs cmt. Est'd TOC @ 1158'. Open hole 2646'-2685'. 4 1/2" @ 3595' w/150 sxs cmt. TOC @ 1705'. Perf'd 3380'-3430' & 3306'-3322'. CIBP @ 3465'. drld to 3540' Perf'd 3501'-3511'.
			6/26/59	Oil	3612'	
			9/16/69	WIW		

Attachment VI  
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East Shugart Unit #30	330' FNL & 2310' FWL Sec. 3-19S-31E	7/1/40	8/8/40	Oil	2678'	8" 24# @ 880' w/50 sxs cmt. Est'd TOC @ 611'. 7" 20# @ 2610' w/100 sxs cmt. Est'd TOC @ 1122'. Open hole 2610'-2678'.
East Shugart Unit #31	330' FNL & 2310' FEL Sec. 3-19S-31E	2/6/41	3/14/41	Oil	2665'	8 1/4" @ 948' w/50 sxs cmt. Est'd TOC @ 663'. 7" @ 2429' w/100 sxs cmt. Est'd TOC @ 941'. Open hole 2429'-2665'. 4 1/2" @ 4361' w/650 sxs cmt. Est'd TOC @ surface. Perf'd 3314'-4106'. CIBP @ 4003'.
East Shugart Unit #32	100' FSL & 990' FWL Sec. 35-18S-31E	9/23/69	10/9/69	Dual WIW	3978'/3943'	8 5/8" @ 630' w/400 sxs cmt. TOC @ surface. 4 1/2" @ 3978' w/450 sxs. TOC @ 2050' (temp svy). Perf'd 2744'-2829' & 3352'-3891'. Squeezed perms 2744'-2829' w/500 sxs cmt. Squeezed annulus f/1987' w/1150 sxs cmt. Cement behind 4 1/2" via 3/4" tbg w/500 sxs. TOC @ surface. Perf'd 3794'-3895'. CIBP @ 3288'. 3 1/2" liner @ 3287' w/100 sxs. Circ'd cmt to surface. Drl'd out cmt & CIBP.
East Shugart Unit #34	990' FNL & 2310' FWL Sec. 3-19S-31E	10/10/90	1/1/91	Oil	4001'/3955'	8 5/8" @ 950' w/640 sxs cmt. TOC @ surface. 5 1/2" @ 4001' w/1400 sxs cmt. TOC @ surface. Perf'd 2680'-3888'. RBP @ 2821'. Producing from 2680'-2703'. Temporarily abandoned. Cleaned out to PBTD of 3955'. Hung well on.
East Shugart Unit #35	1650' FNL & 330' FWL Sec. 35-18S-31E	6/14/93	8/12/93	Oil	4500'/4449'	8 5/8" @ 942' w/480 sxs cmt. TOC @ surface. 5 1/2" @ 3999' w/985 sxs cmt. TOC @ surface. Perf'd 3779'-3856'.
East Shugart Unit #36	2310' FSL & 2310' FEL Sec. 34-18S-31E	5/31/93	8/4/93	Oil	4470'/4425'	8 5/8" @ 974' w/480 sxs. TOC @ surface. 5 1/2" @ 4470' w/805 sxs. TOC @ surface. Perf'd 3762'-3842'.
East Shugart Unit #37	2270' FSL & 840' FEL Sec. 34-18S-31E	6/28/93	8/19/93	Oil	4500'/4427'	8 5/8" @ 965' w/480 sxs. TOC @ surface. 5 1/2" @ 4500' w/1110 sxs cmt. TOC @ surface. Perf'd 3765'-3844'.

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East Shugart Unit #38	1060' FSL & 2430' FEL Sec. 34-18S-31E	7/11/93	9/15/93	Oil	4500'/4463'	8 5/8" @ 972' w/480 sxs cmt. TOC @ surface. 5 1/2" @ 4478' w/970 sxs cmt. TOC @ surface. Perf'd 3740'-3761'. Squeezed perms. Perf'd 3816'-3840'.
East Shugart Unit #39	990' FSL & 990' FEL Sec. 34-18S-31E	5/17/93	7/31/93	Oil	4400'/4346'	8 5/8" @ 985' w/480 sxs cmt. TOC @ surface. 5 1/2" @ 4400' w/1020 sxs cmt. TOC @ surface. Perf'd 3398'-3850'. Perf'd 3312'-3326'.
East Shugart Unit #40	1650' FNL & 840' FEL Sec. 34-18S-31E	11/20/93	7/20/94	Oil	4013'/3883'	8 5/8" @ 973' w/478 sxs cmt. TOC @ surface. 5 1/2" @ 4009' w/1113 sxs cmt. TOC @ surface. Perf'd 2736'-3853'.
East Shugart Unit #45	2550' FSL & 580' FWL Sec. 35-18S-31E	6/21/94	9/1/94	Oil	4017'/3930'	8 5/8" @ 949' w/500 sxs cmt. TOC @ surface. 5 1/2" @ 4016' w/940 sxs cmt. TOC @ surface. Perf'd 2710'-3881'.
East Shugart Unit #46	480' FSL & 1650' FEL Sec. 34-18S-31E	7/16/94	12/18/94	Oil	3952'/3885'	8 5/8" @ 946' w/500 sxs cmt. TOC @ surface. 5 1/2" @ 3951' w/1058 sxs cmt. TOC @ 1515'. Perf'd 3393'-3844'.
East Shugart Unit #47	1650' FNL & 990' FWL Sec. 35-18S-31E	9/14/94	1/6/95	Oil	4040'/3955'	8 5/8" @ 949' w/500 sxs cmt. TOC @ surface. 5 1/2" @ 4025' w/1410 sxs cmt. TOC @ surface. Perf'd 2731'-3870'.
East Shugart Unit #49	990' FNL & 1500' FEL Sec. 35-18S-31E	9/22/94	12/8/94	Oil	4044'/3990'	8 5/8", 24# @ 949 w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4043' w/900 sxs. TOC @ surface. Perf'd 3712'-3880'
East Shugart Unit #50	1700' FNL & 2335' FEL Sec. 35-18S-31E	6/30/94	7/23/94	Oil	4062'/3995'	8 5/8", 24# @ 949' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4060' w/1010 sxs. TOC @ 494'. Perf'd 3871'-3896' & 3578'-3822'.
East Shugart Unit #51	550' FSL & 200' FEL Sec. 34-18S-31E	7/8/94	7/31/94	Oil	4030'/3966'	8 5/8", 24# @ 949' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4030' w/953 sxs. TOC @ surface. Perf'd 3862'-3874' & 3633'-3772'.

