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devon

ENERGY PRODUCTION COMPANY, L.P.

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

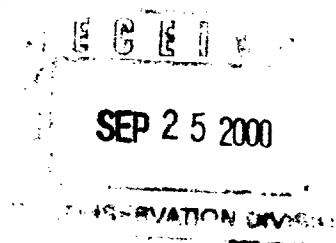
Telephone: (405) 235-3611
Fax: (405) 552-4667

September 19, 2000

Certified Mail: Z 068 589 827

New Mexico Oil Conservation Division
Mr. Mark Ashley
2040 South Pacheco Street
Santa Fe, NM 87505

Re: Application For Authorization To Inject
Grayburg-Jackson Waterflood Project
Eddy County, NM



Dear Sir:

Enclosed are two copies of the "Application For Authority To Inject" covering the J.L. Keel "B" #2 and the J.L. Keel "B" #3 wells located in Section 8-T17S-R31E, Eddy County, NM. These wells have previously been approved under Administrative Order No. WFX-713 dated May 19, 1997. However, due to time and budget constraints the conversion/workover was deferred until a later date.

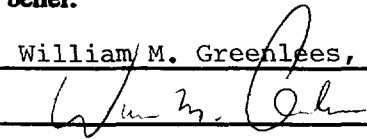
Please direct any questions regarding this application to the undersigned at (405)552-4528.

Sincerely,
Devon Energy Production Company, L.P.


Charles H. Carleton
Sr. Engineering Technician

/chc
enclosures

APPLICATION FOR AUTHORIZATION TO INJECT

- ✓ I. PURPOSE: X Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- ✓ II. OPERATOR: Devon Energy Production Company, L.P.
ADDRESS: 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102-8260
CONTACT PARTY: Mr. William M. Greenlees, P.E. PHONE: (405) 552-8194
- ✓ 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: X 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. William M. Greenlees, P.E. TITLE: Operations Engineering Advisor
SIGNATURE:  DATE: September 19, 2000
- * 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 PRODUCTION COMPANY, L.P.
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD

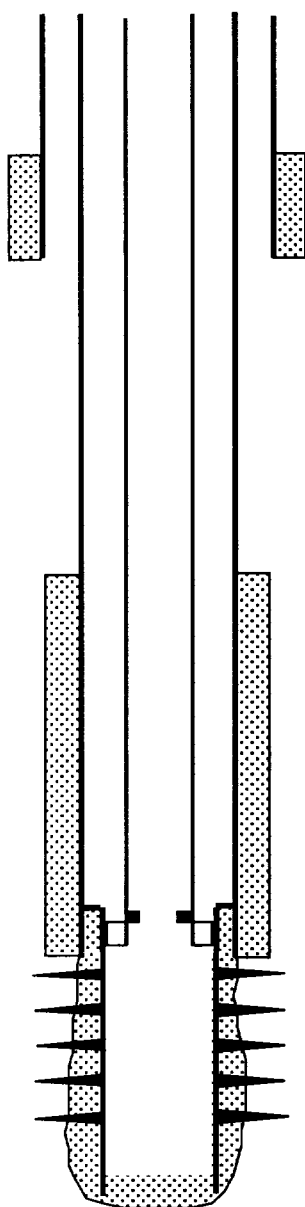
III Well Data:

- A. (1) J.L. Keel "B" #2
660'FSL & 660'FWL
Section 8-T17S-R31E
Eddy County, NM
- (2) Surface Casing:
8 5/8" 28# @ 524'. Set with 75 sxs. TOC @ 330'(calculated)
Hole Size = 11"(estimated)
- Production Casing:
7" 24# @ 2850'. Set with 100 sxs. TOC @ 1920'(calculated)
Hole Size = 7 7/8"(estimated)
- Liner:
4 1/2" 9.5# @ 2752'- 3618'. Set with 104 sxs. TOC @ liner top.
Hole Size = 6 1/4" (estimated)
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2650'.
- (4) 7" Baker Lock-Set 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 2735'- 3620'(OA). **The injection interval is 2735'- 3620'.**
- (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 2735'- 3620' 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 CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #2			FIELD: GRAYBURG-JACKSON			
LOCATION: 660' FSL & 660' FWL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3708'; KB=UNK			SPUD DATE: 07/15/44		COMP DATE: 10/16/44	
API#: 30-015-05103		PREPARED BY: C.H. CARLETON			DATE: 07/06/98	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 524'	8 5/8"	28#			
CASING:	0' - 2850'	7"	24#			
CASING:	2752' - 3618'	4 1/2"	9.5#	J-55	ST&C	
TUBING:	0' - 2847'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☒ CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY CORPORATION (NEVADA)

8 5/8" CASING @ 524' W/75 SXS. TOC @ 330' (calculated)

SEAT NIPPLE @ 2846'

BAKER MODEL "R" PACKER @ 2847'

7" CASING @ 2850' W/100 SXS. TOC @ 1920' (calculated)

PERFORATIONS: 2914'- 3555' (OA) - 168 HOLES

PBTD @ 3616'

4 1/2" LINER @ 2752'- 3618' W/104 SXS.

