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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
Contact party: Randy Jackson Phone: (405) 552-4560
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ yes ☐ no
If yes, give the Division order number authorizing the project 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 source 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 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: Randy Jackson Title: District Engineer
Signature: Randy Jackson Date: 7/15/86
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

NEW MEXICO
OIL CONSERVATION DIVISION

Devon EXHIBIT 2

CASE NO. 11580

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

III **Well Data:**

A. (1) J.L. Keel "B" #12
 660'FNL & 660'FEL
 Section 8-T17S-R31E
 Eddy County, NM

(2) Surface Casing:
 10 3/4" 32.75# @ 622'. Set with 100 sxs. TOC @ 310'(calculated)
 Hole Size = 12 1/2"

 Production Casing:
 7" 20# @ 3036'. Set with 200 sxs. TOC @ 2080' (calculated)
 Hole Size = 8 5/8"

 Liner:
 5" 11.5# @ 2937'- 3730'. Set with 150 sxs.
 Hole Size = 6"

(3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 3000'.

(4) 5" Baker AD-1 tension packer set at 3000'.

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

(2) Water injection will be through perforations 3066'- 3720'. **The injection interval is 2950'- 3730'.**

(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.

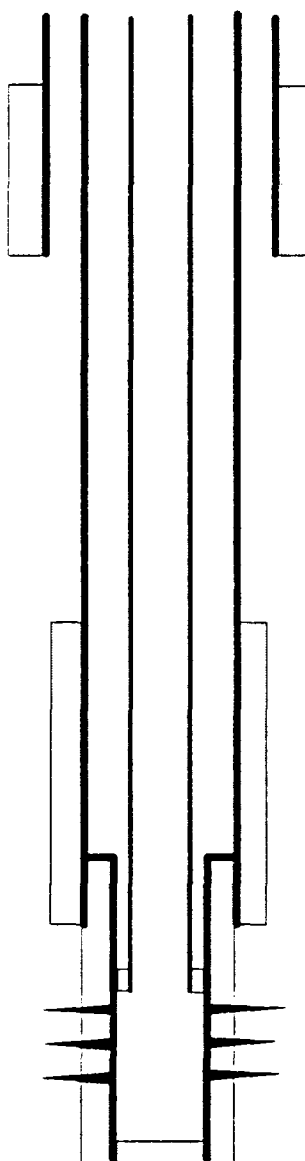
(4) Additional perforations may be added in the 2950'- 3730' interval.

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

II. Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #12			FIELD: GRAYBURG-JACKSON			
LOCATION: 660°FNL & 660°FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3849'; KB=UNK			SPUD DATE: 10/17/52		COMP DATE: 12/26/52	
API#: 30-015-05111		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 662'	10 3/4"	32.75#			12 1/4"
CASING:	0' - 3036'	7"	20#			8 5/8"
CASING:	2937' - 3730'	5"	11.5#			6"
TUBING:	0' - 3045'	2 3/8"	4.7#			
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

10 3/4" CASING, SET W/100 SXS. TOC @ 310' (CALC)

TOP OF 5" LINER @ 2937'

7" CASING SET W/200 SXS. TOC @ 2080' (CALC)

BAKER MODEL AD-1 PACKER @ 3045'

PERFORATIONS: 3088' - 3676' (OA)

PBTD @ 3719'

5" LINER SET W/150 SXS.

TD @ 3730'

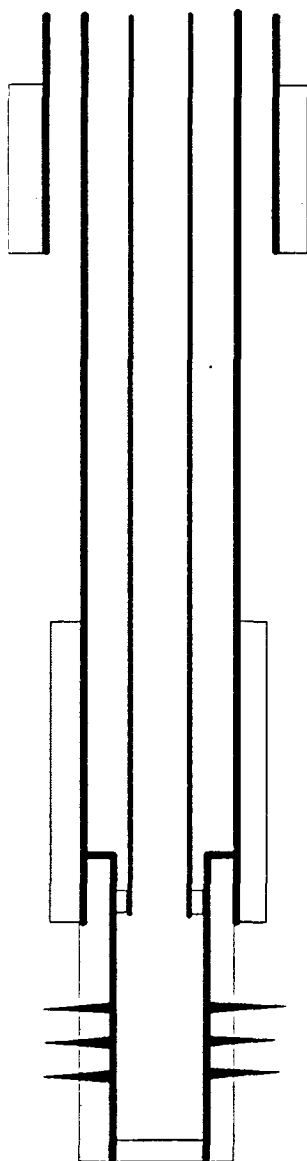
NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #12	FIELD: GRAYBURG-JACKSON
LOCATION: 660°FNL & 660°FEL, SEC 8-T17S-R31E	COUNTY: EDDY STATE: NM
ELEVATION: GL=3849'; KB=UNK	SPUD DATE: 10/17/52 COMP DATE: 12/26/52
API#: 30-015-05111	PREPARED BY: C.H. CARLETON DATE: 03/12/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 662'	10 3/4"	32.75#			12 1/4"
CASING:	0' - 3036'	7"	20#			8 5/8"
CASING:	2937' - 3730'	5"	11.5#			6"
TUBING:	0' - 3000'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

10 3/4" CASING, SET W/100 SXS. TOC @ 310' (CALC)

INJECTION INTERVAL: 2950' - 3730'

TOP OF 5" LINER @ 2937'

BAKER MODEL AD-1 PACKER @ 3000'

7" CASING SET W/200 SXS. TOC @ 2080' (CALC)

PERFORATIONS: 3066' - 3720' (OA)

PBTD @ 3719'

5" LINER SET W/150 SXS.

TD @ 3730'

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

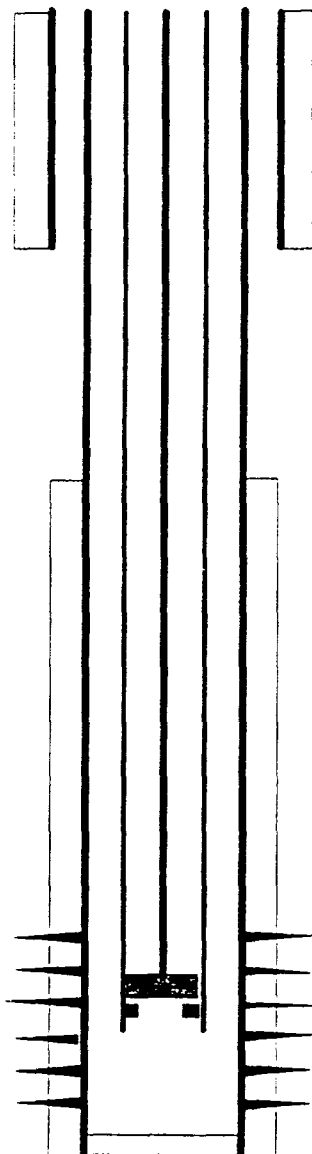
III **Well Data:**

- A. (1) J.L. Keel "B" #27
 1980'FSL & 1980'FEL
 Section 8-T17S-R31E
 Eddy County, NM
- (2) Surface Casing:
 8 5/8" 24# @ 560'. Set with 370 sxs. TOC @ surface
 Hole Size = 11"
- Production Casing:
 5 1/2" 14,17# @ 3725'. Set with 3250 sxs. TOC @ 1190'
 Hole Size = 7 7/8"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2900'.
- (4) 5 1/2" Baker AD-1 tension packer set at 2900'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2952'- 3724'(OA). **The injection interval is 2900'- 3728'.**
- (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 2900'- 3728' 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: J.L. KEEL "B" #27			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FSL & 1980'FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3781'; KB=UNK			SPUD DATE: 10/03/64		COMP DATE: 11/09/64	
API#: 30-015-10372		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 560'	8 5/8"	24#			11"
CASING:	0' - 3725'	5 1/2"	17#			7 7/8"
CASING:						
TUBING:	0' - 3443'	2 7/8"	6.5#			
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/370 SXS. TOC @ SURFACE.

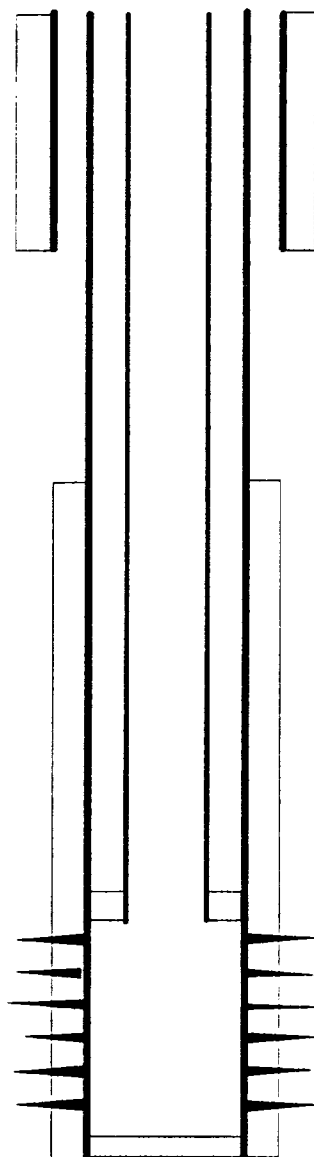
PERFORATIONS: 3064'- 3724' (OA)
SEAT NIPPLE @ 3443"

5 1/2" CASING SET W/325 SXS. TOC @ 1190'
TD @ 3725'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #27				FIELD: GRAYBURG-JACKSON		
LOCATION: 1980'FSL & 1980'FEL, SEC 8-T17S-R31E				COUNTY: EDDY	STATE: NM	
ELEVATION: GL=3781'; KB=UNK				SPUD DATE: 10/03/64	COMP DATE: 11/09/64	
API#: 30-015-10372		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 560'	8 5/8"	24#			11"
CASING:	0' - 3725'	5 1/2"	17#			7 7/8"
CASING:						
TUBING:	0' - 2900'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/370 SXS. TOC @ SURFACE.

INJECTION INTERVAL: 2900' - 3728'

BAKER MODEL AD-1 PACKER @ 2900'

PERFORATIONS: 2952' - 3724' (OA)

5 1/2" CASING SET W/325 SXS. TOC @ 1190'
TD @ 3725'

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

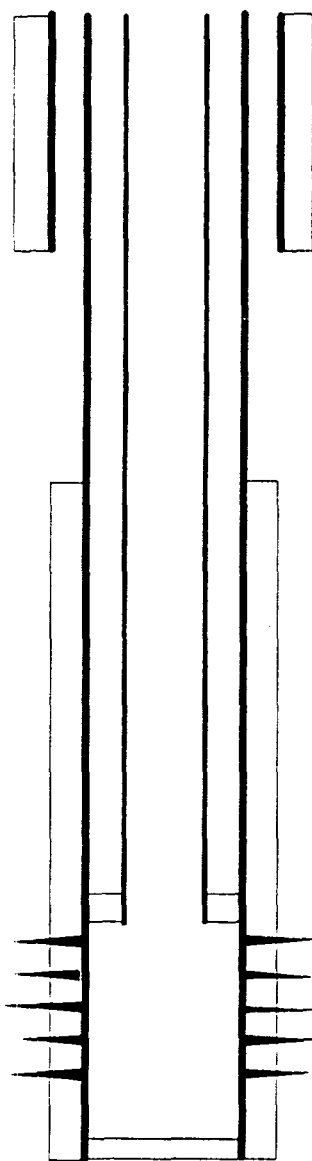
III **Well Data:**

- A. (1) J.L. Keel "B" #29
 1980'FSL & 1980'FWL
 Section 8-T17S-R31E
 Eddy County, NM
- (2) Surface Casing:
 8 5/8" 24# @ 555'. Set with 220 sxs. TOC @ surface
 Hole Size = 11"
- Production Casing:
 4 1/2" 9.5# @ 3700'. Set with 360 sxs. TOC @ 1690'
 Hole Size = 7 7/8"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2800'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2800'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2883'- 3660'. **The injection interval is 2800'- 3697'.**
- (3) This well was originally drilled and completed as a water injection well, injecting into the Grayburg/San Andres formation.
- (4) Additional perforations may be added in the 2800'- 3697' 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: J.L. KEEL "B" #29			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FSL & 1980'FWL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3713'; KB=UNK			SPUD DATE: 10/28/64		COMP DATE: 11/09/64	
API#: 30-015-10471		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 555'	8 5/8"	24#			11"
CASING:	0' - 3700'	4 1/2"	9.5#			6 3/4"
CASING:						
TUBING:	0' - 2900'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/220 SXS. TOC @ SURFACE.

BAKER MODEL "R" PACKER @ 2946'

PERFORATIONS: 2996' - 3660' (OA)

PBTD @ 3697'

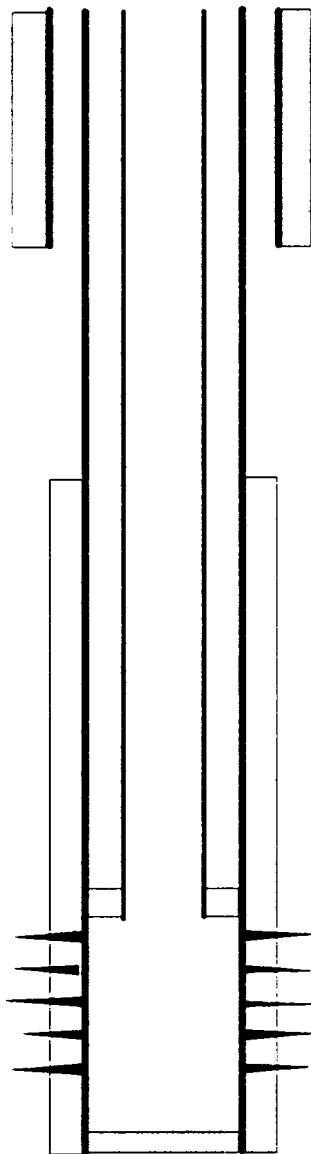
4 1/2" CASING SET W/360 SXS. TOC @ 1690'

TD @ 3700'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #29			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FSL & 1980'FWL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3713'; KB=UNK			SPUD DATE: 10/28/64		COMP DATE: 11/09/64	
API#: 30-015-10471		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 555'	8 5/8"	24#			11"
CASING:	0' - 3700'	4 1/2"	9.5#			6 3/4"
CASING:						
TUBING:	0' - 2800'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/220 SXS. TOC @ SURFACE.

INJECTION INTERVAL: 2800' - 3697'

BAKER MODEL AD-1 PACKER @ 2800'

PERFORATIONS: 2883' - 3660' (OA)

PBTD @ 3697'

4 1/2" CASING SET W/360 SXS. TOC @ 1690'

TD @ 3700'

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

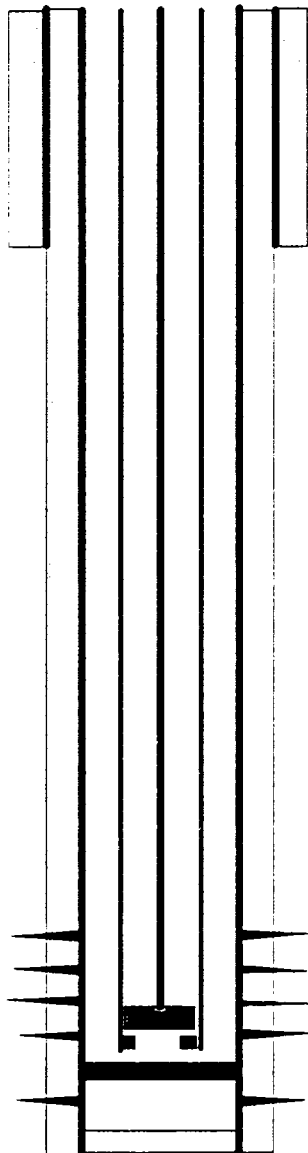
III **Well Data:**

- A. (1) J.L. Keel "B" #46
 660'FSL & 660'FEL
 Section 8-T17S-R31E
 Eddy County, NM
- (2) Surface Casing:
 8 5/8" 24# J-55 ST&C @ 387'. Set with 300 sxs. TOC @ surface
 Hole Size = 12 1/4"
- Production Casing:
 5 1/2" 17# J-55 LT&C @ 3751'. Set with 1700 sxs. TOC @ surface
 Hole Size = 7 7/8"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 3000'.
- (4) 5 1/2" Baker AD-1 tension packer set at 3000'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 3050'- 3674'(OA). **The injection interval is 2900'- 3751'.**
- (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 2900'- 3751' 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: J.L. KEEL "B" #46			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 660'FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3783'; KB=UNK			SPUD DATE: 04/23/89		COMP DATE: 05/31/89	
API#: 30-015-26100		PREPARED BY: C.H. CARLETON			DATE: 07/03/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 387'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3751'	5 1/2"	17#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3569'	2 7/8"	6.5#	J-55	EUE 8rd	
TUBING:						



☒ CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/300 SXS. TOC @ SURFACE.