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East Shugart Unit #52	330' FNL & 2230' FEL Sec. 35-18S-31E	10/1/95	10/18/95	Oil	4036'/3972'	8 5/8", 24# @ 949' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4035' w/975 sxs. TOC @ surface. Perf'd 3701'-3875'.
East Shugart Unit #55	920' FNL & 1690' FEL Sec. 3/19S-31E	10/8/94	11/18/94	Oil	4020'/3956'	8 5/8" @ 949' w/500 sxs cmt. TOC @ surface. 5 1/2" @ 4019' w/1020 sxs cmt. TOC @ surface. Perf'd 3768'-3855'. Perf'd 3380'-3632'.
East Shugart Unit #56	2250' FNL & 1910' FEL Sec. 35-18S-31E	10/10/95	11/30/95	Oil	4073'/4009'	8 5/8", 24# @ 949' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4072' w/1050 sxs. TOC @ surface. Perf'd 3591'-3932'.
East Shugart Unit #57	375' FSL & 1980' FWL Sec. 35-18S-31E	9/30/94	11/13/94	Oil	4073'/3990'	8 5/8", 24# @ 949' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4072' w/1310 sxs. TOC @ surface. Perf'd 3795'-3877' & 3348'-3516'.
East Shugart Unit #58	1575' FSL & 2200' FWL Sec. 35-18S-31E	11/7/95	12/3/95	Oil	4088'/4027'	8 5/8", 24# @ 949' w/300 sxs. TOC @ surface. 5 1/2", 15.5# @ 4087' w/975 sxs. TOC @ surface. Perf'd 3686'-3908'.
East Shugart Unit #61	2310' FNL & 865' FEL Sec. 35-18S-31E	1/26/95	3/5/95	Oil	4068'/3991'	8 5/8", 24# @ 950' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4067' w/1060 sxs. TOC @ surface. Perf'd 3563'-3911'.
East Shugart Unit #62	1750' FNL & 1900' FEL Sec. 3-19S-31E	12/26/94	2/16/95	Oil	4025'/3953'	8 5/8" @ 953' w/500 sxs cmt. TOC @ surface. 5 1/2" @ 4025' w/1050 sxs cmt. TOC @ surface. Perf'd 3368'-3866'.
East Shugart Unit #63	1800' FSL & 1600' FEL Sec. 35-18S-31E	12/16/94	1/18/95	Oil	4010'/3950'	8 5/8", 24# @ 950' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4010 w/1170 sxs. TOC @ surface. Perf'd 3752'-3834' & 3298'-3640'.
East Shugart Unit #67	2450' FSL & 330' FEL Sec. 34-18S-31E	9/11/95	10/6/95	Oil	4000'/3954'	8 5/8", 24# @ 949' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 3999' w/950 sxs. TOC @ surface. Perf'd 3768'-3846', 3406'-3659' & 2650'-2692'.

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East Shugart Unit #70	330' FSL & 280' FWL Sec. 35-18S-31E	1/2/95	5/12/95	Oil	4045/3936'	8 5/8", 24# @ 949' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4043' w/1400 sxs. TOC @ surface. Perf'd 3150'-3889'.
East Shugart Unit #71	990' FSL & 990' FWL Sec. 35-18S-31E	1/9/95	3/31/95	Oil	4055/3987'	8 5/8", 24# @ 947' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4050' w/1238 sxs. TOC @ surface. Perf'd 3152'-3886'.
East Shugart Unit #72	1650' FSL & 1150' FWL Sec. 35-18S-31E	1/18/95	2/22/95	Oil	4040/3975'	8 5/8", 24# @ 949' w/500 sxs. TOC @ surface. 5 1/2", 15.5# @ 4039' w/1150 sxs. TOC @ surface. Perf'd 3426'-3893', 3182'-3263' & 2744'-2818'.
East Shugart Unit #79	2120' FNL & 375' FWL Sec. 35-18S-31E	10/29/95	12/16/95	Oil	4066/4003'	8 5/8", 24# @ 949' w/500 sxs. TOG @ surface. 5 1/2", 15.5# @ 4065' w/950 sxs. TOC @ surface. Perf'd 2800'-2816' & 3556'-3878'.

Attachment VI  
Wells Operated by Others

<u>WELL NAME</u>	<u>LOCATION</u>	<u>SPUD DATE</u>	<u>COMP DATE</u>	<u>WELL TYPE</u>	<u>DEPTH/PBTD</u>	<u>COMPLETION RECORD</u>
McfAddin Federal #1 Oper: Nuroc Energy Inc.	330' FNL & 330' FEL Sec. 3-19S-31E	8/7/38	11/15/38	Oil	2751'	8", 28# @ 90' w/50 sxs cmt. Est'd TOC @ 631'. 7", 20# @ 2635' w/100 sxs cmt. Est'd TOC @ 1344'. Open hole 2635'-2751'. 4 1/2", 9.5# @ 3850' w/150 sxs. Est'd TOC @ 2306'. Perf'd 3398'-3448' & 3800'-3806'. Perf'd 3320'-3330'.
McfAddin Federal #2 Oper: Nuroc Energy Inc.	330' FNL & 990' FEL Sec. 3-19S-31E	9/7/57	11/14/57	Oil	2687'	7", 20# @ 914' w/50 sxs. Est'd TOC @ 268'. 5 1/2", 14# @ 2660' w/100 sxs. Est'd TOC @ 462'. Open hole 2660'-2687'.
McfAddin Federal #3 Oper: Nuroc Energy Inc.	1650' FNL & 330' FEL Sec. 3-19S-31E	3/28/62	4/16/62	Oil	3924/3915'	8 5/8", 32# @ 256' w/75 sxs. Est'd TOC @ 64'. 5 1/2", 14# @ 3915' w/300 sxs. Est'd TOC @ 2086'. Perf'd 3385'-3415' & 3840'-3850'.
McfAddin Federal #4 Oper: Nuroc Energy Inc.	990' FNL & 990' FEL Sec. 3-19S-31E	9/24/81	1/25/82	Oil	2670'	8 5/8", 23# in 10" hole @ 701' w/350 sxs. Est'd TOC @ surface. 7", 14# in 8" hole @ 2659' w/300 sxs. TOC @ surface. Open hole 2666'-2670'.
McfAddin Federal #5 Oper: Jack Plemons	990' FNL & 330' FEL Sec. 3-19S-31E	7/10/82	9/9/82	P&A	740'	8 5/8" @ 702' w/400 sxs cmt. TOC @ surface. Plugged & Abandoned.
McfAddin Federal #5Y Oper: Nuroc Energy Inc.	990' FNL & 360' FEL Sec. 3-19S-31E	1/31/83	3/2/83	Oil	2671'	9 5/8", 36# in 12 1/4" hole @ 679' w/325 sxs. TOC @ surface. 7", 23# in 8 3/4" hole @ 2633' w/575 sxs. TOC @ surface. Open hole 2633'-2670'. 4 1/2", 10.5# in 6" hole @ 3950' w/250 sxs. Est'd TOC @ 876'. Perf'd 3460'-3861'. Permanent plugs @ 3710' & 3650'.
McfAddin Federal #6 Oper: Nuroc Energy Inc.	2310' FNL & 330' FEL Sec. 3-19S-31E	7/12/82	8/29/82	Oil	3943'	8 5/8", 20# K-55 in 12 1/4" hole @ 741' w/200 sx. Est'd TOC 275' 5 1/2", 15.5# J-55 in 7 7/8" @ 3943' w/110 sx. Est'd TOC surf. Perf'd 3804'-3907'.
McfAddin Federal #7 Oper: Nuroc Energy Inc.	1650' FNL & 990' FEL Sec. 3-19S-31E	9/6/83	10/30/83	Oil	3943'	8 5/8" @ 692' w/450 sxs. TOC @ surface. 5 1/2" @ 3943' w/1500 sxs. TOC @ surface. Perf'd 3802.5'-3909'. CIBP @ 3720'. Perf'd 3607'-3665'.