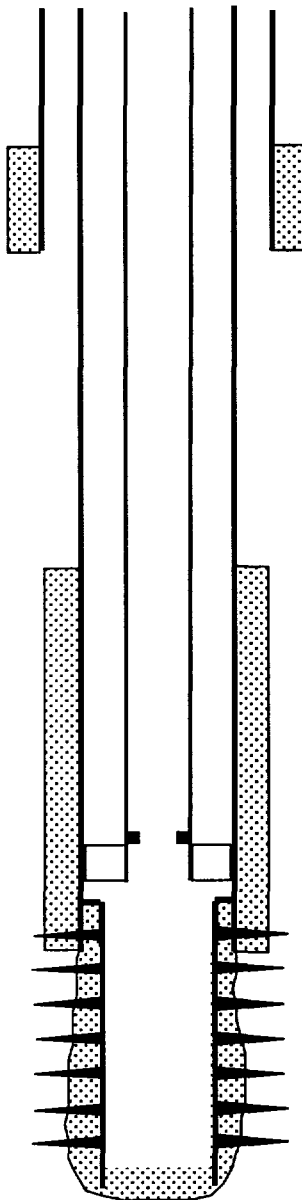
TD @ 3620'

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

III Well Data

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #2				FIELD: GRAYBURG-JACKSON		
LOCATION: 660' FSL & 660' FWL, SEC 8-T17S-R31E				COUNTY: EDDY		STATE: NM
ELEVATION: GL=3708'; KB=UNK				SPUD DATE: 07/15/44		COMP DATE: 10/16/44
API#: 30-015-05103		PREPARED BY: C.H. CARLETON				DATE: 03/27/00
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 524'	8 5/8"	28#			
CASING:	0' - 2850'	7"	24#			
CASING:	2752' - 3618'	4 1/2"	9.5#	J-55	ST&C	
TUBING:	0' - 2650'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION (NEVADA)

8 5/8" CASING @ 524' W/75 SXS. TOC @ 330' (calculated)

INJECTION INTERVAL: 2735'- 3620'

BAKER MODEL "LOC-SET" PACKER @ 2650'

7" CASING @ 2850' W/100 SXS. TOC @ 1920' (calculated)

PERFORATIONS: 2735'- 3620' (OA)

PBTD @ 3616'

4 1/2" LINER @ 2752'- 3618' W/104 SXS.

TD @ 3620'

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

DEVON ENERGY PRODUCTION COMPANY, L.P.
APPLICATION FOR AUTHORITY TO INJECT
GRAYBURG-JACKSON WATERFLOOD

III Well Data:

A. (1) J.L. Keel "B" #3
660'FSL & 1980'FWL
Section 8-T17S-R31E
Eddy County, NM

(2) Surface Casing:
8 5/8" 28# @ 518'. Set with 50 sxs. TOC @ 390'(calculated)
Hole Size = 11"(estimated)

Intermediate Casing:
7" 24# @ 2930'. Set with 100 sxs. TOC @ 2000'(calculated)
Hole Size = 7 7/8"(estimated)

Production Casing:
4 1/2" 11.6# J-55 LT&C @ 3630'. TOC @ surface.
Hole Size = 6 1/4"

(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 2775'- 3630'(OA). **The injection interval is 2775'- 3630'.**

(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 2775'- 3630' interval.

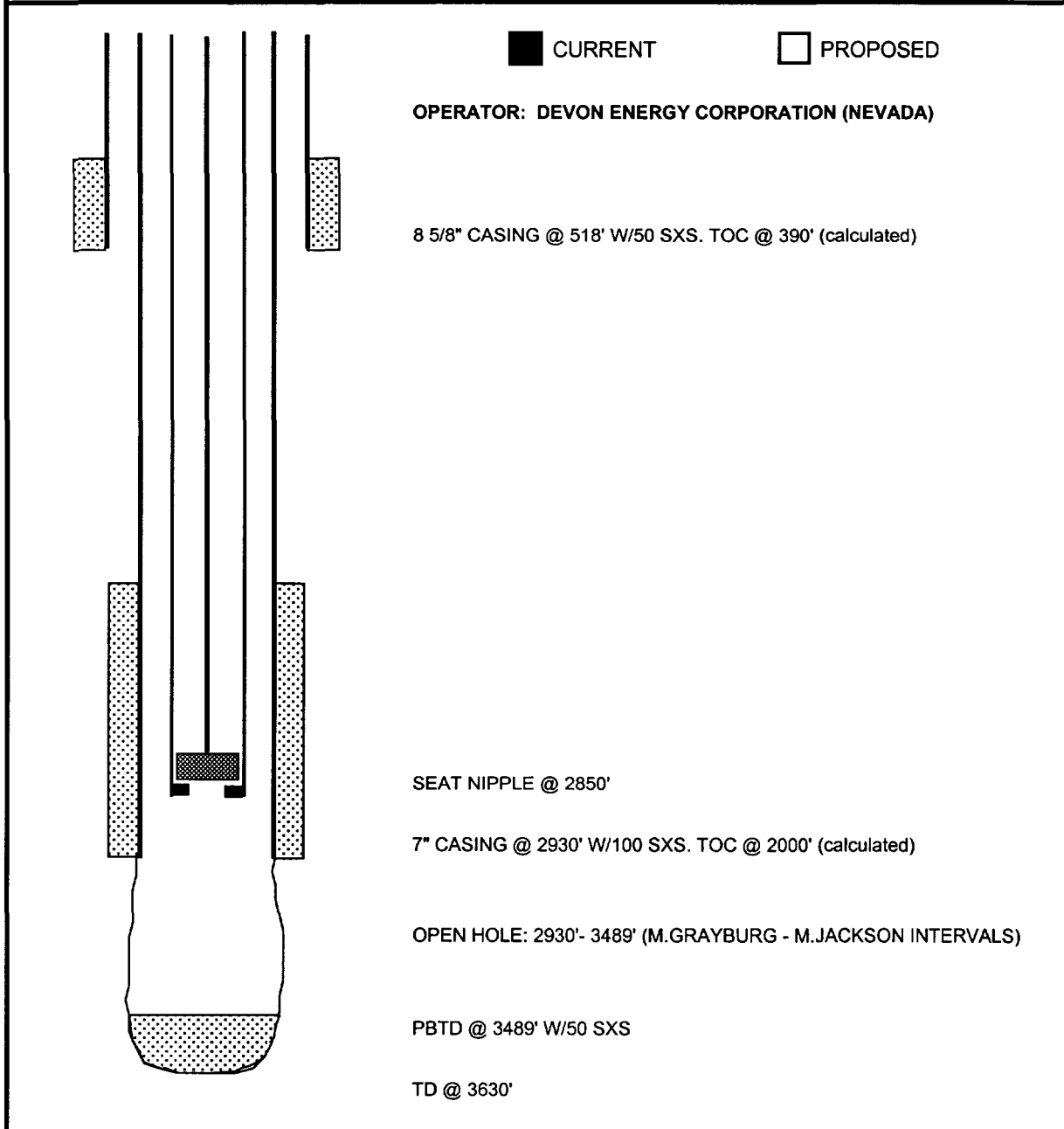
(5) The top of the Seven Rivers formation is at approximately 2300', there are no known lower oil zones