PERFORATIONS: 3050'- 3589' (OA)

SEAT NIPPLE @ 3569'

CIBP @ 3655'

PERFORATIONS: 3662'- 3674' (4 HOLES)

5 1/2" CASING SET W/1700 SXS. TOC @ SURFACE

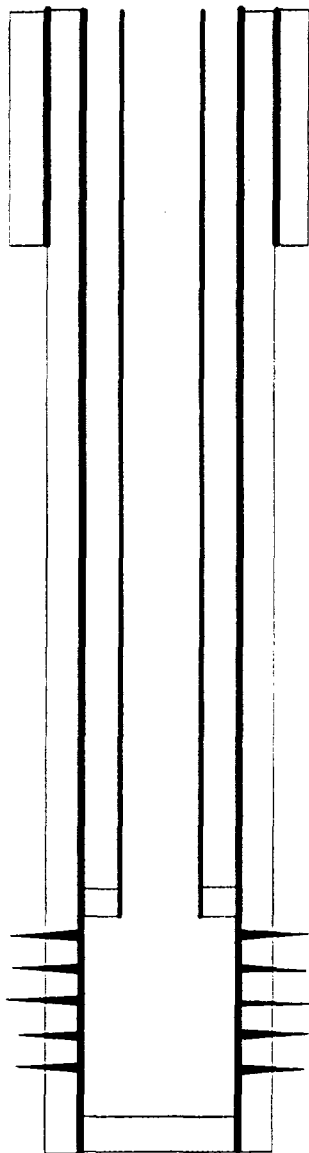
TD @ 3751'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #46	FIELD: GRAYBURG-JACKSON
LOCATION: 660'FSL & 660'FEL, SEC 8-T17S-R31E	COUNTY: EDDY STATE: NM
ELEVATION: GL=3783'; KB=UNK	SPUD DATE: 04/23/89 COMP DATE: 05/31/89
API#: 30-015-26100	PREPARED BY: C.H. CARLETON DATE: 07/03/96

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 387'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3751'	5 1/2"	17#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3000'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/300 SXS. TOC @ SURFACE.

INJECTION INTERVAL: 2900' - 3751'

BAKER AD-1 PACKER @ 3000'

PERFORATIONS: 3050' - 3674' (OA)

5 1/2" CASING SET W/1700 SXS. TOC @ SURFACE
TD @ 3751'

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

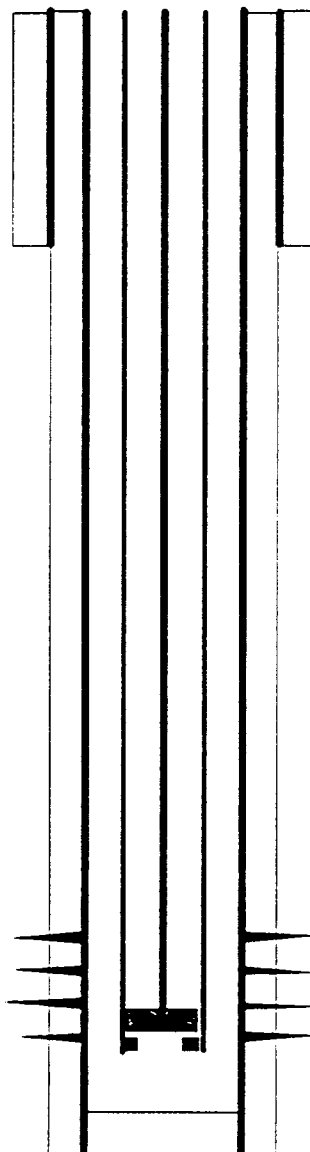
III Well Data:

- A. (1) J.L. Keel "B" #76
2030'FNL & 1980'FEL
Section 8-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 5/8" 24# J-55 ST&C @ 470'. Set with 350 sxs. TOC @ surface
Hole Size = 12 1/4"
- Production Casing:
5 1/2" 17# J-55 LT&C @ 3906'. Set with 1250 sxs. TOC @ surface
Hole Size = 7 7/8"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 3000'.
- (4) 5 1/2" Baker AD-1 tension packer set at 3000'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 3079'- 3754'(OA). **The injection interval is 2900'- 3820'.**
- (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 2900'- 3820' 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: J.L. KEEL "B" #76			FIELD: GRAYBURG-JACKSON			
LOCATION: 2030'FNL & 1980'FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3787'; KB=3801			SPUD DATE: 03/24/95		COMP DATE: 08/12/95	
API#: 30-015-28255		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 470'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3906'	5 1/2"	15.5#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3782'	2 7/8"	6.5#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/350 SXS. TOC @ SURFACE.

PERFORATIONS: 3079' - 3748' (OA)

SEAT NIPPLE @ 3782'

PBTD @ 3858'

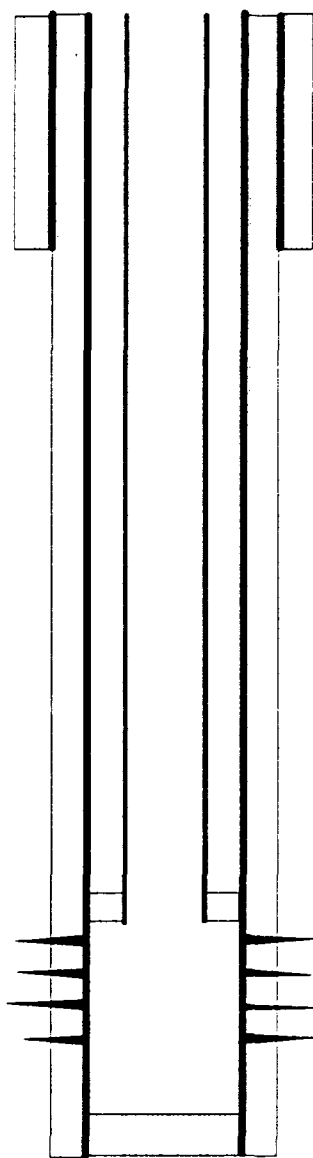
5 1/2" CASING SET W/1250 SXS. TOC @ SURFACE

TD @ 3907'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #76			FIELD: GRAYBURG-JACKSON			
LOCATION: 2030°FNL & 1980°FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3787'; KB=3801			SPUD DATE: 03/24/95		COMP DATE: 08/12/95	
API#: 30-015-28255		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 470'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3906'	5 1/2"	15.5#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3000'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/350 SXS. TOC @ SURFACE.

INJECTION INTERVAL: 2900' - 3820'

BAKER MODEL AD-1 PACKER @ 3000'

PERFORATIONS: 3079' - 3754' (OA)

PBTD @ 3858'

5 1/2" CASING SET W/1250 SXS. TOC @ SURFACE

TD @ 3907'

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

III **Well Data:**

A. (1) J.L. Keel "B" #77
 1930'FNL & 714'FEL
 Section 8-T17S-R31E
 Eddy County, NM

(2) Surface Casing:
 8 5/8" 24# J-55 ST&C @ 532'. Set with 380 sxs. TOC @ surface
 Hole Size = 12 1/4"

 Production Casing:
 5 1/2" 15.5# J-55 LT&C @ 3999'. Set with 2000 sxs. TOC @ surface
 Hole Size = 7 7/8"

(3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 3050'.

(4) 5 1/2" Baker AD-1 tension packer set at 3050'.

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

(2) Water injection will be through perforations 3091'- 3820'(OA). **The injection interval is 3000'- 3850'.**

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

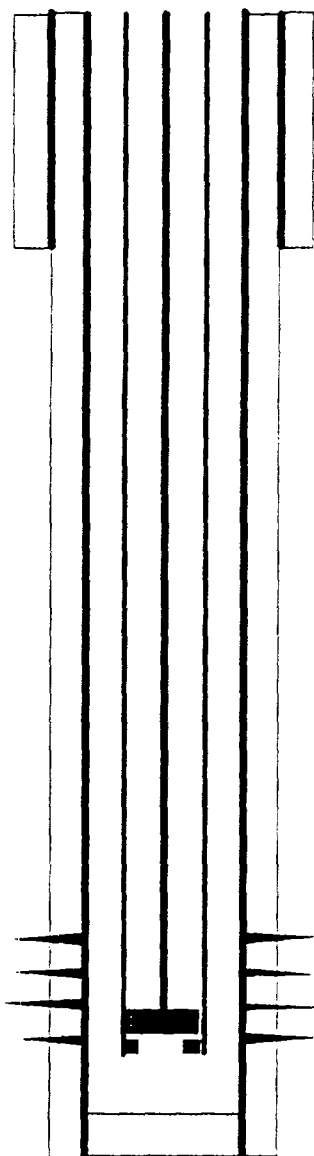
(4) Additional perforations may be added in the 3000'- 3850' interval.

(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: J.L. KEEL "B" #77			FIELD: GRAYBURG-JACKSON			
LOCATION: 1930'FNL & 714'FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3845'; KB=3853			SPUD DATE: 08/02/95		COMP DATE: 08/23/95	
API#: 30-015-28279		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 532'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3999'	5 1/2"	15.5#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3888'	2 7/8"	6.5#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/380 SXS. TOC @ SURFACE.

PERFORATIONS: 3091' - 3820' (OA)

SEAT NIPPLE @ 3888"

PBTD @ 3952'

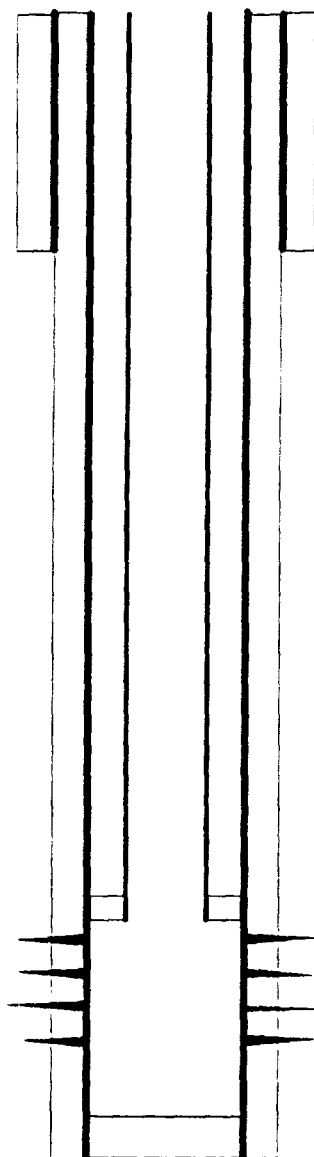
5 1/2" CASING SET W/2000 SXS. TOC @ SURFACE

TD @ 4000'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #77			FIELD: GRAYBURG-JACKSON			
LOCATION: 1930'FNL & 714'FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3845'; KB=3853			SPUD DATE: 08/02/95		COMP DATE: 08/23/95	
API#: 30-015-28279		PREPARED BY: C.H. CARLETON			DATE: 03/12/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 532'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3999'	5 1/2"	15.5#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3050'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/380 SXS. TOC @ SURFACE.

INJECTION INTERVAL: 3000' - 3850'

BAKER MODEL AD-1 PACKER @ 3050'

PERFORATIONS: 3091' - 3820' (OA)

PBTD @ 3952'

5 1/2" CASING SET W/2000 SXS. TOC @ SURFACE

TD @ 4000'

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

III **Well Data:**

A. (1) H.E. West "B" #35
 1980'FSL & 860'FWL
 Section 9-T17S-R31E
 Eddy County, NM

(2) Surface Casing:
 8 5/8" 24# J-55 ST&C @ 460'. Set with 400 sxs. TOC @ surface
 Hole Size = 12 1/4"

 Production Casing:
 5 1/2" 17# J-55 LT&C @ 3815'. Set with 1300 sxs. TOC @ surface
 Hole Size = 7 7/8"

(3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 3050'.

(4) 5 1/2" Baker AD-1 tension packer set at 3050'.

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

(2) Water injection will be through perforations 3212'- 3707'(OA) and open hole 3815'- 3950'.
 The injection interval is 3050'- 3950'.

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

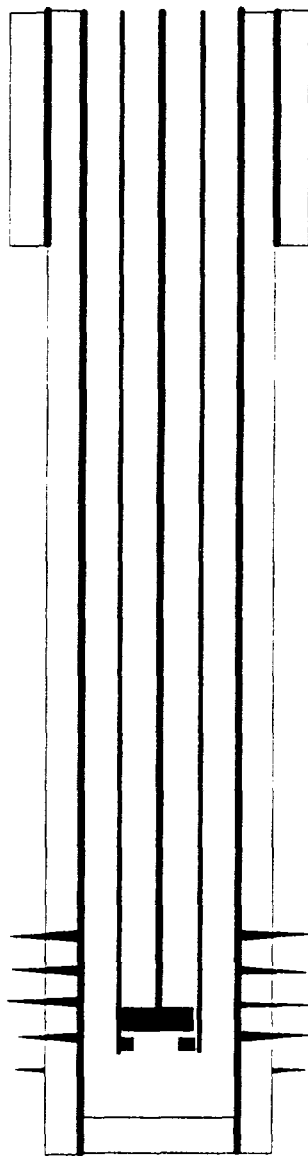
(4) Additional perforations may be added in the 3050'- 3950' interval.

(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: H.E. WEST "B" #35			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FSL & 860'FWL, SEC 9-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3857', KB=UNK			SPUD DATE: 10/05/88		COMP DATE: 11/10/88	
API# 30-015-25993		PREPARED BY: C.H. CARLETON			DATE: 07/03/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 460'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3815'	5 1/2"	17#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3642'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/400 SXS. TOC @ SURFACE.

PERFORATIONS: 3212'- 3707' (OA)

SEAT NIPPLE @ 3642'

PERFORATIONS: 3732'- 3791' SQUEEZED WITH 127 SXS

PBTD @ 3802'

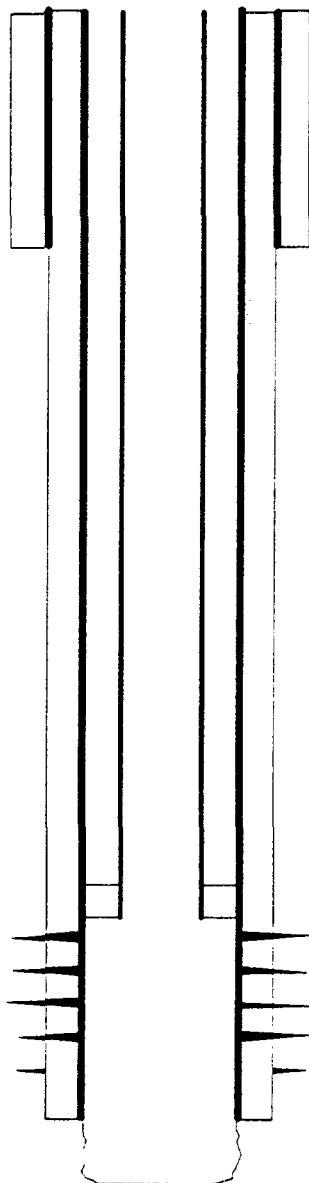
5 1/2" CASING SET W/1300 SXS. TOC @ SURFACE

TD @ 3815'

III Well Data:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: H.E. WEST "B" #35			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FSL & 860'FWL, SEC 9-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3857'; KB=UNK			SPUD DATE: 10/05/88		COMP DATE: 11/10/88	
API#: 30-015-25993		PREPARED BY: C.H. CARLETON			DATE: 07/03/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 460'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3815'	5 1/2"	17#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3000'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☐ CURRENT

☒ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

8 5/8" CASING, SET W/400 SXS. TOC @ SURFACE.

INJECTION INTERVAL: 3050' - 3950'

BAKER AD-1 PACKER @ 3000'

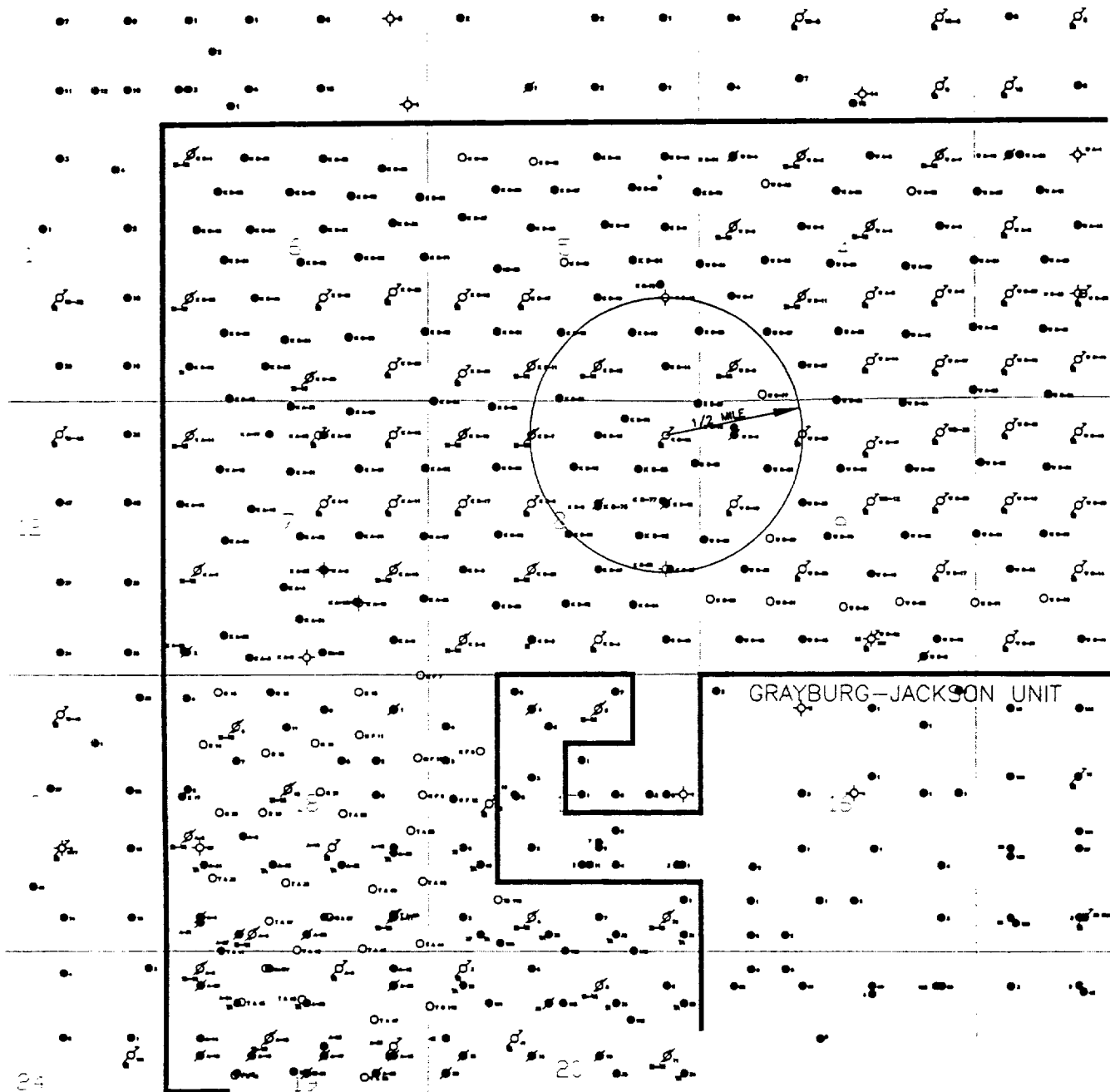
PERFORATIONS: 3212' - 3707' (OA)