Attachment VI  
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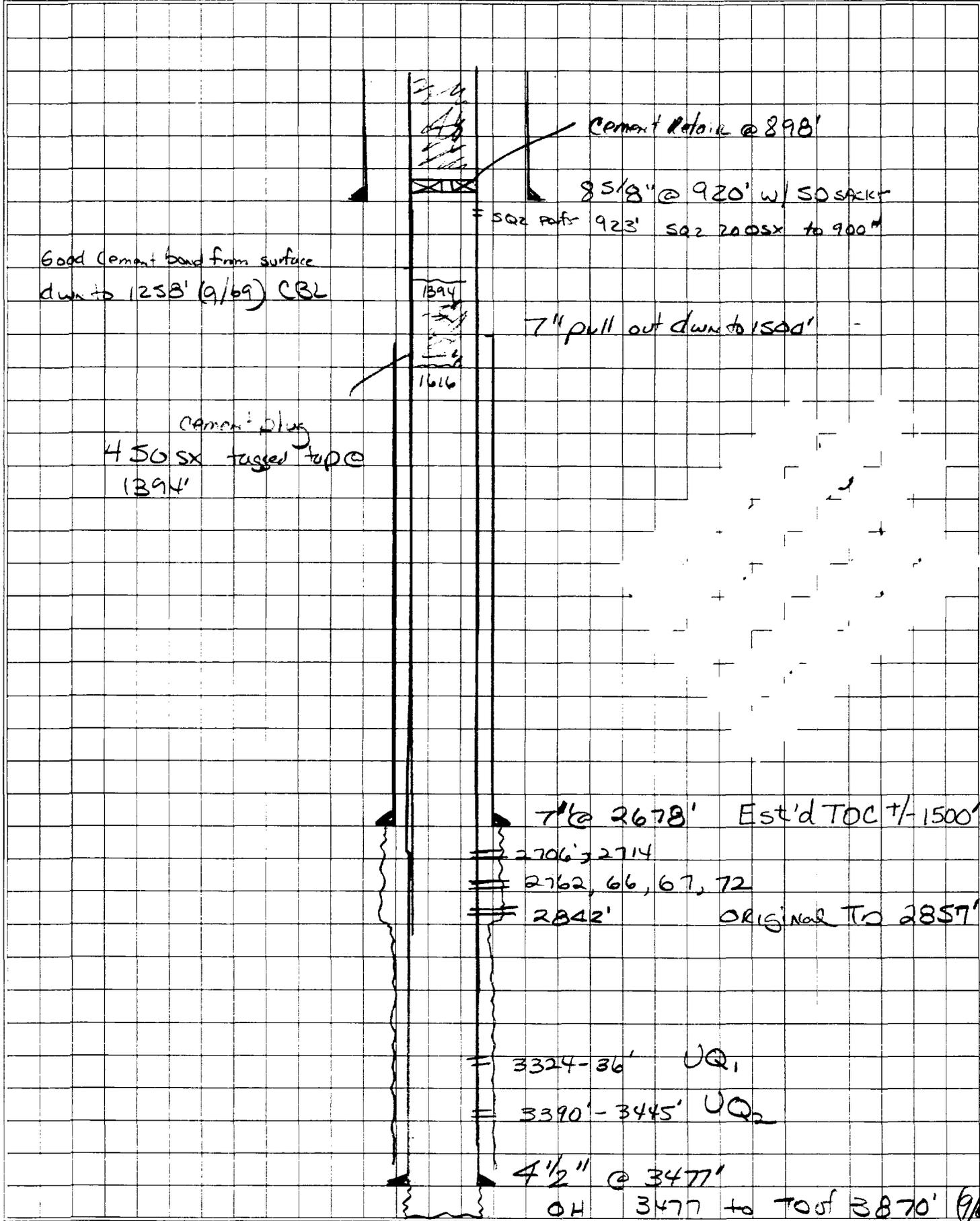
<u>WELL_NAME</u>	<u>LOCATION</u>	<u>SPUD_DATE</u>	<u>COMP_DATE</u>	<u>WELL_TYPE</u>	<u>DEPTH/PBTD</u>	<u>COMPLETION RECORD</u>
McFaddin Federal #8 Oper: Nuroc Energy Inc.	2310' FNL & 990' FEL Sec. 3-19S-31E	12/22/85	4/20/86	Oil	4027'/4021'	8 5/8", 2# in 11" hole @ 691' w/450 sxs. Est'd TOC @ surface. 5 1/2", 15.5# in 8" hole @ 4021' w/800 sxs. Est'd TOC @ surface. Perf'd 3791'-3846'.
Federal 26 #1 Oper: Headington Oil	330' FSL & 1980' FEL Sec. 26-18S-31E	1/10/75	5/17/76	Oil	4100'	8 5/8" @ 790' w/400 sxs. Est'd TOC @ surface. 4 1/2" @ 4100' w/550 sxs. Est'd TOC @ 1879'. Perf'd 2677'-2752' & 3695'-3908'.
State #2 Oper: Keohane & Westall	990' FNL & 330' FWL Sec. 2-19S-31E	3/18/52	4/30/52 4/11/61	Oil - TA Oil	3220' 4121'	8 5/8" @ 921' w/50 sxs. Est'd TOC @ 542'. 4 1/2" @ 4121' w/160 sxs. Est'd TOC @ 3379'. Perf'd 3408'-3889'.
State #1 Oper: Ray Westall	330' FNL & 1650' FWL Sec. 2-19S-31E	10/1/45	12/10/45	D&A	3953'	8 5/8", 28# in 10" hole @ 910' w/50 sx. Est'd TOC 580'. Pulled 350'. 7", 20# in 8" hole @ 3337'. Pulled all 7" csg. Wooden plugs @ 3400', 2280' and 900' each set with 8 sxs cmt. 4 1/2", 9.5# @ 3890' w/150 sxs cmt. Est'd TOC @ 2046'. Perf'd 3414'-3853'. Perf'd 2760'-3356' & 3513'-3749'.
State 36 #1 Oper: Tom Boyd Drilling	330' FNL & 330' FWL Sec. 36-18S-31E	5/29/58	6/12/59 10/18/69 9/27/86	Oil	3953'/3890'	4 1/2" panted 60' from surface. Welded 5' of 7" csg swedged to 4 1/2". Permission to cement refused by Artesia & Santa Fe offices. Replaced 4 1/2" pipe from approx 300'. Cemented w/250 sxs.
			4/24/89			
			6/17/58	Oil	4100'/3962'	8 5/8", 2# in 10" hole @ 974' w/50 sxs. Est'd TOC @ 502'. 5 1/2", 15.5# in 8" hole @ 4040' w/100 sxs. Est'd TOC @ 3333'. BP @ 4025' & 4000'. Gravel & cal-seal to 3962'. Perf'd 3840'-3858'. Perf'd 3895'-3910'.
			10/3/59 2/10/76	P&A		CIBP @ 3800' w/30' cmt plug. Pulled 2213.51' casing. Cmt plug (35 sxs) @ 2232'. Cmt plug (40 sxs) @ 1023'. Pulled 688.1' of 8 5/8" casing. Cmt plug (50 sxs) @ 700'. Cement plug (50 sxs) @ 475'. Cement plug (25') at surface w/dry hole marker.
New Mex. CK State NCT-1 #1 Oper: Central Resources	1650' FNL & 330' FWL Sec. 36-18S-31E	10/22/59	12/6/59 2/14/60	Oil	4000'/3978'	8 5/8", 2# in 12 1/4" hole @ 940' w/500 sxs. Est'd TOC @ surf. 5 1/2", 14# in 6 3/4" hole @ 4000' w/300 sxs. Est'd TOC @ 206'. Perf'd 3622'-3756' & 3804'-3936'. Squeezed perfs 3804'-3936' w/100 sxs cmt.

