

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ Yes ☐ No
- II. OPERATOR: Devon Energy Operating Corporation
ADDRESS: 20 N. Broadway, Suite 1500, Oklahoma City, OK 73102-8260
CONTACT PARTY: Mr. Randy Jackson PHONE: 405/ 522-4560
- 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 R-2268
- 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: Mr. Randy Jackson TITLE: District Engineer
SIGNATURE: *Randy Jackson* DATE: January 2, 1997
- * 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.

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 OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

III Well Data:

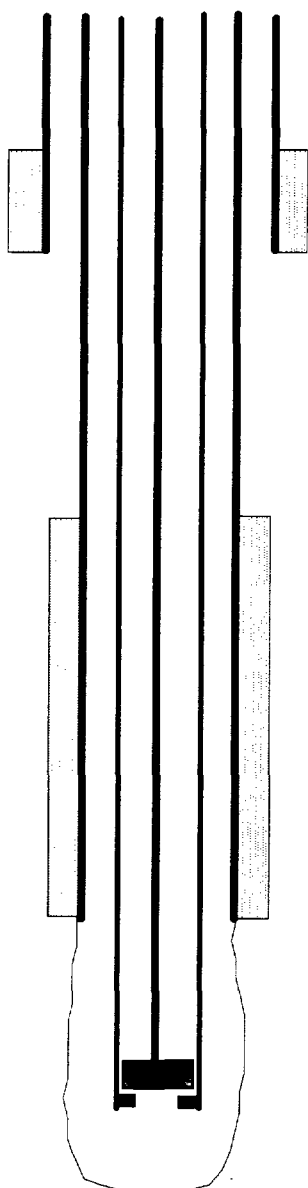
- A. (1) Hudson Federal #3
1650'FNL & 330'FWL
Section 17-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 1/4" @ 636'. Set with 50 sxs. TOC @ 460'(calculated)
Hole Size = 10"(estimated)
- Intermediate Casing:
7" @ 2780'. Set with 100 sxs. TOC @ 1460'(calculated)
Hole Size = 7 5/8"(estimated)
- Production Casing:
4 1/2" 11.6# J-55 LT&C @ 3497'. TOC @ surface.
Hole Size = 6 1/4"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2650'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2650'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2700'- 3497'(OA). **The injection interval is 2700'- 3497'.**
- (3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2700'- 3497' interval.
- (5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #3			FIELD: GRAYBURG-JACKSON		
LOCATION: 1650'FNL & 330'FWL, SEC 17-T17S-R31E			COUNTY: EDDY	STATE: NM	
ELEVATION: GL=3710'; KB=UNK			SPUD DATE: 04/04/41	COMP DATE: 06/14/41	
API#: 30-015-05179		PREPARED BY: C.H. CARLETON			DATE: 11/22/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 636'	8 1/4"				
CASING:	0' - 2780'	7"				
CASING:						
TUBING:	0' - UNK	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 1/4" CASING, SET W/50 SXS. TOC @ 460'(calc)

7" CASING SET W/100 SXS. TOC @ 1460'(calc)

OPEN HOLE COMPLETION: 2780' - 3497'

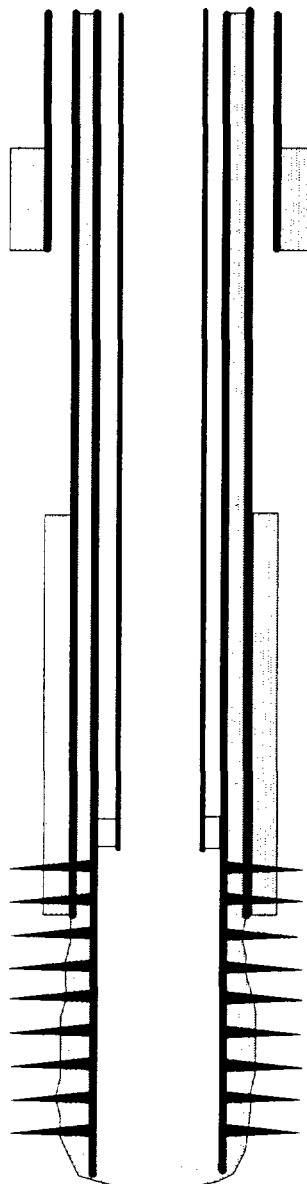
TD @ 3497'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #3			FIELD: GRAYBURG-JACKSON		
LOCATION: 1650'FNL & 330'FWL, SEC 17-T17S-R31E			COUNTY: EDDY	STATE: NM	
ELEVATION: GL=3710'; KB=UNK			SPUD DATE: 04/04/41	COMP DATE: 06/14/41	
API#: 30-015-05179		PREPARED BY: C.H. CARLETON			DATE: 11/22/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 636'	8 1/4"				
CASING:	0' - 2780'	7"				
CASING:	0' - 3497'	4 1/2"	11.6#	J-55	LT&C	6 1/4"
TUBING:	0' - 2650'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 1/4" CASING, SET W/50 SXS. TOC @ 460'(calc)

INJECTION INTERVAL: 2700'- 3497'

BAKER AD-1 PACKER @ 2650'

7" CASING SET W/100 SXS. TOC @ 1460'(calc)

PERFORATIONS: 2700'- 3497' (OA)

4 1/2" CASING, TOC @ SURFACE.
TD @ 3497'

**DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

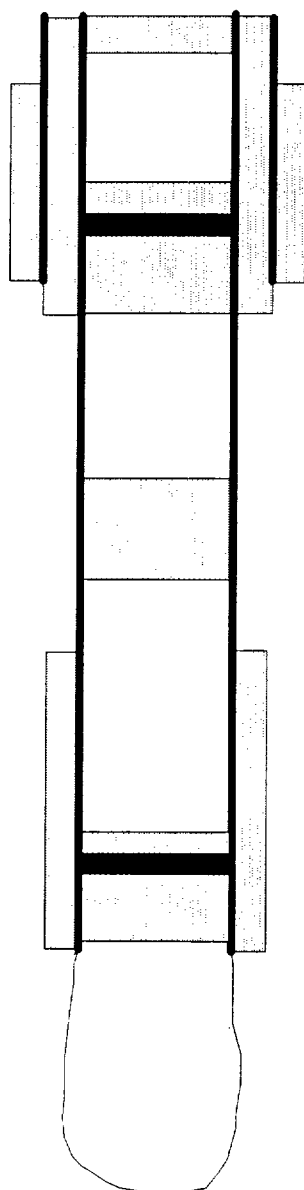
III Well Data:

- A. (1) Hudson Federal #4
990'FNL & 330'FWL
Section 17-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 5/8" 28# @ 649'. Set with 50 sxs. TOC @ 410'(calculated)
Hole Size = 10"(estimated)
- Intermediate Casing:
7" 20# @ 2803'. Set with 100 sxs. TOC @ 1480'(calculated)
Hole Size = 7 5/8"(estimated)
- Production Casing:
4 1/2" 11.6# J-55 LT&C @ 3500'. TOC @ surface.
Hole Size = 6 1/4"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2650'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2650'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2700'- 3500'(OA). **The injection interval is 2700'- 3500'.**
- (3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2700'- 3500' interval.
- (5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #4			FIELD: GRAYBURG-JACKSON			
LOCATION: 990'FNL & 330'FWL, SEC 17-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3721'; KB=UNK			SPUD DATE: 11/07/41		COMP DATE: 02/01/42	
API#: 30-015-05180		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 649'	8 5/8"	28#			
CASING:	0' - 2803'	7"	20#			
CASING:						
TUBING:						
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

DATE PLUGGED: 04/19/79

CEMENT PLUG: 0' - 50'

CEMENT RETAINER @ 560'. PUMP 100 SXS BELOW & CAP WITH 4 SXS.

8 5/8" CASING, SET W/50 SXS. TOC @ 410'(calculated)

PERFORATE 7" CASING @ 660'.

CEMENT PLUG: 1000' - 1200'

CEMENT RETAINER @ 2500', PUMP 300 SXS BELOW & CAP WITH 2 SXS.

7" CASING SET W/100 SXS. TOC @ 1480'(calculated)

OPEN HOLE COMPLETION: 2803' - 3500'

TD @ 3500'

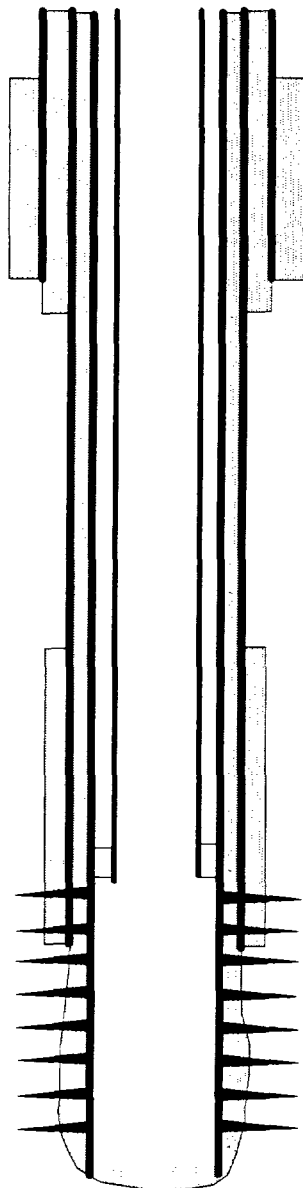
NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #4		FIELD: GRAYBURG-JACKSON	
LOCATION: 990'FNL & 330'FWL, SEC 17-T17S-R31E		COUNTY: EDDY	STATE: NM
ELEVATION: GL=3721'; KB=UNK		SPUD DATE: 11/07/41	COMP DATE: 02/01/42
API#: 30-015-05180	PREPARED BY: C.H. CARLETON		DATE: 11/22/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 649'	8 5/8"	28#			
CASING:	0' - 2803'	7"	20#			
CASING:	0' - 3500'	4 1/2"	11.6#	J-55	LT&C	6 1/4"
TUBING:	0' - 2650'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/50 SXS. TOC @ 410'(calculated)

INJECTION INTERVAL: 2700'- 3500'

BAKER AD-1 PACKER @ 2650'

7" CASING SET W/100 SXS. TOC @ 1480'(calculated)

PERFORATIONS: 2700'- 3500' (OA)

4 1/2" CASING. TOC @ SURFACE.

TD @ 3500'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD

III **Well Data:**

A. (1) Hudson Federal #5
 2480'FNL & 1160'FWL
 Section 17-T17S-R31E
 Eddy County, NM

(2) Surface Casing:
 8 5/8" 24# @ 500'. Set with 200 sxs. TOC @ surface
 Hole Size = 12"

 Production Casing:
 4 1/2" 9.5# J-55 @ 3510'. Set with 225 sxs. TOC @ 2860' (Temp Survey)
 Hole Size = 7 7/8"

(3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2700'.

(4) 4 1/2" Baker AD-1 tension packer set at 2700'.

3. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.

(2) Water injection will be through perforations 2750'- 3510' (OA). **The injection interval is 2750'- 3510'.**

NOTE: A cement bond log will be run prior to perforating the 4 1/2" casing to insure that the height of cement behind casing is 100' above proposed top perforation ($\pm 2750'$). Should cement top be less than 2650', the 4 1/2" casing will be perforated and cement squeezed.

(3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.

(4) Additional perforations may be added in the 2750'- 3510' interval.

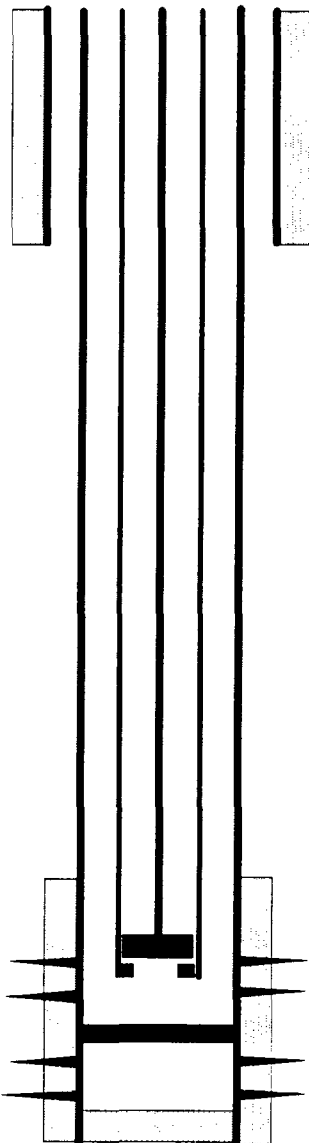
(5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #5		FIELD: GRAYBURG-JACKSON	
LOCATION: 2480'FNL & 1160'FWL, SEC 17-T17S-R31E		COUNTY: EDDY	STATE: NM
ELEVATION: GL=3715'; KB=UNK		SPUD DATE: 07/26/67	COMP DATE: 08/10/67
API#: 30-015-20073	PREPARED BY: C.H. CARLETON		DATE: 11/11/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 500'	8 5/8"	24#			12"
CASING:	0' - 3510'	4 1/2"	9.5#	J-55		7 7/8"
CASING:						
TUBING:	0' - 3250'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/200 SXS. TOC @ SURFACE

NOTE:

EXACT PLUG DEPTH AND PLUG TYPE ARE IN QUESTION.
WELL FILE WAS CONTRADICTIONARY ON DEPTH, AND TYPE
OF PLUG WAS NOT CLEARLY STATED.

PERFORATE: 3168'- 3287' (OA)

CIBP @ 3350' (as of 8/88)

PERFORATE: 3402'- 3498' (OA)

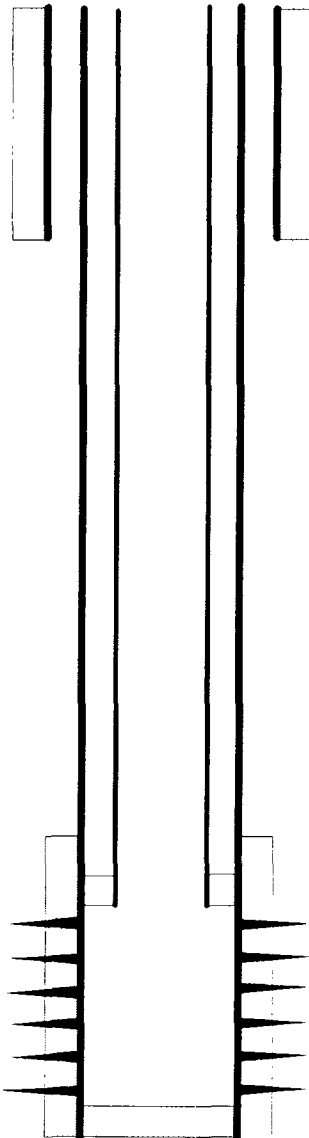
4 1/2" CASING, SET W/225 SXS. TOC @ 2860'(calc)

TD @ 3510'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #5			FIELD: GRAYBURG-JACKSON			
LOCATION: 2480'FNL & 1160'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3715'; KB=UNK			SPUD DATE: 07/26/67		COMP DATE: 08/10/67	
API#: 30-015-20073		PREPARED BY: C.H. CARLETON			DATE: 11/11/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 500'	8 5/8"	24#			12"
CASING:	0' - 3510'	4 1/2"	9.5#	J-55		7 7/8"
CASING:						
TUBING:	0' - 2700'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/200 SXS. TOC @ SURFACE

NOTE: Cement Bond Log will be run to determine height of cement behind 4 1/2" casing prior to perforating. Should height of cement be less than 2650', the 4 1/2" casing will be perforated and squeezed to insure that cement top is 100' above the top perforation within the injection interval.

INJECTION INTERVAL: 2750'- 3510'

BAKER AD-1 PACKER @ 2700'

PERFORATIONS: 2750'- 3510' (OA)

4 1/2" CASING, SET W/225 SXS. TOC @ 2860'(calc)
TD @ 3510'

NOTE: FOF CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

**DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

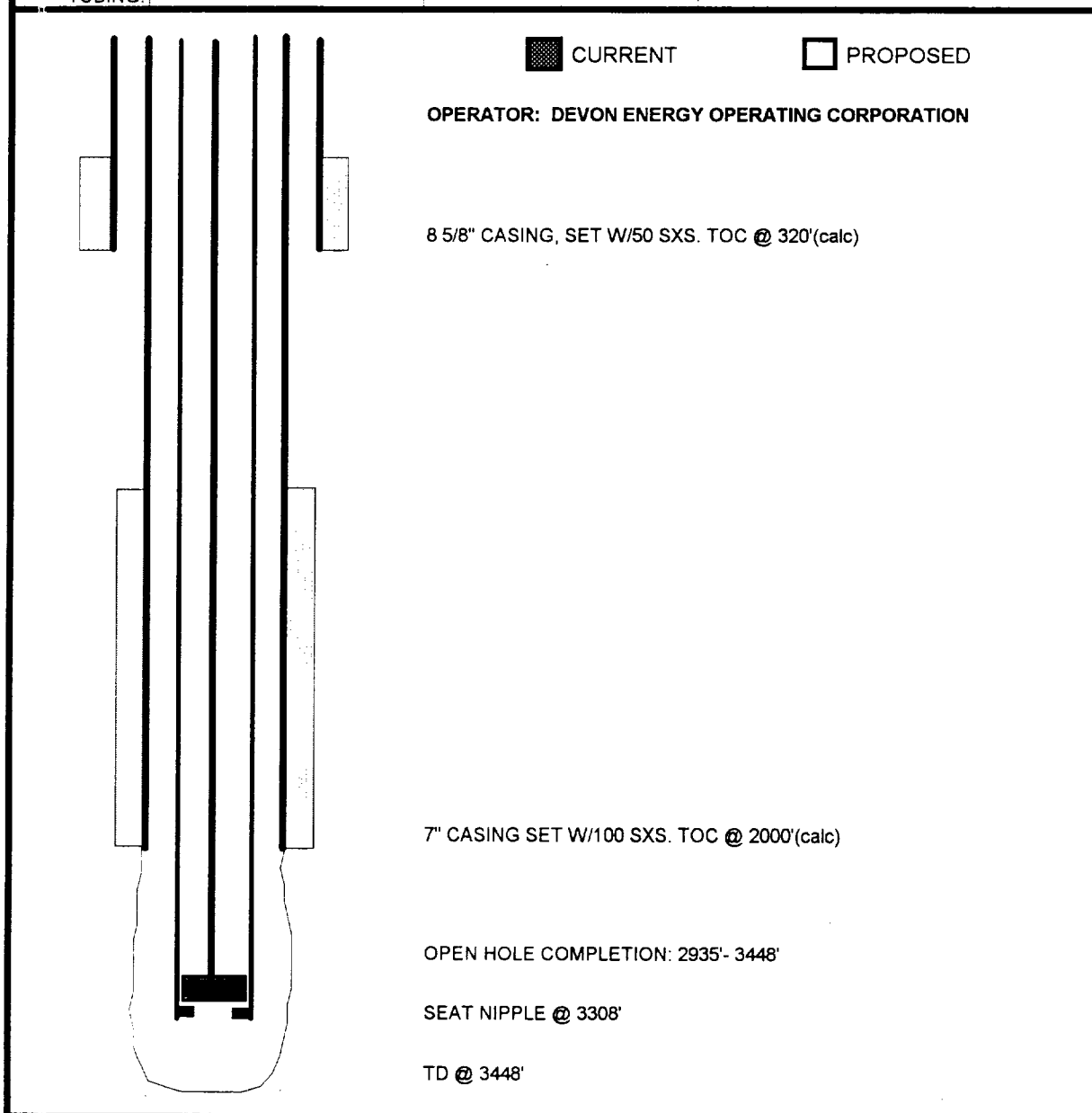
III Well Data:

- A. (1) Turner "B" #2
660'FSL & 660'FWL
Section 17-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 5/8" 24# @ 554'. Set with 50 sxs. TOC @ 320'(calculated)
Hole Size = 10"(estimated)
- Intermediate Casing:
7" 20# @ 2935'. Set with 100 sxs. TOC @ 2000'(calculated)
Hole Size = 7 7/8"(estimated)
- Production Casing:
4 1/2" 11.6# J-55 LT&C @ 3448'. TOC @ surface.
Hole Size = 6 1/4"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2600'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2600'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2650'- 3448'(OA). **The injection interval is 2650'- 3448'.**
- (3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2650'- 3448' interval.
- (5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #2			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 660'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3693'; KB=UNK			SPUD DATE: 04/12/41		COMP DATE: 06/22/41	
API#: 30-015-05182		PREPARED BY: C.H. CARLETON				DATE: 11/22/96
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 554'	8 5/8"	24#			
CASING:	0' - 2935'	7"	20#			
CASING:						
TUBING:	0' - 3308'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						

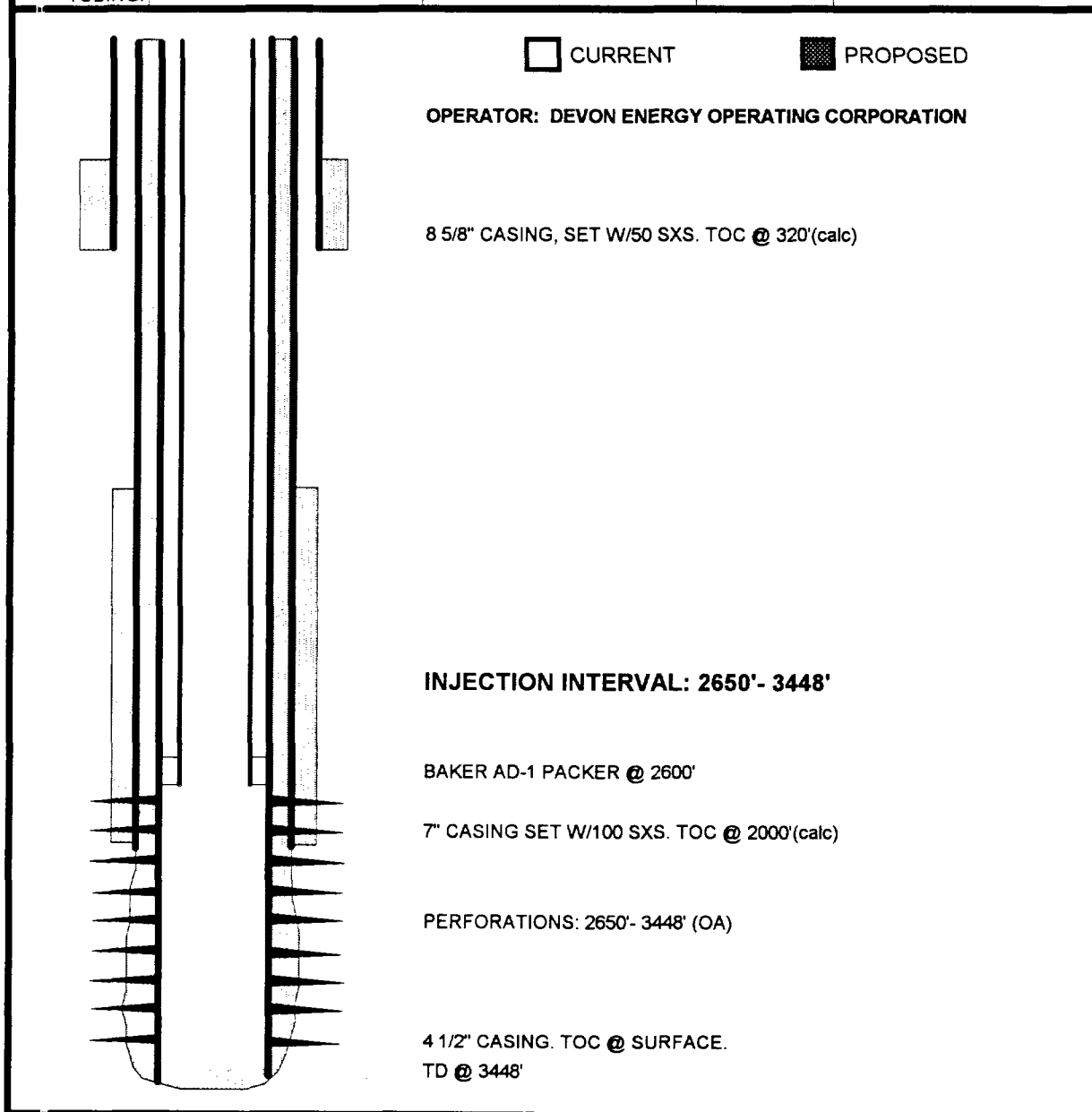


NOTES: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #2			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 660'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3693'; KB=UNK			SPUD DATE: 04/12/41		COMP DATE: 06/22/41	
API#: 30-015-05182		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 554'	8 5/8"	24#			
CASING:	0' - 2935'	7"	20#			
CASING:	0' - 3448'	4 1/2"	11.6#	J-55	LT&C	6 1/4"
TUBING:	0' - 2600'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



NOTED: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

**DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

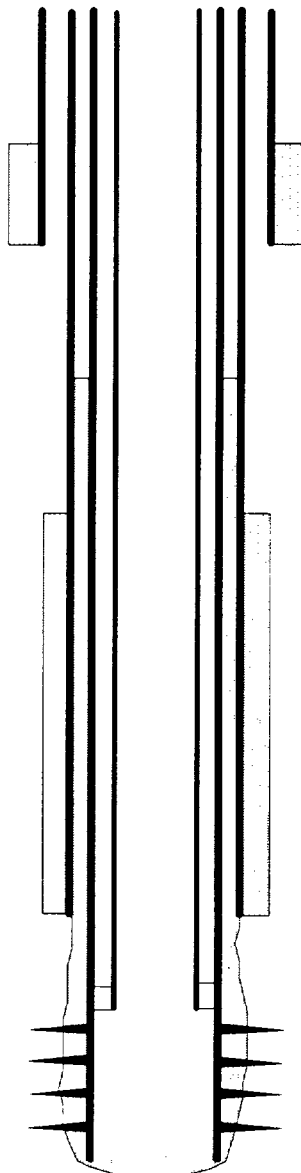
III Well Data:

- A. (1) Turner "B" #4
660'FSL & 1980'FWL
Section 17-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 5/8" 28# @ 518'. Set with 50 sxs. TOC @ 280'(calculated)
Hole Size = 10"(estimated)
- Intermediate Casing:
7" 20# @ 2905'. Set with 100 sxs. TOC @ 1980'(calculated)
Hole Size = 7 7/8"(estimated)
- Production Casing:
4 1/2" 9.5# Midco-50 LT&C @ 3430'. Set with 200 sxs. TOC @ 1140'(Temp Survey)
Hole Size = 6 1/4"(estimated)
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2600'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2600'.
3. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2650'- 3430'(OA). **The injection interval is 2650'- 3430'.**
- (3) This well was originally drilled and completed as a Grayburg/San Andres oil well, but was later converted to a water injection well injecting into the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2650'- 3430' interval.
- (5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #4			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 1980'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3672'; KB=UNK			SPUD DATE: 09/27/41		COMP DATE: 12/12/41	
API#: 30-015-05183		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 518'	8 5/8"	28#			
CASING:	0' - 2905'	7"	20#			
CASING:	0' - 3430'	4 1/2"	9.5#	Midco-50	LT&C	
TUBING:	0' - 3230'	2 3/8"	4.7#	J-55	8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/50 SXS. TOC @ 280'(calc)

7" CASING SET W/100 SXS. TOC @ 1980'(calc)

JOHNSON 101-S PACKER @ 3230'

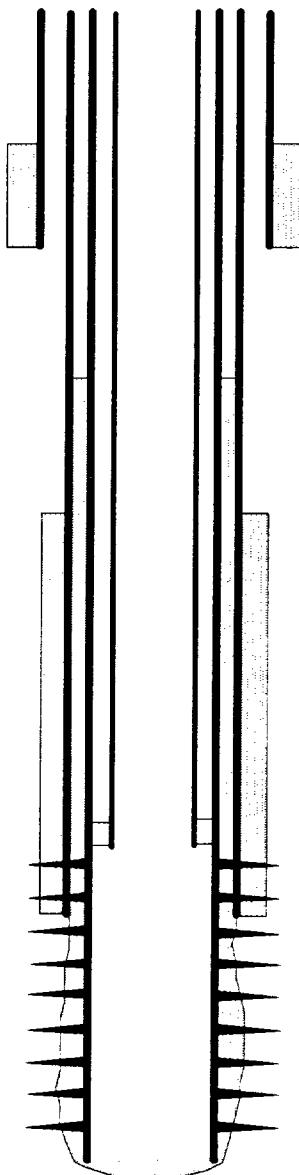
PERFORATIONS: 3320'- 3422' (OA)

4 1/2" CASING SET W/200 SXS. TOC @ 1140'(TEMP SURVEY)
TD @ 3430'

III Well Data

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #4			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 1980'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3672'; KB=UNK			SPUD DATE: 09/27/41		COMP DATE: 12/12/41	
API#: 30-015-05183		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 518'	8 5/8"	28#			
CASING:	0' - 2905'	7"	20#			
CASING:	0' - 3430'	4 1/2"	9.5#	Midco-50	LT&C	
TUBING:	0' - 2600'	2 3/8"	4.7#	J-55	8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/50 SXS. TOC @ 280'(calc)

INJECTION INTERVAL: 2650'- 3430'

BAKER AD-1 PACKER @ 2600'

7" CASING SET W/100 SXS. TOC @ 1980'(calc)

PERFORATIONS: 2650'- 3430' (OA)

4 1/2" CASING SET W/200 SXS. TOC @ 1140'(TEMP SURVEY)
TD @ 3430'

**DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

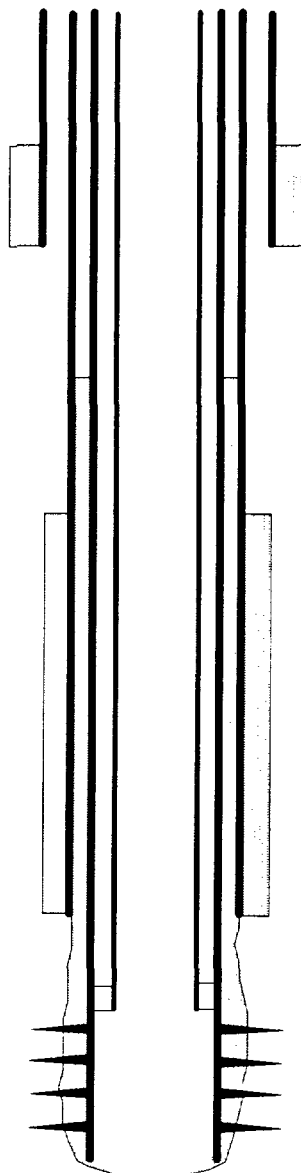
III Well Data:

- A. (1) Turner "B" #5
1980'FSL & 660'FWL
Section 17-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 5/8" 24# @ 525'. Set with 50 sxs. TOC @ 290'(calculated)
Hole Size = 10"(estimated)
- Intermediate Casing:
7" 20# @ 2952'. Set with 100 sxs. TOC @ 2020'(calculated)
Hole Size = 7 7/8"(estimated)
- Production Casing:
4 1/2" 9.5# Midco-50 LT&C @ 3457'. Set with 200 sxs. TOC @ 1780'(Temp Survey)
Hole Size = 6 1/4"(estimated)
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2650'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2650'.
3. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2700'- 3461'(OA). **The injection interval is 2700'- 3461'.**
- (3) This well was originally drilled and completed as a Grayburg/San Andres oil well, but was later converted to a water injection well injecting into the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2700'- 3461' interval.
- (5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #5			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FSL & 660'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3699'; KB=UNK			SPUD DATE: 12/31/41		COMP DATE: 07/10/42	
AFI#: 30-015-05184		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 525'	8 5/8"	24#			
CASING:	0' - 2952'	7"	20#			
CASING:	0' - 3457'	4 1/2"	9.5#	Midco-50	LT&C	
TUBING:	0' - 3304'	2 3/8"	4.7#	J-55	8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/50 SXS. TOC @ 290'(calc)

7" CASING SET W/100 SXS. TOC @ 2020'(calc)

JOHNSON 101-S PACKER @ 3304'

PERFORATIONS: 3346'- 3450' (OA)

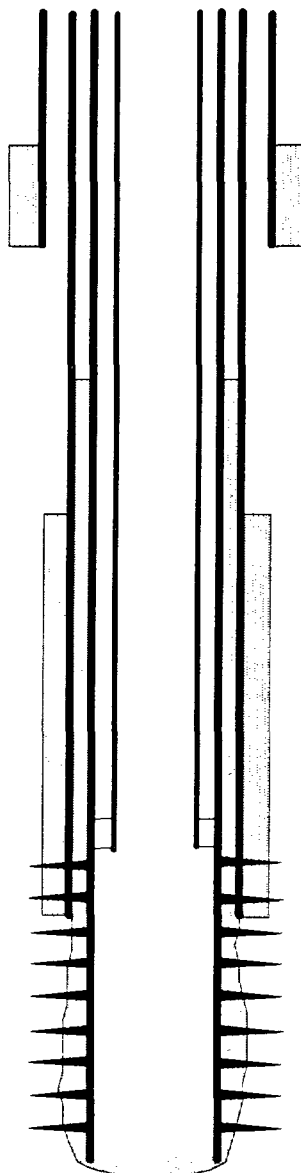
4 1/2" CASING SET W/200 SXS. TOC @ 1780'(TEMP SURVEY)
TD @ 3461'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

III Well Data

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #5			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FSL & 660'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3699'; KB=UNK			SPUD DATE: 12/31/41		COMP DATE: 07/10/42	
API#: 30-015-05184		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 525'	8 5/8"	24#			
CASING:	0' - 2952'	7"	20#			
CASING:	0' - 3457'	4 1/2"	9.5#	Midco-50	LT&C	
TUBING:	0' - 2650'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/50 SXS. TOC @ 290'(calc)

INJECTION INTERVAL: 2700' - 3461'

BAKER AD-1 PACKER @ 2650'

7" CASING SET W/100 SXS. TOC @ 2020'(calc)

PERFORATIONS: 2700' - 3461' (OA)

4 1/2" CASING SET W/200 SXS. TOC @ 1780'(TEMP SURVEY)
TD @ 3461'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

**DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

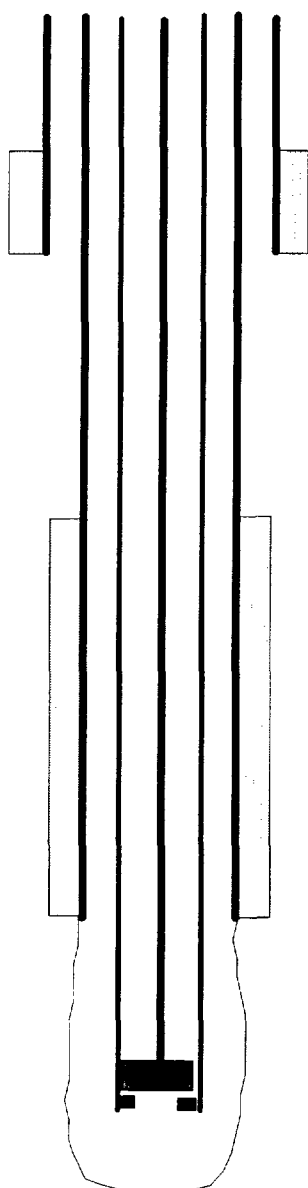
III Well Data:

- A. (1) Turner "B" #7
660'FSL & 1980'FEL
Section 17-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 5/8" 24# @ 550'. Set with 50 sxs. TOC @ 310'(calculated)
Hole Size = 10"(estimated)
- Intermediate Casing:
7" 20# @ 2908'. Set with 100 sxs. TOC @ 1980'(calculated)
Hole Size = 7 7/8"(estimated)
- Production Casing:
4 1/2" 11.6# J-55 LT&C @ 3447'. TOC @ surface.
Hole Size = 6 1/4"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2600'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2600'.
3. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2650'- 3447'(OA). **The injection interval is 2650'- 3447'.**
- (3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2650'- 3447' interval.
- (5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #7			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 1980'FEL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3368'; KB=UNK			SPUD DATE: 02/05/42		COMP DATE: 08/15/42	
API#: 30-015-05185		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 550'	8 5/8"	24#			
CASING:	0' - 2908'	7"	20#			
CASING:						
TUBING:	0' - 3261'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/50 SXS. TOC @ 310'(calc)

SQUEEZE CASING LEAKS 2515'- 2540' W/750 SXS

7" CASING SET W/100 SXS. TOC @ 1980'(calc)

OPEN HOLE COMPLETION: 2908'- 3447'

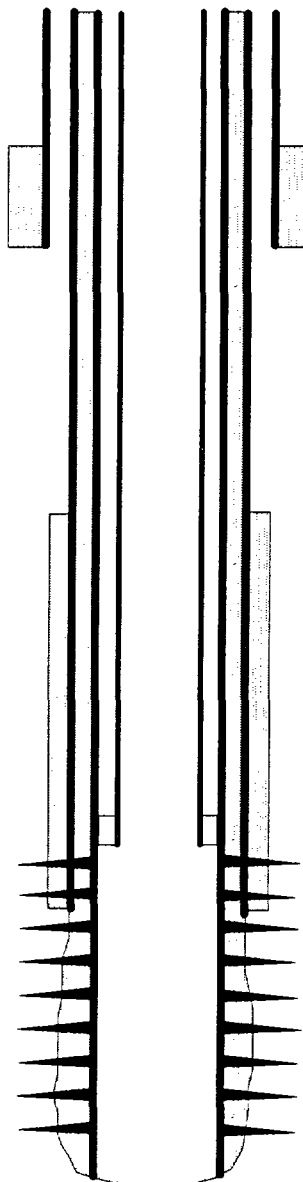
SEAT NIPPLE @ 3261'

TD @ 3447'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #7			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 1980'FEL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3368'; KB=UNK			SPUD DATE: 02/05/42		COMP DATE: 08/15/42	
API#: 30-015-05185		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 550'	8 5/8"	24#			
CASING:	0' - 2908'	7"	20#			
CASING:	0' - 3447'	4 1/2"	11.6#	J-55	LT&C	6 1/4"
TUBING:	0' - 2600'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/50 SXS. TOC @ 310'(calc)

INJECTION INTERVAL: 2650'- 3447'

BAKER AD-1 PACKER @ 2600'