PERFORATIONS: 3732' - 3791' SQUEEZED WITH 127 SXS

5 1/2" CASING SET W/1300 SXS. TOC @ SURFACE

OPEN HOLE: 3815' - 3950'

TD @ 3950'

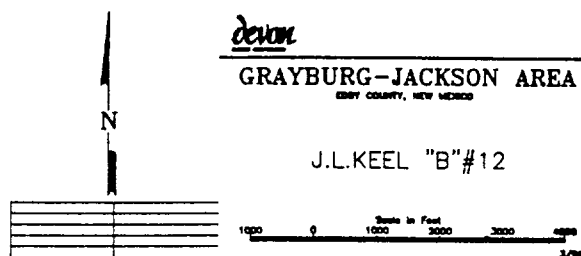


GRAYBURG-JACKSON UNIT

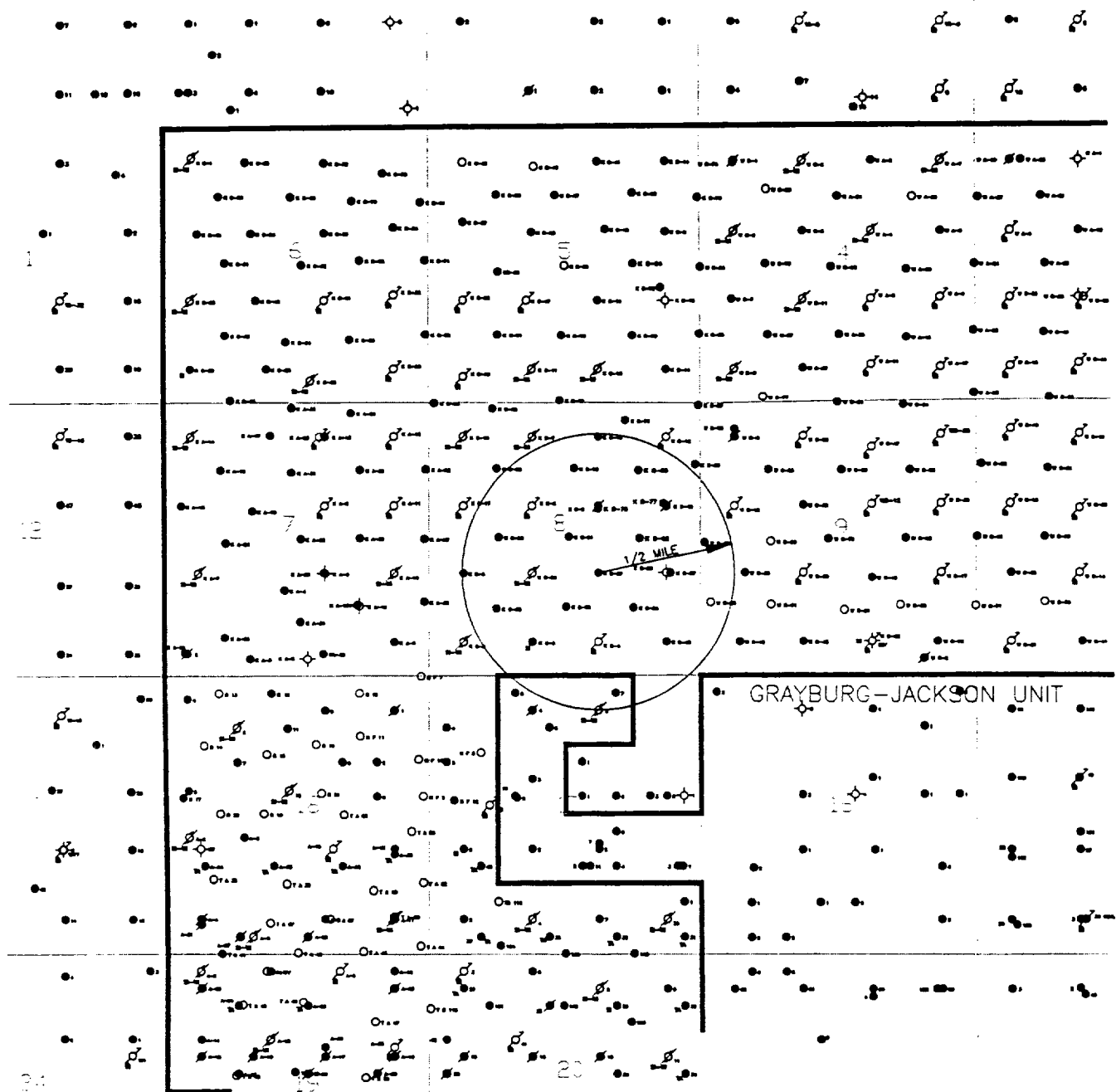
devon

GRAYBURG-JACKSON AREA
EBERY COUNTY, NEW MEXICO

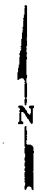
J.L. KEEL "B" #12



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GRAYBURG-JACKSON UNIT



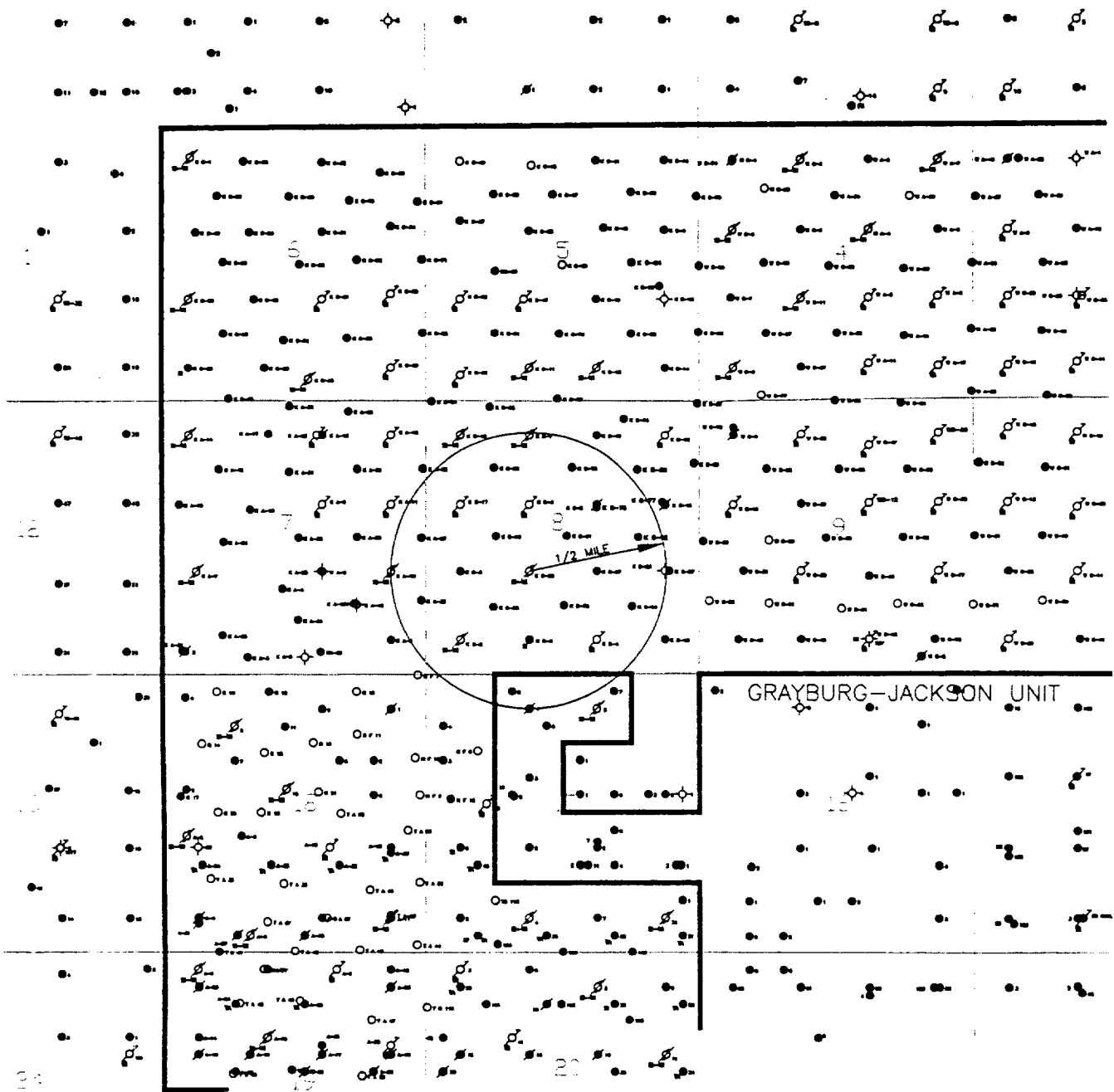
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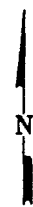
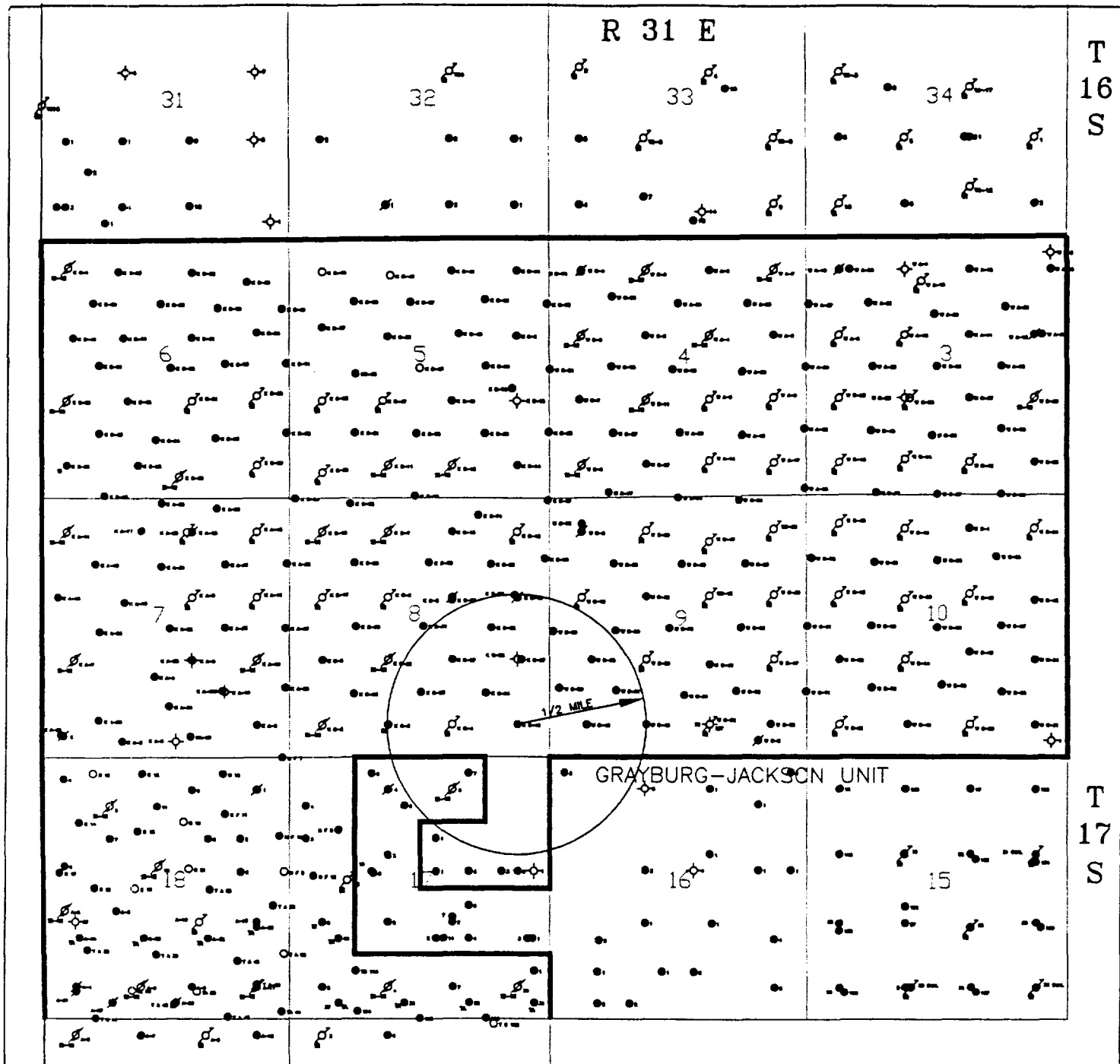
GRAYBURG-JACKSON AREA
GRAY COUNTY, NEW MEXICO

J.L. KEEL "B" #27



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CONVERTS

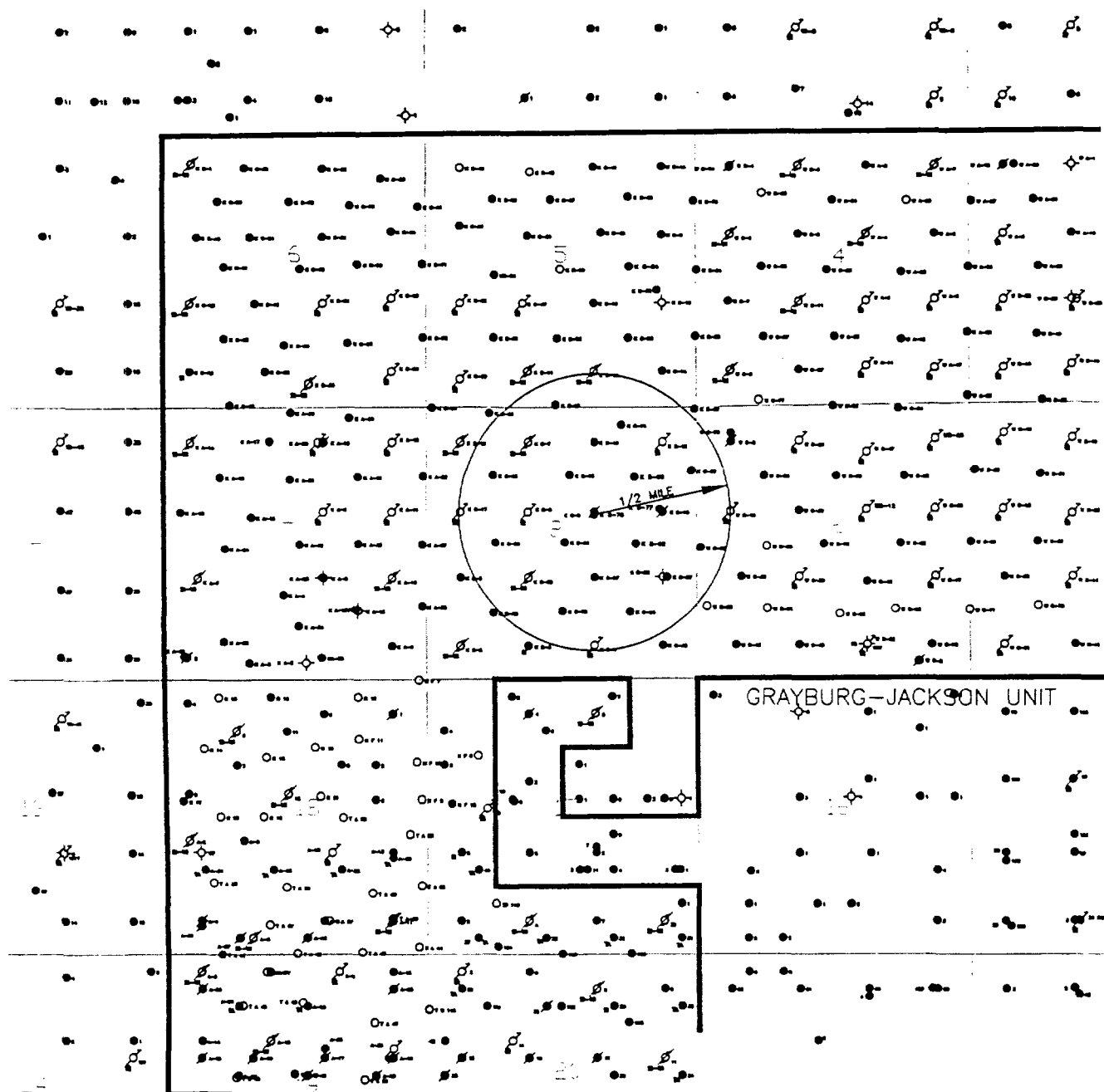
devon

GRAYBURG-JACKSON AREA
GRAY COUNTY, NEW MEXICO

J.L. KEEL "B" #46

Scale in Feet: 1000 2000 3000 4000

7/94

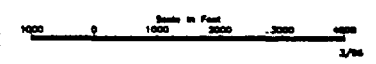
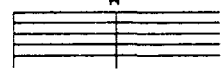