Attachment VI  
Wells Operated by Others

<u>WELL NAME</u>	<u>LOCATION</u>	<u>SPUD DATE</u>	<u>COMP DATE</u>	<u>WELL TYPE</u>	<u>DEPTH/PBTD</u>	<u>COMPLETION RECORD</u>
State #1 Oper: Keohane & Westall	330' FNL & 330' FWL Sec. 2-19S-31E	5/3/39	8/25/39	Oil	3680'	10 3/4", 40# in 12 1/2" hole @ 240'. No cement. 8 5/8", 32# in 10" hole @ 760' w/50 sxs. Est'd TOC @ 381'. 7", 20# in 8" hole @ 2935'. No cement. 5 1/2", 17# in @ 6" hole @ 3272' w/100 sxs. Est'd TOC @ surface. Open hole 3272'-3680'. Plugged back from 3680' to 3470'. Plugged & abandoned.
Hinkle B Federal #13 Oper: Ray Westall	1650' FSL & 990' FEL Sec. 26-18S-31E	1/24/81	4/27/42 1/4/52 4/1/81	P&A Oil	3680'/3470' 4170'	8 5/8", 20# in 11" @ 671' w/100 sx C & 200 sx HL. TOC @ surf. 4 1/2", 9.5# in 7 7/8" hole @ 4189' w/500 sxs. Est'd TOC @ 1871'. Perfd 3450'-3698'.
Hinkle B Federal #11 Oper: Ray Westall	330' FSL & 990' FEL Sec. 26-18S-31E	6/4/80	8/20/80 7/26/84	Oil	4200'	8 5/8", 20# in 11" hole @ 650' w/250 sxs. Est'd TOC @ surf. 4 1/2", 9.5# in 7 7/8" hole @ 4186' w/500 sxs. Est'd TOC @ 1868'. Perfd 3460'-3600'. Perfd 3708'-3926'.