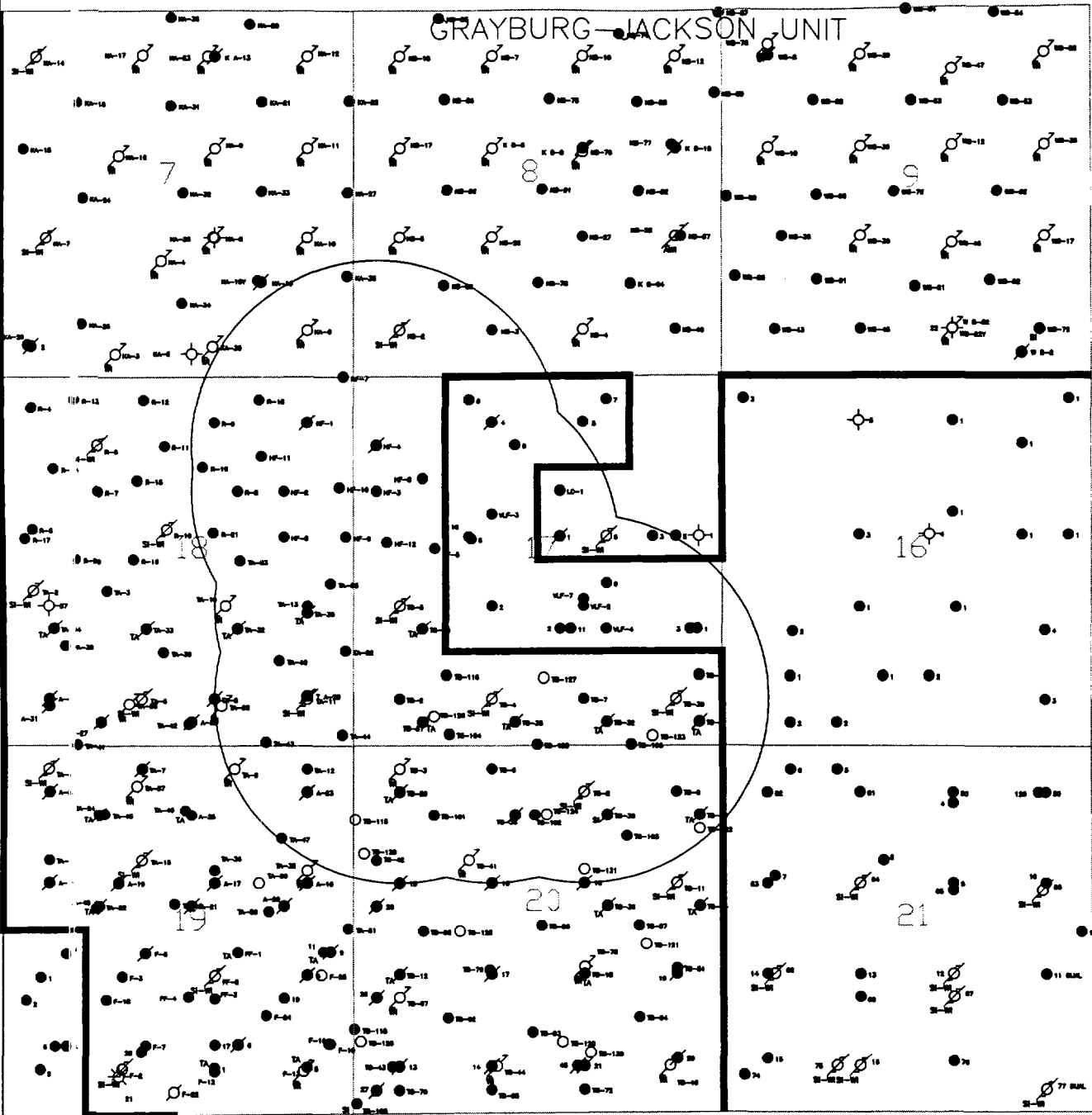
7" CASING SET W/100 SXS. TOC @ 1980'(calc)

PERFORATIONS: 2650'- 3447' (OA)

4 1/2" CASING. TOC @ SURFACE.
TD @ 3447'

R 31 E

GRAYBURG-JACKSON UNIT



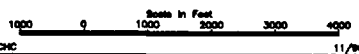
T 17 S



TN-H-HGD

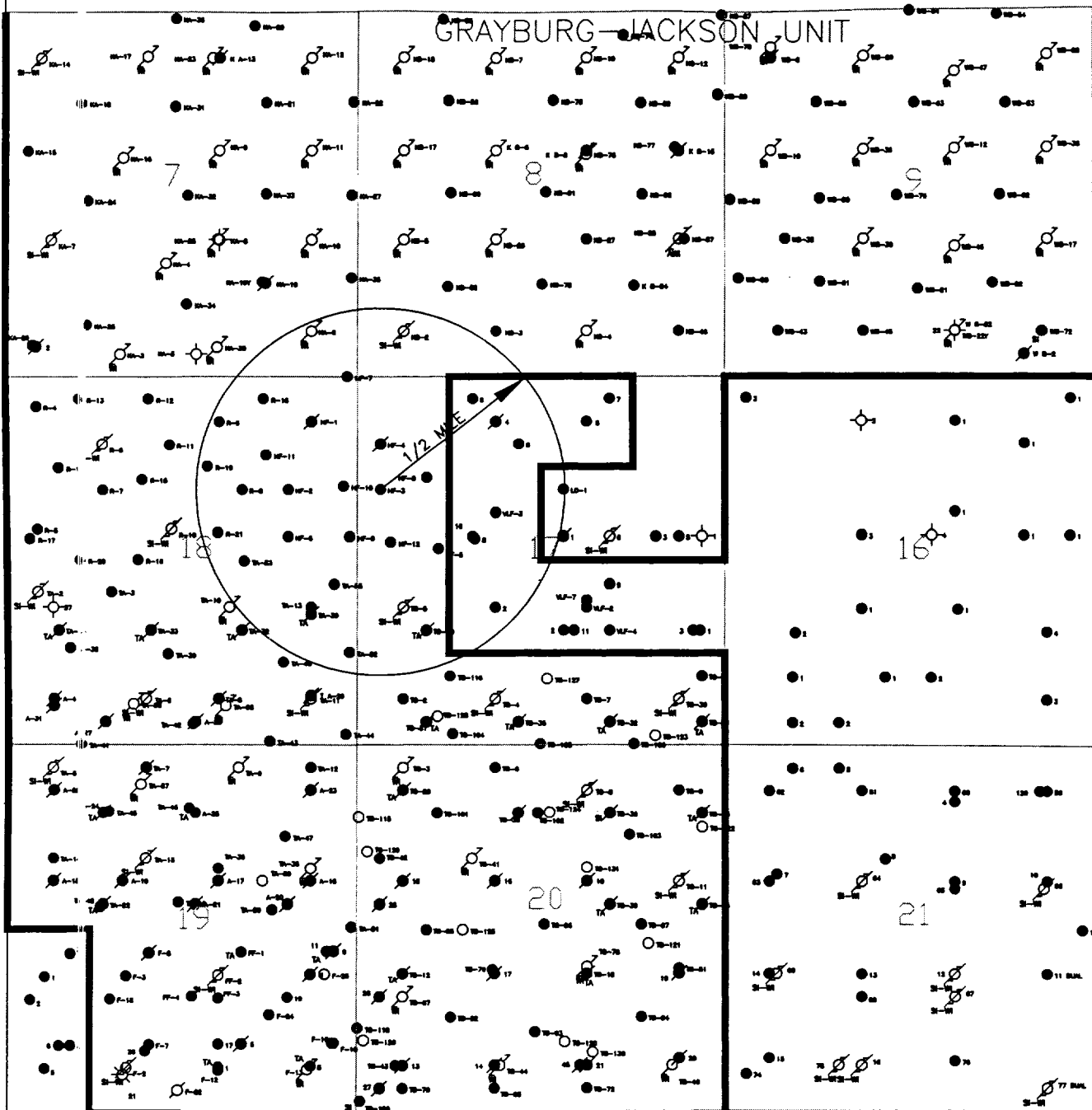
devon

GRAYBURG-JACKSON AREA
EDDY COUNTY, NEW MEXICO



R 31 E

GRAYBURG-JACKSON UNIT



T
17
S



HUD-F-3

devon

GRAYBURG-JACKSON AREA
EDDY COUNTY, NEW MEXICO

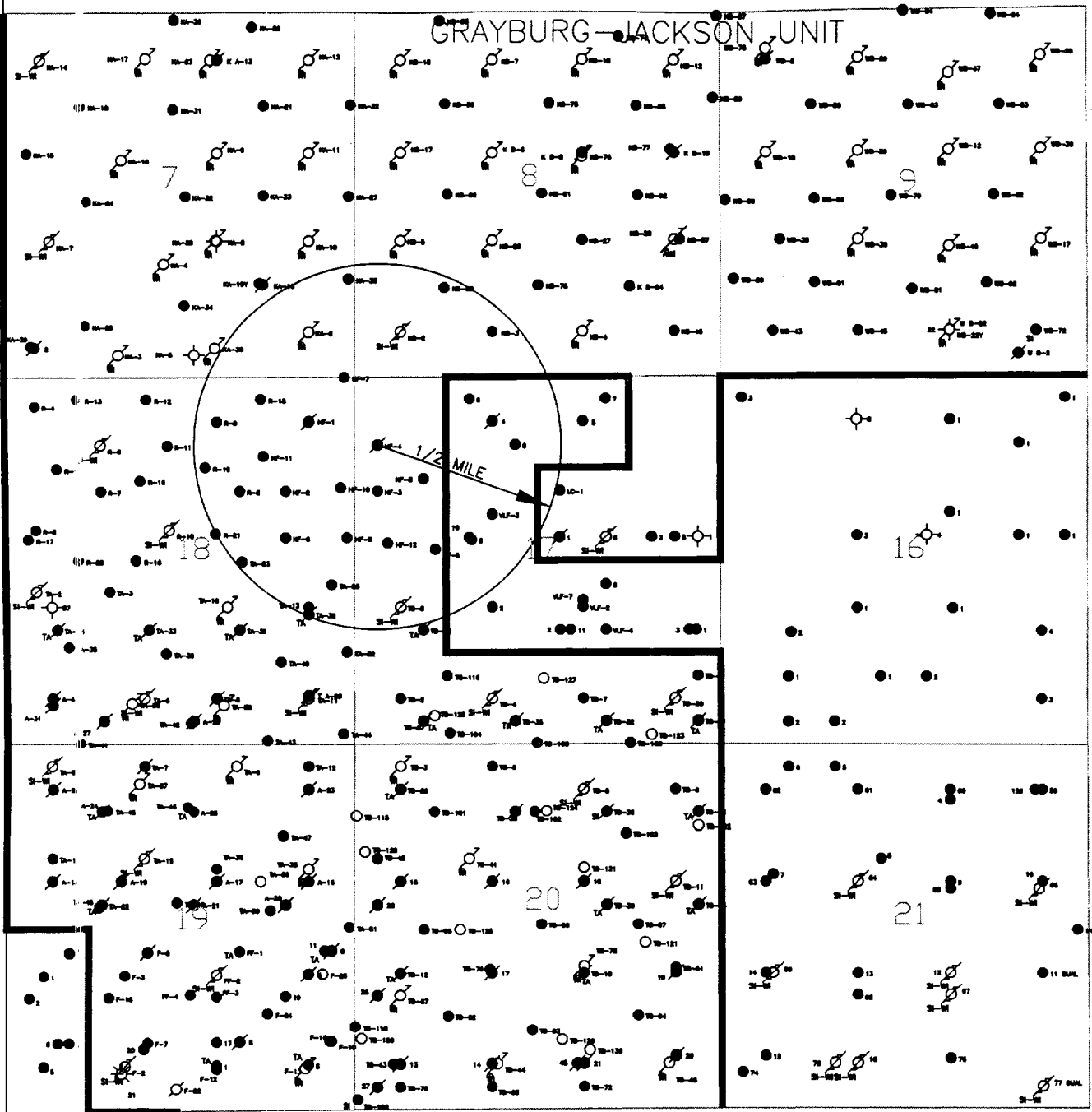
HUDSON FEDERAL #3



R 31 E

GRAYBURG-JACKSON UNIT

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17
S



1000	0	1000	2000	3000	4000
CHC					11/96

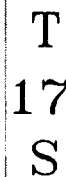


GRAYBURG-JACKSON AREA
EDDY COUNTY, NEW MEXICO

HUDSON FEDERAL #4

Scale in Feet
1000 0 1000 2000 3000 4000
CHC 11/96

GRAYBURG-JACKSON UNIT



1840-25	

devon

GRAYBURG-JACKSON AREA
EDDY COUNTY, NEW MEXICO

HUDSON FEDERAL #5

Scale in Feet

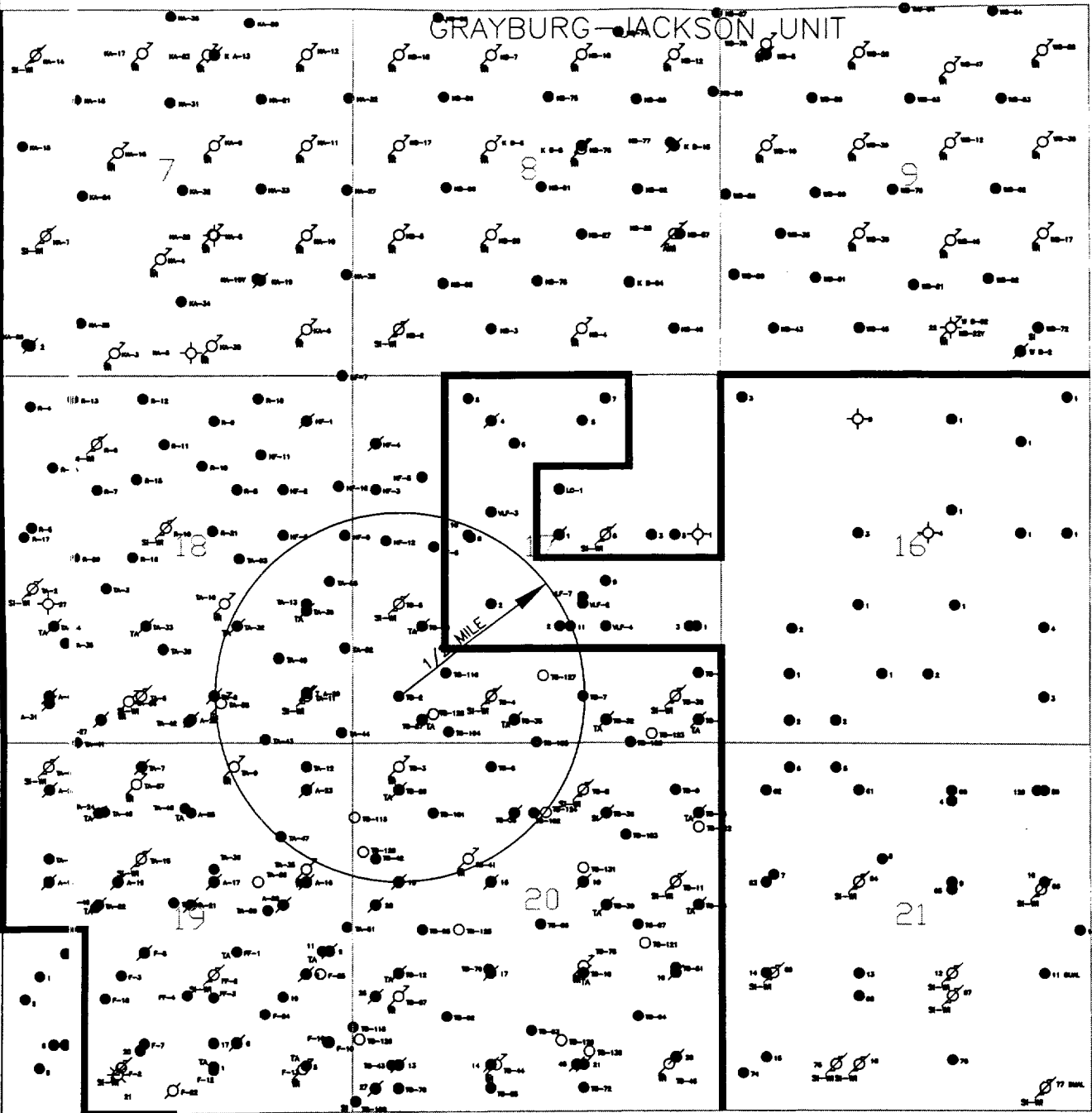
1000 0 1000 2000 3000 4000

CWC 11 A

110

R 31 E

GRAYBURG-JACKSON UNIT



T
17
S



INCHES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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devon

GRAYBURG-JACKSON AREA
EDDY COUNTY, NEW MEXICO

TURNER "B" #2

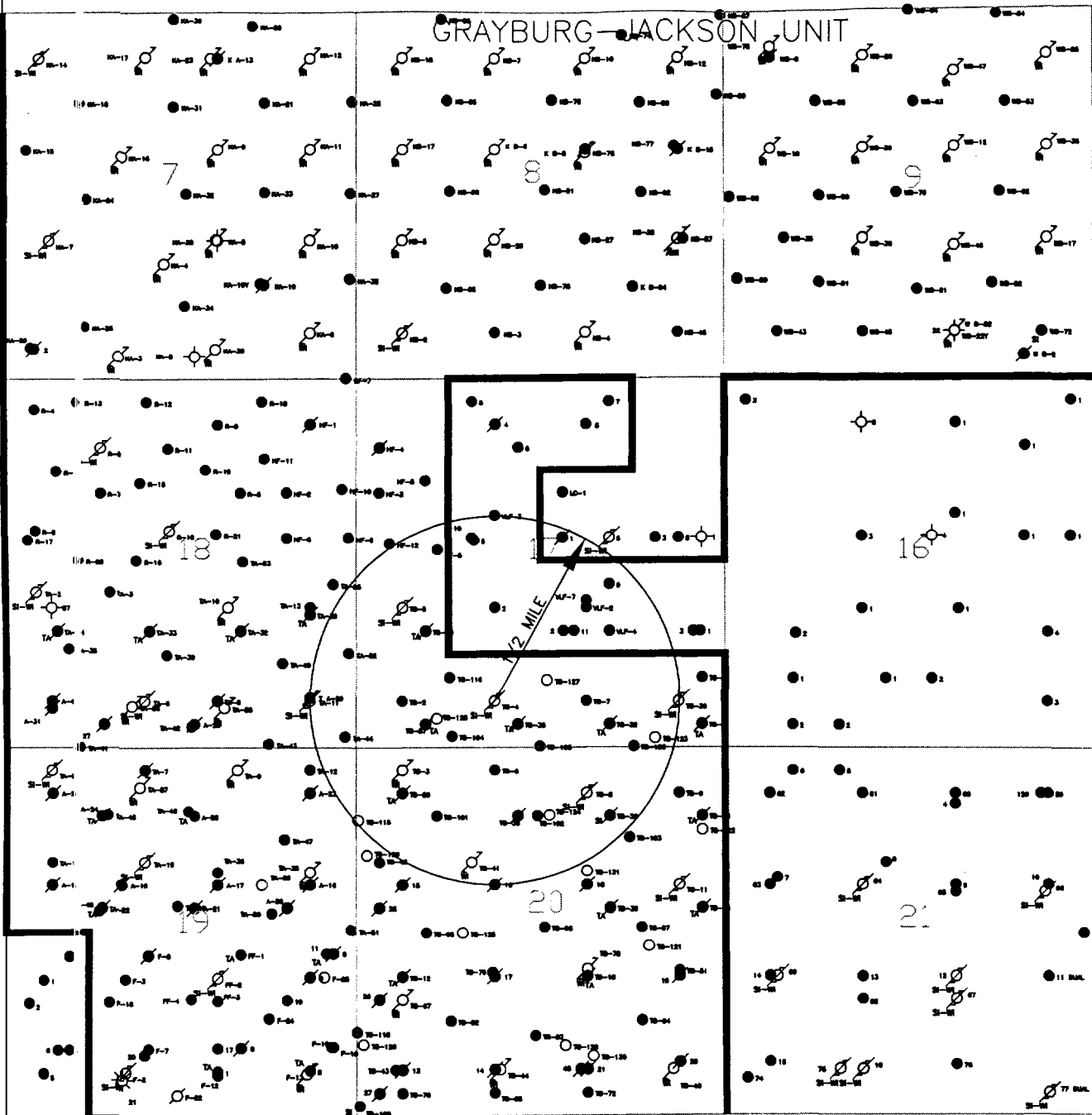
Scale in Feet
1000 0 1000 2000 3000 4000