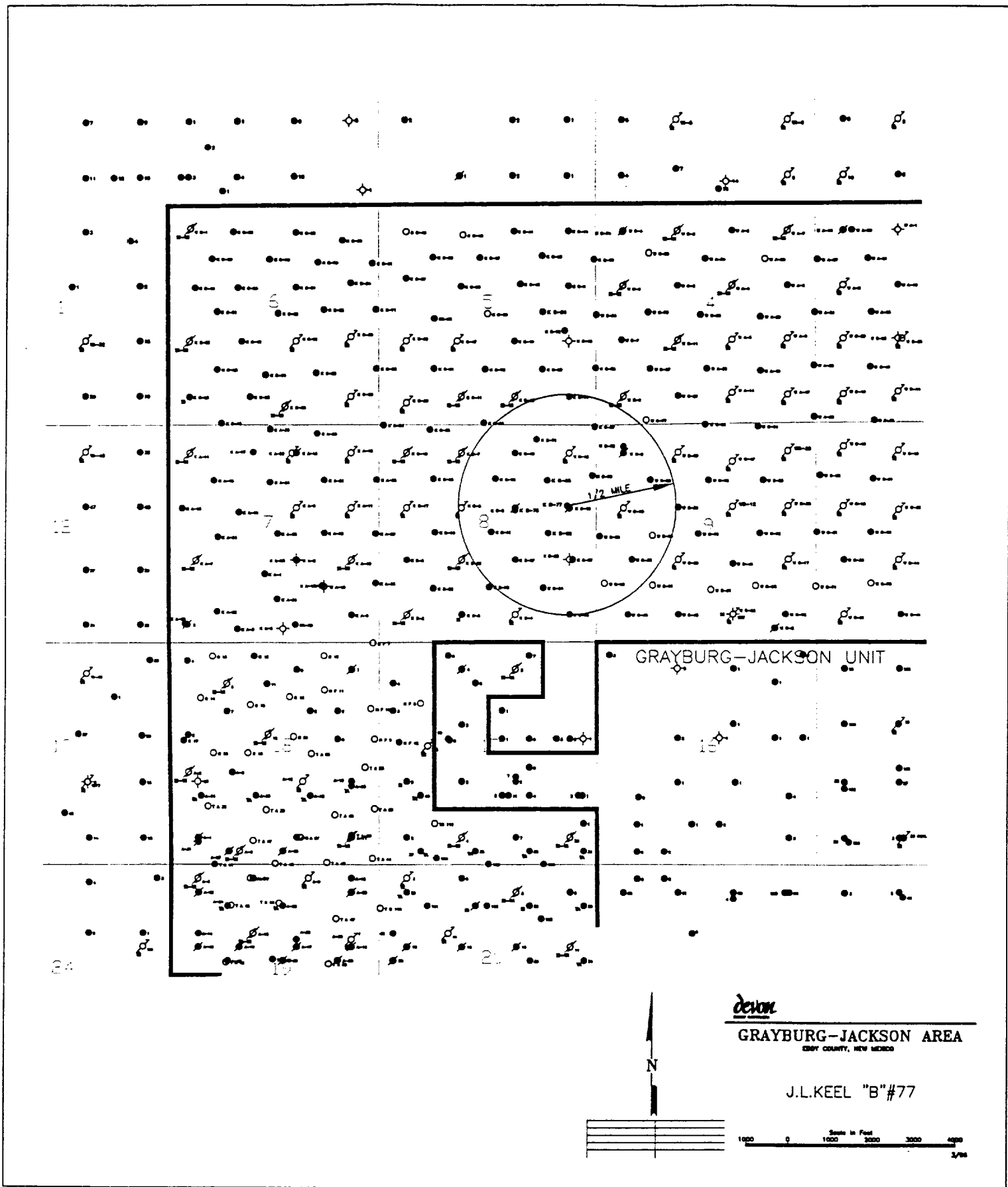
GRAYBURG-JACKSON UNIT

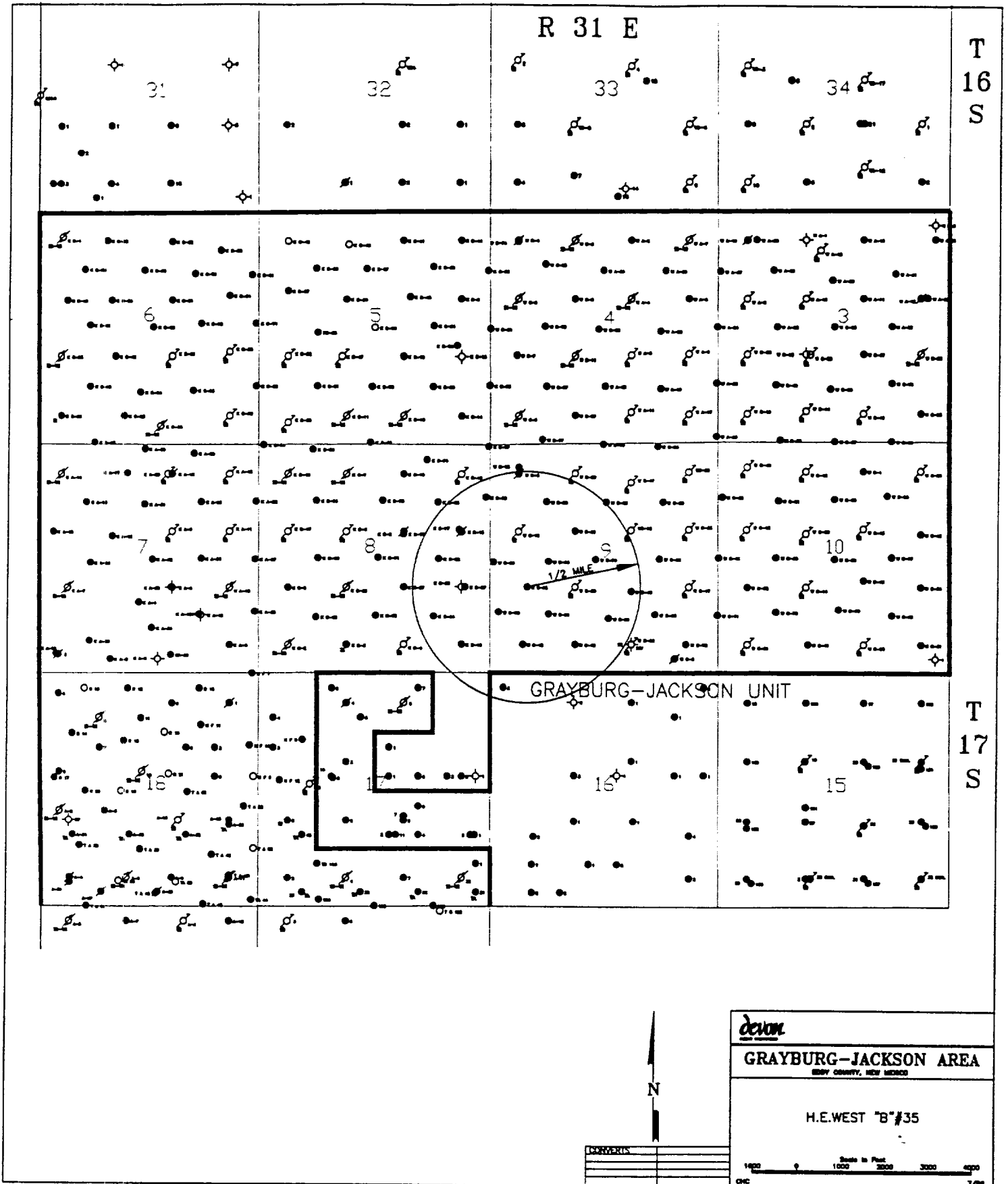
devon

GRAYBURG-JACKSON AREA
BOY COUNTY, NEW MEXICO

J.L. KEEL "B" #76







WELL LISTING "AREA OF REVIEW"
GRAYBURG-JACKSON WATERFLOOD
KEEL/WEST AREA - PHASE 4

WELL NAME	LOCATION	OPERATOR	STATUS	REMARKS
J.L. Keel "A" #10	7-T17S-R31E	Devon Energy Corp.	WIW	
J.L. Keel "A" #27	7-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "A" #35	7-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #2	8-T17S-R31E	Devon Energy Corp.	WIW	
J.L. Keel "B" #3	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #4	8-T17S-R31E	Devon Energy Corp.	WIW	
J.L. Keel "B" #5	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #7	8-T17S-R31E	Devon Energy Corp.	WIW	
J.L. Keel "B" #8	8-T17S-R31E	Devon Energy Corp.	P&A'd	
J.L. Keel "B" #10	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #12	8-T17S-R31E	Devon Energy Corp.	WIW	
J.L. Keel "B" #13	5-T17S-R31E	Devon Energy Corp.	WIW	
J.L. Keel "B" #14	5-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #15	8-T17S-R31E	Devon Energy Corp.	P&A'd	
J.L. Keel "B" #16	5-T17S-R31E	Devon Energy Corp.	P&A'd	
J.L. Keel "B" #17	8-T17S-R31E	Devon Energy Corp.	WIW	
J.L. Keel "B" #27	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #28	8-T17S-R31E	Devon Energy Corp.	P&A'd	
J.L. Keel "B" #29	8-T17S-R31E	Devon Energy Corp.	WIW	
J.L. Keel "B" #46	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #50	5-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #56	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #57	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #58	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #74	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #75	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #76	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #77	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #78	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #85	5-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #86	5-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #87	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #88	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #89	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #90	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #91	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #92	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
J.L. Keel "B" #94	8-T17S-R31E	Devon Energy Corp.	Oil Producer	
H.E. West "B" #8	9-T17S-R31E	Devon Energy Corp.	P&A'd	
H.E. West "B" #9	4-T17S-R31E	Devon Energy Corp.	WIW	
H.E. West "B" #10	9-T17S-R31E	Devon Energy Corp.	WIW	
H.E. West "B" #29	9-T17S-R31E	Devon Energy Corp.	WIW	
H.E. West "B" #30	9-T17S-R31E	Devon Energy Corp.	WIW	
H.E. West "B" #35	9-T17S-R31E	Devon Energy Corp.	Oil Producer	
H.E. West "B" #39	9-T17S-R31E	Devon Energy Corp.	Oil Producer	
H.E. West "B" #43	9-T17S-R31E	Devon Energy Corp.	Oil Producer	
H.E. West "B" #45	9-T17S-R31E	Devon Energy Corp.	Oil Producer	
H.E. West "B" #46	9-T17S-R31E	Devon Energy Corp.	Oil Producer	
H.E. West "B" #63	9-T17S-R31E	Devon Energy Corp.	Oil Producer	

WELL LISTING "AREA OF REVIEW"
GRAYBURG-JACKSON WATERFLOOD
KEEL/WEST AREA - PHASE 4

WELL NAME	LOCATION	OPERATOR	STATUS	REMARKS
H.E. West "B" #78	9-T17S-R31E	Devon Energy Corp.	Oil Producer	
H.E. West "B" #79	9-T17S-R31E	Devon Energy Corp.	Oil Producer	
H.E. West "B" #89	9-T17S-R31E	Devon Energy Corp.	Oil Producer	
		OUTSIDE OPERATED		
Foster-Eddy Federal #4	17-T17S-R31E	Oryx Energy Company	P&A'd	
Foster-Eddy Federal #5	17-T17S-R31E	Marbob Energy Corp	Oil Producer	
Foster-Eddy Federal #7	17-T17S-R31E	Marbob Energy Corp	Oil Producer	
Foster-Eddy Federal #8	17-T17S-R31E	Marbob Energy Corp	Oil Producer	
Kersy State #3	16-T17S-R31E	Ray Westall	Oil Producer	

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>
J.L. KEEL "A" #10	1980FSL & 660FEL SEC 7-T17S-R31E EDDY COUNTY, NM	8/3/50	10/23/50	OIL PRODUCER	34967/3362	10 3/4" @ 537' W/350 SXS 7" @ 2808' W/200 SXS OPEN HOLE COMPLETION: 2809'- 3362' IP=41 BOPD DEEPEN OPEN HOLE TO 3580' 4 1/2" @ 3580' W/325 SXS. TOC @ 1850' PERFORATE: 2908'- 3571'(OA) CONVERT TO WATER INJECTION WELL
J.L. KEEL "A" #27	2630FSL & 85FEL SEC 7-T17S-R31E EDDY COUNTY, NM	3/26/95	5/14/95	WATER INJECTOR	35807/3578'	8 5/8" @ 440' W/325 SXS. CEMENT TO SURFACE. 5 1/2" @ 4044' W/1325 SXS. CEMENT TO SURFACE PERFORATE: 2875'- 3734'(OA) IP=84 BOPD
J.L. KEEL "A" #36	1430FSL & 90FEL SEC 7-T17S-R31E EDDY COUNTY, NM	10/11/95	11/1/95	OIL PRODUCER	40607/4011'	13 3/8" @ 437' W/575 SXS. CEMENT TO SURFACE. 5 1/2" @ 4058' W/1500 SXS. CEMENT TO SURFACE. PERFORATE: 2841'- 3613'(OA) IP=125 BOPD
J.L. KEEL "B" #2	660FSL & 660FWL SEC 8-T17S-R31E EDDY COUNTY, NM	7/15/44	10/13/44	OIL PRODUCER	34827/3482	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
J.L. KEEL "B" #3	660FSL & 1980FWL SEC 8-T17S-R31E EDDY COUNTY, NM	10/30/44	1/12/45	OIL PRODUCER	34907/34907	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
			9/1/66		36307/36307	

VI Wells Within "Area Of Review"

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/PBTD	COMPLETION RECORD
J.L. KEEL "B" #4	660FSL & 1980FEL SEC 8-T17S-R31E EDDY COUNTY, NM	2/8/45	5/10/45	OIL PRODUCER	3279/3715	8 5/8" @ 543' W/60 SXS 7" @ 2897' W/100 SXS OPEN HOLE COMPLETION: 2897'-3279' IP=17 BOPD DEEPEN OPEN HOLE TO 3730' 4 1/2" LINER @ 2818'-3728' W/180 SXS PERFORATE: 3004'-3682'(OA) CONVERT TO WATER INJECTION WELL PERFORATE: 2978'-3666'(OA) - RETURN TO INJECTION
J.L. KEEL "B" #5	1980FSL & 660FWL SEC 8-T17S-R31E EDDY COUNTY, NM	12/28/50	3/5/51	OIL PRODUCER	3200/3169	8 5/8" @ 557' W/100 SXS 7" @ 2802' W/206 SXS OPEN HOLE COMPLETION: 2802'-3200' IP=50 BOPD DEEPEN OPEN HOLE TO 3650' - RETURN TO PRODUCTION PLUG BACK TO 3504' WITH PEA GRAVEL & CEMENT
J.L. KEEL "B" #7	660FWL & 1980FWL SEC 8-T17S-R31E EDDY COUNTY, NM	5/25/51	6/18/65 9/26/70	OIL PRODUCER	3063/3063	10 3/4" @ 600' W/100 SXS 7" @ 2916' W/200 SXS OPEN HOLE COMPLETION: 2916'-3063' IP=75 BOPD DEEPEN OPEN HOLE TO 3266' - RETURN TO PRODUCTION DEEPEN OPEN HOLE TO 3381' 4 1/2" LINER @ 2833'-3381' W/125 SXS PERFORATE: 2990'-3258' (OA) CONVERT TO WATER INJECTION WELL DEEPEN WELLBORE TO 3820' PERFORATE: 2912'-3377' (OA) - RETURN TO INJECTION

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/IBTD</u>	<u>COMPLETION RECORD</u>
J.L. KEEL "B" #8	1980FNL & 1980FEL SEC B-T17S-R31E EDDY COUNTY, NM	5/28/51	7/17/51	OIL PRODUCER	3080/3080	10 3/4" @ 596' W/100 SXS 7" @ 2945' W/200 SXS OPEN HOLE COMPLETION: 2945' - 3080' IP=65 BOPD DEEPEN OPEN HOLE TO 3400' 4 1/2" LINER @ 2740' - 3400' W/150 SXS PERFORATE: 3008' - 3298' (OA) CONVERT TO WATER INJECTION WELL PLUGGED & ABANDONED
J.L. KEEL "B" #10	660FNL & 1980FEL SEC B-T17S-R31E EDDY COUNTY, NM	8/11/51	9/29/51	OIL PRODUCER	3127/3127	10 3/4" @ 594' W/100 SXS 7" @ 3019' W/200 SXS OPEN HOLE COMPLETION: 3019' - 3127' IP=100 BOPD
J.L. KEEL "B" #12	660FNL & 660FEL SEC B-T17S-R31E EDDY COUNTY, NM	10/17/52	12/26/52	OIL PRODUCER	3551/3551	10 3/4" @ 622' W/100 SXS 7" @ 2036' W/200 SXS OPEN HOLE COMPLETION: 2036' - 3551' IP=51 BOPD DEEPEN OPEN HOLE TO 3730' 5" LINER @ 2937' - 3730' W/150 SXS PERFORATE: 3088' - 3676' (OA) CONVERT TO WATER INJECTION WELL
J.L. KEEL "B" #13	660FNL & 1980FEL SEC S-T17S-R31E EDDY COUNTY, NM	11/10/51	1/25/52	OIL PRODUCER	3497/3497	8 5/8" @ 609' W/100 SXS 7" @ 2992' W/200 SXS OPEN HOLE COMPLETION: 2992' - 3487' IP=47 BOPD DEEPEN OPEN HOLE TO 3737' 5" LINER @ 2942' - 3735' W/200 SXS PERFORATE: 3045' - 3714' (OA) CONVERT TO WATER INJECTION WELL
			1/22/64	WATER INJECTOR	3737/3715	