SUBJECT: EAST Shugart # 19



GRIN 6/23/71  
Temp 6/23/71

34-A 4/82

SHEET NO \_\_\_\_\_ OF \_\_\_\_\_



# DEVON

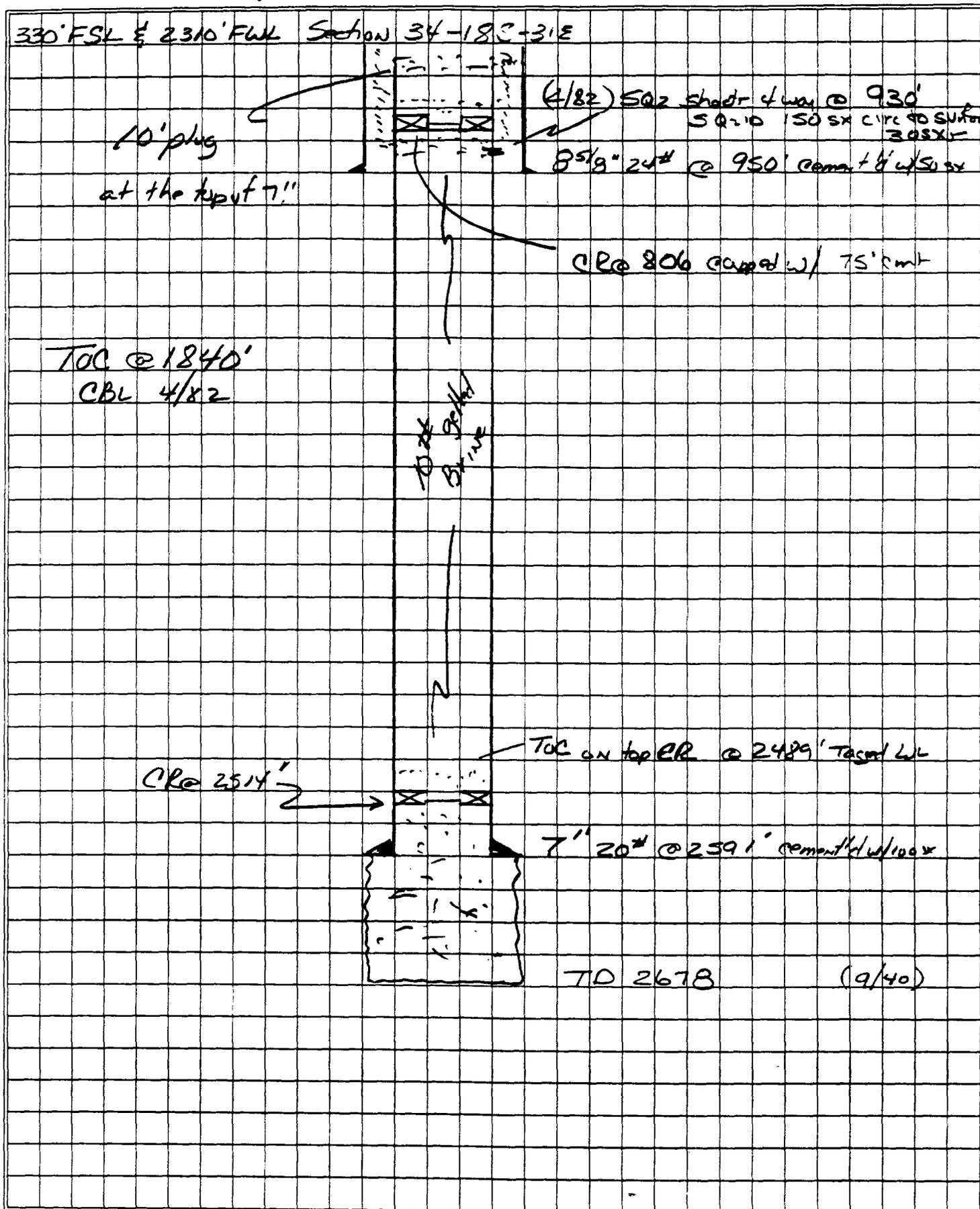
## ENGINEERING CHART

FILE \_\_\_\_\_

DATE 9/26/92

BY LS Powell

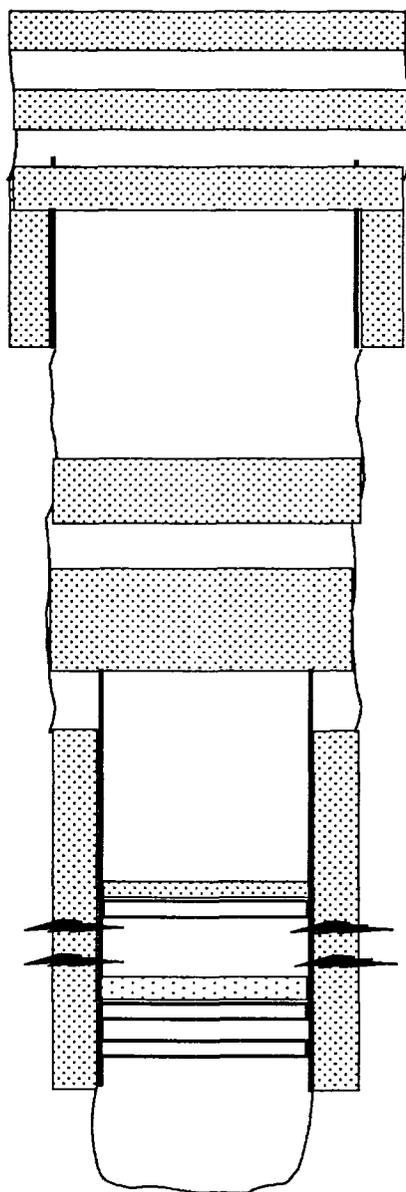
SUBJECT: EAST SHUGART UNIT #28 (Hinkle "A" #1)



## PLUGGED & ABANDONED WELLBORE SCHEMATIC

WELL NAME: State 36 #1	OPER: Tom Boyd Drilling	FIELD: Shugart-Yates-SR-QN-GB
LOCATION: 330' FNL & 330' FWL, Sec. 36-18S-31E	COUNTY: Eddy County	STATE: NM
ELEVATION: 3660' DF	SPUD DATE: 4/29/58	COMP DATE: 6/17/58
API #: 30-015-05709	PREPARED BY: Karen Byers	DATE: 10/8/97

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	659'-974'	8 5/8"	24#			10"
CASING:	2213.51'-4040'	5 1/2"	15.5#			8"
CASING:						
TUBING:						
TUBING:						



Cement plug from 25' to surface.

Cement plug (50 sxs) @ 475'.

8 5/8" casing cut & pulled @ 659'.

Cement plug (50 sxs @ 700'

8 5/8" @ 974' w/50 sxs cmt. Est'd TOC @ 502'.

Cement plug (40 sxs) @ 1023'.

5 1/2" csg cut off and pulled @ 2213.51'.

Cmt plug (35 sxs) @ 2232'

CIBP @ 3800' w/30' cmt plug.

Perf'd 3840'-3858' & 3895'-3910'.

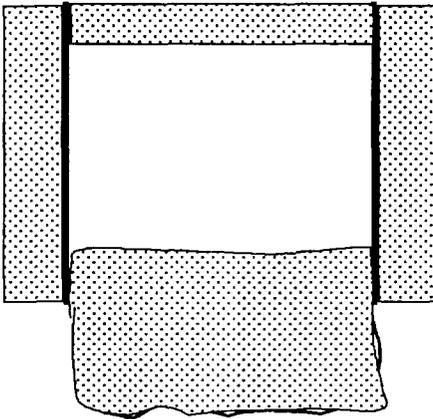
BPs @ 4025' & 4000' w/gravel & cal-seal to 3962'.

5 1/2" @ 4040' w/100 sxs cmt. Est'd TOC @ 3333'.

TD 4100'

## PLUGGED AND ABANDONED WELLBORE SCHEMATIC

WELL NAME: McFadden Federal #5		OPER: Jack Plemons		FIELD: Shugart-Yates-SR-QN-GB		
LOCATION: 990' FNL & 330' FEL, Sec. 3-19S-31E			COUNTY: Eddy County		STATE: NM	
ELEVATION: 3613' GL			SPUD DATE: 7/10/82		COMP DATE: 9/9/82	
API #:		PREPARED BY: Karen Byers			DATE: 10/8/97	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0-702'	8 5/8"	24#			11"
CASING:						
CASING:						
TUBING:						
TUBING:						



Cement plug from 20' to surface (7 sxs).

8 5/8" casing to 702' w/400 sxs cmt. TOC @ surface.

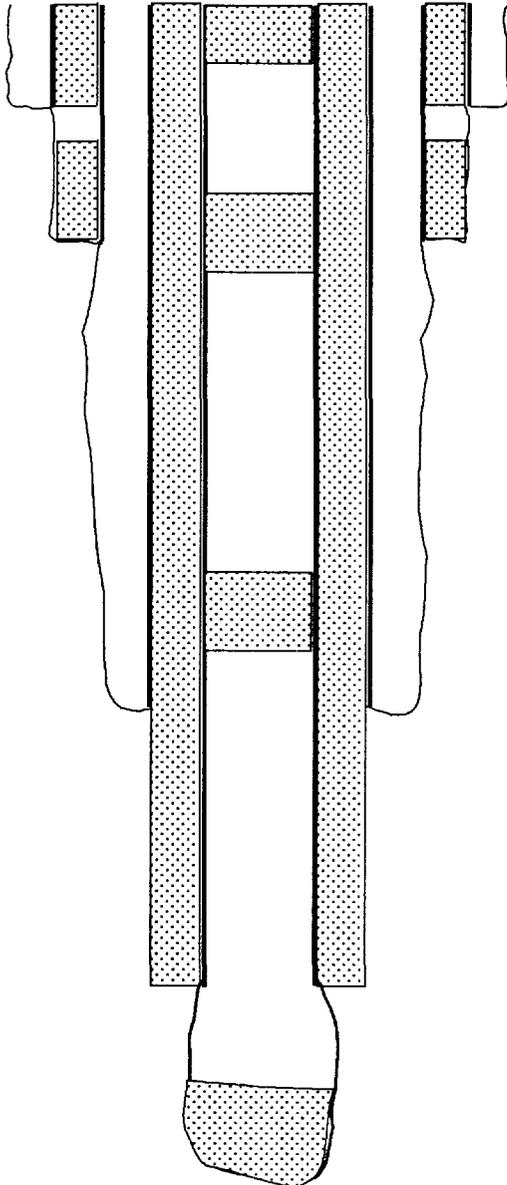
Cement plug from 740'-670' (25 sxs).

TD 740'

## PLUGGED & ABANDONED WELLBORE SCHEMATIC

WELL NAME: State #1	OPER: Keohane & Westall	FIELD: Shugart
LOCATION: 330' FNL & 330' FWL, Sec. 2-19S-31E	COUNTY: Eddy County	STATE: NM
ELEVATION: 3621'	SPUD DATE: 5/3/39	COMP DATE: 8/25/39
API #: 30-015-05715	PREPARED BY: Karen Byers	DATE: 10/7/97

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0-240'	10 3/4"	40#			12 1/2"
CASING:	0-760'	8 5/8"	32#			10"
CASING:	0-2935'	7"	20#			8"
CASING:	0-3272'	5 1/2"	17#			6"
TUBING:						



Cement plug @ surface & cmt'd top 310' of 10" left in hole

10 3/4" casing @ 240'

8 5/8" csg @ 760' w/50 sxs cmt. Est'd TOC @ 381'.

Cement plug from 800'-744'

Cement plug from 2760'-2630'

7" csg @ 2935'.

5 1/2" csg @ 3272' w/100 sxs cmt. Est'd TOC @ surface.

Cement plug from 3650'-3600'

TD 3680'

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**FORM APPROVED**  
Budget Bureau No 1004-0135  
Expires March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**DEVON ENERGY CORPORATION (NEVADA)**

3. Address and Telephone No.  
**20 NORTH BROADWAY, SUITE 1500, OKLAHOMA CITY, OKLAHOMA 73102 (405) 235-3611**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**330' FSL & 780' FEL of Section 34-T18S-R31E, Unit "P"**

5. Lease Designation and Serial No.  
**NM 10193**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**14-08-11572 East Shugart Unit**

8. Well Name and No.  
**East Shugart Unit 86**

9. API Well No.

10. Field and Pool, or Exploratory Area  
**Shugart (Y-SR-Q-G)**

11. County or Parish, State  
**Eddy, NM**

**CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Name Change</u> <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. 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.)\*

Per the New Mexico OCD request,  
 Notification of name change from  
**East Shugart Unit 26-X**  
 to  
**East Shugart Unit #86**

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

Signed *Diana M. Keys* Title Engineering Technician Date November 3, 1997  
(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

# Affidavit of Publication

No 18795

State of New Mexico,  
County of Eddy, ss.

Amy McKay

being first duly sworn, on oath says:

That she is Business Manager  
of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the state wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

October 19, 19 97  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_  
\_\_\_\_\_, 19\_\_\_\_

That the cost of publication is \$ 36.34,  
and that payment thereof has been made and will  
be assessed as court costs.

*Amy McKay*

Subscribed and sworn to before me this

21<sup>st</sup> day of October, 1997

*Donna Crump*

My commission expires 8/1/98

Notary Public

October 19, 1997

## PUBLIC NOTICE APPLICATION FOR WATER INJECTION

Notice is hereby given that Devon Energy Corporation (Nevada) is applying to the New Mexico Oil Conservation Division for administrative approval and authority to convert the following wells to water injection:

East Shugart Unit #26X  
330' FSL & 780' FEL  
Sec. 34-18S-31E  
Eddy County, NM

East Shugart Unit #75  
990' FNL & 330' FEL  
Sec. 35-18S-31E  
Eddy County, NM

East Shugart Unit #83  
1100' FSL & 170' FEL  
Sec. 34-18S-31E  
Eddy County, NM

The intended purpose of the water injection wells is to inject produced waters into the Queen formation to enhance oil recovery through secondary recovery. Maximum injection rates of 700 bwpd & maximum injection pressures of 1800 psig are expected.

Any interested parties may file objections or requests for hearing within 15 days to:

Oil Conservation Division  
2040 South Pacheco St.  
Santa Fe, New Mexico  
87505-5472

By: Ernie Buttross, District  
Engineer  
Devon Energy

Corporation (Nevada)  
20 N. Broadway,  
Suite 1500  
Oklahoma City, OK  
73102  
(405)552-4509



20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone: 405/235-3611  
FAX 405/552-4667

**CERTIFIED MAIL # Z 447 031 517**

November 20, 1997

Re: Application for Authorization to Inject  
East Shugart Unit # 75, 83 & 86  
Eddy County, NM

New Mexico Oil Conservation Division  
Attn: Ben Stone  
2040 S. Pacheco St.  
Santa Fe, NM 87505

Enclosed are two copies of proof of notice to offset operators for the Application for Authorization to Inject on the East Shugart Unit wells referenced above. The original Application for Authorization to Inject was sent to you November 6, 1997 without the proof of notice.

If you have any questions, please contact me at (405) 552-4527.

Sincerely yours,

Devon Energy Corporation (Nevada)

A handwritten signature in cursive script that reads "Karen Byers".

Karen Byers  
Engineering Technician

/kb  
Enclosures (18)



ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

Certified Mail No. Z 447 031 504

Bureau of Land Management  
2909 West Second Street  
Roswell, NM 88201

RE: East Shugart Unit #'s 75, 83 & 86  
Sec. 34 & 35 - 18S-31E  
Eddy County, NM

Gentlemen:

We have enclosed a copy of our Application for Authorization to Inject for the above referenced wells. Please consider this letter as official notification. Our records indicate that you are the surface owner. Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 552-4509.

Yours truly,  
DEVON ENERGY CORP.

*Karen Byers*

Karen Byers  
Engineering Technician

Enclosures

AAI on East Shugart Unit # 75, 83 + 86

Is your RETURN ADDRESS completed on the reverse side?	<b>SENDER:</b> <input type="checkbox"/> Complete items 1 and/or 2 for additional services. <input type="checkbox"/> Complete items 3, 4a, and 4b. <input type="checkbox"/> Print your name and address on the reverse of this form so that we can return this card to you. <input type="checkbox"/> Attach this form to the front of the mailpiece, or on the back if space does not permit. <input type="checkbox"/> Write "Return Receipt Requested" on the mailpiece below the article number. <input type="checkbox"/> 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. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
	3. Article Addressed to:  <b>BUREAU OF LAND MANAGEMENT</b> 2909 West Second Street Roswell, New Mexico 88201	4a. Article Number <b>Z 447 031 504</b>	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD
5. Received By: (Print Name)	6. Signature: (Addressee or Agent) <i>X Carol Jones</i>		7. Date of Delivery <b>11-10-97</b>
8. Addressee's Address (Only if requested and fee is paid)			

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Postmark or Date  
**AAI on East Shugart # 75, 83 + 86**

Thank you for using Return Receipt Service.



ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

Certified Mail No. Z 447 031 505

Bureau of Land Management  
620 E. Greene Street  
Carlsbad, NM 88220-6292

RE: East Shugart Unit #'s 75, 83 & 86  
Sec. 34 & 35 - 18S-31E  
Eddy County, NM

Gentlemen:

We have enclosed a copy of our Application for Authorization to Inject for the above referenced wells. Please consider this letter as official notification. Our records indicate that you are the surface owner. Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 552-4509.