CNC 11/96

R 31 E

GRAYBURG-JACKSON UNIT

T
17
S



IN-B-4	

GRAYBURG-JACKSON AREA
EDDY COUNTY, NEW MEXICO

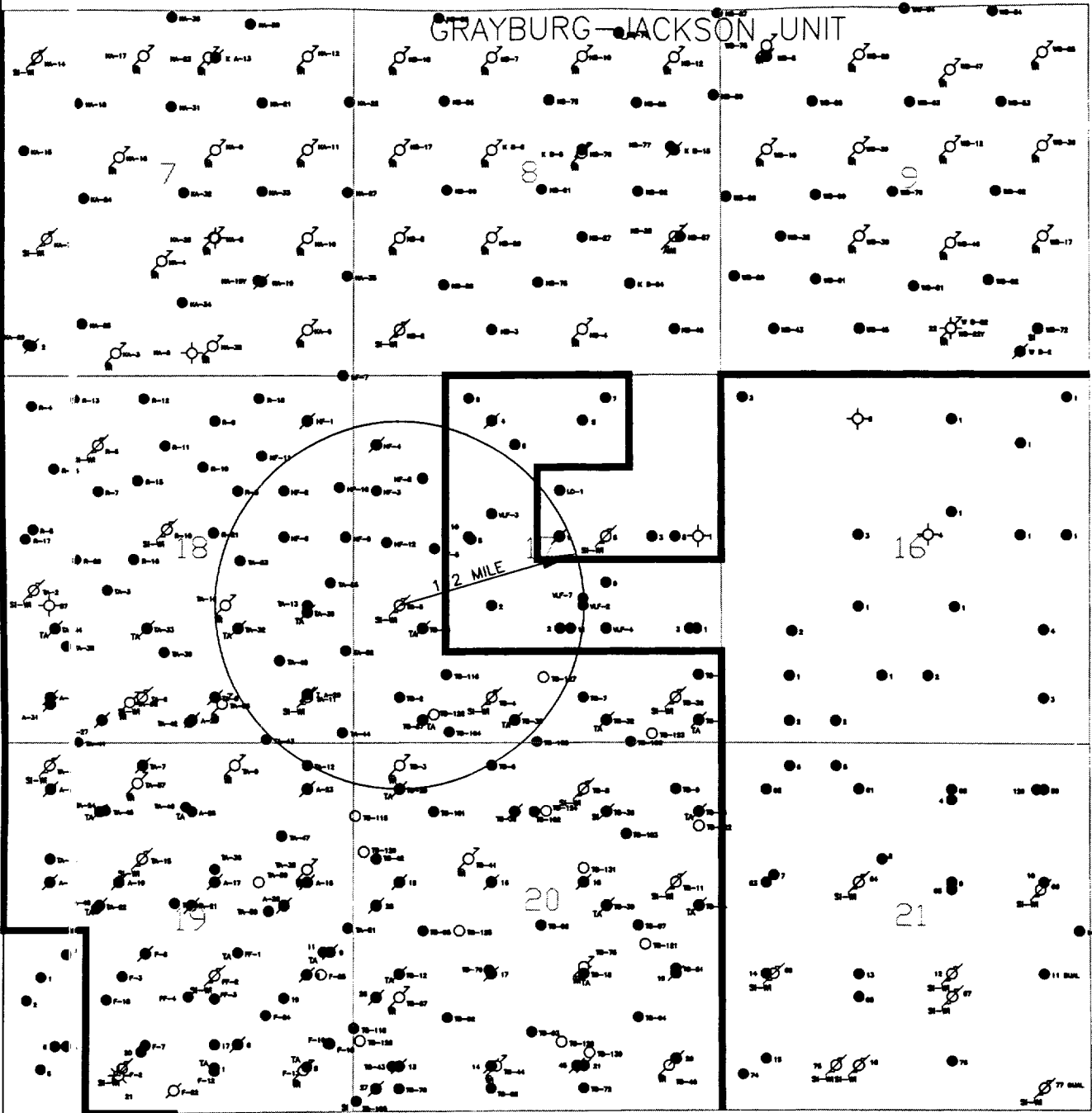
TURNER "B" #4

Scale in Feet
1000 0 1000 2000 3000 4000

CNC 11/98

R 31 E

GRAYBURG-JACKSON UNIT



T
17
S

devon

GRAYBURG-JACKSON AREA
DEW COUNTY, NEW MEXICO

TURNER "B" #5

Scale in Feet
1000 0 1000 2000 3000 4000
CNC 11/98

R 31 E

GRAYBURG-JACKSON UNIT

T
17
S

1/2 MILE

N

TN-B-7	

devon

GRAYBURG-JACKSON AREA
EDDY COUNTY, NEW MEXICO

TURNER "B" #7

Scale in Feet
1000 0 1000 2000 3000 4000
CHC 11/98

WELL LISTING "AREA OF REVIEW"
GRAYBURG-JACKSON WATERFLOOD
V.L. FOSTER LEASE LINE EXTENSION

WELL NAME	LOCATION	OPERATOR	STATUS	REMARKS
Foster, V.L. #2	17-T17S-R31E	Devon Energy Corp.	Active Oil	
Foster, V.L. #3	17-T17S-R31E	Devon Energy Corp.	Inactive Oil	
Foster, V.L. #4	17-T17S-R31E	Devon Energy Corp.	Active Oil	
Foster, V.L. #6	17-T17S-R31E	Devon Energy Corp.	P&A'd	
Foster, V.L. #7	17-T17S-R31E	Devon Energy Corp.	Active Oil	
Hudson Federal #1	18-T17S-R31E	Devon Energy Corp.	P&A'd	
Hudson Federal #2	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Hudson Federal #3	17-T71S-R31E	Devon Energy Corp.	Active Oil	Proposed Injector
Hudson Federal #4	17-T71S-R31E	Devon Energy Corp.	P&A'd	Proposed Injector
Hudson Federal #5	17-T71S-R31E	Devon Energy Corp.	Inactive Oil	Proposed Injector
Hudson Federal #6	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Hudson Federal #8	17-T71S-R31E	Devon Energy Corp.	Active Oil	
Hudson Federal #9	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Hudson Federal #10	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Hudson Federal #11	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Hudson Federal #12	17-T71S-R31E	Devon Energy Corp.	Active Oil	
J.L. Keel "A" #6	7-T17S-R31E	Devon Energy Corp.	Active Oil	
J.L. Keel "A" #35	7-T17S-R31E	Devon Energy Corp.	Active Oil	
J.L. Keel "B" #2	8-T17S-R31E	Devon Energy Corp.	Inactive WIW	
J.L. Keel "B" #3	8-T17S-R31E	Devon Energy Corp.	Inactive Oil	
J.L. Keel "B" #58	8-T17S-R31E	Devon Energy Corp.	Active Oil	
C.A. Russell #8	18-T17S-R31E	Devon Energy Corp.	Active Oil	
C.A. Russell #9	18-T17S-R31E	Devon Energy Corp.	Active Oil	
C.A. Russell #18	18-T17S-R31E	Devon Energy Corp.	Active Oil	
C.A. Russell #19	18-T17S-R31E	Devon Energy Corp.	Active Oil	
C.A. Russell #21	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "A" #3	18-T17S-R31E	Devon Energy Corp.	P&A'd	
Turner "A" #9	19-T17S-R31E	Devon Energy Corp.	Active WIW	
Turner "A" #10	18-T17S-R31E	Devon Energy Corp.	Active WIW	
Turner "A" #11	18-T17S-R31E	Devon Energy Corp.	Inactive WIW	
Turner "A" #12	19-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "A" #13	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "A" #23	19-T17S-R31E	Devon Energy Corp.	P&A'd	
Turner "A" #29	18-T17S-R31E	Devon Energy Corp.	P&A'd	
Turner "A" #30	18-T17S-R31E	Devon Energy Corp.	Inactive Oil	
Turner "A" #32	18-T17S-R31E	Devon Energy Corp.	TA'd	
Turner "A" #40	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "A" #43	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "A" #44	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "A" #47	19-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "A" #52	18-T17S-R31E	Devon Energy Corp.	Inactive Oil	
Turner "A" #53	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "A" #55	18-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #1	17-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #2	17-T17S-R31E	Devon Energy Corp.	Active Oil	Proposed Injector
Turner "B" #3	20-T17S-R31E	Devon Energy Corp.	Active WIW	
Turner "B" #4	17-T17S-R31E	Devon Energy Corp.	Inactive WIW	Proposed Injector
Turner "B" #5	17-T17S-R31E	Devon Energy Corp.	Inactive WIW	Proposed Injector
Turner "B" #6	20-T17S-R31E	Devon Energy Corp.	Active Oil	

WELL LISTING "AREA OF REVIEW"
GRAYBURG-JACKSON WATERFLOOD
V.L. FOSTER LEASE LINE EXTENSION

WELL NAME	LOCATION	OPERATOR	STATUS	REMARKS
Turner "B" #7	17-T17S-R31E	Devon Energy Corp.	Active Oil	Proposed Injector
Turner "B" #8	18-T17S-R31E	Devon Energy Corp.	Inactive WIW	
Turner "B" #9	20-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #15	20-T17S-R31E	Devon Energy Corp.	P&A'd	
Turner "B" #16	20-T17S-R31E	Devon Energy Corp.	P&A'd	
Turner "B" #29	20-T17S-R31E	Devon Energy Corp.	P&A'd	
Turner "B" #30	17-T17S-R31E	Devon Energy Corp.	Inactive WIW	
Turner "B" #31	17-T17S-R31E	Devon Energy Corp.	TA'd	
Turner "B" #32	17-T17S-R31E	Devon Energy Corp.	TA'd	
Turner "B" #33	20-T17S-R31E	Devon Energy Corp.	Inactive Oil	
Turner "B" #35	17-T17S-R31E	Devon Energy Corp.	TA'd	
Turner "B" #36	20-T17S-R31E	Devon Energy Corp.	TA'd	
Turner "B" #37	17-T17S-R31E	Devon Energy Corp.	Inactive Oil	
Turner "B" #38	20-T17S-R31E	Devon Energy Corp.	TA'd	
Turner "B" #40	17-T17S-R31E	Devon Energy Corp.	Inactive Oil	
Turner "B" #41	20-T17S-R31E	Devon Energy Corp.	Active WIW	
Turner "B" #42	20-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #101	20-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #102	20-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #103	20-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #104	17-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #105	17-T17S-R31E	Devon Energy Corp.	P&A'd	
Turner "B" #106	17-T17S-R31E	Devon Energy Corp.	Active Oil	
Turner "B" #116	17-T17S-R31E	Devon Energy Corp.	Active Oil	
		OUTSIDE OPERATED		
Foster A #5	17-T17S-R31E	Weier Drilling Company	P&A'd	
Foster-Eddy Federal #2	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #3	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #4	17-T17S-R31E	Oryx Energy Company	P&A'd	
Foster-Eddy Federal #6	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #8	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #9	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #10	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #11	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster Federal #8	17-T17S-R31E	Weier Drilling Company	P&A'd	
Foster, V.L. #1	17-T17S-R31E	Sun Oil Company	P&A'd	
Last Chance Federal #1	17-T17S-R31E	Ray Westall	Inactive Oil	
Superior Federal #1	17-T17S-R31E	Trinity Univ. & Closuit	Inactive Oil	
Superior Federal #2	17-T17S-R31E	Trinity Univ. & Closuit	Active Oil	
Superior Federal #3	17-T17S-R31E	Trinity Univ. & Closuit	Active Oil	

VI Wells Within "Area Of Review"

<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>
FOSTER, V.L. #2	1650FSL & 2310FEL SEC 17-T17S-R31E EDDY COUNTY, NM	9/2/49	10/15/49	OIL PRODUCER	2081'/2081'	8 5/8" @ 506' W/50 SXS 7" @ 1935' W/50 SXS OPEN HOLE COMPLETION: 1935' - 2081' IP=16 BOPD
FOSTER, V.L. #3	2310FNL & 990FEL SEC 17-T17S-R31E EDDY COUNTY, NM	10/6/49	12/8/49	OIL PRODUCER	3504'/3504'	8 5/8" @ 515' W/50 SXS 7" @ 2855' W/50 SXS OPEN HOLE COMPLETION: 2855' - 3504' IP=35 BOPD
FOSTER, V.L. #4	1650FSL & 1650FEL SEC 17-T17S-R31E EDDY COUNTY, NM	12/15/49	1/28/50	OIL PRODUCER	2029'/2029'	8 5/8" @ 501' W/50 SXS 7" @ 1956' W/150 SXS OPEN HOLE COMPLETION: 1956' - 2029' IP=22 BOPD
FOSTER, V.L. #6	2310FNL & 1650FEL SEC 17-T17S-R31E EDDY COUNTY, NM	10/26/50	1/2/51	OIL PRODUCER	2202'/2202'	8 1/4" @ 511' W/50 SXS 7" @ 1956' W/150 SXS OPEN HOLE COMPLETION: 1995' - 2202' IP=15 BOPD DEEPEN OPEN HOLE TO 3467' 4 1/2" @ 2862' W/50 SXS OPEN HOLE COMPLETION: 2862' - 3467' - RETURN TO PRODUCTION CONVERT TO WATER INJECTION WELL PLUGGED & ABANDONED
FOSTER, V.L. #7	2080FSL & 1980FEL SEC 17-T17S-R31E EDDY COUNTY, NM	10/9/51	11/15/51	OIL PRODUCER	2042'/2042'	8 5/8" @ 511' W/50 SXS 5 1/2" @ 1983' W/100 SXS OPEN HOLE COMPLETION: 1983' - 2042' IP=14 BOPD

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HUDSON FEDERAL #1	660FNL & 660FEL SEC 18-T17S-R31E EDDY COUNTY, NM	1/24/39	5/20/39	OIL PRODUCER	3533'/3533'	8 5/8" @ 570' W/50 SXS 7" @ 2795' W/100 SXS OPEN HOLE COMPLETION: 2795' - 3533' IP=40 BOPD CONVER TO WATER INJECTION WELL RETURN WELL TO PRODUCTION PLUGGED & ABANDONED
			8/10/67 1/18/71 12/17/80	WATER INJECTOR OIL PRODUCER		
HUDSON FEDERAL #2	1650FNL & 990FEL SEC 18-T17S-R31E EDDY COUNTY, NM	8/22/39	10/27/39	OIL PRODUCER	3501'/3501'	9" @ 635' W/50 SXS 7" @ 2770' W/100 SXS OPEN HOLE COMPLETION: 2770' - 3501' IP=100 BOPD
HUDSON FEDERAL #3	1650FNL & 330FWL SEC 17-T17S-R31E EDDY COUNTY, NM	4/4/41	6/14/41	OIL PRODUCER	3497'/3497'	8 1/4" @ 636' W/50 SXS 7" @ 2780' W/100 SXS OPEN HOLE COMPLETION: 2780' - 3497' IP=100 BOPD
HUDSON FEDERAL #4	990FNL & 330FWL SEC 17-T17S-R31E EDDY COUNTY, NM	11/8/41	1/21/42	OIL PRODUCER	3500'/3500'	8 1/4" @ 636' W/50 SXS 7" @ 2803' W/100 SXS OPEN HOLE COMPLETION: 2803' - 3500' IP=52 BOPD PLUGGED & ABANDONED
HUDSON FEDERAL #5	2480FNL & 1160FWL SEC 17-T17S-R31E EDDY COUNTY, NM	7/26/67	8/10/67	WATER INJECTOR	3510'/3498'	8 5/8" @ 500' W/200 SXS. CEMENT TO SURFACE. 4 1/2" @ 3510' W/225 SXS PERFORATE: 3402' - 3490'(OA) COMPLETED AS WATER INJECTION WELL PERFORATE: 3168' - 3287'(OA) - CONVERT TO OIL PRODUCER IP=110 BOPD
HUDSON FEDERAL #6	2310FNL & 990FEL SEC 18-T17S-R31E EDDY COUNTY, NM	11/23/88	12/12/88	OIL PRODUCER	3505'/3505'	8 5/8" @ 373' W/275 SXS. CEMENT TO SURFACE. 5 1/2" @ 3505' W/1700 SXS. CEMENT TO SURFACE. PERFORATE: 2780' - 3490'(OA) IP=187 BOPD

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HUDSON FEDERAL #8	1475FNL & 990FWL SEC 17-T17S-R31E EDDY COUNTY, NM	5/10/96	6/1/96	OIL PRODUCER	3670'/3822'	8 5/8" @ 420' W/375 SXS. CEMENT TO SURFACE. 5 1/2" @ 3869' W/1450 SXS. TOC @ 175(CBL) PERFORATE: 2852 - 3488(OA) IP=151 BOPD
HUDSON FEDERAL #9	2310FNL & 110FEL SEC 18-T17S-R31E EDDY COUNTY, NM	3/1/96	5/3/96	OIL PRODUCER	3610'/3762'	8 5/8" @ 437' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3809' W/1100 SXS. CEMENT TO SURFACE. PERFORATE: 2806 - 3717(OA) IP=131 BOPD
HUDSON FEDERAL #10	1600FNL & 200FEL SEC 18-T17S-R31E EDDY COUNTY, NM	2/23/96	3/21/96	OIL PRODUCER	3650'/3804'	8 5/8" @ 429' W/675 SXS. CEMENT TO SURFACE. 5 1/2" @ 3849' W/1075 SXS. CEMENT TO SURFACE. PERFORATE: 2776 - 3483(OA) IP=275 BOPD
HUDSON FEDERAL #11	1150FNL & 1310FEL SEC 18-T17S-R31E EDDY COUNTY, NM	5/27/96	7/23/96	OIL PRODUCER	3600'/3754'	8 5/8" @ 432' W/680 SXS. CEMENT TO SURFACE. 5 1/2" @ 3799' W/875 SXS. CEMENT TO SURFACE. PERFORATE: 2799 - 3430(OA) IP=44 BOPD
HUDSON FEDERAL #12	2390FNL & 475FWL SEC 17-T17S-R31E EDDY COUNTY, NM	4/1/96	5/24/96	OIL PRODUCER	3652'/3806'	8 5/8" @ 433' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3851' W/1150 SXS. CEMENT TO SURFACE. PERFORATE: 2834 - 3732(OA) IP=181 BOPD
J.L. KEEL "A" #6	660FSL & 660FEL SEC 7-T17S-R31E EDDY COUNTY, NM	3/21/44	6/5/44	OIL PRODUCER	3485'/3485'	8 5/8" @ 514' W/75 SXS 7" 3141' W/100 SXS OPEN HOLE COMPLETION: 3141' - 3485' IP=30 BOPD
J.L. KEEL "A" #35	1430FSL & 90FEL SFC 7-T17S-R31E EDDY COUNTY, NM	10/1/95	2/28/68 9/28/70 11/1/95	OIL PRODUCER	4060'/4011'	PERFORATE: 3063 - 3076(OA) - RETURN TO PRODUCTION PERFORATE: 2843 - 3049(OA) - RETURN TO PRODUCTION 13 3/8" @ 437' W/575 SXS. CEMENT TO SURFACE. 5 1/2" @ 4050' W/1450 SXS. CEMENT TO SURFACE PERFORATE: 2841' - 3613(OA) IP=125 BOPD

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J.L. KEEL "B" #2	660FSL & 660FWL SEC 8-T17S-R31E EDDY COUNTY, NM	7/15/44	10/13/44	OIL PRODUCER	3482/3482'	8 5/8" @ 524' W/75 SXS 7" @ 2850' W/100 SXS OPEN HOLE COMPLETION: 2850' - 3485' IP=40 BOPD DEEPEN OPEN HOLE TO 3620' 4 1/2" LINER @ 2752' - 3618' W/140 SXS PERFORATE: 2914' - 3555'(OA) - CONVERT TO WATER INJECTION WELL
J.L. KEEL "B" #3	660FSL & 1980FWL SEC 8-T17S-R31E EDDY COUNTY, NM	10/30/44	1/12/45	OIL PRODUCER	3490/3490'	8 5/8" @ 518' W/50 SXS 7" @ 2930' W/100 SXS OPEN HOLE COMPLETION: 2930' - 3490' IP=24 BOPD DEEPEN OPEN HOLE TO 3630' - RETURN TO PRODUCTION
J.L. KEEL "B" #58	1300FSL & 1290FWL SEC 8-T17S-R31E EDDY COUNTY, NM	1/10/95	3/12/95	OIL PRODUCER	4020/3973'	8 5/8" @ 463' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 4020' W/1075 SXS. CEMENT TO SURFACE. PERFORATE: 2963' - 3741'(OA) IP=31 BOPD
C.A. RUSSELL #8	1650FNL & 1650FWL SEC 18-T17S-R31E EDDY COUNTY, NM	2/23/40	4/26/40	OIL PRODUCER	3497/3497'	10 3/4" @ 600' W/50 SXS 7" @ 2880' W/100 SXS OPEN HOLE COMPLETION: 2880' - 3497' IP=250 BOPD TEMPORARILY ABANDONED
C.A. RUSSELL #9	660FNL & 1980FEL SEC 18-T17S-R31E EDDY COUNTY, NM	5/4/40	7/11/40	OIL PRODUCER	3495/3495'	8 5/8" @ 598' W/50 SXS 7" @ 2850' W/100 SXS OPEN HOLE COMPLETION: 2850' - 3495' IP=51 BOPD 4 1/2" @ 3484' W/250 SXS. TOC @ 1620'(TEMP SURVEY) PERFORATE: 3410' - 3465'(OA) - RETURN TO PRODUCTION PERFORATE: 2941' - 3110'(OA) - RETURN TO PRODUCTION
					3495/3483'	

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C.A. RUSSELL #18	330'FNL & 1350'FEL SEC 18-T17S-R31E EDDY COUNTY, NM	2/5/96	3/15/96	OIL PRODUCER	3800'/3751'	13 3/8" @ 306' W/925 SXS. CEMENT TO SURFACE. 5 1/2" @ 3799' W/1500 SXS. CEMENT TO SURFACE. PERFORATE: 2808'- 3737'(OA) IP=158 BOPD
C.A. RUSSELL #19	1310'FNL & 2150'FEL SEC 18-T17S-R31E EDDY COUNTY, NM	5/2/96	5/26/96	OIL PRODUCER	3820'/3778'	8 5/8" @ 386' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3819' W/975 SXS. CEMENT TO SURFACE. PERFORATE: 2761'- 3712'(OA) IP=136 BOPD
C.A. RUSSELL #21	2250'FNL & 2000'FEL SEC 18-T17S-R31E EDDY COUNTY, NM	4/25/96	5/18/96	OIL PRODUCER	3800'/3752'	8 5/8" @ 393' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3799' W/1225 SXS. CEMENT TO SURFACE. PERFORATE: 2753'- 3463'(OA) IP=216 BOPD
TURNER "A" #8	660'FSL & 1980'FEL SEC 18-T17S-R31E EDDY COUNTY, NM	7/23/40	1/13/41	OIL PRODUCER	3448'/3448'	8" @ 550' W/50 SXS 7" @ 2918' W/100 SXS OPEN HOLE COMPLETION: 2918'- 3448' IP=480 BOPD DEEPEEN OPEN HOLE TO 3598' & PLUG BACK TO 3462'. RETURN TO PRODUCTION PLUGGED & ABANDONED
TURNER "A" #9	330'FNL & 1980'FEL SEC 19-T17S-R31E EDDY COUNTY, NM	8/8/40	1/17/41	OIL PRODUCER	3423'/3423'	8" @ 545' W/50 SXS 7" @ 2914' W/100 SXS OPEN HOLE COMPLETION: 2914'- 3423' IP=110 BOPD CONVRT TO WATER INJECTION WELL 4 1/2" @ 3422' W/200 SXS. TOC @ 1220'(TEMP SURVEY) PERFORATE: 3348'- 3415'(OA) - RETURN TO INJECTION
				WATER INJECTOR	3423'/3418'	

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TURNER "A" #10	1980FSL & 1830FEL SEC 18-T17S-R31E EDDY COUNTY, NM	2/2/41	4/16/41	OIL PRODUCER	3465'/3465'	8 5/8" @ 554' W/50 SXS 7" @ 2980' W/100 SXS OPEN HOLE COMPLETION: 2980' - 3465' IP=360 BOPD CONVERT TO WATER INJECTION WELL 4 1/2" @ 3463' W/200 SXS. TOC @ 1340'(TEMP SURVEY) PERFORATE: 3342' - 3453'(OA) - RETURN TO INJECTION
TURNER "A" #11	660FSL & 660FEL SEC 18-T17S-R31E EDDY COUNTY, NM	1/27/41	8/1/41	OIL PRODUCER	3399'/3399'	8 5/8" @ 552' W/50 SXS 7" @ 2950' W/100 SXS OPEN HOLE COMPLETION: 2950' - 3390' IP=250 BOPD DEEPEN OPEN HOLE TO 3451' - RETURN TO PRODUCTION CONVERT TO WATER INJECTION WELL 4 1/2" @ 3451' W/200 SXS. TOC @ 800'(TEMP SURVEY) PERFORATE: 3330' - 3437'(OA) - RETURN TO INJECTION
TURNER "A" #12	330FNL & 660FEL SEC 19-T17S-R31E EDDY COUNTY, NM	6/14/41	8/1/41	OIL PRODUCER	3399'/3399'	8 5/8" @ 512' W/50 SXS 7" @ 2960' W/100 SXS OPEN HOLE COMPLETION: 2960' - 3399' IP=250 BOPD DEEPEN OPEN HOLE TO 3437' - RETURN TO PRODUCTION PERFORATE & SQUEEZE 2510' - 2512' W/400 SXS - RETURN TO PRODUCTION SQUEEZE CASINL LEAK @ 2516' W/690 SXS - RETURN TO PRODUCTION
TURNER "A" #13	1980FSL & 660FEL SEC 18-T17S-R31E EDDY COUNTY, NM	9/14/41	11/16/41	OIL PRODUCER	3458'/3458'	8 5/8" @ 515' W/50 SXS 7" @ 2910' W/100 SXS OPEN HOLE COMPLETION: 2910' - 3458' IP=125 BOPD SQUEEZE CASING LEAKS @ 2528', 2532' & 2535' W/750 SXS RETURN TO PRODUCTION
			5/22/84			

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TURNER "A" #23	660FNL & 660FEL SEC 19-T17S-R31E EDDY COUNTY, NM	11/23/48	2/8/49	OIL PRODUCER	1967'/1967'	8 5/8" @ 512' W/25 SXS 5 1/2" @ 1880' W/100 SXS OPEN HOLE COMPLETION: 1880' - 1967' IP=15 BOPD PLUGGED & ABANDONED
TURNER "A" #29	705FSL & 660FEL SEC 18-T17S-R31E EDDY COUNTY, NM	5/4/53	6/4/53	OIL PRODUCER	1977'/1977'	9 5/8" @ 556' W/50 SXS 7" @ 1910' W/100 SXS 5 1/2" LINER @ 1899' - 1977' (LANDED, NOT CEMENTED) PERFORATE: 1932' - 1977'(OA) IP=20 BOPD PLUGGED & ABANDONED
TURNER "A" #30	1880FSL & 660FEL SEC 18-T17S-R31E EDDY COUNTY, NM	3/26/53	4/28/53	OIL PRODUCER	1969'/1969'	8 5/8" @ 530' W/50 SXS 7" @ 1910' W/100 SXS 5 1/2" LINER @ 1882' - 1969' (LANDED, NOT CEMENTED) PERFORATE: 1927' - 1969'(OA) IP=25 BOPD
TURNER "A" #32	1650FSL & 1650FEL SEC 18-T17S-R31E EDDY COUNTY, NM	7/22/53	8/19/53	OIL PRODUCER	1965'/1965'	9 5/8" @ 530' W/50 SXS 7" @ 1895' W/100 SXS 5 1/2" LINER @ 1885' - 1965' (LANDED, NOT CEMENTED) PERFORATE: 1920' - 1965'(OA) IP=30 BOPD PLUG BACK TO 1825' W/4350# SAND & 30 SXS CEMENT TEMPORARILY ABANDONED
TURNER "A" #40	1191FSL & 1056FEL SEC 18-T17S-R31E EDDY COUNTY, NM	3/5/96	4/19/96	OIL PRODUCER	3810'/3763'	8 5/8" @ 420' W/585 SXS. CEMENT TO SURFACE. 5 1/2" @ 3809' W/1300 SXS. TOC @ 150'(CBL) PERFORATE: 2735' - 3706'(OA) IP=208 BOPD
TURNER "A" #43	50FSL & 1250FEL SEC 18-T17S-R31E EDDY COUNTY, NM	3/13/96	4/19/96	OIL PRODUCER	3785'/3741'	8 5/8" @ 425' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3783' W/1495 SXS. CEMENT TO SURFACE PERFORATE: 2711' - 3435'(OA) IP=273 BOPD

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TURNER "A" #44	150FSL & 160FEL SEC 18-T17S-R31E EDDY COUNTY, NM	3/8/96	4/6/96	OIL PRODUCER	3760'/3701'	8 5/8" @ 396' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3747' W/1605 SXS. CEMENT TO SURFACE. PERFORATE: 2729' - 3672'(OA) IP=115 BOPD
TURNER "A" #47	1330FNL & 1025FEL SEC 19-T17S-R31E EDDY COUNTY, NM	5/7/96	6/1/96	OIL PRODUCER	3743'/3693'	8 5/8" @ 392' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3742' W/1875 SXS. CEMENT TO SURFACE. PERFORATE: 2690' - 3429'(OA) IP=382 BOPD
TURNER "A" #52	1335FSL & 110FEL SEC 18-T17S-R31E EDDY COUNTY, NM	3/25/96	5/8/96	OIL PRODUCER	3795'/3300'	8 5/8" @ 399' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3794' W/1200 SXS. CEMENT TO SURFACE. PERFORATE: 3364' - 3442'(OA) SET CIBP @ 3320' & CAP W/20' CEMENT. PERFORATE: 2756' - 3232'(OA) PRODUCED 100% WATER - SHUT WELL IN
TURNER "A" #53	2630FSL & 1620FEL SEC 18-T17S-R31E EDDY COUNTY, NM	2/8/96	3/20/96	OIL PRODUCER	3780'/3733'	8 5/8" @ 380' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3779' W/925 SXS. CEMENT TO SURFACE. PERFORATE: 2788' - 3645'(OA) IP=272 BOPD
TURNER "A" #55	2307FSL & 330FEL SEC 18-T17S-R31E EDDY COUNTY, NM	6/4/96	7/4/96	OIL PRODUCER	3770'/3727'	8 5/8" @ 464' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3769' W/1000 SXS. CEMENT TO SURFACE. PERFORATE: 2711' - 3691'(OA) IP=140 BOPD
TURNER "B" #1	990FSL & 330FEL SEC 17-T17S-R31E EDDY COUNTY, NM	8/25/38	11/21/38	OIL PRODUCER	3530'/3530'	8 5/8" @ 595' W/50 SXS 5 3/16" @ 2925' W/100 SXS OPEN HOLE COMPLETION: 2925' - 3530' IP=35 BOPD
TURNER "B" #2	660FSL & 660FWL SEC 17-T17S-R31E EDDY COUNTY, NM	4/12/41	6/6/41	OIL PRODUCER	3448'/3448'	8 5/8" @ 554' W/50 SXS 7" @ 2925' W/100 SXS OPEN HOLE COMPLETION: 2935' - 3448' IP=275 BOPD

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TURNER "B" #3	330FNL & 660FWL SEC 20-T17S-R31E EDDY COUNTY, NM	6/27/41	8/16/41	OIL PRODUCER	3432'/3432'	8 5/8" @ 535' W/50 SXS 7" @ 2890' W/100 SXS OPEN HOLE COMPLETION: 2890'- 3432' IP=315 BOPD CONVERTED TO WATER INJECTION WELL 4 1/2" @ 3432' W/200 SXS. TOC @ 490'(TEMP SURVEY) PERFORATE: 3300'- 3424'(OA) - RETURN TO INJECTION
TURNER "B" #4	660FSL & 1980FWL SEC 17-T17S-R31E EDDY COUNTY, NM	9/27/41	12/29/67	WATER INJECTOR	3432'/3428'	
			12/21/69			
TURNER "B" #4	660FSL & 1980FWL SEC 17-T17S-R31E EDDY COUNTY, NM	9/27/41	12/1/41	OIL PRODUCER	3430'/3430'	8 5/8" @ 518' W/50 SXS 7" @ 2905' W/100 SXS OPEN HOLE COMPLETION: 2905'- 3430' IP=150 BOPD 4 1/2" @ 3430' W/200 SXS. TOC @ 1140'(TEMP SURVEY) PERFORATE: 3320'- 3422'(OA) - CONVERT TO WATER INJECTION WELL
			1/13/70	WATER INJECTOR		
TURNER "B" #5	1980FSL & 660FWL SEC 17-T17S-R31E EDDY COUNTY, NM	12/31/41	7/10/42	OIL PRODUCER	3461'/3461'	8 5/8" @ 525' W/50 SXS 7" @ 2952' W/100 SXS OPEN HOLE COMPLETION: 2952'- 3461' IP=130 BOPD 4 1/2" @ 3456' W/150 SXS. TOC @ 1780'(TEMP SURVEY) PERFORATE: 3346'- 3450'(OA) - CONVERT TO WATER INJECTION WELL
			12/22/69	WATER INJECTOR	3461'/3456'	
TURNER "B" #6	330FNL & 1980FWL SEC 20-T17S-R31E EDDY COUNTY, NM	1/12/42	8/15/42	OIL PRODUCER	3447'/3447'	8 5/8" @ 528' W/50 SXS 7" @ 2903' W/100 SXS OPEN HOLE COMPLETION: 2903'- 3447' IP=240 BOPD PERFORATE: 2879'- 2885'(OA) - RETURN TO PRODUCTION
			8/1/55			
TURNER "B" #7	660FSL & 1980FEL SEC 17-T17S-R31E EDDY COUNTY, NM	5/2/42	8/15/42	OIL PRODUCER	3447'/3447'	8 5/8" @ 550' W/50 SXS 7" @ 2908' W/100 SXS OPEN HOLE COMPLETION: 2908'- 3447' IP=120 BOPD SQUEEZE CASING LEAK @ 2540' W/500 SXS - RETURN TO PRODUCTION CONVERTED CASING LEAK OFF: 2558' W/500 SXS - RETURN TO PRODUCTION
			10/2/74			
			10/2/74			
			10/26/78			

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TURNER "B" #8	660FNL & 1980FEL SEC 20-T17S-R31E EDDY COUNTY, NM	6/30/42	10/10/42	OIL PRODUCER	3434/3434'	8 1/4" @ 542' W/50 SXS 7" @ 2802' W/100 SXS OPEN HOLE COMPLETION: 2802'- 3434' IP=270 BOPD
			1/3/68 12/27/69	WATER INJECTOR	3450/3449'	CONVERT TO WATER INJECTOR DEEPEN OPEN HOLE TO 3450' 4 1/2" @ 3450' W/200 SXS. TOC @ 1490'(TEMP SURVEY) PERFORATE: 3318'- 3448'(OA) - RETURN TO INJECTION
			10/14/42	OIL PRODUCER	3485/3485'	8 1/4" @ 557' W/50 SXS 7" @ 2832' W/100 SXS OPEN HOLE COMPLETION: 2832'- 3485' IP=130 BOPD 5" LINER @ 2758'- 3485' PERFORATE: 2929'- 2970'(OA) - RETURN TO PRODUCTION PERFORATE: 3402'- 3448'(OA) - RETURN TO PRODUCTION
TURNER "B" #9	660FNL & 660FEL SEC 20-T17S-R31E EDDY COUNTY, NM	7/28/42	4/2/54 9/16/73	OIL PRODUCER	1949/1949'	8 1/4" @ 510' W/50 SXS 7" @ 1875' W/100 SXS OPEN HOLE COMPLETION: 1875'- 1949' IP=100 BOPD PLUGGED & ABANDONED
			11/4/44			
			10/10/86			
TURNER "B" #15	1980FNL & 660FWL SEC 20-T17S-R31E EDDY COUNTY, NM	8/31/44	12/31/44	OIL PRODUCER	1974/1974'	8 5/8" @ 536' W/50 SXS 7" @ 1876' W/100 SXS OPEN HOLE COMPLETION: 1876'- 1974' IP=60 BOPD SET CIBP @ 1850' - TEMPORARILY ABANDONED PLUGGED & ABANDONED
			8/22/85 7/3/86			1974/1850'
TURNER "B" #16	1980FNL & 1980FWL SEC 20-T17S-R31E EDDY COUNTY, NM	11/2/44	2/8/49	OIL PRODUCER	1972/1972'	8 5/8" @ 525' W/50 SXS 5 1/2" @ 1890' W/100 SXS OPEN HOLE COMPLETION: 1890'- 1972' IP=45 BOPD PLUGGED & ABANDONED
TURNER "B" #29	660FNL & 660FWL SEC 20-T17S-R31E EDDY COUNTY, NM	11/30/48	8/25/94			

VI Wells Within "Area Of Review"

<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>
TURNER "B" #37	330FSL & 990FWL SEC 17-T17S-R31E EDDY COUNTY, NM	9/19/52	10/29/52	OIL PRODUCER	1969/1969'	8 5/8" @ 533' W/50 SXS 7" @ 1902' W/100 SXS OPEN HOLE COMPLETION: 1902 - 1969' IP=25 BOPD
TURNER "B" #38	990FNL & 2310FWL SEC 20-T17S-R31E EDDY COUNTY, NM	10/28/52	12/5/52	OIL PRODUCER	1949/1949'	8 5/8" @ 526' W/50 SXS 7" @ 1892' W/100 SXS 5 1/2" LINER @ 1882' - 1949' PERFORATE: 1909 - 1949(OA) IP=40 BOPD TEMPORARILY ABANDONED
TURNER "B" #40	1650FSL & 990FWL SEC 17-T17S-R31E EDDY COUNTY, NM	2/21/53	3/23/53	OIL PRODUCER	1992/1992'	8 5/8" @ 543' W/50 SXS 7" @ 1925' W/100 SXS 5 1/2" LINER @ 1912 - 1992' (LANDED, NOT CEMENTED) PERFORATE: 1951 - 1992'(OA) IP=26 BOPD
TURNER "B" #41	1650FSL & 1650FEL SEC 20-T17S-R31E EDDY COUNTY, NM	5/14/63	7/16/63	OIL PRODUCER	3455/3411'	9 5/8" @ 532' W/50 SXS 5 1/2" @ 3451' W/200 SXS PERFORATE: 3290 - 3408(OA) IP=80 BOPD PERFORATE: 2955 - 2980(OA) - RETURN TO PRODUCTION CONVERT TO WATER INJECTION WELL PERFORATE: 2900' - 2902' & SQUEEZE W/25 SXS - RETURN TO INJECTION
TURNER "B" #42	1650FNL & 330FWL SEC 20-T17S-R31E EDDY COUNTY, NM	10/20/53	12/7/53	OIL PRODUCER	3430/3430'	9 5/8" @ 525' W/50 SXS 5 1/2" @ 3430' W/200 SXS. TOC @ 1790' PERFORATE: 3318 - 3391'(OA) IP=38 BOPD PLUG BACK TO 3370' PERFORATE: 2980 - 2991(OA) - RETURN TO PRODUCTION PERFORATE: 2928 - 3032(OA) - RETURN TO PRODUCTION CLEAN OUT WELL BORE TO 3305'
			12/19/59 12/30/67 1/18/70	WATER INJECTOR		
			2/24/54 10/29/59 11/13/91		3430/3370' 3430/3395'	PERFORATE: 3060 - 3068(OA) - RETURN TO PRODUCTION

VI Wells Within "Area Of Review"

<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>
TURNER "B" #101	990'FNL & 1150'FWL SEC 20-T17S-R31E EDDY COUNTY, NM	6/7/92	8/21/92	OIL PRODUCER	3857/3700'	13 3/8" @ 367' W/400 SXS. CEMENT TO SURFACE. 8 5/8" @ 1245' W/800 SXS. CEMENT TO SURFACE. 5 1/2" @ 3856' W/1100 SXS. CEMENT TO SURFACE. PERFORATE: 3031' - 3800'(OA) IP=48 BOPD
TURNER "B" #102	990'FNL & 2590'FWL SEC 20-T17S-R31E EDDY COUNTY, NM	5/26/92	7/8/92	OIL PRODUCER	3815/3702'	13 3/8" @ 318' W/450 SXS. CEMENT TO SURFACE. 8 5/8" @ 1275' W/700 SXS. CEMENT TO SURFACE. 5 1/2" @ 3815' W/1280 SXS. CEMENT TO SURFACE. PERFORATE: 2688' - 3662'(OA) SQUEEZE PERFORATIONS 2688' - 2703' W/294 SXS SQUEEZE PERFORATIONS 3165' - 3562' W/45 SXS IP=143 BOPD
TURNER "B" #103	1300'FNL & 1370'FWL SEC 20-T17S-R31E EDDY COUNTY, NM	6/11/92	7/13/92	OIL PRODUCER	3865/3737'	13 3/8" @ 341' W/500 SXS. CEMENT TO SURFACE. 8 5/8" @ 1305' W/600 SXS. CEMENT TO SURFACE. 5 1/2" @ 3860' W/950 SXS. CEMENT TO SURFACE. PERFORATE: 2741' - 3678'(OA) IP=75 BOPD
TURNER "B" #104	160'FSL & 1370'FWL SEC 17-T17S-R31E EDDY COUNTY, NM	6/1/92	7/6/92	OIL PRODUCER	3648/3320'	13 3/8" @ 332' W/450 SXS. CEMENT TO SURFACE. 8 5/8" @ 1264' W/600 SXS. CEMENT TO SURFACE. 5 1/2" @ 3648' W/1000 SXS. CEMENT TO SURFACE. PERFORATE: 2810' - 3094'(OA) IP=72 BOPD
TURNER "B" #105	15'FSL & 2625'FWL SEC 17-T17S-R31E EDDY COUNTY, NM	6/24/92	8/3/92	OIL PRODUCER	3794/3788'	13 3/8" @ 298' W/400 SXS. CEMENT TO SURFACE. 8 5/8" @ 1298' W/600 SXS. CEMENT TO SURFACE. 5 1/2" @ 3794' W/900 SXS. TOC @ 1450'(CBL) PERFORATE: 2814' - 3639'(OA) IP=240 BOPD PLUGGED & ABANDONED
			10/19/96			

VI Wells Within "Area Of Review"

<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>
TURNER "B" #106	15FSL & 1305FEL SEC 17-T17S-R31E EDDY COUNTY, NM	6/19/92	8/8/92	OIL PRODUCER	3863/3811'	13 3/8" @ 341' W/400 SXS. CEMENT TO SURFACE. 8 5/8" @ 1316' W/400 SXS. CEMENT TO SURFACE. 5 1/2" @ 3861' W/900 SXS. CEMENT TO SURFACE. PERFORATE: 2762'- 3718'(OA) IP=124 BOPD
TURNER "B" #116	990FSL & 1330FWL SEC 17-T17S-R31E EDDY COUNTY, NM	3/17/96	4/22/96	OIL PRODUCER	3800/3753'	8 5/8" @ 444' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3799' W/1500 SXS. CEMENT TO SURFACE. PERFORATE: 2795'- 3405(OA) IP=130 BOPD

VI Wells Within "Area Of Review"

<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>
FOSTER A #5 Weier Drilling Company	2310FNL & 660FEL SEC 17-T17S-R31E EDDY COUNTY, NM	4/25/50	6/28/50	OIL PRODUCER	2140'/2140'	7" @ 516' W/50 SXS OPEN HOLE COMPLETION: 516'- 2140' IP=7 BOPD PLUGGED & ABANDONED
FOSTER EDDY FEDERAL #2 Marbob Energy Corporation	1980FSL & 1980FEL SEC 17-T17S-R31E EDDY COUNTY, NM	11/28/42	3/15/43	OIL PRODUCER	3468'/3468'	8 1/4" @ 536' W/50 SXS 7" @ 2900' W/100 SXS OPEN HOLE COMPLETION: 2900'- 3468' IP=43 BOPD DEEPEN OPEN HOLE TO 3489' - RETURN TO PRODUCTION
FOSTER EDDY FEDERAL #3 Marbob Energy Corporation	1980FNL & 1980FWL SEC 17-T17S-R31E EDDY COUNTY, NM	4/1/43	6/20/43	OIL PRODUCER	3520'/3520'	8 5/8" @ 543' W/50 SXS 7" @ 2913' W/100 SXS OPEN HOLE COMPLETION: 2913'- 3520' IP=80 BOPD
FOSTER EDDY FEDERAL #4 Oryx Energy Company	660FNL & 1980FWL SEC 17-T17S-R31E EDDY COUNTY, NM	8/22/43	1/21/44	OIL PRODUCER	3505'/3505'	8 1/2" @ 532' W/50 SXS 7" @ 2908' W/100 SXS OPEN HOLE COMPLETION: 2908'- 3505' IP=50 BOPD PLUGGED & ABANDONED
FOSTER EDDY FEDERAL #6 Marbob Energy Corporation	990FNL & 2310FWL SEC 17-T17S-R31E EDDY COUNTY, NM	5/5/89	7/6/89	OIL PRODUCER	5540'/5514'	8 5/8" @ 474' W/400 SXS. CEMENT TO SURFACE. 5 1/2" @ 5517' W/4525 SXS. CEMENT TO SURFACE. PERFORATE: 3090'- 3478'(OA) IP=88 BOPD
FOSTER EDDY FEDERAL #8 Marbob Energy Corporation	330FNL & 1650FWL SEC 17-T17S-R31E EDDY COUNTY, NM	9/13/89	12/5/89	OIL PRODUCER	6035'/4875'	8 5/8" @ 462' W/300 SXS. CEMENT TO SURFACE. 5 1/2" @ 6022' W/4400 SXS. CEMENT TO SURFACE. PERFORATE: 2888'- 3813'(OA) IP=70 BOPD
FOSTER EDDY FEDERAL #9 Marbob Energy Corporation	2310FSL & 1650FEL SEC 17-T17S-R31E EDDY COUNTY, NM	11/29/90	1/12/91	OIL PRODUCER	5560'/5536'	8 5/8" @ 507' W/325 SXS. CEMENT TO SURFACE. PERFORATE: 2886'- 3900'(OA) IP=73 BOPD

VI Wells Within "Area Of Review"

<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>
FOSTER EDDY FEDERAL #10 Marbob Energy Corporation	2310FNL & 1650FWL SEC 17-T17S-R31E EDDY COUNTY, NM	11/11/91	1/11/92	OIL PRODUCER	5580'/5542'	13 3/8" @ 211' W/225 SXS 8 5/8" @ 1348' W/750 SXS 5 1/2" @ 5554' W/1250 SXS PERFORATE: 2882' - 4509'(OA) IP=78 BOPD
FOSTER EDDY FEDERAL #11 Marbob Energy Corporation	1650FSL & 2160FWL SEC 17-T17S-R31E EDDY COUNTY, NM	10/27/91	12/21/91	OIL PRODUCER	5600'/5550'	13 3/8" @ 209' W/425 SXS 8 5/8" @ 517' W/400 SXS 5 1/2" @ 5546' W/1900 SXS PERFORATE: 2855'/4499'(OA) IP=80 BOPD
FOSTER FEDERAL #8 Weier Drilling Company	2342FNL & 1682FWL SEC 17-T17S-R31E EDDY COUNTY, NM	5/15/54	6/21/54	OIL PRODUCER	2081'/2081'	7" @ 518' W/50 SXS 5 1/2" @ 1962' W/100 SXS OPEN HOLE COMPLETION: 1962' - 2081' IP=9 BOPD PLUGGED & ABANDONED
FOSTER, V.L. #1 Sun Oil Company	2310FNL & 2310FWL SEC 17-T17S-R31E EDDY COUNTY, NM	6/14/49	8/16/49	OIL PRODUCER	3486'/3486'	8 1/4" @ 945' W/100 SXS 7" @ 2839' W/100 SXS OPEN HOLE COMPLETION: 2839' - 3486' IP=35 BOPD PLUGGED & ABANDONED
LAST CHANCE FEDERAL #1 Ray Westfall	1650FNL & 2310FWL SEC 17-T17S-R31E EDDY COUNTY, NM	4/5/83	7/10/83	OIL PRODUCER	3620'/3612'	8 5/8" @ 574' W/400 SXS 5 1/2" @ 3612' W/1000 SXS PERFORATE: 2806' - 3600'(OA) IP=10 BOPD
SUPERIOR FEDERAL #1 Trinity University & Closuit	1650FSL & 355FWL SEC 17-T17S-R31E EDDY COUNTY, NM	3/2/38	5/17/38	OIL PRODUCER	3542'/3542'	8 5/8" @ 634' W/50 SXS 7" @ 2996' W/125 SXS OPEN HOLE COMPLETION: 2996' - 3542' IP=75 BOPD

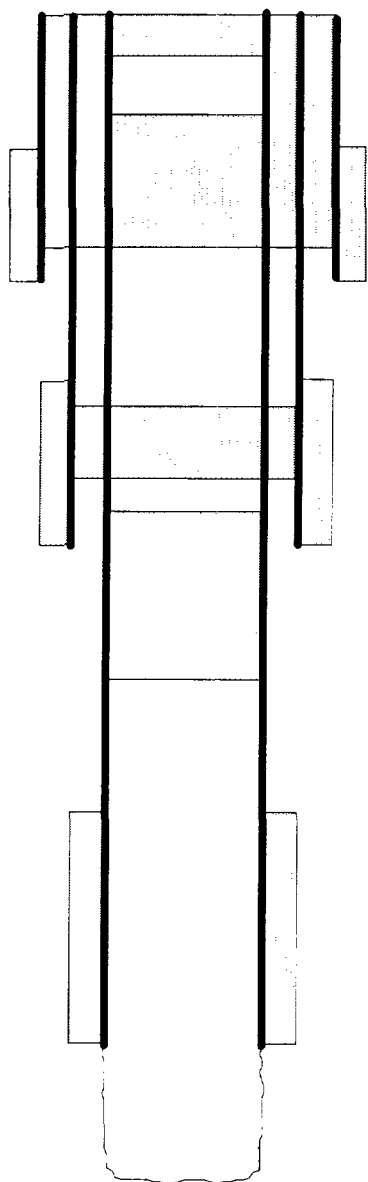
VI Wells Within "Area Of Review"

<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>
SUPERIOR FEDERAL #2 Trinity University & Closuit	1980FSL & 1980FWL SEC 17-T17S-R31E EDDY COUNTY, NM	7/20/41	10/5/41	OIL PRODUCER	3492/3492'	8 1/4" @ 555 W/50 SXS 7" @ 3040' W/100 SXS OPEN HOLE COMPLETION: 3040' - 3492' IP=60 BOPD
SUPERIOR FEDERAL #3 Trinity University & Closuit	1650FSL & 455FEL SEC 17-T17S-R31E EDDY COUNTY, NM	7/4/50	8/17/50	OIL PRODUCER	2075/2075'	8 1/4" @ 520 W/50 SXS 7" @ 1997 W/100 SXS OPEN HOLE COMPLETION: 1997 - 2075' IP=12 BOPD

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: FOSTER, V.L. #6			FIELD: GRAYBURG-JACKSON			
LOCATION: 2310'FNL & 1650'FEL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3730'; KB=UNK			SPUD DATE: 10/26/50		COMP DATE: 01/02/51	
API#: 30-015-05205		PREPARED BY: C.H. CARLETON			DATE: 10/28/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 511'	8 5/8"	28#			
CASING:	0' - 1995'	7"	20#			
CASING:	0' - 2862'	4 1/2"	9.5#	J-55		
TUBING:						
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

DATE PLUGGED: 04/11/82

CEMENT PLUG: 0' - 100' W/10 SXS

CEMENT PLUG: 220' - 466' W/50 SXS

PERFORATE 4 1/2" CASING @ 480'

8 5/8" CASING, SET W/50 SXS. TOC @ 270' (calc)

CEMENT PLUG: 1135' - 1400' W/100 SXS

PERFORATE 4 1/2" CASING @ 1400'

CEMENT PLUG: 1440' - 2054' W/100 SXS

7" CASING, SET W/100 SXS. TOC @ 1060' (calc)

4 1/2" CASING SET W/50 SXS. TOC @ 2540' (calc)

OPEN HOLE COMPLETION: 2862' - 3467'

TD @ 3467'

NOTE: FOF CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC						
WELL NAME: HUDSON FEDERAL #1			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FNL & 660'FEL, SEC 18-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3713' ; KB=UNK			SPUD DATE: 01/24/39		COMP DATE: 05/20/39	
API#: 30-015-05208		PREPARED BY: C.H. CARLETON			DATE: 04/18/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 570'	8 5/8"				10"
CASING:	0' - 2795'	7"				8"
CASING:						
TUBING:						
TUBING:						

☒ CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION
DATE PLUGGED: 12/17/80

CEMENT PLUG: 0' - 200'

CEMENT RETAINER @ 510'. PUMP 100 SXS BELOW & CAP W/50' CMT.
 8 5/8" CASING SET @ 570'. CMT'D W/50 SXS. TOC @ 430'(CALC)
 PERF 7" CASING @ 600' - 602' (8 HOLES)

CEMENT RETAINER @ 1212'. PUMP 100 SXS BELOW & CAP W/50' CMT.
 PERF 7" CASING @ 1300' - 1302' (8 HOLES)

CEMENT RETAINER @ 2690'. PUMP 200 SXS BELOW & CAP W/50' CMT.
 7" CASING SET @ 2795'. CMT'D W/100 SXS. TOC @ 2100'(CBL)

OPEN HOLE COMPLETION: 2795' - 3533'

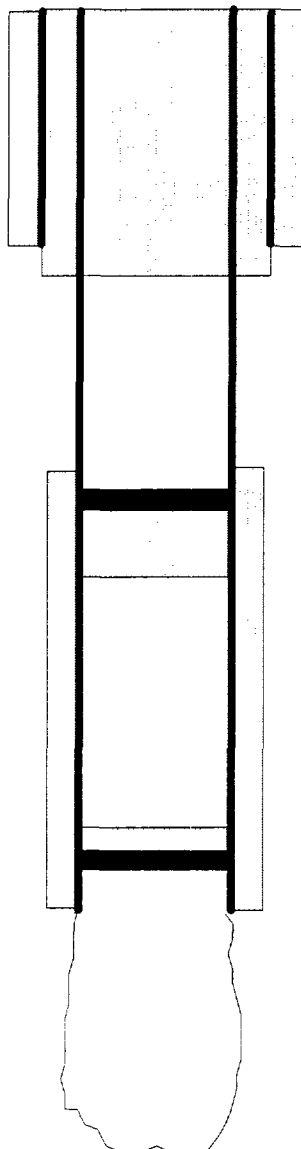
TD @ 3533'

NOTE: FOF CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "A" #8			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 1980'FEL, SEC 18-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3691' ; KB=UNK			SPUD DATE: 07/23/40		COMP DATE: 01/13/41	
API #: 30-015-05213		PREPARED BY: C.H. CARLETON			DATE: 04/18/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 550'	8"				10"
CASING:	0' - 2918'	7"				8"
CASING:						
TUBING:						
TUBING:						



☒ CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION
DATE PLUGGED: 05/09/94

CEMENT PLUG: 0' - 600'
8" CASING, SET W/50 SXS. TOC @ UNKNOWN
PERF 7" CASING @ 600'

CEMENT RETAINER @ 1138'. PUMP 250 SXS BELOW RETAINER.

CIBP @ 2889', CAP WITH 50' CEMENT.

7" CASING SET W/100 SXS. TOC @ 1102'(CBL)

OPEN HOLE COMPLETION: 2918' - 3462'

TD @ 3462'

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC						
WELL NAME: TURNER "A" #23			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FNL & 660'FEL, SEC 19-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=UNK; KB=UNK; DF=3670'			SPUD DATE: 11/23/48		COMP DATE: 02/08/49	
API #: 30-015-05248		PREPARED BY: C.H. CARLETON			DATE: 10/05/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 512'	8 5/8"	24#			
CASING:	0' - 1880'	5 1/2"	17#			
CASING:						
TUBING:						
TUBING:						

LEGEND:
 CURRENT
 PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION
DATE PLUGGED: 10/02/86

CEMENT PLUG: 0'- 500'
 PERFORATE 5 1/2" CASING @ 500'
 8 5/8" CASING, SET W/25 SXS. TOC @ 390' (calc)

CEMENT PLUG: 1020'- 1150'
 CEMENT RETAINER @ 1060'
 PERFORATE 5 1/2" CASING @ 1150'

CEMENT PLUG: 1740'- 1967'
 CEMENT RETAINER @ 1770'
 5 1/2" CASING SET W/100 SXS. TOC @ 1500' (calc)

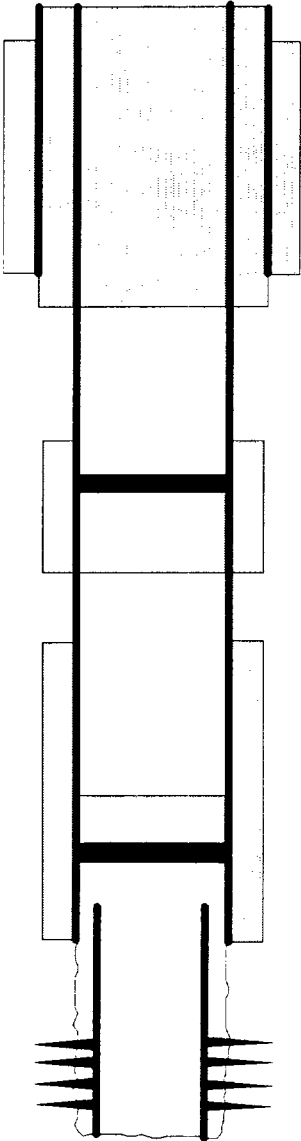
OPEN HOLE COMPLETION: 1880'- 1967'

TD @ 1967'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC						
WELL NAME: TURNER "A" #29			FIELD: GRAYBURG-JACKSON			
LOCATION: 705'FSL & 660'FEL, SEC 18-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3694'; KB=UNK			SPUD DATE: 05/04/53		COMP DATE: 06/04/53	
API #: 30-015-05226		PREPARED BY: C.H. CARLETON			DATE: 10/05/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 556'	9 5/8"	25#			12 1/2"
CASING:	0' - 1910'	7"	20#			9"
CASING:	1899' - 1977'	5 1/2"	14#			6"
TUBING:						
TUBING:						



CURRENT
 PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION
DATE PLUGGED: 08/25/94

CEMENT PLUG: 0' - 580'

9 5/8" CASING, SET W/50 SXS. TOC @ 460' (calc)

CEMENT RETAINER @ 1191', PUMP 100 SXS BELOW RETAINER.

PERFORATE 7" CASING @ 1250' & 1300'

CIBP @ 1850', CAP WITH 8 SXS.

7" CASING SET W/100 SXS. TOC @ 1530' (calc)

PERFORATIONS: 1932' - 1977' (W/253 QTS NITRO)

5 1/2" LINER LANDED (NOT CEMENTED)
 TD @ 1977'

NOTE: FOF CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50 % FILLUP WERE ASSUMED.

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC						
WELL NAME: TURNER "B" #15			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 660'FWL, SEC 20-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3625'; KB=UNK; DF=UNK			SPUD DATE: 08/31/44		COMP DATE: 11/04/44	
API#: 30-015-05287		PREPARED BY: C.H. CARLETON			DATE: 10/05/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 510'	8 1/4"				10"
CASING:	0' - 1875'	7"	20#			8"
CASING:						
TUBING:						
TUBING:						

☒ CURRENT ☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION
DATE PLUGGED: 10/10/86

CEMENT PLUG: 0' - 500'
 PERFORATE 7" CASING @ 500'
 8 1/4" CASING, SET W/50 SXS. TOC @ 330' (calc)

CEMENT RETAINER @ 1244', PUMP 150 SXS BELOW & CAP W/20' CMT.
 PERFORATE 7" CASING @ 1300'

CEMENT RETAINER @ 1801', PUMP 150 SXS BELOW & CAP W/60' CMT.
 7" CASING SET W/100 SXS. TOC @ 1070' (calc)

OPEN HOLE COMPLETION: 1875' - 1949'

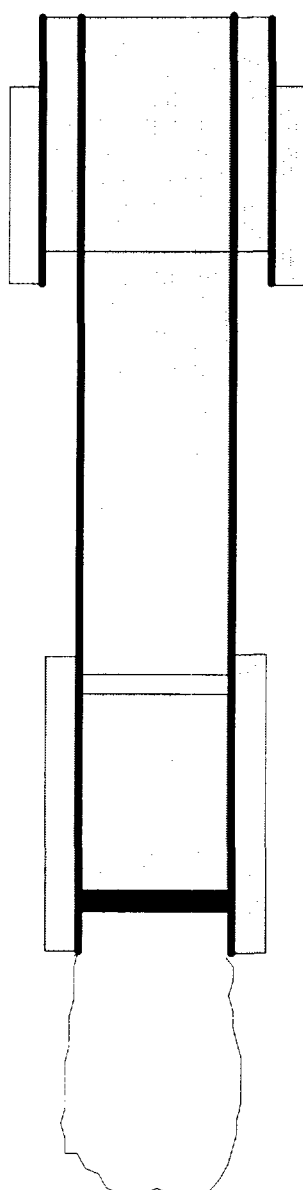
TD @ 1949'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #16			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 1980'FWL, SEC 20-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3713'; KB=UNK			SPUD DATE: 11/02/44		COMP DATE: 12/31/44	
API#: 30-015-05288		PREPARED BY: C.H. CARLETON			DATE: 10/05/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 536'	8 5/8"	24#			10"
CASING:	0' - 1876'	7"	20#			8"
CASING:						
TUBING:						
TUBING:						



☒ CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

DATE PLUGGED: 07/03/86

CEMENT PLUG: 0'- 530'

PERFORATE 7" CASING @ 530'

8 5/8" CASING, SET W/50 SXS. TOC @ 300' (calc)

CEMENT PLUG: 530'- 1450'

CIBP @ 1850', CAP WITH 115 SXS.

7" CASING SET W/100 SXS. TOC @ 1070' (calc)

OPEN HOLE COMPLETION: 1876'- 1974'

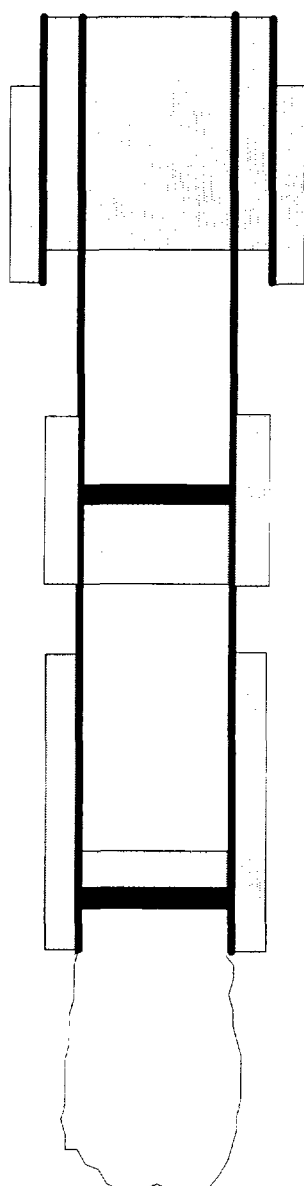
TD @ 1974'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #29			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FNL & 660'FWL, SEC 20-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=UNK; KB=UNK; DF=UNK			SPUD DATE: 11/30/48		COMP DATE: 02/08/49	
API#: 30-015-05297		PREPARED BY: C.H. CARLETON			DATE: 10/05/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 525'	8 5/8"	24#			
CASING:	0' - 1890'	5 1/2"	14#			
CASING:						
TUBING:						
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

DATE PLUGGED: 08/25/94

CEMENT PLUG: 0' - 450'

8 5/8" CASING, SET W/50 SXS. TOC @ 290' (calc)

CEMENT RETAINER @ 1191', PUMP 100 SXS BELOW RETAINER.
PERFORATE 5 1/2" CASING @ 1250' & 1300'

CIBP @ 1850', CAP WITH 8 SXS.

5 1/2" CASING SET W/100 SXS. TOC @ 950' (calc)

OPEN HOLE COMPLETION: 1890' - 1972'

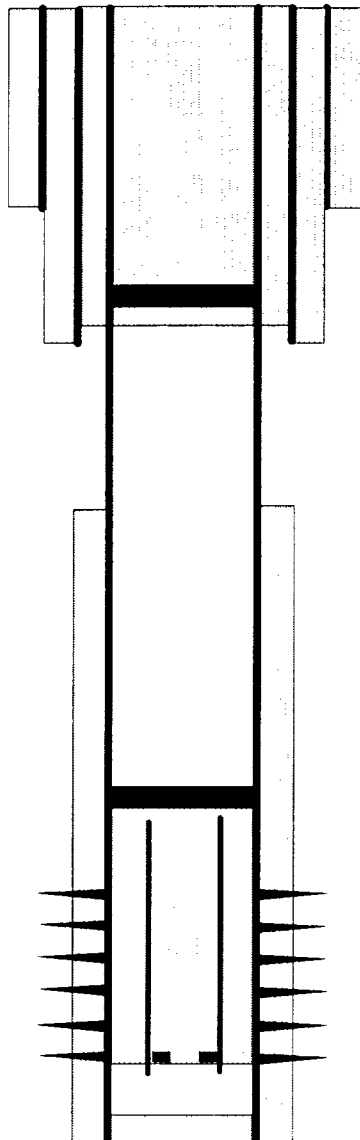
TD @ 1972'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50 % FILLUP WERE ASSUMED.

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: TURNER "B" #105			FIELD: GRAYBURG-JACKSON			
LOCATION: 15°FSL & 2625°FEL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3674'; KB=3685'			SPUD DATE: 06/24/92		COMP DATE: 08/03/92	
API#: 30-015-26705		PREPARED BY: C.H. CARLETON			DATE: 10/25/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 298'	13 3/8"	48#	J-55	ST&C	17 1/2"
CASING:	0' - 1289'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3794'	5 1/2"	14#	J-55	ST&C	7 7/8"
TUBING:	2525' - 3685'	2 7/8"	6.5#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

DATE PLUGGED: 10/19/96

13 3/8" CASING, SET W/400 SXS. TOC @ SURFACE.

CEMENT RETAINER @ 1183', PUMP 300 SXS. CIRCULATE CEMENT.

PERFORATE 5 1/2" CASING @ 1193'

8 5/8" CASING, SET W/600 SXS. TOC @ SURFACE

CEMENT RETAINER @ 2518', PUMP 150 SXS BELOW RETAINER

FISH: 2525'- 3685' (2 7/8" TUBING)

PERFORATIONS: 2814'- 3639' (28 HOLES)

SN @ 3617'

PBTD @ 3788'

5 1/2" CASING, SET W/900 SXS. TOC @ 1450'(CBL)

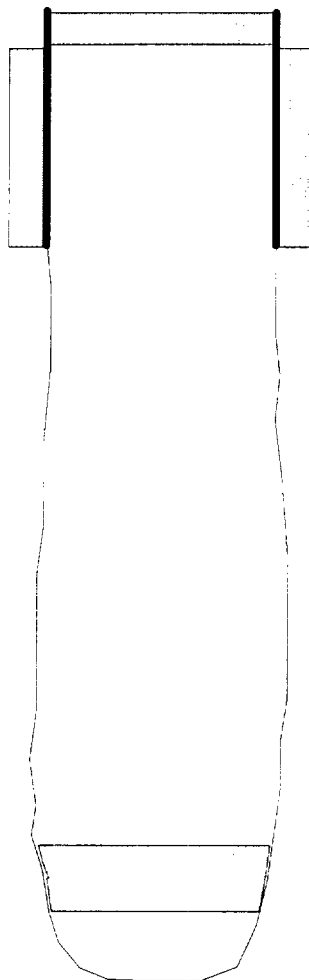
TD @ 3794'

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION

WELLBORE SCHEMATIC

WELL NAME: FOSTER "A" #5				FIELD: FREN SEVEN RIVERS		
LOCATION: 2310'FNL & 660'FEL, SEC 17-T17S-R31E				COUNTY: EDDY		STATE: NM
ELEVATION: GL=3724' ; KB=UNK				SPUD DATE: 04/24/50		COMP DATE: 06/05/50
API#: 30-015-05204		PREPARED BY: C.H. CARLETON			DATE: 11/08/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 522'	7"				
CASING:						
CASING:						
TUBING:						
TUBING:						



CURRENT



PROPOSED

OPERATOR: WEIER DRILLING COMPANY

DATE PLUGGED: 10/14/56

CEMENT PLUG: 0'- 30' W/5 SXS

7" CASING, SET W/50 SXS. TOC @ 120' (calc)

NOTE: OPEN HOLE 522'- 2140'

CEMENT PLUG: 2000'- 2060' W/10 SXS

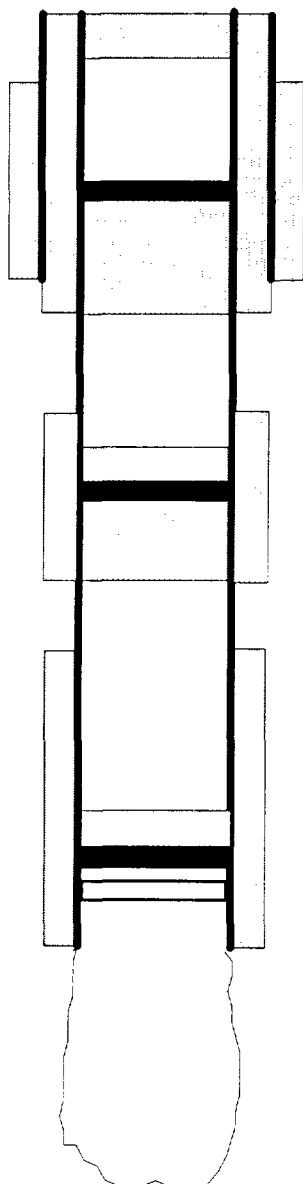
TD @ 2140'

NOTE: FO : CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: FOSTER-EDDY FEDERAL #4			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FNL & 1980'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=UNK; KB=UNK; DF=3710'			SPUD DATE: 08/22/43		COMP DATE: 01/11/44	
API #: 30-015-05195		PREPARED BY: C.H. CARLETON				DATE: 04/23/96
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 525'	8 5/8"	28#			
CASING:	0' - 2908'	7"	24#			
CASING:						
TUBING:						
TUBING:						



☒ CURRENT

☐ PROPOSED

OPERATOR: ORYX ENERGY COMPANY

DATE PLUGGED: 09/11/82

CEMENT PLUG: 0' - 80'

CEMENT RETAINER @ 310', PUMP 100 SXS BELOW RETAINER.

8 5/8" CASING, SET W/50 SXS. TOC @ UNKNOWN

PERFORATE 7" CASING @ 550' - 551'

CEMENT RETAINER @ 1018', PUMP 100 SXS BELOW & CAP W/10 SXS.

PERFORATE 7" CASING @ 1350' - 1351'

CIBP @ 2850', CAP WITH 7 SXS.

BAKER "AD-1" PACKER @ 2869'

7" CASING SET W/100 SXS. TOC @ UNKNOWN

OPEN HOLE COMPLETION: 2908' - 3505'

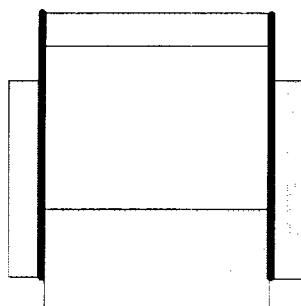
TD @ 3505'

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: FOSTER FEDERAL #8			FIELD: GRAYBURG-JACKSON		
LOCATION: 2342'FNL & 1682'FWL, SEC 17-T17S-R31E			COUNTY: EDDY	STATE: NM	
ELEVATION: GL=UNK; KB=UNK; DF=3721'			SPUD DATE: 05/15/54	COMP DATE: 07/03/54	
API #: 30-015-05207		PREPARED BY: C.H. CARLETON			DATE: 04/23/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 517'	7"	20#			
CASING:	1100' - 1966'	5 1/2"	14#			
CASING:						
TUBING:						
TUBING:						



☒ CURRENT

☐ PROPOSED

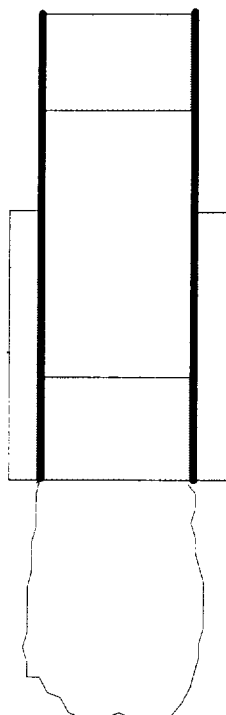
OPERATOR: WEIER DRILLING COMPANY

DATE PLUGGED: 06/16/60

CEMENT PLUG: 0'- 10'

CEMENT PLUG: 350'- 550'

7" CASING, SET W/50 SXS. TOC @ UNKNOWN



CUT 5 1/2" CASING @ 1100'

CEMENT PLUG: 1106'- 1200'

CEMENT PLUG: 1900'- 1966'

5 1/2" CASING SET W/100 SXS. TOC @ UNKNOWN

OPEN HOLE COMPLETION: 1966'- 2081'

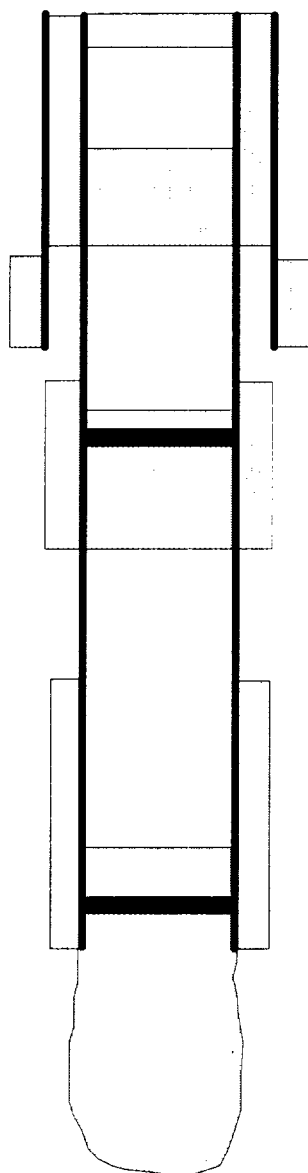
TD @ 2081'

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: FOSTER, V.L. #1	FIELD: GRAYBURG-JACKSON
LOCATION: 2310'FNL & 2310'FEL, SEC 17-T17S-R31E	COUNTY: EDDY STATE: NM
ELEVATION: GL=3727'; KB=UNK	SPUD DATE: 06/14/49 COMP DATE: 08/16/49
API#: 30-015-05187	PREPARED BY: C.H. CARLETON DATE: 10/24/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 945'	8 1/4"				
CASING:	0' - 2839'	7"				
CASING:						
TUBING:						
TUBING:						



CURRENT



PROPOSED

OPERATOR: SUN OIL COMPANY

DATE PLUGGED: 12/23/78

CEMENT PLUG: 0' - 20'

CEMENT PLUG: 360' - 590' W/225 SXS

PERFORATE 7" CASING @ 590'

8 1/4" CASING, SET W/100 SXS. TOC @ UNKNOWN

CEMENT RETAINER @ 1035', PUMP 150 SXS BELOW & CAP W/2 SXS

CASING LEAKS: 1050' - 1488'

CEMENT RETAINER @ 2770', PUMP 250 SXS BELOW & CAP W/50 SXS

7" CASING SET W/100 SXS. TOC @ UNKNOWN

OPEN HOLE COMPLETION: 2839' - 3486'

TD @ 3486'

**DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

VII Proposed Operation Data:

- (1) Average daily injection rates - 500 BWPD
Maximum daily injection rates - 600 BWPD
- (2) Type of injection system - closed system
- (3) Average injection pressure - 2000 psig
Maximum injection pressures - 2500 psig
- (4) Injection water will be reinjected produced water, plus makeup water from the Keel West fresh water system.
- (5) N/A

VIII Geological Data:

The proposed injection zone is in the Grayburg/San Andres formation from 2650'-3510'. The Grayburg formation consists primarily of quartz sand with cementation. The San Andres formation consists primarily of dolomite with intermingled stringers of quartz sand with dolomite cementation.

Surface formation is Cretaceous and has no known source of drinking water. Additionally, there are no known underground sources of drinking water overlying or underlying the proposed injection interval.

X Stimulation Program:

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

X Well Logs:

Copies of current well logs are on file with Oil Conservation Department.

**DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

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 open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water was found.

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

The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Devon Energy Operating Corporation operates the Grayburg-Jackson Unit in sections 17-T17S-R31E. Offset operators in the "area of review" are as follows:

(1) Marbob Energy Corporation
P.O. Box 227
Artesia, NM 88210

(2) Trinity University & Closuit
P.O. Box 6A
Loco Hills, NM 88255

Each of these operators were provided a letter by certified mail. Proof of notice is attached.

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

devon
ENERGY CORPORATION

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

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

November 20, 1996

Certified Mail P 619 404 334

Marbob Energy Corporation
P.O. Box 227
Artesia, NM 88210

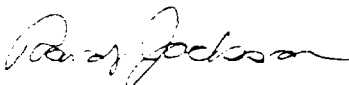
RE: Devon Energy Corporation
Grayburg-Jackson Waterflood Project
Section 17 - T17S - R31E
Eddy County, NM

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert four producing and one P&A'd well to water injection wells and restore injection to two shut-in injectors in the above referenced section. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon and you must file any objections or requests for hearings of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification.

Please direct any questions regarding this matter to the undersigned at 405/552-4560.

Sincerely,
Devon Energy Corporation



Randy Jackson
District Engineer

/chc

cc: Well File

Is your RETURN ADDRESS completed on the reverse side?	SENDER: <ul style="list-style-type: none">■ 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. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
	3. Article Addressed to: MARBOb ENERGY CORPORATION P.O. Box 227 ARTESIA, NM 88210		4a. Article Number P 619 404 334	
			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) Misti McLurg		7. Date of Delivery 11-25-96	
	6. Signature: (Addressee or Agent) X Misti McLurg		8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

devon

ENERGY CORPORATION

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

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

November 20, 1996

Certified Mail P 619 404 335

Trinity University & Closesuit
P.O. Box 6A
Loco Hills, NM 88255

RE: Devon Energy Corporation
Grayburg-Jackson Waterflood Project
Section 17 - T17S - R31E
Eddy County, NM

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert four producing and one P&A'd well to water injection wells and restore injection to two shut-in injectors in the above referenced section. Our records indicate that you are an offset operator. As an offset operator you must be notified by Devon and you must file any objections or requests for hearings of administrative applications with the Oil Conservation Division of New Mexico within fifteen (15) days of receiving this notification.

Please direct any questions regarding this matter to the undersigned at 405/552-4560.


Sincerely,
Devon Energy Corporation



Randy Jackson
District Engineer

/chc

cc: Well File

Is your RETURN ADDRESS completed on the reverse side?	SENDER:		I also wish to receive the following services (for an extra fee):	
	<ul style="list-style-type: none"> 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. 		1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
	3. Article Addressed to:		4a. Article Number	
	TRINITY UNIVERSITY & CLOSUIT P.O. BOX 6A LOCO HILLS, NM 88255		P 619 404 335	
	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		Thank you for using Return Receipt Service.
William Hope 6. Signature: (Addressee or Agent) X 		11-25-96 8. Addressee's Address (Only if requested and fee is paid)		
PS Form 3811, December 1994				

Domestic Return Receipt

Affidavit of Publication

No 17391

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:

November 26, 19 96
_____, 19 ____
_____, 19 ____
_____, 19 ____
_____, 19 ____
_____, 19 ____

That the cost of publication is \$ 27.45,
and that payment thereof has been made and will be assessed as court costs.

Amy McKay

Subscribed and sworn to before me this
2nd day of December, 1996

Donna Crump

My commission expires 08/01/98
Notary Public

November 26, 1996

Legal Advertisement

Notice is hereby given that Devon Energy Operating Corporation is applying to the New Mexico Oil Conservation Division to convert four producing and one P&A'd well to water injection wells and restore two shut in injection wells for secondary recovery purposes in:

Section 17 of T17S - R31E,
Eddy County, NM

The intended purpose of these wells is to inject produced waters into the Grayburg/San Andres Formations to enhance oil production through secondary recovery. Maximum injection rates of 600 bwpd and a maximum pressure of 2500 psig are expected.

Interested parties must file objections or requests for hearing within 15 days to the following commission:

State of New Mexico
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

Randy Jackson
District Engineer
Devon Energy Operating Corporation
20 North Broadway,
Suite 1500
Oklahoma City, OK 73102
(405) 552-4560

WFX 710

DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD

3 Hudson Federal
WELLS

III Well Data:

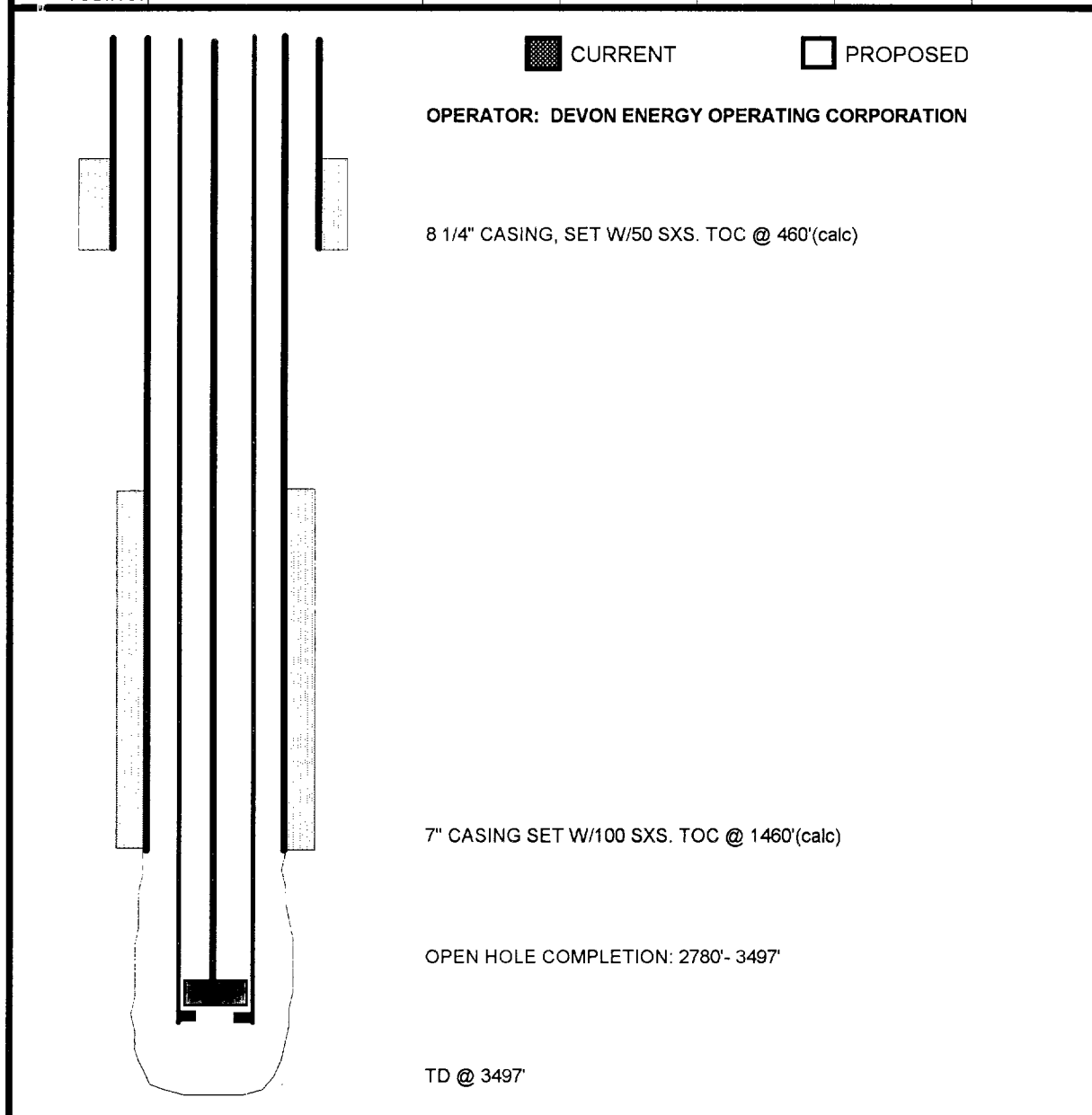
- A. (1) Hudson Federal #3
1650'FNL & 330'FWL
Section 17-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 1/4" @ 636'. Set with 50 sxs. TOC @ 460'(calculated)
Hole Size = 10"(estimated)
- Intermediate Casing:
7" @ 2780'. Set with 100 sxs. TOC @ 1460'(calculated)
Hole Size = 7 5/8"(estimated)
- Production Casing:
4 1/2" 11.6# J-55 LT&C @ 3497'. TOC @ surface.
Hole Size = 6 1/4"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2650'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2650'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2700'- 3497'(OA). **The injection interval is 2700'- 3497'.**
- (3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2700'- 3497' interval.
- (5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

10/19/2011 10:03:11 AM
10/19/2011 10:03:11 AM

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #3			FIELD: GRAYBURG-JACKSON			
LOCATION: 1650'FNL & 330'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3710'; KB=UNK			SPUD DATE: 04/04/41		COMP DATE: 06/14/41	
API #: 30-015-05179		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 636'	8 1/4"				
CASING:	0' - 2780'	7"				
CASING:						
TUBING:	0' - UNK	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						

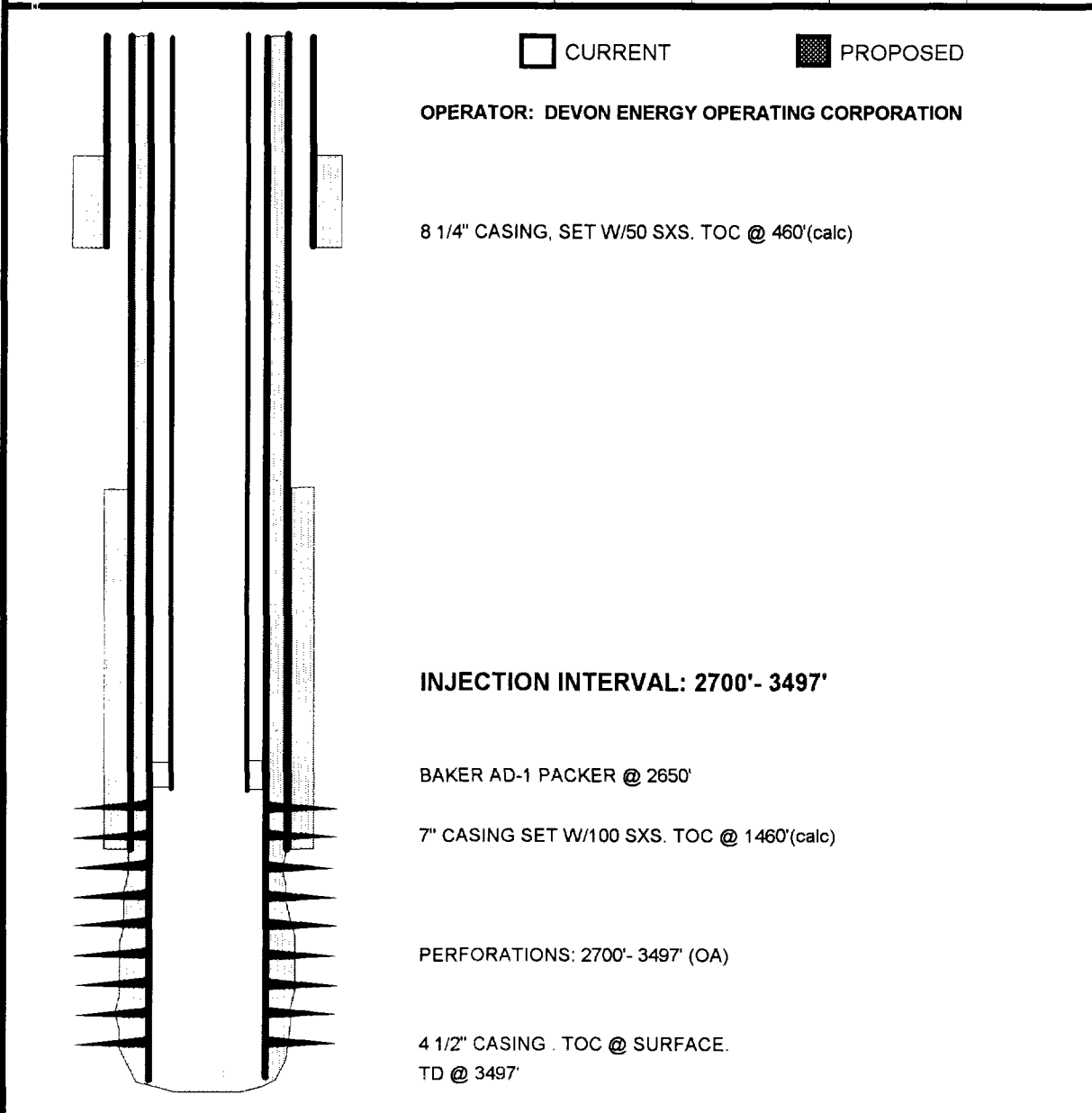


NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

III Well Data:

DEVON ENERGY OPERATING CORPORATION
WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #3			FIELD: GRAYBURG-JACKSON				
LOCATION: 1650'FNL & 330'FWL, SEC 17-T17S-R31E			COUNTY: EDDY				STATE: NM
ELEVATION: GL=3710'; KB=UNK			SPUD DATE: 04/04/41		COMP DATE: 06/14/41		
API #: 30-015-05179		PREPARED BY: C.H. CARLETON				DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE	
CASING:	0' - 636'	8 1/4"					
CASING:	0' - 2780'	7"					
CASING:	0' - 3497'	4 1/2"	11.6#	J-55	LT&C	6 1/4"	
TUBING:	0' - 2650'	2 3/8"	4.7#	J-55	EUE 8rd		
TUBING:							



NOT :: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

**DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD**

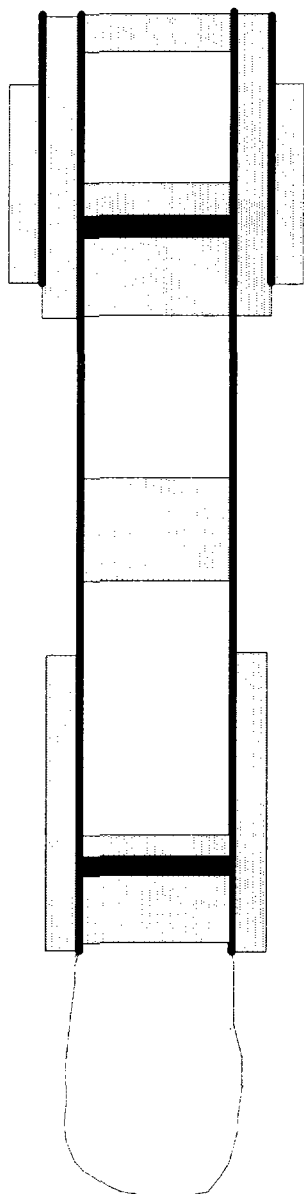
III Well Data:

- A. (1) Hudson Federal #4
990'FNL & 330'FWL
Section 17-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 5/8" 28# @ 649'. Set with 50 sxs. TOC @ 410'(calculated)
Hole Size = 10"(estimated)
- Intermediate Casing:
7" 20# @ 2803'. Set with 100 sxs. TOC @ 1480'(calculated)
Hole Size = 7 5/8"(estimated)
- Production Casing:
4 1/2" 11.6# J-55 LT&C @ 3500'. TOC @ surface.
Hole Size = 6 1/4"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2650'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2650'.
3. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2700'- 3500'(OA). **The injection interval is 2700'- 3500'.**
- (3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2700'- 3500' interval.
- (5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data:

DEVON ENERGY OPERATING CORPORATION
WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #4			FIELD: GRAYBURG-JACKSON			
LOCATION: 990'FNL & 330'FWL, SEC 17-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3721'; KB=UNK			SPUD DATE: 11/07/41		COMP DATE: 02/01/42	
API#: 30-015-05180		PREPARED BY: C.H. CARLETON			DATE: 11/22/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 649'	8 5/8"	28#			
CASING:	0' - 2803'	7"	20#			
CASING:						
TUBING:						
TUBING:						



 CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

DATE PLUGGED: 04/19/79

CEMENT PLUG: 0'- 50'

CEMENT RETAINER @ 560'. PUMP 100 SXS BELOW & CAP WITH 4 SXS.

8 5/8" CASING, SET W/50 SXS. TOC @ 410'(calculated)

PERFORATE 7" CASING @ 660'.

CEMENT PLUG: 1000'- 1200'

CEMENT RETAINER @ 2500', PUMP 300 SXS BELOW & CAP WITH 2 SXS.

7" CASING SET W/100 SXS. TOC @ 1480'(calculated)

OPEN HOLE COMPLETION: 2803'- 3500'

TD @ 3500'

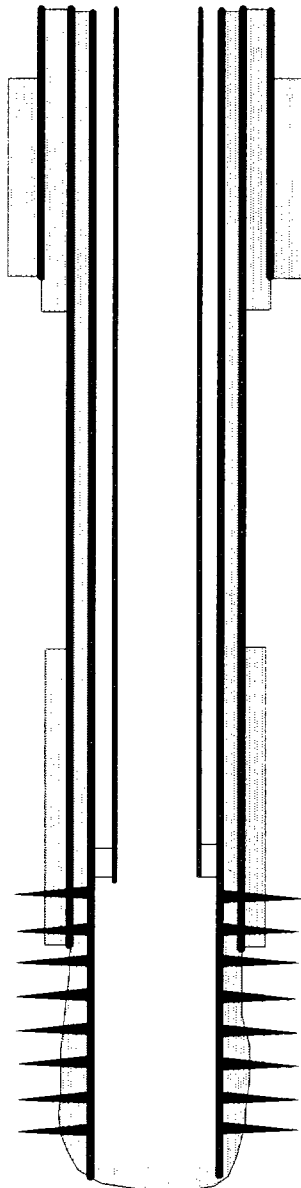
NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #4		FIELD: GRAYBURG-JACKSON	
LOCATION: 990'FNL & 330'FWL, SEC 17-T17S-R31E		COUNTY: EDDY	STATE: NM
ELEVATION: GL=3721'; KB=UNK		SPUD DATE: 11/07/41	COMP DATE: 02/01/42
API#: 30-015-05180	PREPARED BY: C.H. CARLETON		DATE: 11/22/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 649'	8 5/8"	28#			
CASING:	0' - 2803'	7"	20#			
CASING:	0' - 3500'	4 1/2"	11.6#	J-55	LT&C	6 1/4"
TUBING:	0' - 2650'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/50 SXS. TOC @ 410'(calculated)

INJECTION INTERVAL: 2700'- 3500'

BAKER AD-1 PACKER @ 2650'

7" CASING SET W/100 SXS. TOC @ 1480'(calculated)

PERFORATIONS: 2700'- 3500' (OA)

4 1/2" CASING. TOC @ SURFACE.
TD @ 3500'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

DEVON ENERGY OPERATING CORPORATION
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD

III **Well Data:**

A. (1) Hudson Federal #5
 2480'FNL & 1160'FWL
 Section 17-T17S-R31E
 Eddy County, NM

(2) Surface Casing:
 8 5/8" 24# @ 500'. Set with 200 sxs. TOC @ surface
 Hole Size = 12"

 Production Casing:
 4 1/2" 9.5# J-55 @ 3510'. Set with 225 sxs. TOC @ 2860'(Temp Survey)
 Hole Size = 7 7/8"

(3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2700'.

(4) 4 1/2" Baker AD-1 tension packer set at 2700'.

B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.

(2) Water injection will be through perforations 2750'- 3510'(OA). **The injection interval is 2750'- 3510'.**

NOTE: A cement bond log will be run prior to perforating the 4 1/2" casing to insure that the height of cement behind casing is 100' above proposed top perforation(\pm 2750'). Should cement top be less than 2650', the 4 1/2" casing will be perforated and cement squeezed.

(3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.

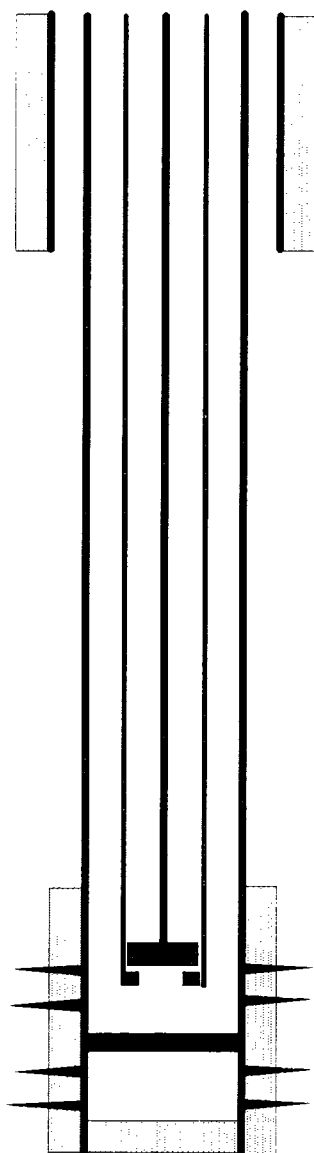
(4) Additional perforations may be added in the 2750'- 3510' interval.

(5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: HUDSON FEDERAL #5			FIELD: GRAYBURG-JACKSON			
LOCATION: 2480'FNL & 1160'FWL, SEC 17-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3715'; KB=UNK			SPUD DATE: 07/26/67		COMP DATE: 08/10/67	
API#: 30-015-20073		PREPARED BY: C.H. CARLETON			DATE: 11/11/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 500'	8 5/8"	24#			12"
CASING:	0' - 3510'	4 1/2"	9.5#	J-55		7 7/8"
CASING:						
TUBING:	0' - 3250'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☒ CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/200 SXS. TOC @ SURFACE

NOTE:

EXACT PLUG DEPTH AND PLUG TYPE ARE IN QUESTION.
WELL FILE WAS CONTRADICTIONARY ON DEPTH, AND TYPE
OF PLUG WAS NOT CLEARLY STATED.

PERFORATE: 3168'- 3287' (OA)

CIBP @ 3350' (as of 8/88)

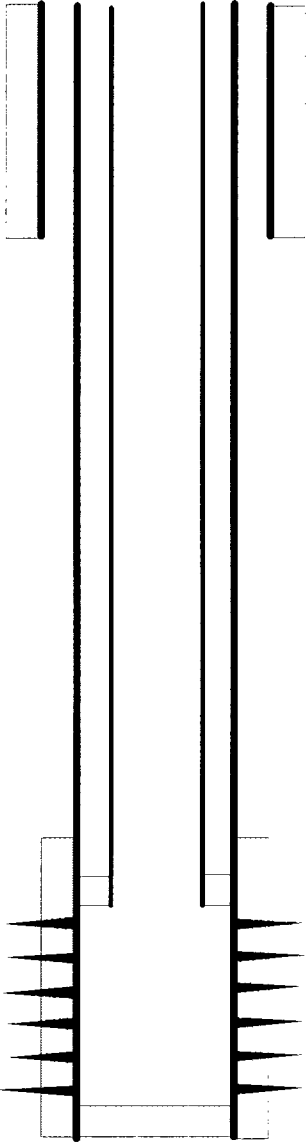
PERFORATE: 3402'- 3498' (OA)

4 1/2" CASING, SET W/225 SXS. TOC @ 2860'(calc)

TD @ 3510'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC						
WELL NAME: HUDSON FEDERAL #5			FIELD: GRAYBURG-JACKSON			
LOCATION: 2480'FNL & 1160'FWL, SEC 17-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3715'; KB=UNK			SPUD DATE: 07/26/67		COMP DATE: 08/10/67	
API#: 30-015-20073		PREPARED BY: C.H. CARLETON			DATE: 11/11/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 500'	8 5/8"	24#			12"
CASING:	0' - 3510'	4 1/2"	9.5#	J-55		7 7/8"
CASING:						
TUBING:	0' - 2700'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/200 SXS. TOC @ SURFACE

NOTE: Cement Bond Log will be run to determine height of cement behind 4 1/2" casing prior to perforating. Should height of cement be less than 2650', the 4 1/2" casing will be perforated and squeezed to insure that cement top is 100' above the top perforation within the injection interval.

INJECTION INTERVAL: 2750'- 3510'

BAKER AD-1 PACKER @ 2700'

PERFORATIONS: 2750'- 3510' (OA)

4 1/2" CASING, SET W/225 SXS. TOC @ 2860'(calc)
TD @ 3510'

NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.