VI Wells Within "Area Of Review"

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/IPBTD	COMPLETION RECORD
J.L. KEEL "B" #14	660FSL & 660FEL SEC 5-T17S-R31E EDDY COUNTY, NM	2/4/52	4/18/52	OIL PRODUCER	3550/3370	8 5/8" @ 654' W/100 SXS 7" @ 3059' W/200 SXS OPEN HOLE COMPLETION: 3059'- 3550' IP=92 BOPD DEEPEN OPEN HOLE TO 3728' - RETURN TO PRODUCTION
J.L. KEEL "B" #16	1980FNL & 660FEL SEC 8-T17S-R31E EDDY COUNTY, NM	4/16/52	7/8/52	OIL PRODUCER	3728/3728 3500/3500	8 5/8" @ 777' W/100 SXS 7" @ 3075' W/200 SXS OPEN HOLE COMPLETION: 3075'- 3500' IP=35 BOPD PLUGGED & ABANDONED
J.L. KEEL "B" #16	1980FSL & 660FEL SEC 5-T17S-R31E EDDY COUNTY, NM	5/1/52	7/9/52	OIL PRODUCER	3550/3550	8 5/8" @ 643' W/100 SXS 7" @ 3081' W/200 SXS OPEN HOLE COMPLETION: 3081'- 3550' IP=35 BOPD DEEPEN OPEN HOLE TO 3780' 5" LINER @ 3002'- 3765' W/170 SXS PERFORATE: 3140'- 3756' (OA) CONVERT TO WATER INJECTION WELL PLUGGED & ABANDONED
J.L. KEEL "B" #17	1980FNL & 660FWL SEC 8-T17S-R31E EDDY COUNTY, NM	10/8/52	5/24/86	OIL PRODUCER	3780/3757 3286/3286	8 5/8" @ 568' W/100 SXS 7" @ 2839' W/200 SXS OPEN HOLE COMPLETION: 2839'- 3286' IP=45 BOPD DEEPEN OPEN HOLE TO 3615' 4 1/2" @ 3615' W/325 SXS PERFORATE: 2965'- 3601' (OA) CONVERT TO WATER INJECTION WELL PERFORATE: 2828'- 3396' (OA) - RETURN TO INJECTION
J.L. KEEL "B" #27	1980FSL & 1980FEL SEC 8-T17S-R31E EDDY COUNTY, NM	10/3/64	8/14/96	OIL PRODUCER	3615/3613 3725/3725	8 5/8" @ 560' W/370 SXS CEMENT TO SURFACE. 5 1/2" @ 3725' W/325 SXS. TOC @ 1190' PERFORATE: 3064'- 3724' (OA) IP=32 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>
J.L. KEEL "B" #23	1980FSL & 660FEL SEC 8-T17S-R31E EDDY COUNTY, NM	10/23/64	11/10/64	WATER INJECTOR	3600/3600	8 5/8" @ 550' W/225 SXS. CEMENT TO SURFACE. 4 1/2" @ 3600' W/360 SXS. TOC @ 2200'(TEMP SURVEY) PERFORATE: 3118'- 3600' (OA) COMPLETED AS WATER INJECTION WELL PLUGGED & ABANDONED
J.L. KEEL "B" #23	1980FSL & 1980FWL SEC 8-T17S-R31E EDDY COUNTY, NM	10/28/64	11/19/64	WATER INJECTOR	3700/3697	8 5/8" @ 555' W/220 SXS. CEMENT TO SURFACE. 4 1/2" @ 3700' W/360 SXS. TOC @ 1690' PERFORATE: 2996'- 3660' (OA) COMPLETED AS WATER INJECTION WELL
J.L. KEEL "B" #46	660FSL & 660FEL SEC 8-T17S-R31E EDDY COUNTY, NM	4/23/69	5/31/69	OIL PRODUCER	3751/3655	8 5/8" @ 387' W/300 SXS. CEMENT TO SURFACE. 5 1/2" @ 3751' W/1700 SXS. CEMENT TO SURFACE. PERFORATE: 3050'- 3674' (OA) SET CIBP @ 3655' IP=116 BOPD
J.L. KEEL "B" #50	1310FSL & 1310FEL SEC 5-T17S-R31E EDDY COUNTY, NM	12/7/84	3/8/95	OIL PRODUCER	4167/4112	8 5/8" @ 482' W/365 SXS. CEMENT TO SURFACE. 5 1/2" @ 4166' W/1425 SXS. CEMENT TO SURFACE. PERFORATE: 3041'- 3852' (OA) IP=136 BOPD
J.L. KEEL "B" #56	1280FNL & 1300FWL SEC 8-T17S-R31E EDDY COUNTY, NM	12/18/94	3/31/95	OIL PRODUCER	4030/3980	8 5/8" @ 434' W/365 SXS. CEMENT TO SURFACE. 5 1/2" @ 4029' W/1325 SXS. CEMENT TO SURFACE. PERFORATE: 2928'- 3859' (OA) IP=71 BOPD
J.L. KEEL "B" #57	1980FSL & 580FEL SEC 8-T17S-R31E EDDY COUNTY, NM	1/8/95	5/2/95	OIL PRODUCER	3985/3558	8 5/8" @ 424' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3983' W/1325 SXS. CEMENT TO SURFACE. PERFORATE: 3586'- 3899' (OA) SET CIBP @ 3588'. CAP WITH 10' CEMENT(1 SX) PERFORATE: 3029'- 3497' (OA) IP=30 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>
J.L. KEEL "B" #68	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
J.L. KEEL "B" #74	338FNL & 1455FEL SEC 8-T17S-R31E EDDY COUNTY, NM	8/1/95	9/11/95	OIL PRODUCER	4235/4187	8 5/8" @ 464' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 4234' W/1350 SXS. CEMENT TO SURFACE. PERFORATE: 3130'- 4022' (OA) IP=78 BOPD
J.L. KEEL "B" #75	1274FNL & 2455FEL SEC 8-T17S-R31E EDDY COUNTY, NM	7/25/95	9/9/95	OIL PRODUCER	4160/4111'	8 5/8" @ 480' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 4159' W/1925 SXS. CEMENT TO SURFACE. PERFORATE: 2994'- 3925' (OA) IP=89 BOPD
J.L. KEEL "B" #76	2030FNL & 1980FEL SEC 8-T17S-R31E EDDY COUNTY, NM	3/24/95	8/12/95	OIL PRODUCER	3907/3858'	8 5/8" @ 470' W/350 SXS. CEMENT TO SURFACE. 5 1/2" @ 3708' W/1250 SXS. CEMENT TO SURFACE. PERFORATE: 3079'- 3748' (OA) IP=130 BOPD
J.L. KEEL "B" #77	1930FNL & 714FEL SEC 8-T17S-R31E EDDY COUNTY, NM	8/2/95	8/23/95	OIL PRODUCER	4000/3952	8 5/8" @ 532' W/380 SXS. CEMENT TO SURFACE. 5 1/2" @ 3998' W/2000 SXS. CEMENT TO SURFACE. PERFORATE: 3091'- 3820' (OA) IP=118 BOPD
J.L. KEEL "B" #78	1330FSL & 2616FEL SEC 8-T17S-R31E EDDY COUNTY, NM	6/27/95	7/22/95	OIL PRODUCER	4155/4107	8 5/8" @ 426' W/350 SXS. CEMENT TO SURFACE. 5 1/2" @ 4154' W/1450 SXS. CEMENT TO SURFACE. PERFORATE: 2902'- 3791' (OA) IP=56 BOPD
J.L. KEEL "B" #85	1341FSL & 107FEL SEC 5-T17S-R31E EDDY COUNTY, NM	8/29/95	10/15/95	OIL PRODUCER	4290/4242	8 5/8" @ 496' W/380 SXS. CEMENT TO SURFACE. 5 1/2" @ 4285' W/1055 SXS. CEMENT TO SURFACE. PERFORATE: 3153'- 4061' (OA) IP=142 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/PBID</u>	<u>COMPLETION RECORD</u>
J.L. KEEL "B" #86	497FSL & 2520FWL SEC 5-T17S-R31E EDDY COUNTY, NM	5/23/95	7/2/95	OIL PRODUCER	4190/4140'	8 5/8" @ 436' W/350 SXS. CEMENT TO SURFACE. 5 1/2" @ 4168' W/1600 SXS. CEMENT TO SURFACE. PERFORATE: 3016'- 3968' (OA) IP=42 BOPD
J.L. KEEL "B" #87	40FNL & 40FEL SEC 8-T17S-R31E EDDY COUNTY, NM	8/20/95	10/15/95	OIL PRODUCER	4275/4176'	8 5/8" @ 513' W/390 SXS. CEMENT TO SURFACE. 5 1/2" @ 4274' W/1500 SXS. CEMENT TO SURFACE. PERFORATE: 3113'- 4069' (OA) IP=28 BOPD
J.L. KEEL "B" #88	1310FNL & 1200FEL SEC 8-T17S-R31E EDDY COUNTY, NM	7/18/95	9/3/95	OIL PRODUCER	4240/4190'	8 5/8" @ 440' W/490 SXS. CEMENT TO SURFACE. 5 1/2" @ 4239' W/1800 SXS. CEMENT TO SURFACE. PERFORATE: 3128'- 3991' (OA) IP=131 BOPD
J.L. KEEL "B" #89	1194FNL & 100FEL SEC 8-T17S-R31E EDDY COUNTY, NM	8/11/95	9/27/95	OIL PRODUCER	4290/4245'	8 5/8" @ 518' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 4289' W/1540 SXS. CEMENT TO SURFACE. PERFORATE: 3177'- 4033' (OA) IP=56 BOPD
J.L. KEEL "B" #90	2575FNL & 1335FWL SEC 8-T17S-R31E EDDY COUNTY, NM	3/18/95	4/22/95	OIL PRODUCER	4055/4015'	8 5/8" @ 475' W/325 SXS. CEMENT TO SURFACE. 5 1/2" @ 4064' W/1150 SXS. CEMENT TO SURFACE. PERFORATE: 2886'- 3644' (OA) IP=87 BOPD
J.L. KEEL "B" #91	2664FSL & 2562FEL SEC 8-T17S-R31E EDDY COUNTY, NM	5/15/95	6/22/95	OIL PRODUCER	4069/4022'	8 5/8" @ 466' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 4068' W/1075 SXS. CEMENT TO SURFACE. PERFORATE: 2969'- 3964' (OA) IP=176 BOPD
J.L. KEEL "B" #92	2630FSL & 1182FEL SEC 8-T17S-R31E EDDY COUNTY, NM	7/15/95	8/11/95	OIL PRODUCER	4265/4214'	8 5/8" @ 478' W/350 SXS. CEMENT TO SURFACE. 5 1/2" @ 4264' W/1485 SXS. CEMENT TO SURFACE. PERFORATE: 3041'- 3972' (OA) IP=260 BOPD

VI Wells Within "Area Of Review"

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J.L. KEEL "B" #04	1309FSL & 1299FEL SEC 8-T17S-R31E EDDY COUNTY, NM	7/6/95	7/29/95	OIL PRODUCER	4220/4171'	8 5/8" @ 468' W/350 SXS. CEMENT TO SURFACE. 5 1/2" @ 4218' W/1800 SXS. CEMENT TO SURFACE. PERFORATE: 2975'-3878' (OA) IP=140 BOPD
H.E. WEST "B" #8	660FNL & 660FWL SEC 9-T17S-R31E EDDY COUNTY, NM	2/1/52	4/22/52	OIL PRODUCER	3542/3542'	8 5/8" @ 630' W/100 SXS 7" @ 3105' W/200 SXS. TOC @ 1575' OPEN HOLE COMPLETION: 3105'-3542' IP=60 BOPD RECOMPLETE TO SEVEN RIVERS FORMATION - UNSUCCESSFUL PLUGGED & ABANDONED
H.E. WEST "B" #9	660FSL & 660FWL SEC 4-T17S-R31E EDDY COUNTY, NM	4/29/52	6/11/52	OIL PRODUCER	3544/3544'	8 5/8" @ 684' W/100 SXS 7" @ 3089' W/200 SXS OPEN HOLE COMPLETION: 3089'-3544' IP=50 BOPD DEEPEN OPEN HOLE TO 3780' 5" LINER @ 3000'-3780' W/125 SXS PERFORATE: 3158'-3728' (OA) CONVERT TO WATER INJECTION WELL
H.E. WEST "B" #10	1980FNL & 660FWL SEC 9-T17S-R31E EDDY COUNTY, NM	2/23/53	4/14/53	OIL PRODUCER	3623/3623'	8 5/8" @ 642' W/100 SXS 7" @ 3097' W/200 SXS OPEN HOLE COMPLETION: 3097'-3623' IP=35 BOPD 4 1/2" LINER @ 3010'-3435' W/150 SXS PERFORATE: 3161'-3435' (OA) CONVERT TO WATER INJECTION WELL
			7/12/64	WATER INJECTOR	3623/3498'	

VI Wells Within "Area Of Review"

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H.E. WEST "B" #29	660FNL & 1980FWL SEC 9-T17S-R31E EDDY COUNTY, NM	12/11/63	1/22/64	OIL PRODUCER	3810'/3810'	8 5/8" @ 558' W/240 SXS. CEMENT TO SURFACE. 5 1/2" @ 3810' W/300 SXS. TOC @ 1800' (TEMP SURVEY) PERFORATE: 3232'- 3804' (OA) IP=38 BOPD SET CIBP @ 3600'. CAP WITH 1 SK CEMENT. CONVERT TO WATER INJECTION WELL DRILL OUT CIBP & CLEAN OUT TO TD PERFORATE: 3224'- 3800' (OA) - RETURN TO PRODUCTION SET CIBP @ 3725' - RETURN TO WATER INJECTION DRILL OUT CIBP & DEEPEN WELLBORE TO 3950' PERFORATE: 3102'- 3948' (OA) - RETURN TO WATER INJECTION
H.E. WEST "B" #30	1980FSL & 1980FWL SEC 9-T17S-R31E EDDY COUNTY, NM	1/19/66	2/20/66	WATER INJECTOR	3952'/3810'	8 5/8" @ 551' W/300 SXS. CEMENT TO SURFACE. 4 1/2" @ 3952' W/470 SXS. TOC @ 1824' PERFORATE: 3394'- 3472' (OA) COMPLETED AS WATER INJECTION WELL PERFORATE: 3247'- 3760' (OA) - RETURN TO INJECTION
H.E. WEST "B" #35	1980FSL & 860FWL SEC 9-T17S-R31E EDDY COUNTY, NM	10/5/88	11/10/88	OIL PRODUCER	3815'/3721'	8 5/8" @ 460' W/400 SXS. CEMENT TO SURFACE. 5 1/2" @ 3815' W/1300 SXS. CEMENT TO SURFACE. PERFORATE: 3732'- 3781' (OA) SQUEEZE OFF PERFORATIONS W/166 SXS PERFORATE: 3212'- 3707' (OA) IP=250 BOPD
H.E. WEST "B" #39	1980FNL & 1980FWL SEC 9-T17S-R31E EDDY COUNTY, NM	12/13/88	1/26/89	OIL PRODUCER	3868'/3818'	8 5/8" @ 488' W/350 SXS. CEMENT TO SURFACE. 5 1/2" @ 3868' W/1150 SXS. CEMENT TO SURFACE. PERFORATE: 3253'- 3815' (OA) IP=58 BOPD
H.E. WEST "B" #43	660FSL & 760FWL SEC 9-T17S-R31E EDDY COUNTY, NM	1/20/89	3/4/89	OIL PRODUCER	3831'/3779'	8 5/8" @ 417' W/512 SXS. CEMENT TO SURFACE. 5 1/2" @ 3831' W/1230 SXS. CEMENT TO SURFACE. PERFORATE: 3141'- 3673' (OA) IP=180 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>
H.E. WEST "B" #45	6607SL & 1980FWL SEC 9-T17S-R31E EDDY COUNTY, NM	4/15/89	5/9/89	OIL PRODUCER	3855/3807	8 5/8" @ 473' W/300 SXS. CEMENT TO SURFACE. 5 1/2" @ 3855' W/1000 SXS. CEMENT TO SURFACE. PERFORATE: 3190' - 3728' (OA) IP=94 BOPD
H.E. WEST "B" #46	1880FSL & 1980FEL SEC 9-T17S-R31E EDDY COUNTY, NM	12/21/89	1/17/90	OIL PRODUCER	3938/3918'	8 5/8" @ 541' W/325 SXS. CEMENT TO SURFACE. 5 1/2" @ 3938' W/950 SXS. CEMENT TO SURFACE. PERFORATE: 3189' - 3868' (OA) IP=63 BOPD
H.E. WEST "B" #63	1335FNL & 2555FEL SEC 9-T17S-R31E EDDY COUNTY, NM	9/15/94	4/30/96	WATER INJECTOR	4280/4239'	PERFORATE: 3189' - 3868' (OA) CONVERT TO WATER INJECTION WELL
H.E. WEST "B" #78	510FNL & 660FWL SEC 9-T17S-R31E EDDY COUNTY, NM	11/3/95	3/12/95	OIL PRODUCER	4090/4044'	8 5/8" @ 548' W/365 SXS. CEMENT TO SURFACE. 5 1/2" @ 4279' W/1125 SXS. CEMENT TO SURFACE. PERFORATE: 3189' - 4151' (OA) IP=75 BOPD
H.E. WEST "B" #79	2630FNL & 2457FEL SEC 9-T17S-R31E EDDY COUNTY, NM	2/15/95	12/7/95	OIL PRODUCER	4360/4310'	8 5/8" @ 550' W/380 SXS. CEMENT TO SURFACE. 5 1/2" @ 4089' W/975 SXS. CEMENT TO SURFACE. PERFORATE: 3144' - 3888' (OA) IP=90 BOPD
H.E. WEST "B" #89	2557FNL & 75FWL SEC 9-T17S-R31E EDDY COUNTY, NM	7/2/95	4/24/95	OIL PRODUCER	4360/4310'	8 5/8" @ 602' W/365 SXS. CEMENT TO SURFACE. 5 1/2" @ 4359' W/1125 SXS. CEMENT TO SURFACE. PERFORATE: 3197' - 3898' (OA) IP=18 BOPD
H.E. WEST "B" #89	2557FNL & 75FWL SEC 9-T17S-R31E EDDY COUNTY, NM	7/2/95	9/27/95	OIL PRODUCER	4270/4222'	8 5/8" @ 513' W/450 SXS. CEMENT TO SURFACE. 5 1/2" @ 4269' W/1300 SXS. CEMENT TO SURFACE. PERFORATE: 3123' - 4099' (OA) IP=65 BOPD