Yours truly,  
DEVON ENERGY CORPORATION

*Karen Byers*

Karen Byers  
Engineering Technician

Enclosures

**AAI on East Shugart Unit # 75, 83 & 86**

Is your RETURN ADDRESS completed on the reverse side?	<b>SENDER:</b> <input type="checkbox"/> Complete items 1 and/or 2 for additional services. <input type="checkbox"/> Complete items 3, 4a, and 4b. <input type="checkbox"/> Print your name and address on the reverse of this form so that we can return this card to you. <input type="checkbox"/> Attach this form to the front of the mailpiece, or on the back if space does not permit. <input type="checkbox"/> Write "Return Receipt Requested" on the mailpiece below the article number. <input type="checkbox"/> 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. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
	3. Article Addressed to:  Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220-6292	4a. Article Number <b>Z 447 031 505</b>  4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD
5. Received By: (Print Name) <i>BETTY HILL</i>		7. Date of Delivery NOV 10 1997 USPS
6. Signature: (Addressee or Agent) <input checked="" type="checkbox"/> <i>Betty Hill</i>		
8. Addressee's Address (Only if requested and fee is paid)		

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Form 38  
Postmark or Date  
AAI on: East Shugart  
unit # 75 83 & 86



ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

Certified Mail No. Z 447 031 512

Keohane, Inc  
P. O. Box 1120, Sunwest Center, Ste 608  
Roswell, NM 88202-1120

RE:

East Shugart Unit #86  
330' FSL & 780' FEL  
Sec. 34-18S-31E  
Eddy County, NM

East Shugart Unit #75  
990' FNL & 330' FEL  
Sec. 35-18S-31E  
Eddy County, NM

East Shugart Unit #83  
1100' FSL & 170' FEL  
Sec. 34-18S-31E  
Eddy County, NM

Gentlemen:

We have enclosed a copy of our Application for Authorization to Inject for the above referenced wells. Please consider this letter as official notification. Our records indicate that you are an offset operator. Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 552-4509.

Yours truly,

DEVON ENERGY CORP

*Karen Byers*

Karen Byers  
Engineering Technician

Enclosures

Is your RETURN ADDRESS completed on the reverse side?	<b>SENDER:</b> AAI on: East Shugart Unit 75, 83 & 86		also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
	<input type="checkbox"/> Complete items 1 and/or 2 for additional services. <input type="checkbox"/> Complete items 3, 4a, and 4b. <input type="checkbox"/> Print your name and address on the reverse of this form so that we can return this card to you. <input type="checkbox"/> Attach this form to the front of the mailpiece, or on the back if space does not permit. <input type="checkbox"/> Write "Return Receipt Requested" on the mailpiece below the article number. <input type="checkbox"/> The Return Receipt will show to whom the article was delivered and the date delivered.		
	3. Article Addressed to: Keohane, Inc. P. O. Box 1120, Sunwest Ctr, Suite 608 Roswell, NM 88202-1120		4a. Article Number Z 447 031 512
	5. Received By: (Print Name) <i>Amanda Thompson</i>		4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD
	6. Signature: (Addressee or Agent) <i>X Amanda Thompson</i>		7. Date of Delivery NOV 10 1997 U.S.P.S.
		8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

PS Form 3811

Postmark or Date

AAI on: East Shugart Unit  
# 75, 83 & 86

Thank you for using Return Receipt Service.



ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

Certified Mail No. Z 447 031 511

Central Resources, Inc.  
1775 Sherman St., Ste 2600  
Denver, CO 80203-4322

RE:

East Shugart Unit #86  
330' FSL & 780' FEL  
Sec. 34-18S-31E  
Eddy County, NM

East Shugart Unit #75  
990' FNL & 330' FEL  
Sec. 35-18S-31E  
Eddy County, NM

East Shugart Unit #83  
1100' FSL & 170' FEL  
Sec. 34-18S-31E  
Eddy County, NM

Gentlemen:

We have enclosed a copy of our Application for Authorization to Inject for the above referenced wells. Please consider this letter as official notification. Our records indicate that you are an offset operator. Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 552-4509.

Yours truly,

DEVON ENERGY CORP

*Karen Byers*

Karen Byers  
Engineering Technician

Enclosures

is your RETURN ADDRESS completed on the reverse side?

AAI on: East Shugart Unit # 75, 83 & 86

**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  
 Consult postmaster for fee.

3. Article Addressed to:  
 Central Resources, Inc.  
 1775 Sherman St., Suite 2600  
 Denver, CO 80203-4322

4a. Article Number  
 Z 447 031 511

4b. Service Type  
 Registered  Certified  
 Express Mail  Insured  
 Return Receipt for Merchandise  COD

7. Date of Delivery  
 11-10

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)  
*X.S. Droegemeier*

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

Form 3811 Postmark or Date  
AAI on: East Shugart Unit # 75, 83 & 86

Thank you for using Return Receipt Service.



ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

Certified Mail No. Z 447 031 510

Ray Westall Operating, Inc.  
P. O. Box 4  
Loco Hills, NM 88255-0004

RE:

East Shugart Unit #86	East Shugart Unit #75	East Shugart Unit #83
330' FSL & 780' FEL	990' FNL & 330' FEL	1100' FSL & 170' FEL
Sec. 34-18S-31E	Sec. 35-18S-31E	Sec. 34-18S-31E
Eddy County, NM	Eddy County, NM	Eddy County, NM

Gentlemen:

We have enclosed a copy of our Application for Authorization to Inject for the above referenced wells. Please consider this letter as official notification. Our records indicate that you are an offset operator. Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 552-4509.

Yours truly,

DEVON ENERGY CORP

*Karen Byers*

Karen Byers  
Engineering Technician

Enclosures

is your RETURN ADDRESS completed on the reverse side?

<b>SENDER:</b> AAI on : East Shugart Unit # 75, 83 & 86	
<ul style="list-style-type: none"> <li>■ Complete items 1 and/or 2 for additional services.</li> <li>■ Complete items 3, 4a, and 4b.</li> <li>■ Print your name and address on the reverse of this form so that we can return this card to you.</li> <li>■ Attach this form to the front of the mailpiece, or on the back if space does not permit.</li> <li>■ Write "Return Receipt Requested" on the mailpiece below the article number.</li> <li>■ The Return Receipt will show to whom the article was delivered and the date delivered.</li> </ul>	
I also wish to receive the following services (for an extra fee):	
1. <input type="checkbox"/> Addressee's Address	
2. <input type="checkbox"/> Restricted Delivery	
Consult postmaster for fee.	
3. Article Addressed to:	4a. Article Number
Ray Westall Operating, Inc. P. O. Box 4 Loco Hills, NM 88255-0004	Z 447 031 510
	4b. Service Type
	<input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified
	<input type="checkbox"/> Express Mail <input type="checkbox"/> Insured
	<input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD
	7. Date of Delivery
	11/10-97
5. Received By: (Print Name)	8. Addressee's Address (Only if requested and fee is paid)
Shelli Dees	
6. Signature: (Addressee or Agent)	
X Shelli Dees	

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

S Form 38

Postmark or Date

AAI on: East Shugart Unit  
# 75, 83 & 86

Thank you for using Return Receipt Service.



ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

Certified Mail No. Z 447 031 509

Louis Dreyfus Natural Gas  
14000 Quail Springs Parkway  
Oklahoma City, OK 73134

RE:

East Shugart Unit #86  
330' FSL & 780' FEL  
Sec. 34-18S-31E  
Eddy County, NM

East Shugart Unit #75  
990' FNL & 330' FEL  
Sec. 35-18S-31E  
Eddy County, NM

East Shugart Unit #83  
1100' FSL & 170' FEL  
Sec. 34-18S-31E  
Eddy County, NM

Gentlemen:

We have enclosed a copy of our Application for Authorization to Inject for the above referenced wells. Please consider this letter as official notification. Our records indicate that you are an offset operator. Please direct inquiries concerning this matter to Ernie Buttross, Jr., at (405) 552-4509.