III Well Data

DEVON ENERGY CORPORATION

WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #3			FIELD: GRAYBURG-JACKSON			
LOCATION: 660' FSL & 1980' FWL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3713'; KB=UNK			SPUD DATE: 10/30/44		COMP DATE: 02/01/45	
API#: 30-015-05104		PREPARED BY: C.H. CARLETON			DATE: 07/06/98	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 518'	8 5/8"	28#		8 RD	10"
CASING:	0' - 2930'	7"	24#			8"
CASING:						
TUBING:	0' - 2850'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



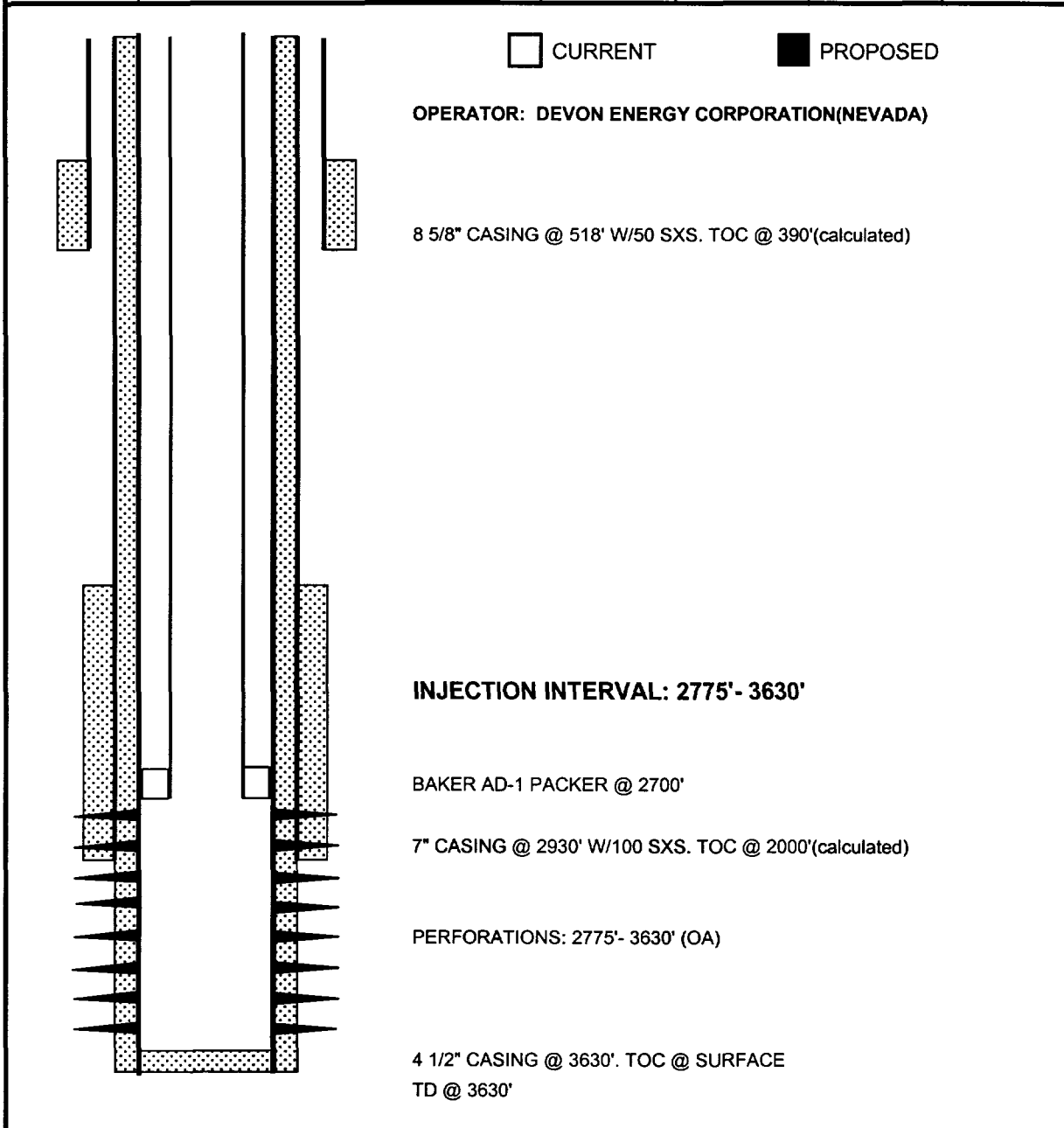
NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