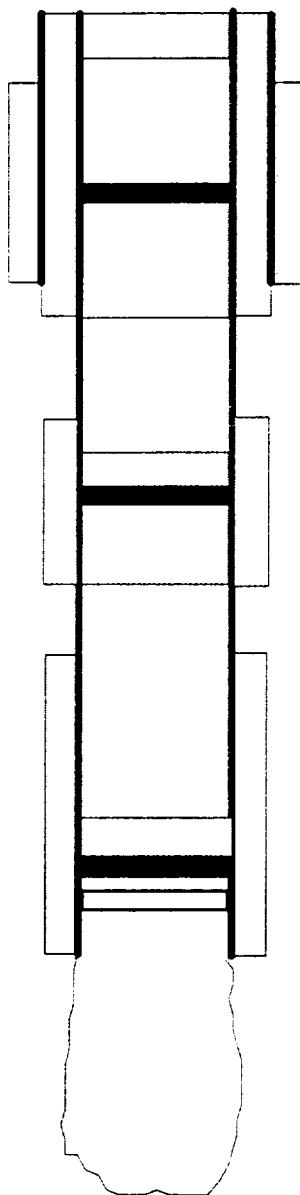
VI Wells Within "Area Of Review"

<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 #4 Oryx Energy Company	660FNL & 1880FWL 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	660FNL & 1880FWL SEC 17-T17S-R31E EDDY COUNTY, NM	1/27/44	4/30/44	OIL PRODUCER	3592/3592	8 5/8" @ 560' W/50 SXS 7" @ 2964' W/125 SXS OPEN HOLE COMPLETION: 2964'- 3592' IP=50 BOPD
FOSTER-EDDY FEDERAL #7 Marbob Energy Corporation	330FNL & 1650FWL SEC 17-T17S-R31E EDDY COUNTY, NM	11/15/60	1/2/91	OIL PRODUCER	5540/5520	8 5/8" @ 464' W/300 SXS CEMENT TO SURFACE. 5 1/2" @ 5520' W/1925 SXS CEMENT TO SURFACE. PERFORATIONS: 2977'- 3835' (OA) IP=42 BOPD
FOSTER-EDDY FEDERAL #8 Marbob Energy Corporation	330FNL & 1650FWL SEC 17-T17S-R31E EDDY COUNTY, NM	9/13/69	12/5/69	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
KERSEY STATE #3 Ray Westall	330FNL & 330FWL SEC 16-T17S-R31E EDDY COUNTY, NM	4/25/69	5/10/69	OIL PRODUCER	3680/3622	8 5/8" @ 420' W/250 SXS CEMENT TO SURFACE. 5 1/2" @ 3680' W/1275 SXS CEMENT TO SURFACE. PERFORATE: 3108'- 3622' (OA) IP=65 BOPD

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

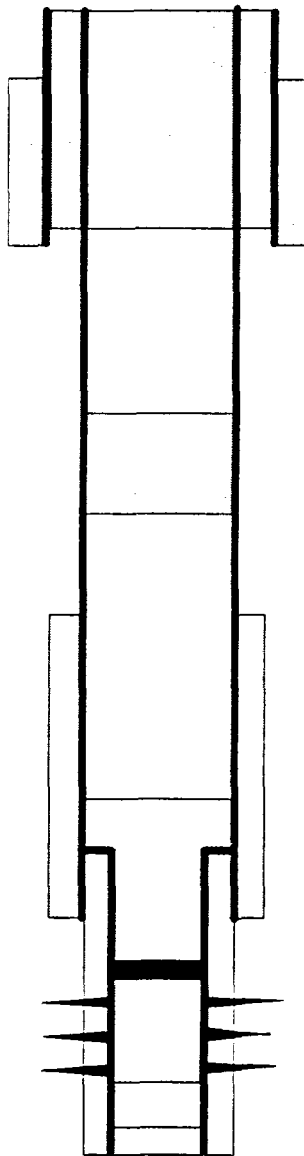
OPEN HOLE COMPLETION: 2908' - 3505'

TD @ 3505'

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #8			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 1980'FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3788'; KB=UNK			SPUD DATE: 05/25/51		COMP DATE: 07/07/51	
API#: 30-015-05109		PREPARED BY: C.H. CARLETON			DATE: 03/07/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 596'	10 3/4"	32.75#			
CASING:	0' - 2945'	7"	26#			
CASING:	2750' - 3400'	4 1/2"	9.5#			
TUBING:						
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION
DATE PLUGGED: 06/09/83

CEMENT PLUG: 0' - 580', SET W/350 SXS.
PERF 7" CASING @ 580'.
10 3/4" CASING, SET W/100 SXS. TOC @ UNKNOWN

CEMENT PLUG: 1280' - 1486', SET W/35 SXS.
PERF 7" CASING @ 1475'. UNABLE TO PUMP INTO PERFS.

TOP OF CEMENT PLUG @ 2650'
TOP OF 4 1/2" LINER @ 2750'
7" CASING SET W/200 SXS. TOC @ UNKNOWN

CEMENT RETAINER @ 2985'. PUMP 100 SXS BELOW & CAP W/35 SXS.
PERFORATIONS: 3008' - 3298' (92 HOLES)

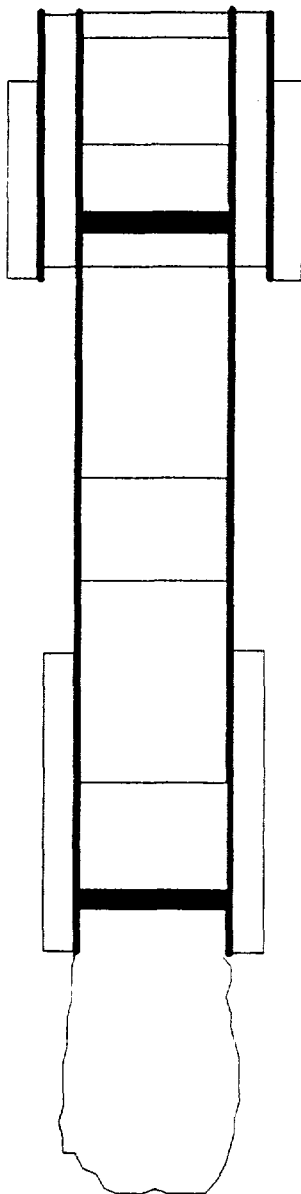
4 1/2" LINER SET W/250 SXS.
TD @ 3400'

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VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #15			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 660'FEL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3848'; KB=UNK			SPUD DATE: 04/16/52		COMP DATE: 06/13/52	
API#: 30-015-05112		PREPARED BY: C.H. CARLETON			DATE: 03/07/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 782'	8 5/8"	24#			10"
CASING:	0' - 3075'	7"	20#			8"
CASING:						
TUBING:						
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION
DATE PLUGGED: 09/24/81

CEMENT PLUG: 0' - 10'
CEMENT RETAINER @ 650'. PUMP 235 SXS BELOW & CAP W/100'.
PERF 7" CASING @ 700'.
8 5/8" CASING, SET W/100 SXS. TOC @ UNKNOWN

CEMENT PLUG: 1595' - 1695'

TOP OF CEMENT PLUG @ 2707'

CEMENT RETAINER @ 2967'. CAP RETAINER WITH 50 SXS.

NOTE: UNABLE TO PUMP INTO FORMATION BELOW RETAINER.
7" CASING SET W/200 SXS. TOC @ UNKNOWN

OPEN HOLE COMPLETION: 3075' - 3500'

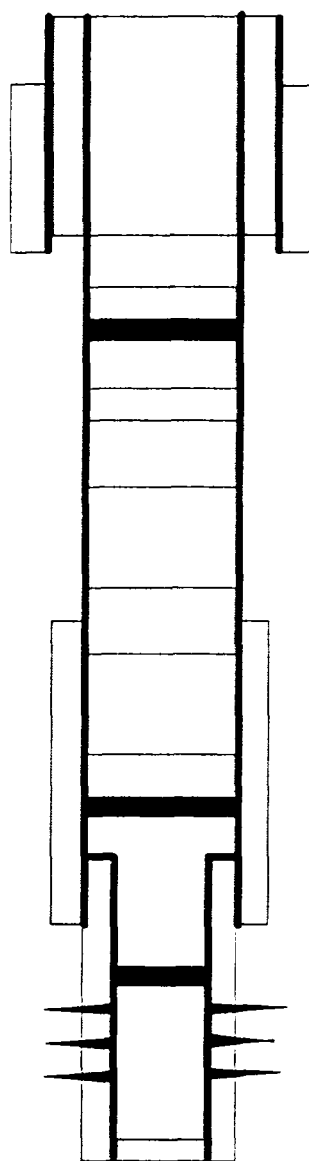
TD @ 3500'

45

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #16			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 660'FWL, SEC 5-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3895'; KB=UNK			SPUD DATE: 05/01/52		COMP DATE: 07/01/52	
API#: 30-015-05080		PREPARED BY: C.H. CARLETON			DATE: 03/07/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 643'	8 5/8"	24#	J-55		10"
CASING:	0' - 3081'	7"	26#	J-55		8"
CASING:	3002' - 3765'	5"				
TUBING:						
TUBING:						



☒ CURRENT ☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION
DATE PLUGGED: 05/24/86

CEMENT PLUG: 0' - 600'
PERF 7" CASING @ 600'.
8 5/8" CASING, SET W/100 SXS. TOC @ UNKNOWN

CEMENT RETAINER @ 735'. PUMP 200 SXS BELOW & CAP W/60' CMT.

CEMENT PLUG: 1270' - 1400'

CEMENT PLUG: 1950' - 2080'

CIBP @ 2895', CAP WITH 130' CEMENT.

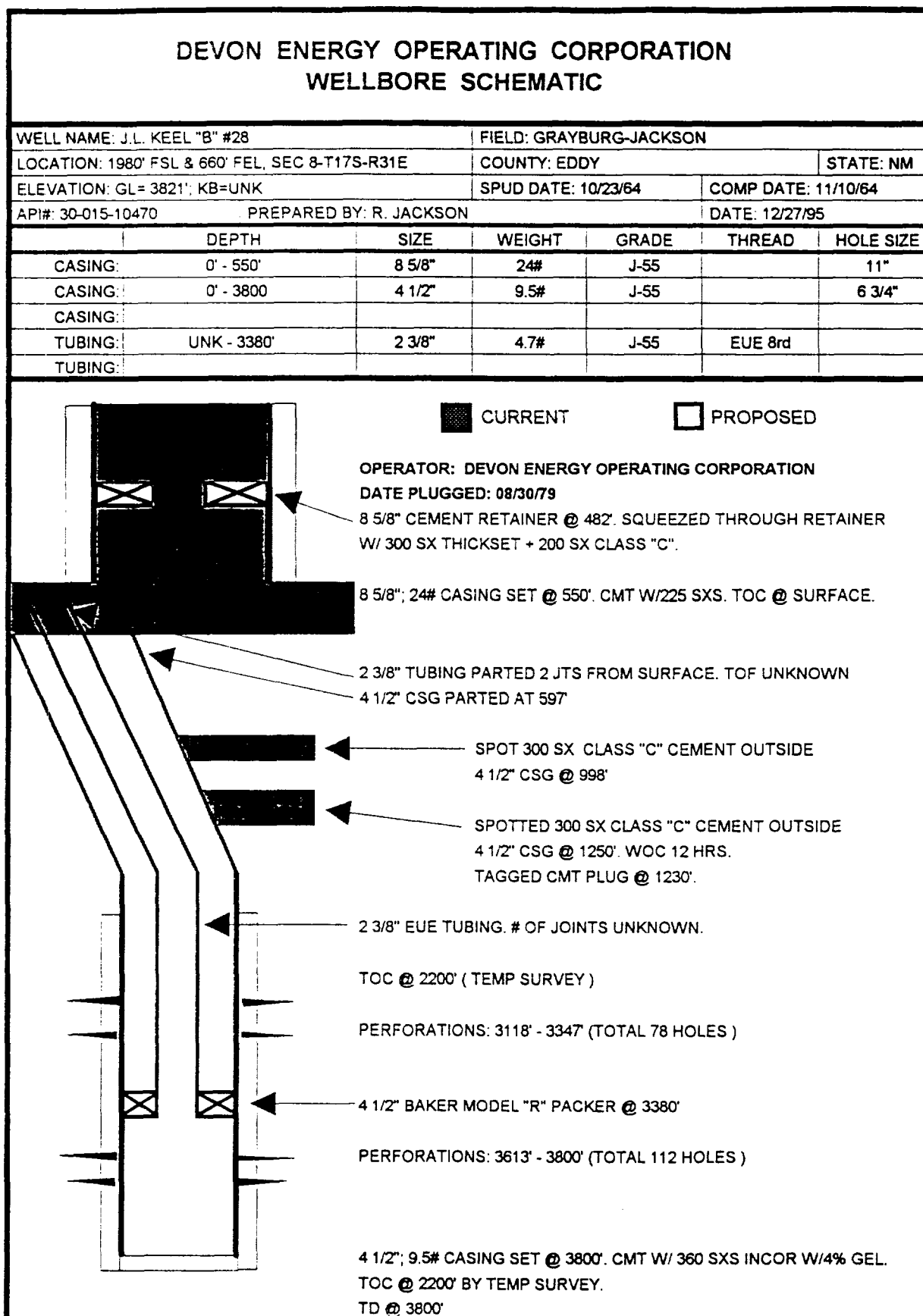
TOP OF 5" LINER @ 3002'
7" CASING SET W/200 SXS. TOC @ UNKNOWN

CIBP @ 3090'

PERFORATIONS: 3140' - 3756' (164 HOLES)

5" LINER SET W/170 SXS.
TD @ 3780'

VI Wellbore Schematic of Plugged Wells:

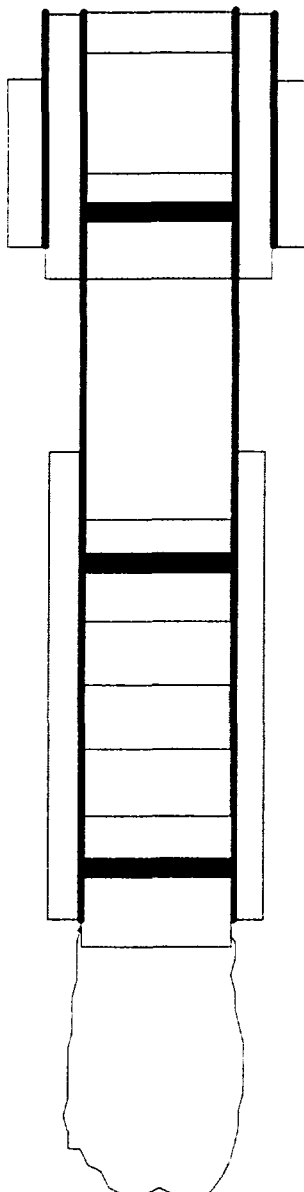


47

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY OPERATING CORPORATION
WELLBORE SCHEMATIC

WELL NAME: H.E. WEST "B" #8			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FNL & 660'FWL, SEC 9-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3882'; KB=UNK			SPUD DATE: 02/01/52		COMP DATE: 04/04/52	
API#:		PREPARED BY: C.H. CARLETON			DATE: 03/07/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 634'	8 5/8"				10"
CASING:	0' - 3105'	7"				8"
CASING:						
TUBING:						
TUBING:						



CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY OPERATING CORPORATION

DATE PLUGGED: 06/07/76

SURFACE PLUG SET WITH 10 SXs.

CEMENT RETAINER @ 557'. PUMP 175 SXS BELOW & CAP W/50' CMT.

8 5/8" CASING, SET W/100 SXS. TOC @ UNKNOWN

PERF 7" CASING @ 700'.

CEMENT RETAINER @ 1744', PUMP 125 SXS BELOW & CAP W/65 SXS.

PERF 7" CASING @ 2100'- 2261' (8 SHOTS)

CEMENT PLUG: 2350'- 2500'

CEMENT RETAINER @ 3029'. PUMP 200 SXS BELOW & CAP W/50 SXS.

7" CASING SET W/200 SXS. TOC @ 1575'

OPEN HOLE COMPLETION: 3105'- 3540'

TD @ 3540'

**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 2700'-3950'. 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.