Yours truly,

DEVON ENERGY CORP

*Karen Byers*

Karen Byers  
Engineering Technician

Enclosures

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<p>3. Article Addressed to:</p> <p>Louis Dreyfus Natural Gas 14000 Quail Springs Parkway Oklahoma City, OK 73134</p>		<p>4a. Article Number</p> <p>Z 447 031 509</p>	
<p>5. Received By: (Print Name)</p>		<p>4b. Service Type</p> <p><input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified</p> <p><input type="checkbox"/> Express Mail <input type="checkbox"/> Insured</p> <p><input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD</p>	
<p>6. Signature (Addressee or Agent)</p> <p>X <i>[Signature]</i></p>		<p>7. Date of Delivery</p> <p>11-7</p>	
<p>8. Addressee's Address (Only if requested and fee is paid)</p>			

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PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Form 38

Postmark or Date

AAI on: East Shugart Unit



ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

**Certified Mail No. Z 447 031 508**

Headington Oil Co.  
7557 Rambler Rd., Ste 1100  
Dallas, TX 75231-4142

RE:

East Shugart Unit #86  
330' FSL & 780' FEL  
Sec. 34-18S-31E  
Eddy County, NM

East Shugart Unit #75  
990' FNL & 330' FEL  
Sec. 35-18S-31E  
Eddy County, NM

East Shugart Unit #83  
1100' FSL & 170' FEL  
Sec. 34-18S-31E  
Eddy County, NM

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Yours truly,

DEVON ENERGY CORP

*Karen Byers*

Karen Byers  
Engineering Technician

Enclosures

AAI on: East Shugart Unit # 75, 83 & 86

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	<input type="checkbox"/> Complete items 1 and/or 2 for additional services. <input type="checkbox"/> Complete items 3, 4a, and 4b. <input type="checkbox"/> Print your name and address on the reverse of this form so that we can return this card to you. <input type="checkbox"/> Attach this form to the front of the mailpiece, or on the back if space does not permit. <input type="checkbox"/> Write "Return Receipt Requested" on the mailpiece below the article number. <input type="checkbox"/> The Return Receipt will show to whom the article was delivered and the date delivered.		
	3. Article Addressed to:	4a. Article Number	
	Headington Oil Co. 7557 Rambler Rd., Suite 1100 Dallas, TX 75231-4142	Z 447 031 508	
	4b. Service Type		
	<input type="checkbox"/> Registered <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	<input checked="" type="checkbox"/> Certified <input type="checkbox"/> Insured <input type="checkbox"/> COD	
	5. Received By: (Print Name)	7. Date of Delivery	
		<i>11/6/97</i>	
	6. Signature (Addressee or Agent)	8. Addressee's Address (Only if requested and fee is paid)	
	<i>X</i> <i>Ernie Buttross Jr.</i>		

PS Form 3811, December 1994

Postmark or Date  
AAI on: East Shugart Unit  
75, 83, & 86

102595-97-B-0179 Domestic Return Receipt

Thank you for using Return Receipt Service.



ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

Certified Mail No. Z 447 031 507

Nuroc Energy, Inc  
803 N. W. 9th Street  
Andrews, TX 79714

RE:

East Shugart Unit #86  
330' FSL & 780' FEL  
Sec. 34-18S-31E  
Eddy County, NM

East Shugart Unit #75  
990' FNL & 330' FEL  
Sec. 35-18S-31E  
Eddy County, NM

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1100' FSL & 170' FEL  
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DEVON ENERGY CORP

*Karen Byers*  
Karen Byers  
Engineering Technician

Enclosures

AAI on East Shugart Unit # 75, 83 & 86

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- 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):

- Addressee's Address
- Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to: Nuroc Energy, Inc. 803 N. W. 9th Street Andrews, TX 79714	4a. Article Number Z 447 031 507
	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD
5. Received By: (Print Name)	7. Date of Delivery
6. Signature (Addressee or Agent) <i>[Signature]</i>	8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Postmark or Date  
AAI on East Shugart Unit  
# 75, 83, & 86

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ENERGY CORPORATION

20 North Broadway, Suite 1500  
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611  
FAX 405/552-4550

November 6, 1997

Certified Mail No. Z 447 031 506

Tom Boyd Drilling  
C/O Sanders, Bruin, Coll & Worley  
Attn: Kelly Mack Cassels  
P. O. Box 550  
Roswell, NM 88202-0550

RE:

East Shugart Unit #86  
330' FSL & 780' FEL  
Sec. 34-18S-31E  
Eddy County, NM

East Shugart Unit #75  
990' FNL & 330' FEL  
Sec. 35-18S-31E  
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Yours truly,

DEVON ENERGY CORP

*Karen Byers*

Karen Byers  
Engineering Technician

Enclosures

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	3. Article Addressed to: Tom Boyd Drilling c/o Sanders, Bruin, Coll & Worley Attn: Kelly Mack Cassels P. O. Box 550 Roswell, NM 88202-0550	4a. Article Number Z 447 031 506	
		4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
		7. Date of Delivery 11-12-97	
	5. Received By: (Print Name) <i>DARRIN</i>	8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) <i>X [Signature]</i>			

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102595-97-B-0179

Domestic Return Receipt

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75, 83 & 86

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**CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS**

Operator: DEVON ENERGY CORP. Well: EAST SMOGART NOS. 75, 83 & 86  
Contact: DIANA KEYS Title: ENG. T-CCO Phone: 405-552-9515  
DATE IN 11-7-97 RELEASE DATE 11-24-97 DATE OUT 3-9-98

Proposed Injection Application is for:  **WATERFLOOD**  Expansion  Initial  
Original Order: R- 3059 + 3769  Secondary Recovery  Pressure Maintenance  
 **SENSITIVE AREAS**  **SALT WATER DISPOSAL**  Commercial Well

WIPP  Capitan Reef

Data is complete for proposed well(s)? YES Additional Data Req'd \_\_\_\_\_

**AREA of REVIEW WELLS**

65 Total # of AOR 5 # of Plugged Wells  
YES Tabulation Complete YES Schematics of P & A's  
YES Cement Tops Adequate 1 AOR Repair Required ESU #9

**INJECTION FORMATION**

Injection Formation(s) OCEAN Compatible Analysis 417

Source of Water or Injectate AOR PRODUCTION (UNIT) + MAKE-UP

**PROOF of NOTICE**

YES Copy of Legal Notice YES Information Printed Correctly  
YES Correct Operators YES Copies of Certified Mail Receipts  
NO Objection Received  Set to Hearing \_\_\_\_\_ Date

NOTES: \_\_\_\_\_

**APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL? YES**

**COMMUNICATION WITH CONTACT PERSON:**

1st Contact:	<input checked="" type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	<u>3-6-98</u> Date	Nature of Discussion	<u>VERBAL APPR'L</u>
2nd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion	_____
3rd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion	_____