III Well Data

DEVON ENERGY CORPORATION

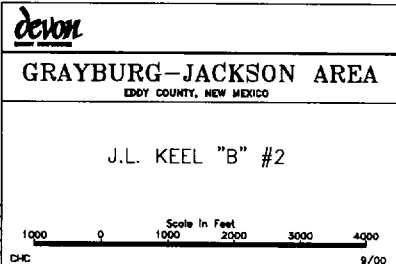
WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #3			FIELD: GRAYBURG-JACKSON			
LOCATION: 660'FSL & 1980'FWL, SEC 8-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3713'; KB=UNK			SPUD DATE: 10/30/44		COMP DATE: 02/01/45	
API#: 30-015-05104		PREPARED BY: C.H. CARLETON			DATE: 11/03/97	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 518'	8 5/8"	28#			
CASING:	0' - 2930'	7"	24#			
CASING:	0' - 3630'	4 1/2"	11.6#	J-55	LT&C	6 1/4"
TUBING:	0' - 2700'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						

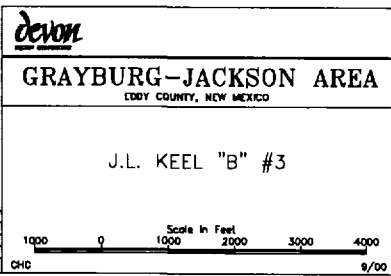


NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILL UP WERE ASSUMED.

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WELL LISTING "AREA OF REVIEW"
GRAYBURG-JACKSON FIELD

WELL NAME	LOCATION	OPERATOR	STATUS	REMARKS
Foster #9	17-T17S-R31E	Devon Energy Corp.	Producer	
Hudson Federal #1	18-T17S-R31E	Devon Energy Corp.	WIW	
Hudson Federal #3	17-T17S-R31E	Devon Energy Corp.	P&A'd	
Hudson Federal #4	17-T17S-R31E	Devon Energy Corp.	P&A'd	
Hudson Federal #7	18-T17S-R31E	Devon Energy Corp.	Producer	
Hudson Federal #8	17-T17S-R31E	Devon Energy Corp.	Producer	
Hudson Federal #10	18-T17S-R31E	Devon Energy Corp.	Producer	
Hudson Federal #11	18-T17S-R31E	Devon Energy Corp.	Producer	
Hudson Federal #13	17-T17S-R31E	Devon Energy Corp.	Producer	
Hudson Federal #14	17-T17S-R31E	Devon Energy Corp.	Producer	
Keel "A" #6	7-T17S-R31E	Devon Energy Corp.	WIW	
Keel "A" #10	7-T17S-R31E	Devon Energy Corp.	WIW	
Keel "A" #19	7-T17S-R31E	Devon Energy Corp.	P&A'd	
Keel "A" #19Y	7-T17S-R31E	Devon Energy Corp.	Producer	
Keel "A" #27	7-T17S-R31E	Devon Energy Corp.	Producer	
Keel "A" #30	7-T17S-R31E	Devon Energy Corp.	WIW	
Keel "A" #35	7-T17S-R31E	Devon Energy Corp.	Producer	
Keel "B" #2	8-T17S-R31E	Devon Energy Corp.	Shutin WIW	Re-activate Injector
Keel "B" #3	8-T17S-R31E	Devon Energy Corp.	Producer	Convert To Water Injector
Keel "B" #4	8-T17S-R31E	Devon Energy Corp.	WIW	
Keel "B" #5	8-T17S-R31E	Devon Energy Corp.	WIW	
Keel "B" #6	8-T17S-R31E	Devon Energy Corp.	WIW	
Keel "B" #17	8-T17S-R31E	Devon Energy Corp.	WIW	
Keel "B" #27	8-T17S-R31E	Devon Energy Corp.	Producer	
Keel "B" #29	8-T17S-R31E	Devon Energy Corp.	WIW	
Keel "B" #46	8-T17S-R31E	Devon Energy Corp.	Producer	
Keel "B" #58	8-T17S-R31E	Devon Energy Corp.	Producer	
Keel "B" #78	8-T17S-R31E	Devon Energy Corp.	Producer	
Keel "B" #90	8-T17S-R31E	Devon Energy Corp.	Producer	
Keel "B" #91	8-T17S-R31E	Devon Energy Corp.	Producer	
Keel "B" #94	8-T17S-R31E	Devon Energy Corp.	Producer	
Last Chance Federal #1	17-T17S-R31E	Devon Energy Corp.	Inactive Oil	
Russell #18	18-T17S-R31E	Devon Energy Corp.	Producer	
		OUTSIDE OPERATED		
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 #5	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #6	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #7	17-T17S-R31E	Marbob Energy Corp.	Active Oil	
Foster-Eddy Federal #8	17-T17S-R31E	Marbob Energy Corp.	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. #9	660'FNL & 990'FEL	8/22/97	10/10/97	OIL PRODUCER	3814'/3768'	8 5/8" @ 477' W/375 SXS. CEMENT TO SURFACE. <i>2803-3500'</i>
	SEC 17-T17S-R31E EDDY COUNTY, NM					5 1/2" @ 3813' W/1475 SXS. CEMENT TO SURFACE. PERFORATE: 2934' - 3580'(OA) IP=59 BOPD
HUDSON FEDERAL #1	660'FNL & 660'FEL	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
	SEC 18-T17S-R31E EDDY COUNTY, NM					CONVERTED TO A WATER INJECTION WELL RETURN TO OIL PRODUCTION PLUGGED & ABANDONED RE-ENTER AND CLEANOUT WELLBORE TO 3535' 4 1/2" @ 3534' W/450 SXS. CEMENT TO SURFACE. PERFORATE: 2768' - 3469'(OA) - CONVERT TO WATER INJECTION WELL
HUDSON FEDERAL #3	1650'FNL & 330'FWL	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
	SEC 17-T17S-R31E EDDY COUNTY, NM					PLUGGED & ABANDONED
HUDSON FEDERAL #4	990'FNL & 330'FWL	11/8/41	1/21/42	OIL PRODUCER	3500'/3500'	8 1/4" @ 636' W/120 SXS 7" @ 2803' W/100 SXS OPEN HOLE COMPLETION: 2803' - 3500' IP=52 BOPD
	SEC 17-T17S-R31E EDDY COUNTY, NM					PLUGGED & ABANDONED ATTEMPT TO RE-ENTER AND CONVERT TO WATER INJECTION WELL PLUGGED & ABANDONED
HUDSON FEDERAL #7	10'FNL & 150'FEL	5/19/96	6/24/96	OIL PRODUCER	3835'/3788'	8 5/8" @ 434' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3834' W/900 SXS. CEMENT TO SURFACE. PERFORATE: 2855' - 3479'(OA) - 51 HOLES IP=96 BOPD
	SEC 18-T17S-R31E EDDY COUNTY, NM					

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>
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 #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 #13	990FNL & 430FWL SEC 17-T17S-R31E EDDY COUNTY, NM	6/23/00	8/3/00	OIL PRODUCER	3750'/3693'	8 5/8" @ 452' W/400 SXS. CEMENT TO SURFACE. 5 1/2" @ 3744' W/1850 SXS. TOC @ 2646'(CBL). PERFORATE: 2852'- 3572'(OA) IP=25 BOPD
HUDSON FEDERAL #14	130FNL & 790FWL SEC 17-T17S-R31E EDDY COUNTY, NM	7/10/00	8/19/00	OIL PRODUCER	2852'/3557'	8 5/8" @ 376' W/400 SXS. CEMENT TO SURFACE. 5 1/2" @ 3739' W/2215 SXS. TOC @ 2580'(CBL). PERFORATE: 2852'- 3557'(OA) IP=25 BOPD
J.L. KEEL "A" #6	660FSL & 660FEL SEC 7-T17S-R31E EDDY COUNTY, NM	3/21/44	6/15/44	OIL PRODUCER	3485'/3485'	8 5/8" @ 514' W/75 SXS 7" 3141' W/100 SXS OPEN HOLE COMPLETION: 3141'- 3485' IP=30 BOPD
			2/28/68 9/28/70 9/10/96	WATER INJECTOR	3485'/3482'	PERFORATE: 3063'- 3076'(OA) - RETURN TO PRODUCTION PERFORATE: 2843'- 3049'(OA) - RETURN TO PRODUCTION 4 1/2" @ 3485' W/300 SXS. CEMENT TO SURFACE. PERFORATE: 2815'- 3456'(OA) - CONVERT TO WATER INJECTION WELL.

VI Wells Within "Area Of Review":

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/IPBTD	COMPLETION RECORD
J.L. KEEL "A" #10	1980FSL & 660FEL SEC 7-T17S-R31E EDDY COUNTY, NM	8/3/50	10/23/50	OIL PRODUCER	3496/3362'	10 3/4" @ 537' W/350 SXS 7" @ 2809' W/200 SXS OPEN HOLE COMPLETION: 2809' - 3362' IP=41 BOPD
J.L. KEEL "A" #19	1350FSL & 1320FEL SEC 7-T17S-R31E EDDY COUNTY, NM	8/16/94	11/12/64	WATER INJECTOR	3580/3578'	DEEPEMED OPEN HOLE TO 3580' 4 1/2" @ 3580' W/325 SXS. TOC @ 1850' PERFORATE: 2908' - 3571'(OA) CONVERT TO A WATER INJECTION WELL
			9/10/96	D & A	3580/3350'	PERFORATE: 2832' - 3278'(OA) - RETURN TO INJECTION SET CIBP @ 3350'. RETURN TO INJECTION
			12/2/98			8 5/8" @ 519' W/305 SXS. CEMENT TO SURFACE. 4 1/2" @ 1047' W/1150 SXS. TOC @ 75' PERFORATE: 660' - 970'(OA) OPEN HOLE: 1047' - 1375' TEMPORARILY ABANDONED PLUGGED & ABANDONED
J.L. KEEL "A" #19Y	1368FSL & 1367FEL SEC 7-T17S-R31E EDDY COUNTY, NM	9/26/95	11/2/95	OIL PRODUCER	4010/3967'	13 3/8" @ 439' W/575 SXS. CEMENT TO SURFACE. 8 5/8" @ 1519' W/1200 SXS. CEMENT TO SURFACE. 5 1/2" @ 4009' W/750 SXS. CEMENT TO SURFACE. PERFORATE: 2814' - 3591'(OA) IP=195 BOPD
J.L. KEEL "A" #27	2630FSL & 85FEL SEC 7-T17S-R31E EDDY COUNTY, NM	3/26/95	5/14/95	OIL PRODUCER	4045/3996'	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

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/PBD</u>	<u>COMPLETION RECORD</u>
J.L. KEEL "A" #30	430FSL & 2013FEL SEC 7-T17S-R31E EDDY COUNTY, NM	8/21/95	8/29/95	OIL PRODUCER	3765/3719'	13 3/8" @ 459' W/700 SXS. CEMENT TO SURFACE. 5 1/2" @ 3764' W/875 SXS. CEMENT TO SURFACE. PERFORATE: 2754' - 3619'(OA) IP=63 BOPD
			12/12/95 9/11/96	WATER INJECTOR	3765/3347' 3765/3698'	SET CIBP @ 3347' - RETURN TO PRODUCTION DRILL OUT CIBP AND PUSH TO 3698' CONVERT TO A WATER INJECTION WELL SET CIBP @ 3310'
			6/8/98		3765/3310'	PERFORATE: 2809' - 3073(OA) - RETURN TO INJECTION
J.L. KEEL "A" #35	1430FSL & 90FEL SEC 7-T17S-R31E EDDY COUNTY, NM	10/11/95	11/1/95	OIL PRODUCER	4060/4011'	13 3/8" @ 437' W/575 SXS. CEMENT TO SURFACE. 5 1/2" @ 4059' 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	3482/3482'	8 5/8" @ 524' W/75 SXS 7" @ 2850' W/100 SXS OPEN HOLE COMPLETION: 2850' - 3485' IP=40 BOPD
J.L. KEEL "B" #3	660FSL & 1980FWL SEC 8-T17S-R31E EDDY COUNTY, NM	10/30/44	4/3/66	WATER INJECTOR	3620/3616'	DEEPENED OPEN HOLE TO 3620' 4 1/2" LINER @ 2752' - 3618' W/140 SXS PERFORATE: 2914' - 3555(OA) CONVERT TO A WATER INJECTION WELL
			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
			9/1/66		3630/3630'	DEEPENED OPEN HOLE TO 3630' - 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/IP/BD</u>	<u>COMPLETION RECORD</u>
J.L. KEEL "B" #4	660FSL & 1980FEL SEC 8-T17S-R31E EDDY COUNTY, NM	2/8/45	5/10/45	OIL PRODUCER	3279/3279'	8 5/8" @ 543' W/60 SXS 7" @ 2897' W/100 SXS OPEN HOLE COMPLETION: 2897' - 3279' IP=17 BOPD DEEPEENED OPEN HOLE TO 3730' 4 1/2" LINER @ 2818' - 3728' W/180 SXS PERFORATE: 3004' - 3682'(OA) CONVERT TO A 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 DEEPEENED OPEN HOLE TO 3650' - RETURN TO PRODUCTION PLUG BACK OPEN HOLE TO 3504' - RETURN TO PRODUCTION CLEAN OUT OPEN HOLE TO TD 4 1/2" @ 3649' W/300 SXS. TOC @ 880'(CBI.) PERFORATE: 2838' - 3566'(OA) CONVERT TO A WATER INJECTION WELL
J.L. KEEL "B" #6	1980FNL & 1980FWL SEC 8-T17S-R31E EDDY COUNTY, NM	3/19/51	5/6/51	OIL PRODUCER	3023/3023'	10 3/4" @ 556' W/200 SXS 7" @ 2856' W/200 SXS OPEN HOLE COMPLETION: 2856' - 3023' IP=83 BOPD DEEPEENED OPEN HOLE TO 3400' - RETURN TO PRODUCTION DEEPEENED OPEN HOLE TO 3680' - RETURN TO PRODUCTION DEEPEENED OPEN HOLE TO 3800' 4 1/2" @ 3798' W/475 SXS. CEMENT TO SURFACE. PERFORATE: 2882' - 3683'(OA) CONVERT TO A WATER INJECTION WELL SET CIBP @ 3510' - RETURN TO INJECTION
			8/24/54 5/4/64 7/3/95	WATER INJECTOR	3400/3400' 3680/3680' 3800/3756'	
			12/21/98		3800/3510'	

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" #17	1980FNL & 660FWL SEC 8-T17S-R31E EDDY COUNTY, NM	10/8/52	11/30/52	OIL PRODUCER	3286'/3286'	8 5/8" @ 568' W/100 SXS 7" @ 2839' W/200 SXS OPEN HOLE COMPLETION: 2839'- 3286' IP=45 BOPD DEEPEENED OPEN HOLE TO 3615' 4 1/2" @ 3615' W/325 SXS PERFORATE: 2965'- 3601'(OA) CONVERT TO A WATER INJECTION WELL PERFORATE: 2828'- 3396'(OA) - RETURN TO WATER INJECTION
J.L. KEEL "B" #27	1980FSL & 1980FEL SEC 8-T17S-R31E EDDY COUNTY, NM	10/3/64	11/9/64	OIL PRODUCER	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 PERFORATE: 2952'- 3508'(OA) - RETURN TO PRODUCTION
J.L. KEEL "B" #29	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 A WATER INJECTION WELL SET CIBP @ 3510' PERFORATE: 2956'- 3374'(OA) - RETURN TO INJECTION
J.L. KEEL "B" #46	660FSL & 660FEL SEC 8-T17S-R31E EDDY COUNTY, NM	4/23/89	5/31/89	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" #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

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" #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" #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" @ 4054' 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" #94	1309FSL & 1298FEL 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" @ 4219' W/1800 SXS. CEMENT TO SURFACE. PERFORATE: 2975' - 3878'(OA) IP=140 BOPD
LAST CHANCE FEDERAL #1	1650FNL & 2310FEL 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
RUSSELL, C.A. #18	330FNL & 1350FEL 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

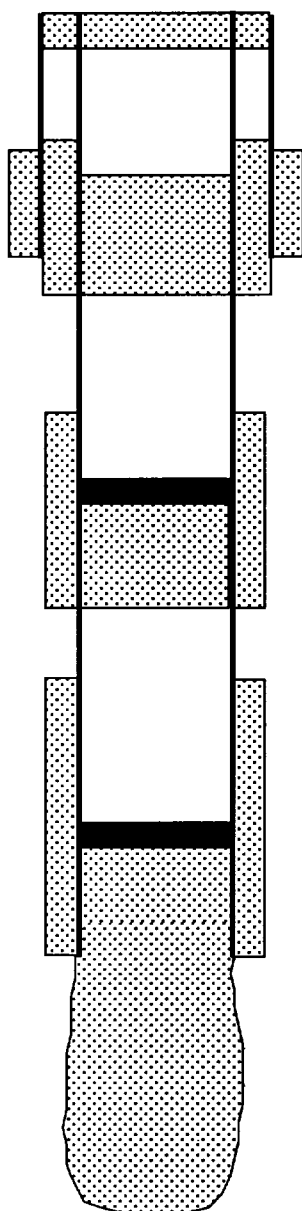
VI Wells Within "Area Of Review":

<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 #3 Marbob Energy Corporation	1980/FNL & 1980/FWL 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	660/FNL & 1980/FWL 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 #5 Marbob Energy Corporation	660/FNL & 1980/FEL 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 #6 Marbob Energy Corporation	990/FNL & 2310/FWL SEC 17-T17S-R31E EDDY COUNTY, NM	5/5/89	7/6/89	OIL PRODUCER	5540/5514'	8 5/8" @ 474' W/400 SXS 5 1/2" @ 5517' W/4525 SXS PERFORATE: 3090 - 3478(OA) IP=88 BOPD
FOSTER-EDDY FEDERAL #7 Marbob Energy Corporation	330/FNL & 1650/FEL SEC 17-T17S-R31E EDDY COUNTY, NM	11/15/90	1/2/91	OIL PRODUCER	5540/5520'	8 5/8" @ 464' W/300 SXS 5 1/2" @ 5520' W/1925 SXS PERFORATE: 2977 - 3836(OA) IP=42 BOPD
FOSTER-EDDY FEDERAL #8 Marbob Energy Corporation	330/FNL & 1650/FWL SEC 17-T17S-R31E EDDY COUNTY, NM	9/13/89	12/5/89	OIL PRODUCER	6035/4875'	8 5/8" @ 462' W/300 SXS 5 1/2" @ 6022' W/4400 SXS PERFORATE: 2888 - 3813(OA) IP=70 BOPD

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY 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: 02/19/99	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 636'	8 1/4"				
CASING:	0' - 2780'	7"				
CASING:						
TUBING:						
TUBING:						



☒ CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY CORPORATION(NEVADA)

DATE PLUGGED: 02/18/99

CEMENT PLUG: 0'- 50' WITH 30 SXS

CEMENT PLUG: 476'- 686' WITH 90 SXS

8 1/4" CASING SET @ 636'. CMT'D W/50 SXS. TOC @ 460'(calculated)

PERFORATED 4 HOLES @ 686'

CEMENT RETAINER @ 1271'. PUMP 136 SXS CEMENT BELOW RETAINER
PERFORATED 4 HOLES @ 1300'

PERFORATED 4 HOLES @ 1400'

NOTE: 9.5ppg MUD SPOTTED BETWEEN CEMENT PLUGS

CEMENT RETAINER @ 2542'. PUMP 225 SXS CEMENT BELOW REATINER

7" CASING SET @ 2780'. CMT'D W/100 SXS. TOC @ 1460'(calculated)

OPEN HOLE COMPLETION: 2780'- 3497'

TD @ 3497'

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 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: 03/07/00	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 649'	8 5/8"	28#			
CASING:	0' - 2803'	7"	20#			
CASING:						
TUBING:						
TUBING:						

OPERATOR: DEVON ENERGY CORPORATION(NEVADA)
DATE PLUGGED: 01/31/98

CEMENT PLUG: 0'- 50' WITH 10 SXS

8 5/8" CASING @ 649' W/50 SXS. TOC @ 410'(calculated)

CEMENT PLUG: 685'- 880' WITH 20 SXS

CEMENT RETAINER @ 1250', PUMP 115 SXS BELOW & CAP WITH 10 SXS

CEMENT RETAINER @ 2516', PUMP 140 SXS BELOW & CAP WITH 10 SXS

7" CASING @ 2803' W/100 SXS. TOC @ 1480'(calculated)

OPEN HOLE COMPLETION: 2803'- 3500'

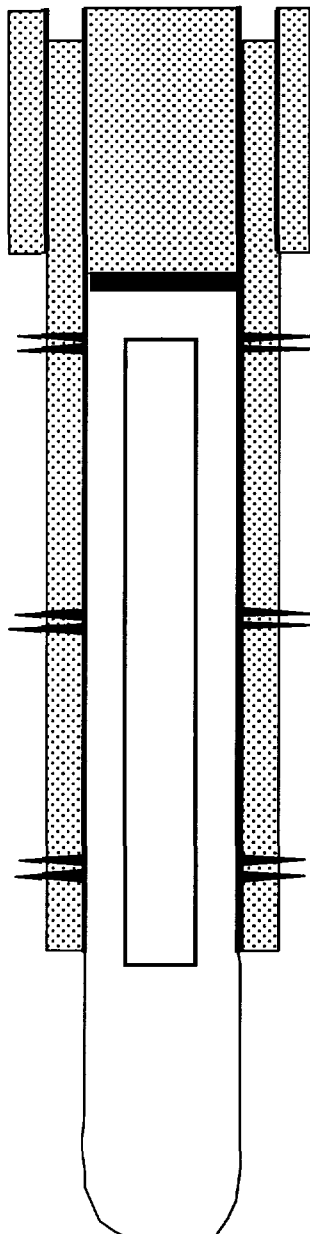
TD @ 3500'

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

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "A" #19			FIELD: GRAYBURG-JACKSON			
LOCATION: 1350'FSL & 1320'FEL, SEC 7-T17S-R31E			COUNTY: EDDY			STATE: NM
ELEVATION: GL=3798'; KB=3810'			SPUD DATE: 08/15/94		COMP DATE: 11/24/94	
API#: 30-015-28040		PREPARED BY: C.H. CARLETON			DATE: 03/07/96	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 519'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 1047'	4 1/2"	11.6#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	673' - 1056'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



☒ CURRENT

☐ PROPOSED

OPERATOR: DEVON ENERGY CORPORATION(NEVADA)

DATE PLUGGED: 09/22/95

8 5/8" CASING, SET W/305 SXS. TOC @ SURFACE.
CIBP @ 611', CAP WITH CEMENT TO SURFACE.

PERFORATIONS: 660'- 700' (80 HOLES)
TOP OF STUCK TUBING @ 673'.

PERFORATIONS: 860'- 880' (40 HOLES)

PERFORATIONS: 940'- 970' (60 HOLES)

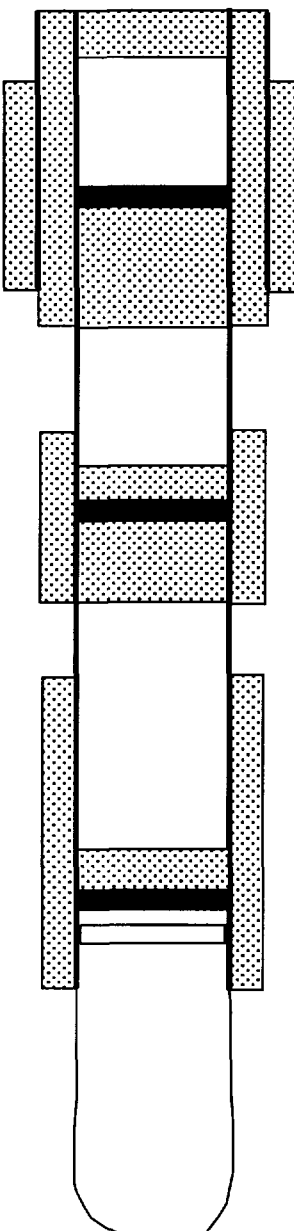
4 1/2" CASING SET W/1150 SXS. TOC @ 75' (TEMP SURVEY).
BOTTOM OF STUCK TUBING @ 1056'.

OPEN HOLE COMPLETION: 1047'- 1375'

TD @ 1375'

VI Wellbore Schematic of Plugged Wells:

DEVON ENERGY 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 @ 525' W/50 SXS. TOC @ 290' (calculated)
 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 @ 2908' W/100 SXS. TOC @ 1980' (calculated)

OPEN HOLE COMPLETION: 2908'- 3505'

TD @ 3505'

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

DEVON ENERGY PRODUCTION COMPANY, L.P.
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 2735'- 3630'. 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, or, can be submitted upon completion of well.

DEVON ENERGY PRODUCTION COMPANY, L.P.
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 3, 4, 5, 6, 7, 8, 9, 10, 17, 18, 19, 20, 29 & 30-T17S-R31E. Offset operators in the "area of review" are as follows:

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

The above operator was provided a letter by certified mail. Proof of notice is attached.

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



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

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

September 5, 2000

Certified Mail Z 068 589 826

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

RE: Devon Energy Corporation
Grayburg-Jackson Waterflood Project
Keel "B" #2 and Keel "B" #3
Section 8-T17S-R31E
Eddy County, NM

Gentlemen:

Please consider this letter as official notification that Devon Energy Corporation is in the process of filing an application to convert one producing well to water injection and reactivate one shutin water injection well 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 405/552-8194.

Sincerely,
Devon Energy Corporation

William M. Greenlees, P.E.
Operations Engineering Advisor

/chc

xc: 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 Z 068 589 826	
			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 9-11-00	
	6. Signature: (Addressee or Agent) x/ MISTI McLurg		8. Addressee's Address (Only if requested and fee is paid)	

PS Form 3811, December 1994 102595-98-B-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

Affidavit of Publication

Nº 20874

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 coun-
ty; 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:

<u>September 9</u>	, <u>2000</u>
<u> </u>	, <u>2000</u>
<u> </u>	, <u>2000</u>
<u> </u>	, <u>2000</u>
<u> </u>	, <u>2000</u>
<u> </u>	, <u>2000</u>

That the cost of publication is \$ 36.17,
and that payment thereof has been made and will be
assessed as court costs.

Amy McKay

Subscribed and sworn to before me this

14 day of September 2000
Lorraine Deporte

My commission expires 5/25/03
Notary Public

September 9, 2000

Notice is hereby given that
Devon Energy Corporation
is applying to the New
Mexico Oil Conservation
Division to convert one
producing well to water in-
jection and reactivate one
shut-in injection well for
secondary recovery pur-
poses in:

Section 8 of T17S - R31E,
Eddy County, NM

The intended purpose of
these wells is to inject pro-
duced waters into the
Grayburg/San Andres For-
mations to enhance oil
production through sec-
ondary recovery. Maxi-
mum 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 commis-
sion:

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

William M. Greenlees P.E.
Operations Engineering
Advisor
Devon Energy Corporation
20 North Broadway, Suite
1500
Oklahoma City, OK 73102
(405) 552-8194