IX 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":

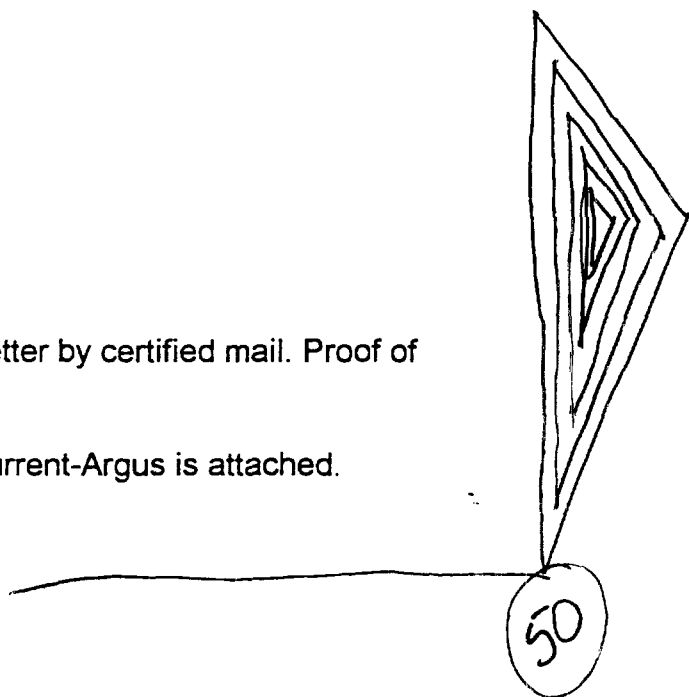
The Bureau of Land Management is the surface owner. They have been notified by letter with a copy of our application.

Devon Energy Operating Corporation operates the Grayburg-Jackson Unit in sections 5, 6, 7, & 8-T17S-R31E. Offset operators in the "area of review" are as follows:

- (1) Marbob Energy Corporation
Drawer 227
Artesia, NM 88210
- (2) Oryx Energy Company
P.O. Box 2880
Dallas, TX 75221-2880
- (3) Ray Westall
P.O. Box 4
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

July 2, 1996

Certified Mail Z 737 086 377

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

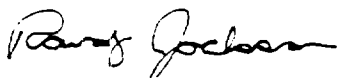
RE: Devon Energy Corporation
Grayburg-Jackson Waterflood Project
Keel/West Area - Phase 4
Sections 8 & 9 - T17S - R31E
Eddy County, NM

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing applications to convert seven (7) wells to water injection in the above referenced sections. 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

xc: Well File

51



ENERGY CORPORATION

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

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

July 2, 1996

Certified Mail Z 737 086 378

Oryx Energy Company
P.O. Box 2880
Dallas, TX 75221-2880

RE: Devon Energy Corporation
Grayburg-Jackson Waterflood Project
Keel/West Area - Phase 4
Sections 8 & 9 - T17S - R31E
Eddy County, NM

Gentlemen:

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Sincerely,
Devon Energy Corporation

Randy Jackson
District Engineer

/chc

xc: Well File

52

devon
ENERGY CORPORATION

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

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

July 2, 1996

Certified Mail Z 737 086 379

Ray Westall
P.O. Box 4
Loco Hills, NM 88255

RE: Devon Energy Corporation
Grayburg-Jackson Waterflood Project
Keel/West Area - Phase 4
Sections 8 & 9 - 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 seven (7) wells to water injection in the above referenced sections. 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

xc: Well File

53

Affidavit of Publication

Nº 17888

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:

July 4, 1996
_____, 19____
_____, 19____
_____, 19____
_____, 19____
_____, 19____

That the cost of publication is \$ 25.11,
and that payment thereof has been made and will
be assessed as court costs.

Amy McKay

Subscribed and sworn to before me this

5th day of July, 1996

Donna Crump

My commission expires 08/01/98
Notary Public

July 4, 1996

Notice is hereby given that
Devon Energy Operating Corporation is applying to the
New Mexico Oil Conservation
Division to convert seven (7)
wells to water injection wells
for secondary recovery purposes in:

Sections 8 & 9 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) 522-4560

54

FIGURE I
INITIAL CONFIGURATION

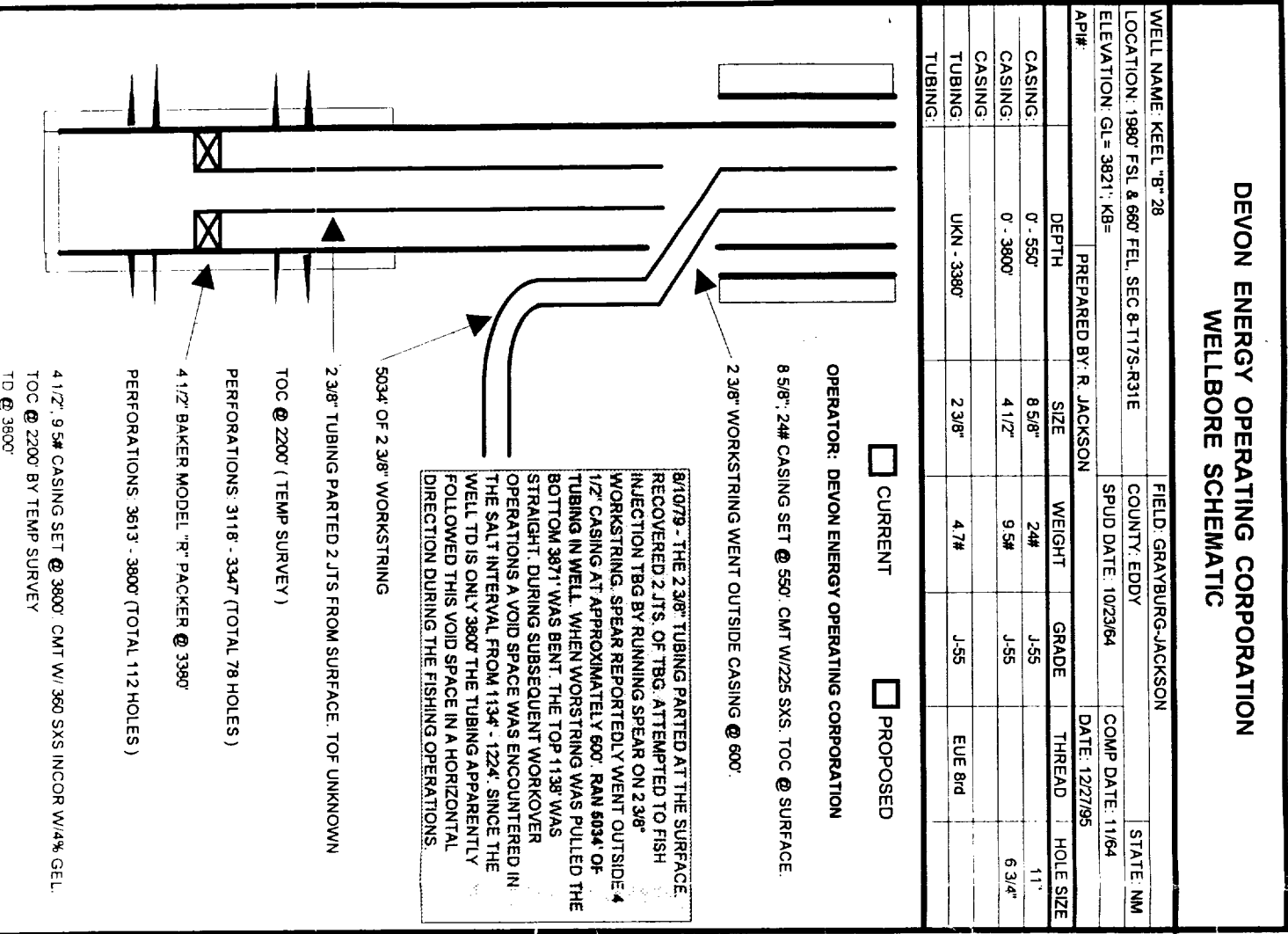


FIGURE II
CONFIGURATION DURING FISHING OPERATIONS

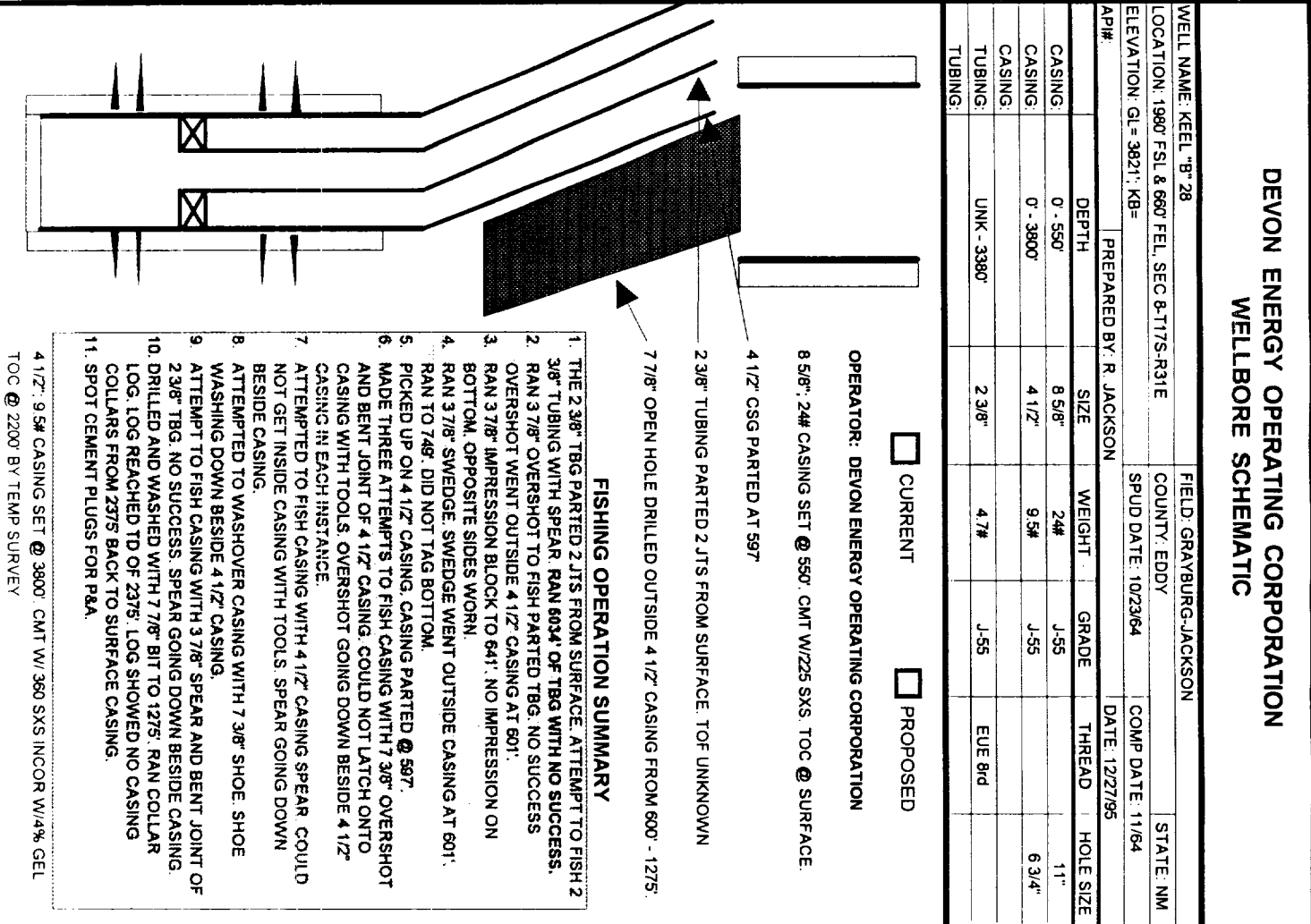
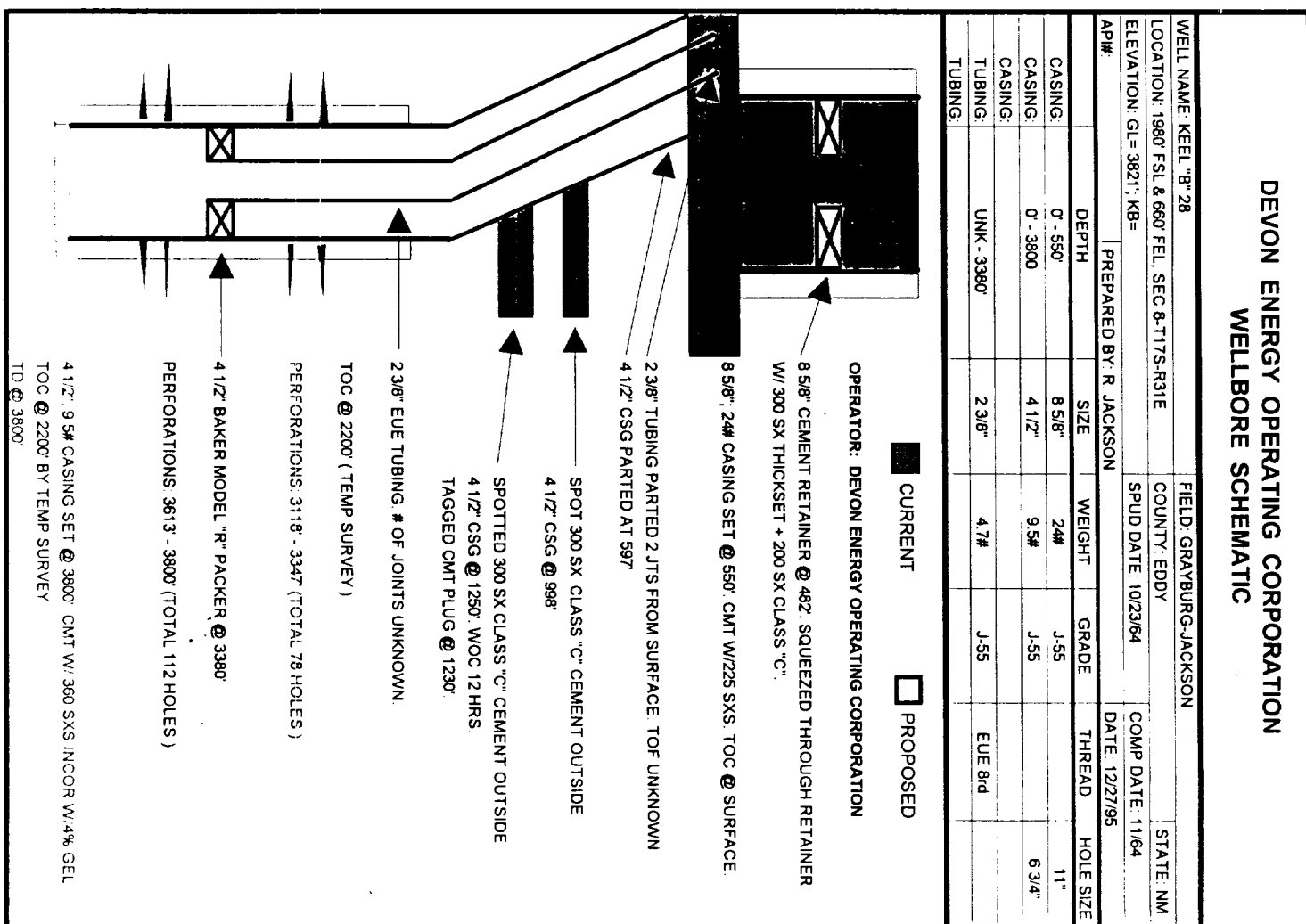


FIGURE III
PLUG AND ABANDON SCHEMATIC



BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

APPLICATION OF DEVON ENERGY
OPERATING CORPORATION FOR
WATERFLOOD EXPANSION,
EDDY COUNTY, NEW MEXICO

Case No. 11580

AFFIDAVIT REGARDING NOTICE

STATE OF NEW MEXICO)
COUNTY OF SANTA FE) ss.

James Bruce, being duly sworn upon his oath, deposes and states:


1. I am over the age of 18, and have personal knowledge of the matters stated herein.

2. I am an attorney for Applicant.

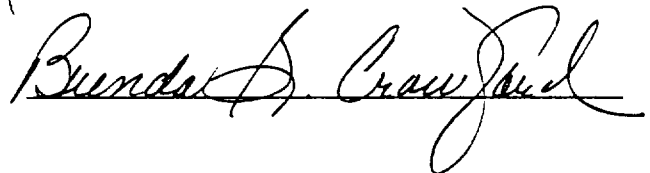
3. Applicant has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the Application filed herein.

4. Notice of the Application was provided to the interest owners at their correct addresses by certified mail. Copies of the notice letters and certified return receipts are attached hereto as Exhibit A.

5. Applicant has complied with the notice provisions of Division Rule 1207 and Form C-108.


James Bruce

SUBSCRIBED AND SWORN TO before me this 24th day of July, 1996, by James Bruce.



My Commission Expires:

10-29-99

NEW MEXICO
OIL CONSERVATION DIVISION

Devon EXHIBIT 4

CASE NO. 11580

**HINKLE, COX, EATON, COFFIELD & HENSLEY,
L.L.P.**

ATTORNEYS AT LAW

218 MONTEZUMA POST OFFICE BOX 2068
SANTA FE, NEW MEXICO 87504-2068
(505) 982-4554 FAX (505) 982-8623

LEWIS C. COX, JR. (1924-1993)
CLARENCE E. HINKLE (1904-1985)

OF COUNSEL
O. M. CALHOUN* JOE W. WOOD
KENNETH R. HOFFMAN*
RICHARD L. CAZZELL* RAY W. RICHARDS*

AUSTIN AFFILIATION
HOFFMAN & STEPHENS, P.C.
KENNETH R. HOFFMAN*
TOM D. STEPHENS*
RONALD C. SCHULTZ, JR.*
JOSE CANO*

THOMAS E. HOOD*
REBECCA NICHOLS JOHNSON
STANLEY K. KOTOVSKY, JR.
ELLEN S. CASEY
MARGARET CARTER LUDEWIG
S. BARRY PAISNER
WYATT L. BROOKS*
DAVID M. RUSSELL*
ANDREW J. CLOUTIER
STEPHANIE LANDRY
KIRT E. MOELLING*
DIANE FISHER
JULIE P. NEERKEN
WILLIAM P. SLATTERY
CHRISTOPHER M. MOODY
JOHN D. PHILLIPS
EARL R. NORRIS
JAMES A. GILLESPIE
MARGARET R. MCNETT

GARY W. LARSON
LISA K. SMITH*
NORMAN O. EWART
DARREN T. GROCE*
NOLLY MCINTOSH
MARCIA B. LINCOLN
SCOTT A. SHUART*
PAUL G. NASON
AMY C. WRIGHT*
BRADLEY G. BISHOP*
KAROLYN KING NELSON
ELLEN T. LOUDERBOUGH
JAMES H. WOOD*
NANCY L. STRATTON
TIMOTHY R. BROWN
JAMES C. MARTIN

*NOT LICENSED IN NEW MEXICO

PAUL W. EATON
CONRAD E. COFFIELD
HAROLD L. HICKSLEY, JR.
STUART D. SHANNOR
ERIC D. LAHWIG
C. D. MARTIN
ROBERT P. THIMM, JR.
MARSHALL G. MARTIN
MASTON C. COURTHNEY*
DON L. PATTERSON*
DOUGLAS L. LINSFORD
NICHOLAS J. MOEDING
T. CALDER EZZELL, JR.
WILLIAM B. BURFORD*
RICHARD E. OLSON
RICHARD R. WILFONG*
THOMAS J. MCBRIDE
NANCY S. CUSACK
JEFFREY L. FORNACIARI

JEFFREY D. HEWETT
JAMES BRUCE
JERRY F. SHACKELFORD*
JEFFREY W. HELLSBERG*
WILLIAM F. COUNTISS*
MICHAEL J. CANON
ALBERT L. PITTS
THOMAS M. MNASKO
JOHN C. CHAMBERS*
GARY D. COMPTON*
W. H. BRIAN, JR.*
RUSSELL J. BAILEY*
CHARLES R. WATSON, JR.*
STEVEN D. ARNOLD
THOMAS D. HAINES, JR.
GREGORY J. NIBERT
FRED W. SCHWENDIMANN
JAMES H. HUDSON
JEFFREY S. BAIRD*

July 3, 1996

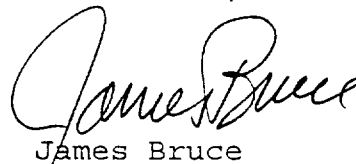
**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

To: Persons on Exhibit A

Enclosed is a copy of an application filed at the New Mexico Oil Conservation Division by Devon Energy Operating Corporation requesting the expansion of the Keel-West Waterflood Project (Grayburg-Jackson Pool), located in Sections 3-10 and 17, Township 17 South, Range 31 East, Eddy County, New Mexico. This matter will be heard at 8:15 a.m. on Thursday, July 25, 1996 at the Division's office at 2040 South Pacheco Street, Santa Fe, New Mexico. Failure to appear at that time will preclude you from contesting this matter at a later date.

Very truly yours,

HINKLE, COX, EATON, COFFIELD
& HENSLEY, L.L.P.


James Bruce

Attorneys for Devon Energy
Operating Corporation

EXHIBIT A

Marbob Energy Corp.

P. O. Drawer 217

✓ Artesia, New Mexico 88210

The Wiser Oil Company

Suite 400

✓ 8115 Preston Road
Dallas, Texas 75225

Ray Westall

✓ P. O. Box 4

Loco Hills, New Mexico 88255

✓ Trinity University & Closuit

P. O. Box 6A

Loco Hills, New Mexico 88255

✓ Bureau of Land Management

1717 West Second Street

Roswell, New Mexico 88201

✓ Oil Conservation Division

P. O. Drawer DD

Artesia, New Mexico 88210

SENDER:

- Complete items 1 and/or additional services.
- Complete items 3, 4a, a.
- 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 to receive the following services (for an extra fee):

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

Consult postmaster for fee.

3. Article Addressed to:

Bureau of Land Management
1717 West Second Street
Roswell, NM 88201

4a. Article Number

2691142894

4b. Service Type

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

7. Date of Delivery

7/8/96

5. Received By: (Print Name)

Marie Andrews

6. Signature: (Addressee or Agent)

X Marie Andrews

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.

SENDER:

- Complete items 1 and/or additional services.
- Complete items 3, 4a, a.
- 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 to receive the following services (for an extra fee):

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

Consult postmaster for fee.

3. Article Addressed to:

Trinity University & Cosuit
P.O. Box 6A
Soco Hills NM
88255

4a. Article Number

2691142895

4b. Service Type

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

7. Date of Delivery

7-8-96

5. Received By: (Print Name)

Susan Harris

6. Signature: (Addressee or Agent)

X Susan Harris

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.

SENDER:

- Complete items 1 and/or additional services.
- Complete items 3, 4a, a.
- 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 to receive the following services (for an extra fee):

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

Consult postmaster for fee.

3. Article Addressed to:

Ray Westall
PO Box 4
Soco Hills NM 88255

4a. Article Number

2691142896

4b. Service Type

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

7. Date of Delivery

2-8-96

5. Received By: (Print Name)

DORIS JACKSON

6. Signature: (Addressee or Agent)

X Doris Jackson

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.

SENDER:

- Complete items 1 and/or additional services.
- Complete items 3, 4a, and b.
- 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 want to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

*The Wiener Oil Co.
8115 Preston Road
Suite 400
Dallas TX 75225*

4a. Article Number

2091142898

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

JUL 08 1996

5. Received By: (Print Name)

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

6. Signature: (Addressee or Agent)

[Signature]

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

SENDER:

- Complete items 1 and/or additional services.
- Complete items 3, 4a, and b.
- 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 want to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

*Marboc Energy Corp.
P.O. Drawer 217
Antonia, NM 88210*

4a. Article Number

2091142899

4b. Service Type

- | | |
|---|---|
| <input type="checkbox"/> Registered | <input checked="" type="checkbox"/> Certified |
| <input type="checkbox"/> Express Mail | <input type="checkbox"/> Insured |
| <input type="checkbox"/> Return Receipt for Merchandise | <input type="checkbox"/> COD |

7. Date of Delivery

7-8-96

5. Received By: (Print Name)

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

6. Signature: (Addressee or Agent)

X [Signature]

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

CERTIFIED

LAW OFFICES

HINKLE, COX, EATON, COFFIELD & HENSLEY,
P.L.L.C.

OFFICE BOX 2068

SAN ANTONIO, TEXAS 78204-2068

NAME _____

1st Notice _____

2nd Notice _____

Return _____

Handwritten signature

- ☒ MOVED - NEW ADDRESS
- ☐ FORWARDING ORDER EXPIRED
- ☐ UNCLAIMED NOT KNOWN
- ☐ NO SUCH STREET
- ☐ INSUFFICIENT ADDRESS

Oil Conservation Division
Post Office Drawer DD
Artesia, New Mexico 88210

**RETURN RECEIPT
REQUESTED**

U.S. POSTAGE

275

HINKLE, COX, EATON, COFFIELD & HENSLEY,
L.L.P.

ATTORNEYS AT LAW

218 MONTEZUMA POST OFFICE BOX 2068
SANTA FE, NEW MEXICO 87504-2068
(505) 982-4554 FAX (505) 982-8623

LEWIS C. COX, JR. 1984-1988
CLARENCE E. HINKLE 1984-1988

OF COUNSEL
D. M. CALHOUN, JR. JOE W. WOOD
RICHARD L. CAZZELL, JR. RAY W. RICHARDS

AUSTIN AFFILIATION
HOFFMAN & STEPHENS, P.C.
KENNETH R. HOFFMAN
TON D. STEPHENS

RONALD C. SCHULTZ, JR.
July 29, 1996

THOMAS E. HOOD
REBECCA NICHOLS JOHNSON
STANLEY K. KOTOVSKY, JR.
ELLEN S. CASEY
MARGARET CARTER LUDWIG
S. BARRY PASKER
WYATT L. BROOKS
DAVID M. RUSSELL
ANDREW J. CLOUTIER
STEPHANNE LAMORY
KRYE E. MOELLING
DANNE FISHER
JULIE P. NEEDEREN
WILLIAM P. SLATTERY
CHRISTOPHER M. MOODY
JOHN D. PHILLIPS
EARL R. NORRIS
JAMES A. GALLESPIE
MARGARET R. MCNETT

GARY W. LARSON
LISA K. SMITH
NORMAN D. EWART
DARRIN T. GROCE
HOLLY MONTOSH
MARCIA B. LINCOLN
SCOTT A. SHAWRY
PAUL G. HASON
AMY C. WRIGHT
BRADLEY G. BISHOP
KAROLYN KING NELSON
ELLEN T. LOUDENBOUGH
JAMES H. WOOD
NANCY L. STRATTON
TIMOTHY R. BROWN
JAMES C. MARTIN

*NOT LICENSED IN NEW MEXICO

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Oil Conservation Division
District II - Artesia
811 S. First Street
Artesia, New Mexico 88210

Re: Application filed by Devon Energy Operating
Corporation (Grayburg-Jackson Pool)

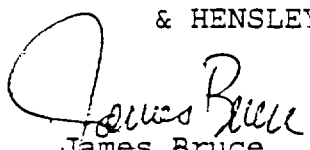
Gentlemen:

Enclosed please find copy of application filed by Devon Energy
Operating Corporation that was mailed to you certified mail on July
3, 1996, but returned as undeliverable as addressed to your post
office box.

We have again mailed a copy of the application by certified
mail for your records.

Very truly yours,

HINKLE, COX, EATON, COFFIELD
& HENSLEY, L.L.P.


James Bruce

Attorneys for Devon Energy
Operating Corporation

JB/sb

Enclosure

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

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

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

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Oil Conservation Division
District II - Artesia
811 S. First Street
Artesia, New Mexico 88210

4a. Article Number

P 023 919 454

4b. Service Type

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

7. Date of Delivery

JUL 11 1996

5. Signature (Addressee)

6. Signature (Agent)

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

PS Form 3819, December 1991 ★ U.S. GPO: 1993-352-714

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.



ENERGY CORPORATION

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

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

July 2, 1996

Certified Mail Z 737 086 377

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

RE: Devon Energy Corporation
Grayburg-Jackson Waterflood Project
Keel/West Area - Phase 4
Sections 8 & 9 - 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 seven (7) wells to water injection in the above referenced sections. 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

xc: Well File

Z 737 086 377



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	
MARBOB ENERGY CORPORATION	
Street and No.	
P.O. BOX 227	
P.O. State and ZIP Code	
ARTESIA, NM 88210	
Postage	

S Form 3800, March 1993

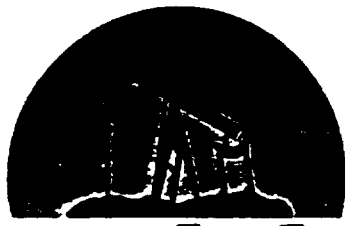
Green return card
was NOT received

& Fees

\$

Postmark or Date

Notification of Offset Operator
Grayburg-Jackson Field
Phase 4 (continuation)



marbob
energy corporation

July 8, 1996

Devon Energy Corporation
20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Attention: Randy Jackson
District Engineer

RE: Grayburg Jackson Waterflood
Sections 8 & 9-T17S-R31E
Eddy County, New Mexico

Dear Mr. Jackson:

We received your letter dated July 2, 1996 concerning the above mentioned project. The legal description wasn't as detailed as needed to make a proper decision. If you will forward this additional information we will respond as soon as possible.

Sincerely,

Rhonda Nelson
Production Department

RN/rs

7/12/96

Spoke with Rhonda Nelson and supplied her with the exact locations of the seven wells in question -

Scartson

devon
ENERGY CORPORATION

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

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

July 2, 1996

Certified Mail Z 737 086 379

Ray Westall
P.O. Box 4
Loco Hills, NM 88255


RE: Devon Energy Corporation
Grayburg-Jackson Waterflood Project
Keel/West Area - Phase 4
Sections 8 & 9 - 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 seven (7) wells to water injection in the above referenced sections. 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

Z 737 086 379

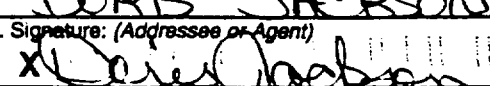


**Receipt for
Certified Mail**

No Insurance Coverage Provided

/chc

xc: Well File

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): <ul style="list-style-type: none"><input type="checkbox"/> Addressee's Address<input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: RAY WESTALL P.O. BOX 4 LOCO HILLS, NM 88255		4a. Article Number Z 737 086 379	
		4b. Service Type <ul style="list-style-type: none"><input type="checkbox"/> Registered<input type="checkbox"/> Express Mail<input type="checkbox"/> Return Receipt for Merchandise<input checked="" type="checkbox"/> Certified<input type="checkbox"/> Insured<input type="checkbox"/> COD	
5. Received By: (Print Name) DORIS JACKSON		7. Date of Delivery 7-8-96	
6. Signature: (Addressee or Agent) 		8. Addressee's Address (Only if requested and fee is paid)	

Is your RETURN ADDRESS completed on the reverse side?

PS Form 3811, December 1994

Domestic Return Receipt

devon**ENERGY OPERATING CORPORATION**20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260Telephone 405/235-3611
FAX 405/552-4550

July 17, 1996

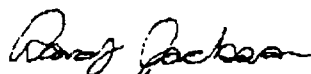
Certified Mail Z 737 086 384

NM Oil Conservation Division
District II
811 S. First St.
Artesia, NM 88210-2834Re: Application For Authorization To Inject
Grayburg-Jackson Waterflood Project
Keel/West Area - Phase 4
Eddy County, NM

Dear Sir:

Enclosed is one(1) copy of the "Application For Authorization To Inject" covering various leases in Sections 8 & 9 of T17S - R31E, Eddy County, NM.

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

Sincerely,
Devon Energy CorporationRandy Jackson
District Engineer/chc
enclosures

xc: Well File

Z 737 086 384

Receipt for
Certified Mail

No Insurance Coverage Provided

Is your RETURN ADDRESS completed on the reverse side?	SENDER: ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
	3. Article Addressed to:		4a. Article Number	
	NM OIL CONSERVATION DIVISION DISTRICT II 811 S. FIRST STREET ARTESIA, NM 88210-2834		Z 737 086 384	
	4b. Service Type		7. Date of Delivery	
	<input type="checkbox"/> Registered <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise		<input checked="" type="checkbox"/> Certified <input type="checkbox"/> Insured <input type="checkbox"/> COD	
5. Received By (Print Name)		8. Addressee's Address (Only if requested and fee is paid)		
6. Signature (Addressee or Agent)				
J. Shannon X				



ENERGY OPERATING CORPORATION

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

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

July 17, 1996

Certified Mail Z 737 086 383

NM Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, NM 87505

Re: Application For Authorization To Inject
Grayburg-Jackson Waterflood Project
Keel/West Area - Phase 4
Eddy County, NM

Dear Sir:

Enclosed are two(2) copies of the "Application For Authorization To Inject" covering various leases in Sections 8 & 9 of T17S - R31E, Eddy County, NM.

Please direct any questions regarding this matter to the undersigned at (405) 552-4580.

Sincerely,
Devon Energy Corporation

Randy Jackson
District Engineer

/chc
enclosures

xc: Well File

Z 737 086 383



Receipt for
Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	
NM Oil Conservation Division	
Street and No.	
2040 S. Pacheco Street	
P.O., State and ZIP Code	
Santa Fe, NM 87505	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	
Appl. for Authorization To Inject Grayburg-Jackson Field Phase-4a	

PS Form 3800, March 1993

KEEL "B" 28 PROPOSED MONITORING PLAN

Following is a summary of the preferred approach for establishing injection around the Keel "B" 28:

1. Convert Keel "B" 12, Keel "B" 29 and Keel "B" 76 to injection.

2. Delay conversion of the following wells:

Keel "B" 27	West "B" 35
Keel "B" 46	
Keel "B" 57	
Keel "B" 77	

3. Utilize the following wells as monitor wells to evaluate reservoir performance around the Keel "B" 28:

Keel "B" 27	West "B" 35
Keel "B" 46	West "B" 80
Keel "B" 57	West "B" 89
Keel "B" 77	
Keel "B" 92	
Keel "B" 94	

Monitor fluid levels and producing rates bi-weekly for waterflood response. As response is experienced in any monitor well the rates in the adjacent injection wells will be adjusted as necessary to maintain the producing wells in a pumped off condition.

4. After sufficient data is gathered to show that low fluid levels can be maintained in the producing wells by adjusting offset injection rates then place the following monitor wells on injection:

Keel "B" 27	West "B" 35
Keel "B" 46	
Keel "B" 77	

5. Utilize the following wells as monitor wells to evaluate reservoir performance around the Keel "B" 28:

Keel "B" 57	West "B" 80
Keel "B" 92	West "B" 89
Keel "B" 94	

Monitor fluid levels and producing rates bi-weekly for waterflood response. As response is experienced in any monitor well the rates in the adjacent injection wells will be adjusted as necessary to maintain the producing wells in a pumped off condition.

6. Continue to utilize the Keel "B" 57 as a monitor well throughout the life of the project.

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE