



WFX 2/12/99  
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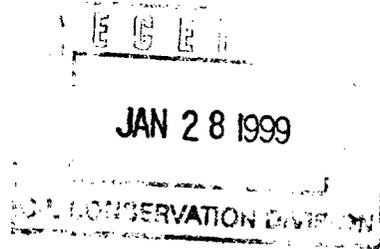
20 North Broadway, Suite 1500 Telephone: 405/235-3611  
Oklahoma City, Oklahoma 73102-8260 FAX 405/552-4667

January 25, 1999

Certified Mail Z 068 589 406

RE: Application For Authorization To Inject

NM Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, NM 87505



Dear Sir or Madam:

Enclosed are two(2) copies of the "Application For Authorization To Inject" covering various leases in Section 6 & 7 of T17S – R31E, Eddy County, NM.

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

Sincerely,

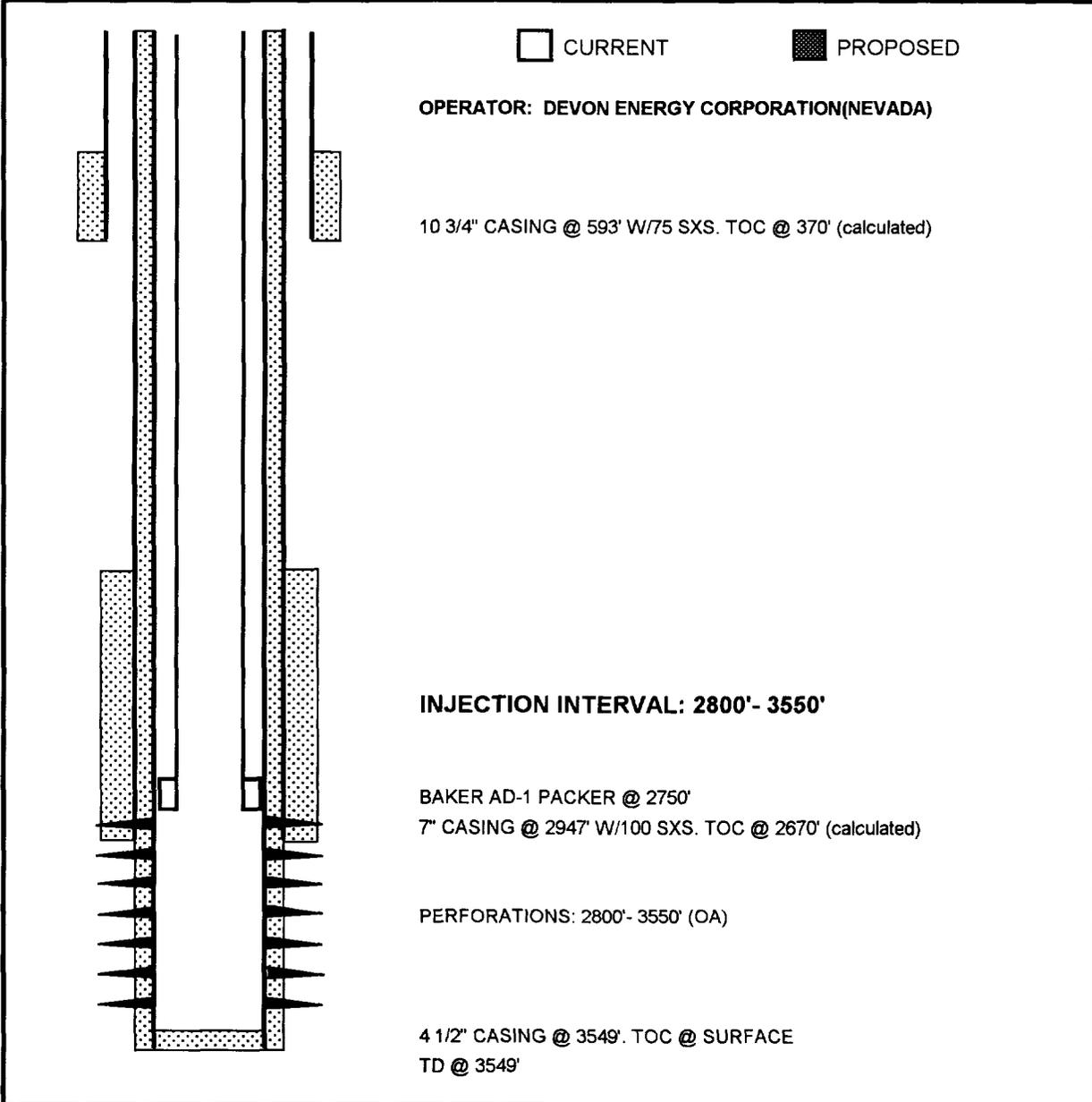
Charles H. Carleton  
Sr. Engineering Technician  
Devon Energy Corporation

chc  
cc: Well File

III Well Data:

## DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #1			FIELD: GRAYBURG-JACKSON			
LOCATION: 554'FNL & 554'FWL, SEC 6-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3815'; KB=UNK			SPUD DATE: 04/05/43		COMP DATE: 09/16/43	
API#: 30-015-05083		PREPARED BY: C.H. CARLETON			DATE: 01/22/99	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 593'	10 3/4"	45#			
CASING:	0' - 2947'	7"	24#			
CASING:	0' - 3549'	4 1/2"	11.6#	J-55	LT&C	6 1/4"
TUBING:	0' - 2750'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



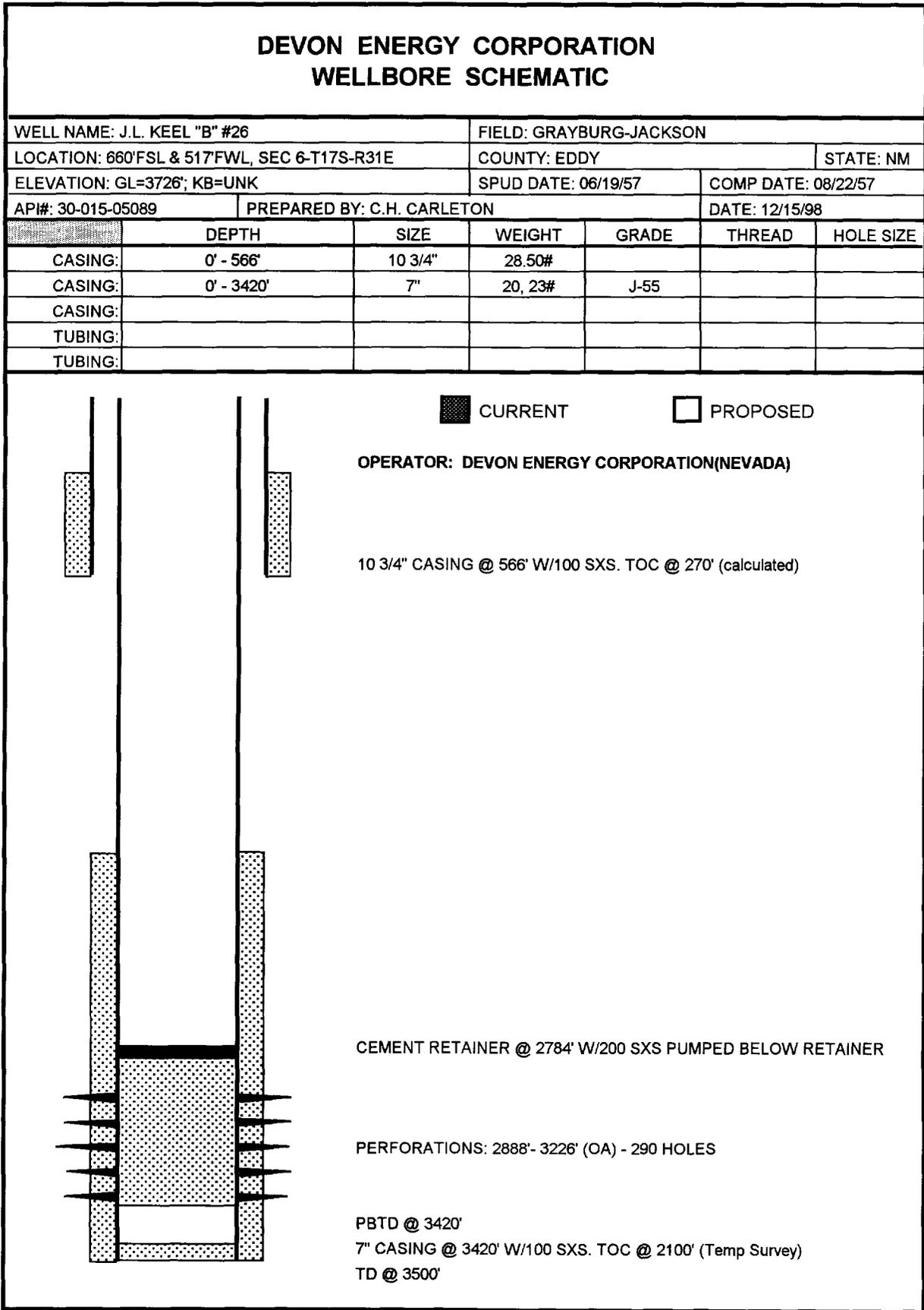
NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

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

**III Well Data:**

- A.
- (1) J.L. Keel "B" #26  
660'FSL & 517'FWL  
Section 6-T17S-R31E  
Eddy County, NM
  - (2) Surface Casing:  
10 3/4" 28# @ 566'. Set with 100 sxs. TOC @ 270' (calculated)  
Hole Size = 12 1/2" (estimated)  
  
Intermediate Casing:  
7" 20# J-55 @ 3420'. Set with 100 sxs. TOC @ 2100' (Temp Survey)  
Hole Size: 9 3/4" (estimated)  
  
Production Casing:  
4 1/2" 11.6# J-55 LT&C @ 3500'. TOC @ surface.  
Hole Size = 6 1/4"
  - (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2700'.
  - (4) 4 1/2" Baker AD-1 tension packer set at 2700'.
- B.
- (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
  - (2) Water injection will be through perforations 2750'- 3550'(OA). **The injection interval is 2750'- 3550'.**
  - (3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.
  - (4) Additional perforations may be added in the 2750'- 3550' interval.
  - (5) The top of the Seven Rivers formation is at approximately 1730', there are no known lower oil zones

III Well Data:



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

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

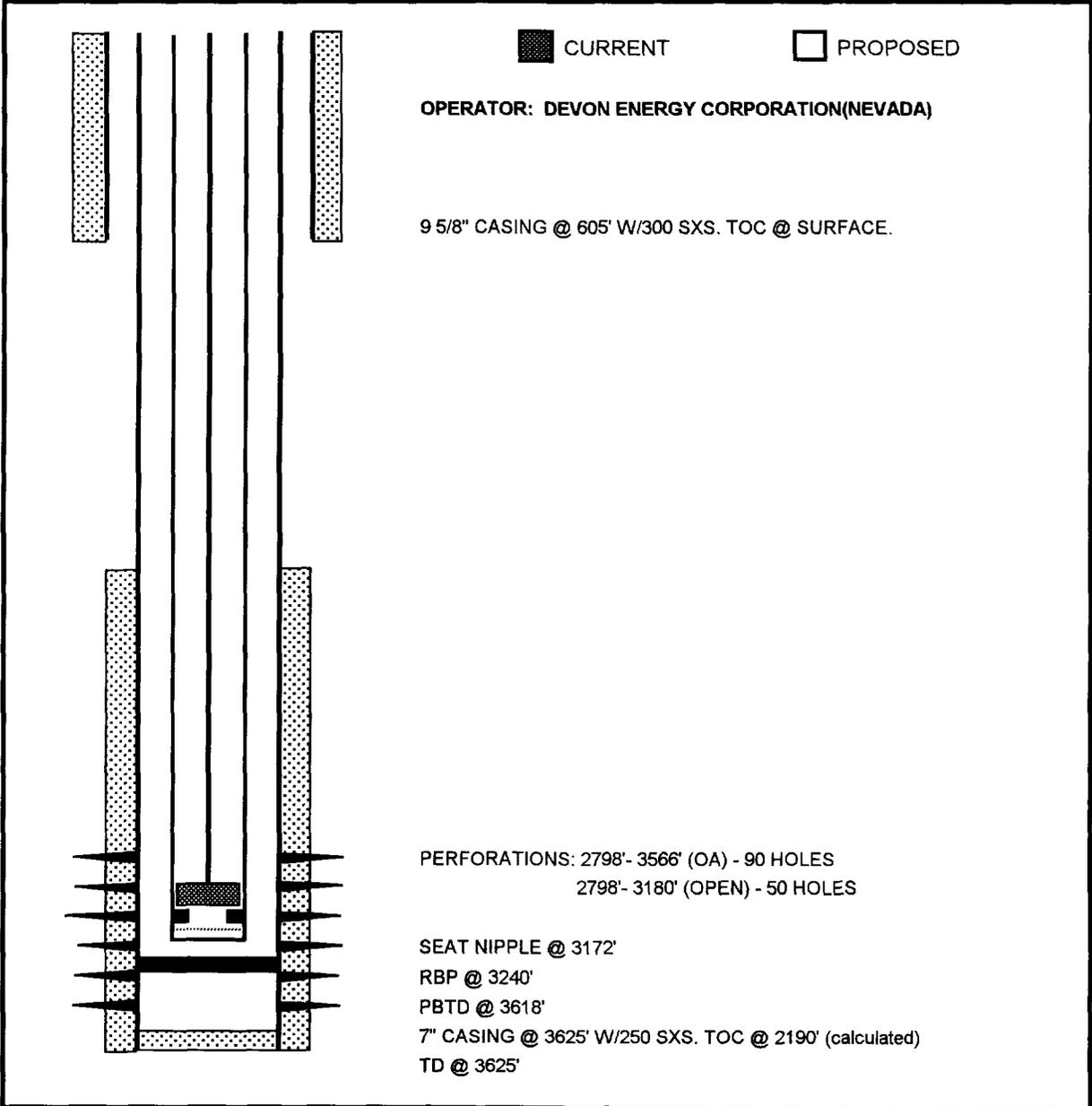
**III Well Data:**

- A.
- (1) J.L. Keel "A" #15  
1980'FNL & 330'FWL  
Section 7-T17S-R31E  
Eddy County, NM
  - (2) Surface Casing:  
9 5/8" 32# H-40 @ 605'. Set with 300 sxs. TOC @ Surface  
Hole Size = 12 1/4"  
  
Production Casing:  
7" 23# N-80 @ 3625'. Set with 250 sxs. TOC @ 2190'(calculated)  
Hole Size = 7 7/8"(estimated)
  - (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2700'.
  - (4) 7" Baker Lock-Set tension packer set at 2700'.
- B.
- (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
  - (2) Water injection will be through perforations 2750'- 3550'(OA). **The injection interval is 2750'- 3550'.**
  - (3) This well was originally drilled and completed as an oil well, producing from the Grayburg/San Andres formation.
  - (4) Additional perforations may be added in the 2750'- 3550' interval.
  - (5) The top of the Seven Rivers formation is at approximately 1730', there are no known lower oil zones

III Well Data:

## DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "A" #15			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 330'FWL, SEC 7-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3716'; KB=UNK			SPUD DATE: 01/26/67		COMP DATE: 02/25/67	
API#: 30-015-20014		PREPARED BY: C.H. CARLETON			DATE: 11/04/98	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 605'	9 5/8"	32.30#	H-40	ST&C	12 1/4"
CASING:	0' - 3625'	7"	23.26#	N-80	LT&C	8 3/4"
CASING:						
TUBING:	0' - 3209'	2 7/8"	6.5#	J-55	EUE 8rd	
TUBING:						



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

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  Yes  No
- II. OPERATOR: Devon Energy Corporation  
ADDRESS: 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102-8260  
CONTACT PARTY: Mr. Randy Jackson PHONE: 405/552-4560
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project:  Yes  No  
If yes, give the Division order number authorizing the project R-2268
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/1 or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Mr. Randy Jackson TITLE: District Engineer  
SIGNATURE: *Randy Jackson* DATE: January 25, 1999
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. \_\_\_\_\_

III. WELL DATA

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

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

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

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

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

XIV. PROOF OF NOTICE

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

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

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

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

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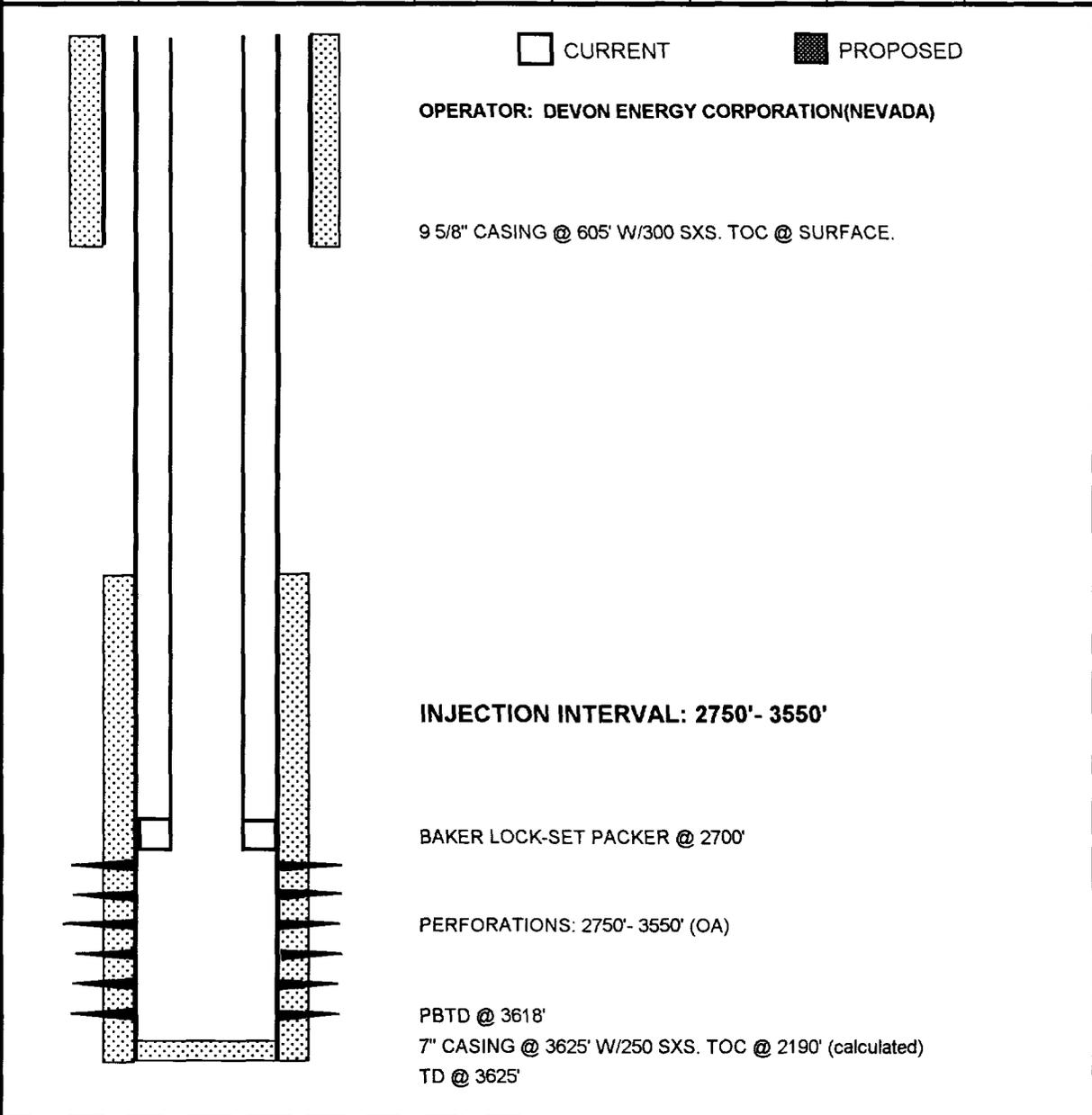
**NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.**

III Well Data:

## DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "A" #15			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 330'FWL, SEC 7-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3716'; KB=UNK			SPUD DATE: 01/26/67		COMP DATE: 02/25/67	
API#: 30-015-20014		PREPARED BY: C.H. CARLETON			DATE: 01/22/99	

	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 605'	9 5/8"	32.30#	H-40	ST&C	12 1/4"
CASING:	0' - 3625'	7"	23.26#	N-80	LT&C	8 3/4"
CASING:						
TUBING:	0' - 2700'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



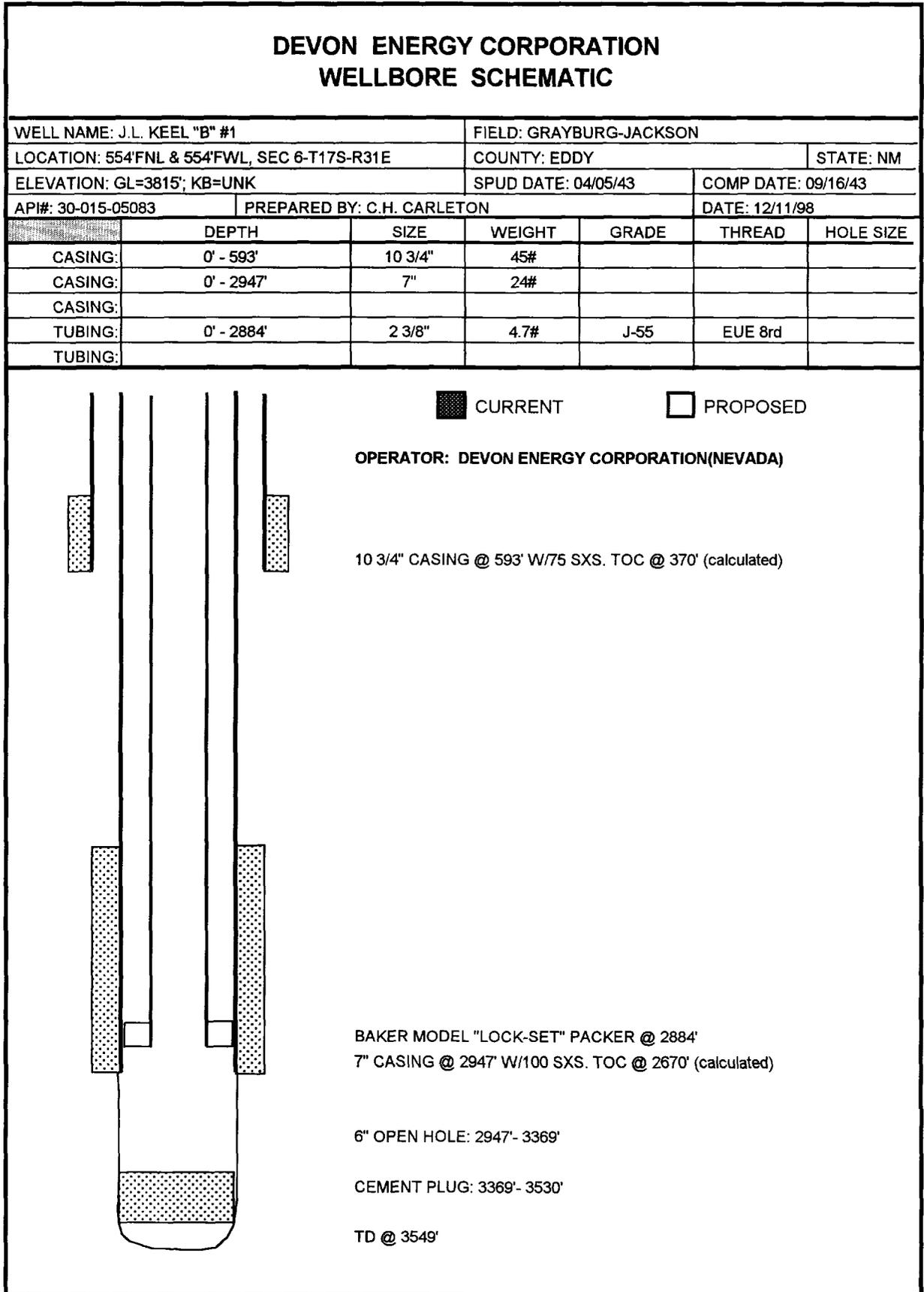
NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

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

**III Well Data:**

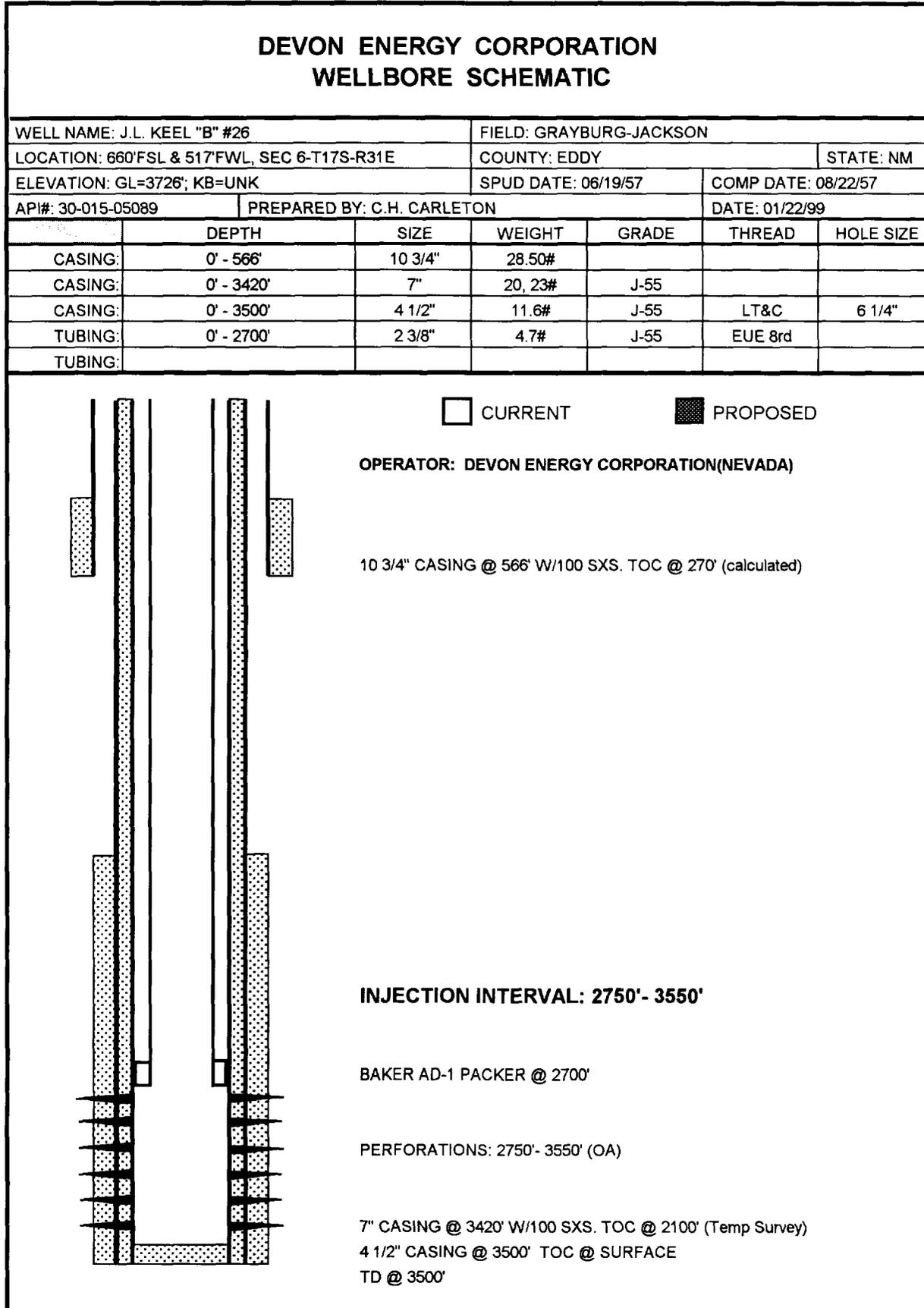
- A. (1) J.L. Keel "B" #1  
554'FNL & 554'FWL  
Section 6-T17S-R31E  
Eddy County, NM
- (2) Surface Casing:  
10 3/4" 45# @ 593'. Set with 75 sxs. TOC @ 370'(calculated)  
Hole Size = 12 1/2"(estimated)
- Intermediate Casing:  
7" 24# @ 2947'. Set with 100 sxs. TOC @ 2670'(calculated)  
Hole Size = 9 3/4"(estimated)
- Production Casing:  
4 1/2" 11.6# J-55 LT&C @ 3549'. TOC @ surface.  
Hole Size = 6 1/4"
- (3) Tubing will be 2 3/8" 4.7# J-55 EUE 8rd (IPC) set at 2750'.
- (4) 4 1/2" Baker AD-1 tension packer set at 2750'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2800'- 3550'(OA). **The injection interval is 2800'- 3550'.**
- (3) This well was originally drilled and completed as an 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 2800'- 3550' interval.
- (5) The top of the Seven Rivers formation is at approximately 1800', there are no known lower oil zones

III Well Data:



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

III Well Data:



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

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

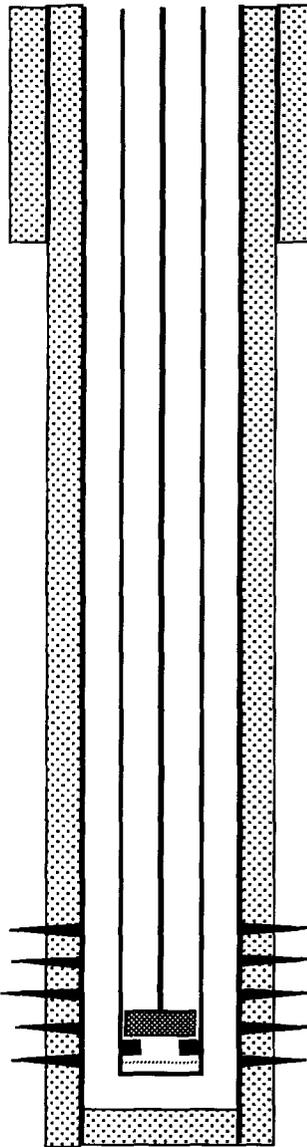
**III Well Data:**

- A. (1) J.L. Keel "B" #40  
1980'FNL & 660'FWL  
Section 6-T17S-R31E  
Eddy County, NM
- (2) Surface Casing:  
8 5/8" 24# J-55 ST&C @ 460'. Set with 300 sxs. TOC @ surface  
Hole Size = 12 1/4"
- Production Casing:  
5 1/2" 15.5# J-55 LT&C @ 3759'. 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 2750'.
- (4) 5 1/2" Baker AD-1 tension packer set at 2750'.
- B. (1) The injection formation will be the Grayburg/San Andres in the Grayburg-Jackson Field.
- (2) Water injection will be through perforations 2800'- 3640'(OA). **The injection interval is 2800'- 3640'.**
- (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 2800'- 3640' interval.
- (5) The top of the Seven Rivers formation is at approximately 1780', there are no known lower oil zones

III Well Data:

## DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #40			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 660'FWL, SEC 6-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3771'; KB=3782'			SPUD DATE: 07/21/88		COMP DATE: 10/27/88	
API#: 30-015-29940		PREPARED BY: C.H. CARLETON			DATE: 10/14/98	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 460'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3759'	5 1/2"	15.5#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 3536'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT       PROPOSED

OPERATOR: DEVON ENERGY CORPORATION(NEVADA)

8 5/8" CASING @ 460' W/300 SXS. TOC @ SURFACE.

PERFORATIONS: 2970'- 3483' (OA) - 56 HOLES

SEAT NIPPLE @ 3499'

PBTD @ 3715'

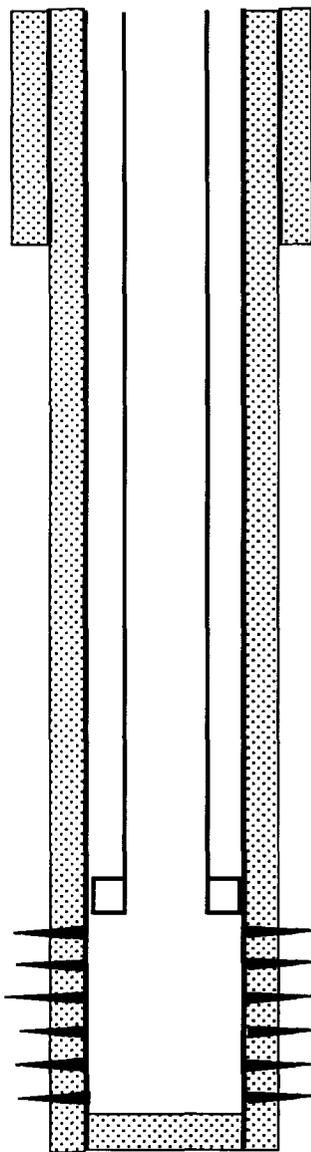
5 1/2" CASING @ 3759' W/1300 SXS. TOC @ SURFACE

TD @ 3760'

III Well Data:

## DEVON ENERGY CORPORATION WELLBORE SCHEMATIC

WELL NAME: J.L. KEEL "B" #40			FIELD: GRAYBURG-JACKSON			
LOCATION: 1980'FNL & 660'FWL, SEC 6-T17S-R31E			COUNTY: EDDY		STATE: NM	
ELEVATION: GL=3771'; KB=3782'			SPUD DATE: 07/21/88		COMP DATE: 10/27/88	
API#: 30-015-29940		PREPARED BY: C.H. CARLETON			DATE: 01/25/99	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 460'	8 5/8"	24#	J-55	ST&C	12 1/4"
CASING:	0' - 3759'	5 1/2"	15.5#	J-55	LT&C	7 7/8"
CASING:						
TUBING:	0' - 2750'	2 3/8"	4.7#	J-55	EUE 8rd	
TUBING:						



CURRENT                       PROPOSED

OPERATOR: DEVON ENERGY CORPORATION(NEVADA)

8 5/8" CASING @ 460' W/300 SXS. TOC @ SURFACE.

**INJECTION INTERVAL: 2800'- 3640'**

BAKER AD-1 PACKER @ 2750'

PERFORATIONS: 2800'- 3640' (OA)

PBTD @ 3715'

5 1/2" CASING @ 3759' W/1300 SXS. TOC @ SURFACE

TD @ 3760'



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1/2 MILE

devon  
GRAYBURG-JACKSON AREA  
ESQY COUNTY, NEW MEXICO

KEEL "A" #15

Scale in Feet  
1000 0 1000 2000 3000 4000  
CHC 12/98

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

<b>WELL NAME</b>	<b>LOCATION</b>	<b>OPERATOR</b>	<b>STATUS</b>	<b>REMARKS</b>
Loe, H.J. #1	31-T16S-R31E	GP II Energy, Inc.	Active Oil	
✓ Loe, H.J. #5	31-T16S-R31E	GP II Energy, Inc.	Active Oil	
✓ W. Square Lake Unit #10	36-T16S-R30E	James Cleo Thompson	Active Oil	
✓ W. Square Lake Unit #12	36-T16S-R30E	James Cleo Thompson	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>
J.L. KEEL "A" #4	1650FSL & 2310FWL SEC 7-T17S-R31E EDDY COUNTY, NM	3/4/39	5/16/39	OIL PRODUCER <i>was well</i>	3638/3586'	8 5/8" @ 566' W/75 SXS 7" @ 3141' W/100 SXS PERFORATE: 2891'- 3122'(OA) & OPEN HOLE: 3141'- 3586' IP=60 BOPD PERFORATE: 2891'- 3122'(OA) RETURN TO PRODUCTION
			10/28/70			PERFORATE: 2779'- 3521'(OA)
			10/3/96	WATER INJECTOR	3586/3541'	4 1/2" @ 3585' W/400 SXS. TOC @ 2580' PERFORATE: 2779'- 3521'(OA) CONVERT TO WATER INJECTION WELL
			6/13/98		3586/3413'	SET CIBP @ 3413' PERFORATE: 3158'- 3263'(OA) - RETURN TO WATER INJECTION
J.L. KEEL "A" #7	1980FSL & 660FWL SEC 7-T17S-R31E EDDY COUNTY, NM	6/7/45	9/29/45	OIL PRODUCER	3574/3574'	8 5/8" @ 566' W/60 SXS 7" @ 3118' W/100 SXS. TOC @ 1700' OPEN HOLE COMPLETION: 3118'- 3576' IP=25 BOPD PERFORATE: 2882'- 2892'(OA) CONVERT TO WATER INJECTION WELL
			5/22/66	WATER INJECTOR	3574/3537'	4 1/2" @ 3574' W/450 SXS. CEMENT TO SURFACE. PERFORATE: 2775'- 3515'(OA) - RETURN TO WATER INJECTION
			5/12/97			
J.L. KEEL "A" #14	660FNL & 519FWL SEC 7-T17S-R31E EDDY COUNTY, NM	8/28/57	11/5/57	OIL PRODUCER	3502/2950'	10 3/4" @ 587' W/100 SXS 5 1/2" @ 3425' W/125 SXS PERFORATE: 3190'- 3200' SET CIBP @ 2950' PERFORATE: 2888'- 2900'(OA) IP=360 BOPD DRILL OUT CIBP & CLEAN OUT WELLBORE TO TD PERFORATE: 3030'- 3118'(OA) CONVERT TO WATER INJECTION WELL PERFORATE: 2819'- 3417'(OA) - RETURN TO WATER INJECTION
			3/8/66	WATER INJECTOR	3502/3502'	
			6/6/97			

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" #15	1980'FNL & 330'FWL SEC 7-T17S-R31E EDDY COUNTY, NM	1/26/67	2/25/67	OIL PRODUCER	3625'/3618'	9 5/8" @ 605' W/300 SXS. CEMENT TO SURFACE. 7" @ 3625' W/350 SXS. TOC @ 1930' PERFORATE: 2869' - 3566'(OA) IP=51 BOPD PERFORATE: 2798' - 3409'(OA) - RETURN TO PRODUCTION
J.L. KEEL "A" #16	2080'FNL & 1700'FWL SEC 7-T17S-R31E EDDY COUNTY, NM	11/12/85	12/19/85	OIL PRODUCER	3600'/3580'	13 3/8" @ 503' W/1100 SXS. CEMENT TO SURFACE. 8 5/8" @ 1557' W/800 SXS. CEMENT TO SURFACE. 5 1/2" @ 3592' W/800 SXS. CEMENT TO SURFACE. PERFORATE: 2931' - 3513'(OA) IP=164 BOPD PERFORATE: 2791' - 3251'(OA) CONVERT TO WATER INJECTION WELL
J.L. KEEL "A" #17	640'FNL & 2050'FWL SEC 7-T17S-R31E EDDY COUNTY, NM	7/10/88	7/27/88	OIL PRODUCER	3785'/3527'	8 5/8" @ 400' W/300 SXS. CEMENT TO SURFACE. 5 1/2" @ 3785' W/1500 SXS. CEMENT TO SURFACE. PERFORATE: 3136' - 3747'(OA) SET CIBP @ 3527' IP=54 BOPD CONVERT TO WATER INJECTION WELL
J.L. KEEL "A" #18	1310'FNL & 1100'FWL SEC 7-T17S-R31E EDDY COUNTY, NM	12/26/94	2/28/95	OIL PRODUCER	3975'/3924'	8 5/8" @ 433' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3974' W/1075 SXS. CEMENT TO SURFACE. PERFORATE: 2865' - 2670'(OA) IP=92 BOPD
J.L. KEEL "A" #24	2560'FSL & 1200'FWL SEC 7-T17S-R31E EDDY COUNTY, NM	4/9/95	5/23/95	OIL PRODUCER	3975'/3932'	8 5/8" @ 440' W/875 SXS. CEMENT TO SURFACE. 5 1/2" @ 3974' W/1100 SXS. CEMENT TO SURFACE. PERFORATE: 2772' - 3638'(OA) IP=96 BOPD
J.L. KEEL "A" #25	754'FSL & 1165'FWL SEC 7-T17S-R31E EDDY COUNTY, NM	9/18/95	10/15/95	OIL PRODUCER	3965'/3919'	8 5/8" @ 426' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3964' W/1260 SXS. CEMENT TO SURFACE. PERFORATE: 2773' - 3537'(OA) IP=217 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 "A" #31	1559FNL & 2448FWL SEC 7-T17S-R31E EDDY COUNTY, NM	1/17/95	4/15/95	OIL PRODUCER	4005'/3958'	8 5/8" @ 436' W/450 SXS. CEMENT TO SURFACE. 5 1/2" @ 4004' W/1180 SXS. CEMENT TO SURFACE. PERFORATE: 2827' - 3693'(OA) IP=35 BOPD
J.L. KEEL "A" #32	2632FSL & 2624FWL SEC 7-T17S-R31E EDDY COUNTY, NM	4/18/95	5/22/95	OIL PRODUCER	3985'/3931'	8 5/8" @ 441' W/750 SXS. CEMENT TO SURFACE. 5 1/2" @ 3984' W/1635 SXS. CEMENT TO SURFACE. PERFORATE: 2828' - 3631'(OA) IP=125 BOPD
J.L. KEEL "A" #36	100FNL & 2460FWL SEC 7-T17S-R31E EDDY COUNTY, NM	5/6/95	5/31/95	OIL PRODUCER	4025'/3977'	8 5/8" @ 439' W/650 SXS. CEMENT TO SURFACE. 5 1/2" @ 4024' W/1850 SXS. CEMENT TO SURFACE. PERFORATE: 2871' - 3668'(OA) IP=72 BOPD
J.L. KEEL "B" #1	554FNL & 554FWL SEC 6-T17S-R31E EDDY COUNTY, NM	4/5/43	9/16/43	OIL PRODUCER	3549'/3135'	10 3/4" @ 595' W/75 SXS 7" @ 2947' W/100 SXS OPEN HOLE COMPLETION: 2947' - 3135' IP=136 BOPD CLEAN OUT OPEN HOLE TO 3533' SPOT CEMENT PLUG 3369' - 3530' W/30 SXS CONVERT TO WATER INJECTION WELL
J.L. KEEL "B" #23	660FSL & 1700FWL SEC 6-T17S-R31E EDDY COUNTY, NM	9/2/56	12/1/56	OIL PRODUCER	3465'/3465'	10 3/4" @ 590' W/100 SXS 7" @ 2805' W/200 SXS OPEN HOLE COMPLETION: 2805' - 3465' IP=50 BOPD 4 1/2" @ 3464' W/450 SXS. CEMENT TO SURFACE. PERFORATE: 2793' - 3462'(OA) CONVERT TO WATER INJECTION WELL
			10/11/96	WATER INJECTOR	3465'/3465'	

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" #24	1980FNL & 1694FWL SEC 6-T17S-R31E EDDY COUNTY, NM	12/21/56	3/16/57	OIL PRODUCER	3519/3175'	10 3/4" @ 509' W/500 SXS. CEMENT TO SURFACE. 7" @ 3180' W/100 SXS. TOC @ 2685' SET CIBP @ 3175' PERFORATE: 2953- 3163'(OA) IP=43 BOPD DRILL OUT CIBP & CLEAN OUT OPEN HOLE TO 3490' PERFORATE: 3010- 3102'(OA) - RETURN TO PRODUCTION 4 1/2" @ 3482' W/400 SXS. CEMENT TO SURFACE. PERFORATE: 2837- 3470'(OA) CONVERT TO WATER INJECTION WELL
J.L. KEEL "B" #25	1980FSL & 517FWL SEC 6-T17S-R31E EDDY COUNTY, NM	4/7/57	6/11/57	OIL PRODUCER	3192/3192'	10 3/4" @ 567' W/100 SXS 7" @ 3060' W/100 SXS. TOC @ 2285' OPEN HOLE COMPLETION: 3060- 3192' IP=240 BOPD PERFORATE: 2886- 3036'(OA) CONVERT TO WATER INJECTION WELL
J.L. KEEL "B" #26	660FSL & 517FWL SEC 6-T17S-R31E EDDY COUNTY, NM	6/19/57	8/22/57	OIL PRODUCER	3500/3415'	DEEPEN OPEN HOLE TO 3604' 4 1/2" @ 3604' W/475 SXS. CEMENT TO SURFACE. PERFORATE: 2756- 3548'(OA) - RETURN TO INJECTION
			5/22/59 10/6/75 11/17/76		3500/2784'	10 3/4" @ 566' W/100 SXS 7" @ 3420' W/100 SXS. TOC @ 2100' PERFORATE: 3026- 3226'(OA) IP=240 BOPD PERFORATE: 2888- 2896' - RETURN TO PRODUCTION PERFORATE: 2924- 2936' - RETURN TO PRODUCTION SET CEMENT RETAINER @ 2784', PUMP 200 SXS BELOW RETAINER TEMPORARILY ABANDONED

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" #30	430FSL & 2250FEL SEC 6-T17S-R31E EDDY COUNTY, NM	2/4/75	2/28/75	OIL PRODUCER	3250'/3206'	8 5/8" @ 506' W/375 SXS. CEMENT TO SURFACE. 5 1/2" @ 3249' W/760 SXS. CEMENT TO SURFACE. PERFORATE: 2889 - 3170'(OA) IP=3 BOPD SET CEMENT RETAINER @ 2800', PUMP 150 SXS BELOW & CAP W/50' CMT. PERFORATE: 1959 - 2013'(OA) - RETURN TO PRODUCTION PERFORATE: 1822 - 2045'(OA) - RETURN TO PRODUCTION SQUEEZE PERFORATIONS 1822' - 2045' W/200 SXS DEEPEN WELLBORE TO 3684' PERFORATE: 2813 - 3244'(OA) CONVERT TO WATER INJECTION WELL
J.L. KEEL "B" #31	1980FNL & 1980FEL SEC 6-T17S-R31E EDDY COUNTY, NM	4/24/85	5/17/85	OIL PRODUCER	3550'/3482'	13 3/8" @ 450' W/500 SXS. CEMENT TO SURFACE. 8 5/8" @ 1515' W/1000 SXS. CEMENT TO SURFACE. 5 1/2" @ 3550' W/800 SXS. CEMENT TO SURFACE. PERFORATE: 2977 - 3280' (OA) IP=25 BOPD DEEPEN WELLBORE TO 3700' PERFORATE: 2853 - 3490'(OA) CONVERT TO WATER INJECTION WELL
J.L. KEEL "B" #32	660FNL & 1980FEL SEC 6-T17S-R31E EDDY COUNTY, NM	12/22/83	1/16/84	OIL PRODUCER	3650'/3562'	8 5/8" @ 550' W/350 SXS. CEMENT TO SURFACE. 5 1/2" @ 3650' W/2300 SXS. CEMENT TO SURFACE. PERFORATE: 3003 - 3418' (OA) IP=26 BOPD PERFORATE: 2974 - 3224'(OA) - RETURN TO PRODUCTION
J.L. KEEL "B" #35	635FNL & 1586FWL SEC 6-T17S-R31E EDDY COUNTY, NM	1/20/86	3/12/86	OIL PRODUCER	3550'/3506'	13 3/8" @ 414' W/650 SXS. CEMENT TO SURFACE. 9 5/8" @ 2700' W/1415 SXS. CEMENT TO SURFACE. 7" @ 3550' W/650 SXS. CEMENT TO SURFACE. PERFORATE: 2952 - 3425' (OA) IP=48 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" #40	1980'FNL & 660'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	7/21/88	10/27/88	OIL PRODUCER	3760'/3715'	8 5/8" @ 460' W/300 SXS. CEMENT TO SURFACE. 5 1/2" @ 3759' W/1300 SXS. CEMENT TO SURFACE. PERFORATE: 2826' - 3483'(OA) SQUEEZE PERFORATIONS 2826' - 2951'(OA) W/600 SXS IP=40 BOPD
J.L. KEEL "B" #42	1980'FSL & 1780'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	9/7/88	9/29/88	OIL PRODUCER	3550'/3481'	8 5/8" @ 463' W/300 SXS. CEMENT TO SURFACE. 5 1/2" @ 3550' W/1200 SXS. CEMENT TO SURFACE. PERFORATE: 2915' - 3509(OA) SQUEEZE PERFORATIONS 2915' - 2948(OA) W/265 SXS PERFORATE: 2965' - 3509(OA) IP=108 BOPD
J.L. KEEL "B" #59	1280'FNL & 1070'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	12/15/94	3/4/95	OIL PRODUCER	3980'/3530'	8 5/8" @ 438' W/415 SXS. CEMENT TO SURFACE. 5 1/2" @ 3979' W/1500 SXS. CEMENT TO SURFACE. PERFORATE: 2994' - 3899(OA) SET CIBP @ 3750' & 3530' IP=31 BOPD
J.L. KEEL "B" #60	1300'FNL & 2450'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	1/24/95	4/2/95	OIL PRODUCER	4015'/3967'	8 5/8" @ 462' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 4014' W/1275 SXS. CEMENT TO SURFACE. PERFORATE: 2856' - 3896" (OA) IP=71 BOPD
J.L. KEEL "B" #62	2650'FSL & 2650'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	1/31/95	4/30/95	OIL PRODUCER	4030'/3981'	8 5/8" @ 470' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 4029' W/1300 SXS. CEMENT TO SURFACE. PERFORATE: 2867' - 3923' (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>
J.L. KEEL "B" #63	1310'FSL & 1190'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	2/1/95	4/12/95	OIL PRODUCER	4000'/3952'	8 5/8" @ 433' W/325 SXS. CEMENT TO SURFACE. 5 1/2" @ 3999' W/1220 SXS. CEMENT TO SURFACE. PERFORATE: 2785'- 3611'(OA) IP=113 BOPD
J.L. KEEL "B" #64	1180'FSL & 2350'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	12/22/94	4/15/95	OIL PRODUCER	3965'/3932'	8 5/8" @ 460' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3964' W/950 SXS. CEMENT TO SURFACE. PERFORATE: 2800'- 3846'(OA) IP=77 BOPD
J.L. KEEL "B" #65	50'FSL & 1290'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	1/25/95	4/16/95	OIL PRODUCER	3950'/3904'	8 5/8" @ 432' W/500 SXS. CEMENT TO SURFACE. 5 1/2" @ 3949' W/1525 SXS. CEMENT TO SURFACE. PERFORATE: 2793'- 3615'(OA) IP=65 BOPD
J.L. KEEL "B" #81	2550'FNL & 1190'FWL SEC 6-T17S-R31E EDDY COUNTY, NM	2/14/95	5/17/95	OIL PRODUCER	4000'/3947'	8 5/8" @ 470' W/850 SXS. CEMENT TO SURFACE. 5 1/2" @ 3999' W/1200 SXS. CEMENT TO SURFACE. PERFORATE: 2853'- 3701'(OA) IP=76 BOPD
			8/28/96		4000'/2795'	SET RBP @ 2795'
			10/22/96		4000'/3947'	PERFORATE: 1818'- 2091'(OA) - RETURN TO PRODUCTION REMOVE RBP PERFORATE: 2802'- 3096'(OA) - RETURN TO PRODUCTION

VI Wells Within "Area Of Review"

<u>WELL NAME</u>	<u>LOCATION</u>	<u>SPUD DATE</u>	<u>COMP DATE</u>	<u>WELL TYPE</u>	<u>DEPTH/PBTD</u>	<u>COMPLETION RECORD</u>
ARTESIA PETROLEUM CO #2 Marbob Energy Corp	1980FNL & 660FEL SEC 1-T17S-R30E EDDY COUNTY, NM	7/14/56	9/26/56	OIL PRODUCER	3086'/3086'	8 5/8" @ 597' W/50 SXS 7" @ 2495' W/15 SXS 5 1/2" @ 3086' W/320 SXS PERFORATE: 3030' - 3050' IP=50 BOPD
ARTESIA PETROLEUM CO #3 W.H. McKinley	660FNL & 1980FEL SEC 1-T17S-R30E EDDY COUNTY, NM	7/18/60	8/18/80	OIL PRODUCER	3150'/3138'	8 5/8" @ 371' W/225 SXS 4 1/2" @ 3147' W/1900 SXS PERFORATE: 2840' - 3060' IP=8 BOPD PLUGGED & ABANONED
ARTESIA PETROLEUM CO #4 Marbob Energy Corp	890FNL & 890FEL SEC 1-T17S-R30E EDDY COUNTY, NM	6/11/81	8/6/81	OIL PRODUCER	3320'/3310'	8 5/8" @ 370' W/375 SXS 4 1/2" @ 3310' W/4050 SXS PERFORATE: 2912' - 2986' IP=1 BOPD
GRIER "A" #1 Newmont Oil Company	1980FSL & 511FWL SEC 31-T16S-R31E EDDY COUNTY, NM	11/28/42	3/1/43	OIL PRODUCER	3060'/3060'	8 5/8" @ 577' W/50 SXS 5 1/2" @ 2955' W/100 SXS OPEN HOLE COMPLETION: 2955' - 3060' IP=75 BOPD PLUGGED & ABANDONED
GRIER "B" #2 GP II Energy, Inc.	1370FSL & 977FWL SEC 31-T16S-R31E EDDY COUNTY, NM	12/23/83	2/2/84	OIL PRODUCER	3370'/3356'	8 5/8" @ 514' W/425 SXS 5 1/2" @ 3356' W/1320 SXS PERFORATE: 3062' - 3169'(OA) IP=112 BOPD
GRIER FEDERAL #3 McDonald-Williams	660FSL & 512FWL SEC 31-T16S-R31E EDDY COUNTY, NM	11/14/42	2/1/43	OIL PRODUCER	3157'/3157'	8 1/4" @ 550' W/50 SXS 5 1/2" @ 2900' W/100 SXS OPEN HOLE COMPLETION: 2900' - 3157' IP=50 BOPD PLUGGED & ABANDONED

*MA*

*7 7/8" CRK*

*7 7/8" CRK*

*MA*

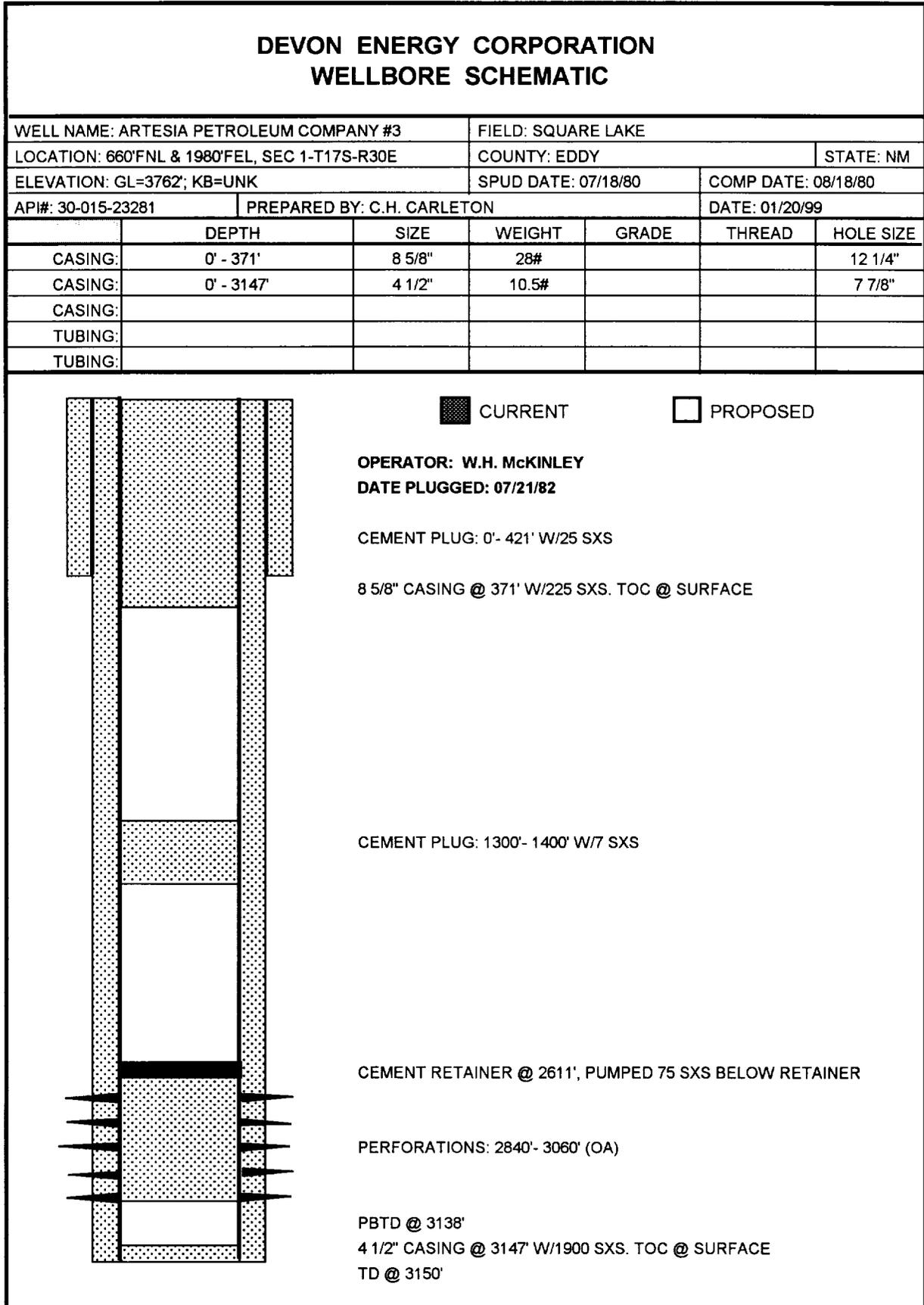
VI Wells Within "Area Of Review"

<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>
GRIER FEDERAL #4 McDonald-Williams <i>2/18</i>	660FSL & 1684FWL SEC 31-T16S-R31E EDDY COUNTY, NM	3/14/43	7/11/43	OIL PRODUCER	3574/3574'	8 1/4" @ 591' W/50 SXS 5 1/2" @ 2947' W/100 SXS OPEN HOLE COMPLETION: 2947' - 3574' IP=49 BOPD PLUGGED & ABANDONED
GRYBRG-JCKSN SA UT #36 Burnett Oil Company	1760FSL & 660FEL SEC 12-T17S-R30E EDDY COUNTY, NM	6/29/57	10/20/57	OIL PRODUCER	3507/3507'	8 5/8" @ 570' W/50 SXS 7" @ 3303' W/300 SXS OPEN HOLE COMPLETION: 3303' - 3507' IP=30 BOPD
GRYBRG-JCKSN SA UT #38 Burnett Oil Company	660FNL & 660FEL SEC 12-T17S-R30E EDDY COUNTY, NM	4/14/57	8/8/57	OIL PRODUCER	3540/3540'	8 5/8" @ 540' W/50 SXS 7" @ 2412' LANDED - NOT CEMENTED 5 1/2" @ 3492' W/100 SXS PERFORATE: 3386 - 3540'(OA) IP=43 BOPD
GRYBRG-JCKSN SA UT #47 Burnett Oil Company	1980FNL & 1980FEL SEC 12-T17S-R30E EDDY COUNTY, NM	11/29/81	8/23/82	OIL PRODUCER	3575/3575'	8 5/8" @ 395' W/300 SXS. CEMENT TO SURFACE. 5 1/2" @ 3575' W/1100 SXS. CEMENT TO SURFACE. PERFORATE: 2922 - 3556'(OA) IP=5 BOPD
GRYBRG-JCKSN SA UT #48 Burnett Oil Company	1980FNL & 660FEL SEC 12-T17S-R30E EDDY COUNTY, NM	6/27/92	11/16/92	OIL PRODUCER	3589/3589'	8 5/8" @ 505' W/350 SXS. CEMENT TO SURFACE. 5 1/2" @ 3583' W/830 SXS. CEMENT TO SURFACE. PERFORATE: 3101 - 3470'(OA) IP=36 BOPD
JACKSON FEDERAL "B" #18 Burnett Oil Company	1980FSL & 660FEL SEC 1-T17S-R30E EDDY COUNTY, NM	11/26/56	2/15/57	OIL PRODUCER	3220/3220'	8 5/8" @ 571' W/50 SXS 5 1/2" @ 3220' W/195 SXS PERFORATE: 2881 - 3183'(OA) IP=100 BOPD
JACKSON FEDERAL "B" #19 Burnett Oil Company <i>2/18</i>	660FSL & 660FEL SEC 1-T17S-R30E EDDY COUNTY, NM	2/15/57	4/18/57	OIL PRODUCER	3197/3197'	8 5/8" @ 560' W/50 SXS 5 1/2" @ 3197' W/100 SXS PERFORATE: 2899 - 3172'(OA) IP=309 BOPD

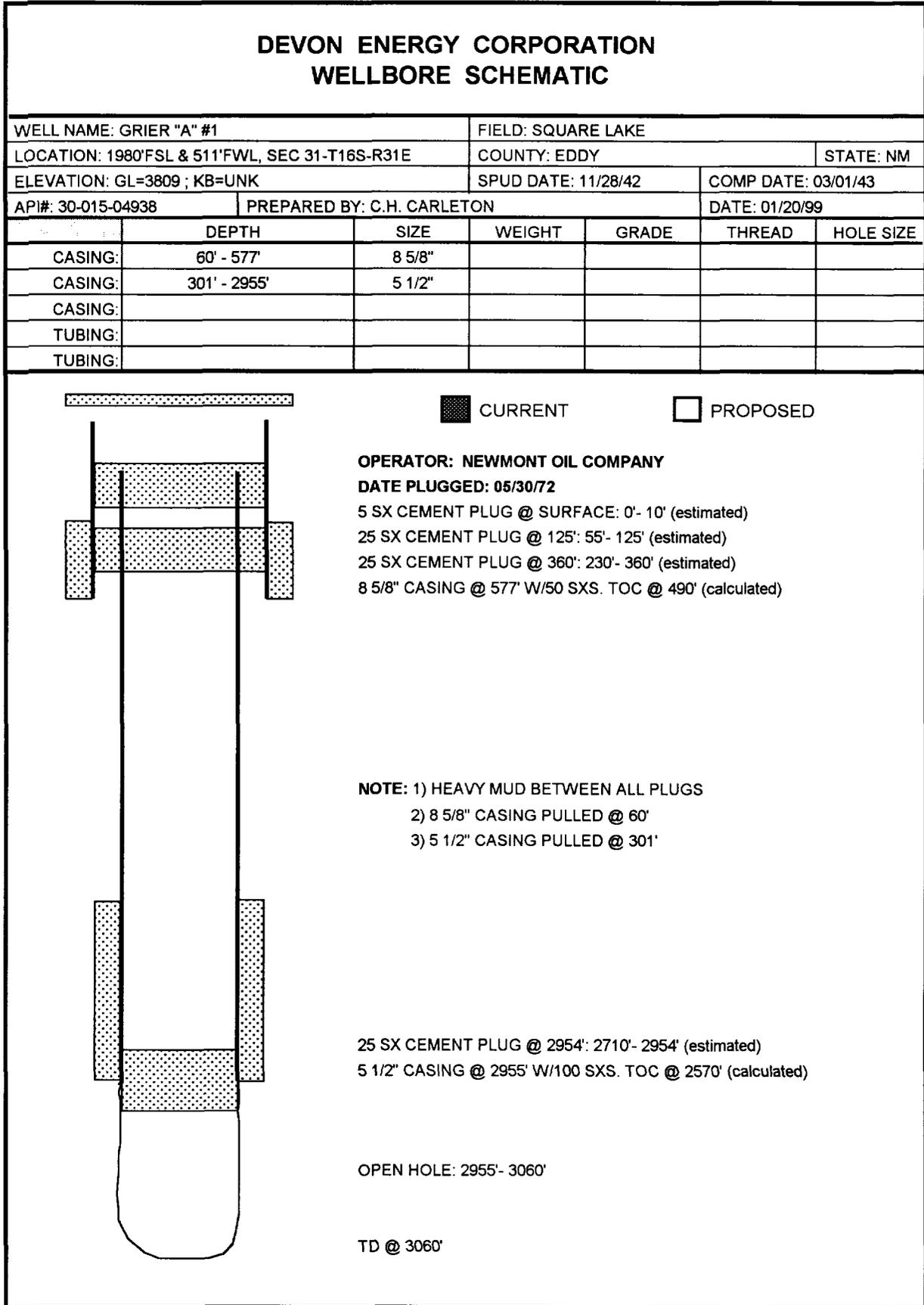
VI Wells Within "Area Of Review"

WELL NAME	LOCATION	SPUD DATE	COMP DATE	WELL TYPE	DEPTH/PBTD	COMPLETION RECORD
JACKSON FEDERAL "B" #20 Burnett Oil Company	660FSL & 1980FEL SEC 1-T17S-R30E EDDY COUNTY, NM	4/21/57	7/10/57	OIL PRODUCER	3188'/3188'	8 5/8" @ 523' W/50 SXS 7" @ 2387', LANDED-NOT CEMENTED 5 1/2" @ 3188' W/100 SXS PERFORATE: 2852 - 3149(OA) IP=40 BOPD <i>7 7/8 EST.</i>
LOE, H.J. #1 GP II Energy, Inc.	330FSL & 1337FWL SEC 31-T16S-R31E EDDY COUNTY, NM	5/8/57	5/31/57	OIL PRODUCER	3160'/3160'	8 5/8" @ 1446' W/900 SXS 5 1/2" @ 3160' W/350 SXS PERFORATE: 2974 - 3132(OA) IP=17 BOPD DEEPEMED WELLBORE TO 3206' - RETURN TO PRODUCTION
LOE, H.J. #5 GP II Energy, Inc.	660FSL & 330FWL SEC 31-T16S-R31E EDDY COUNTY, NM	8/2/84	9/4/84	OIL PRODUCER	3350'/3346'	8 5/8" @ 497' W/450 SXS 5 1/2" @ 3346' W/3250 SXS PERFORATE: 3025 - 3108(OA) IP=40 BOPD <i>7 7/8 CR</i>
W. SQUARE LAKE UNIT #10 J. Cleo Thompson	660FSL & 660FEL SEC 36-T16S-R30E EDDY COUNTY, NM	4/4/46	6/6/46	OIL PRODUCER	3147'/3147'	8 5/8" @ 570' W/50 SXS 5 1/2" @ 2943' W/100 SXS OPEN HOLE COMPLETION: 2943' - 3147' IP=100 BOPD <i>8 1/4</i>
W. SQUARE LAKE UNIT #12 J. Cleo Thompson	660FSL & 1295FEL SEC 36-T16S-R30E EDDY COUNTY, NM	8/24/85	5/26/86	OIL PRODUCER	3935'/3934'	12 3/4" @ 298' W/405 SXS 5 1/2" @ 3934' W/1635 SXS PERFORATE: 3019 - 3703(OA) IP=53 BOPD <i>7 7/8 500'</i>

# VI Wellbore Schematic of Plugged Wells:

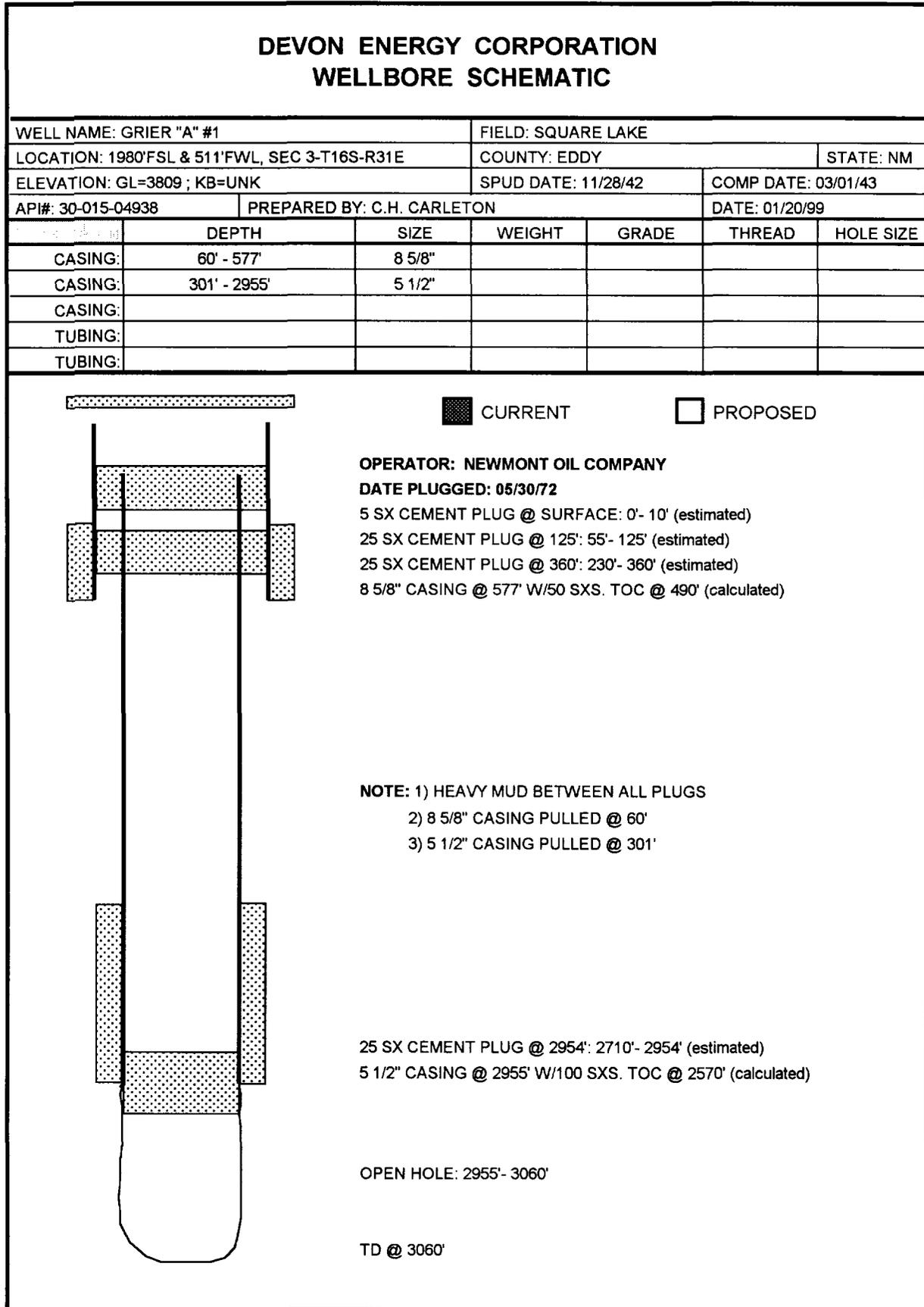


# VI Wellbore Schematic of Plugged Wells:



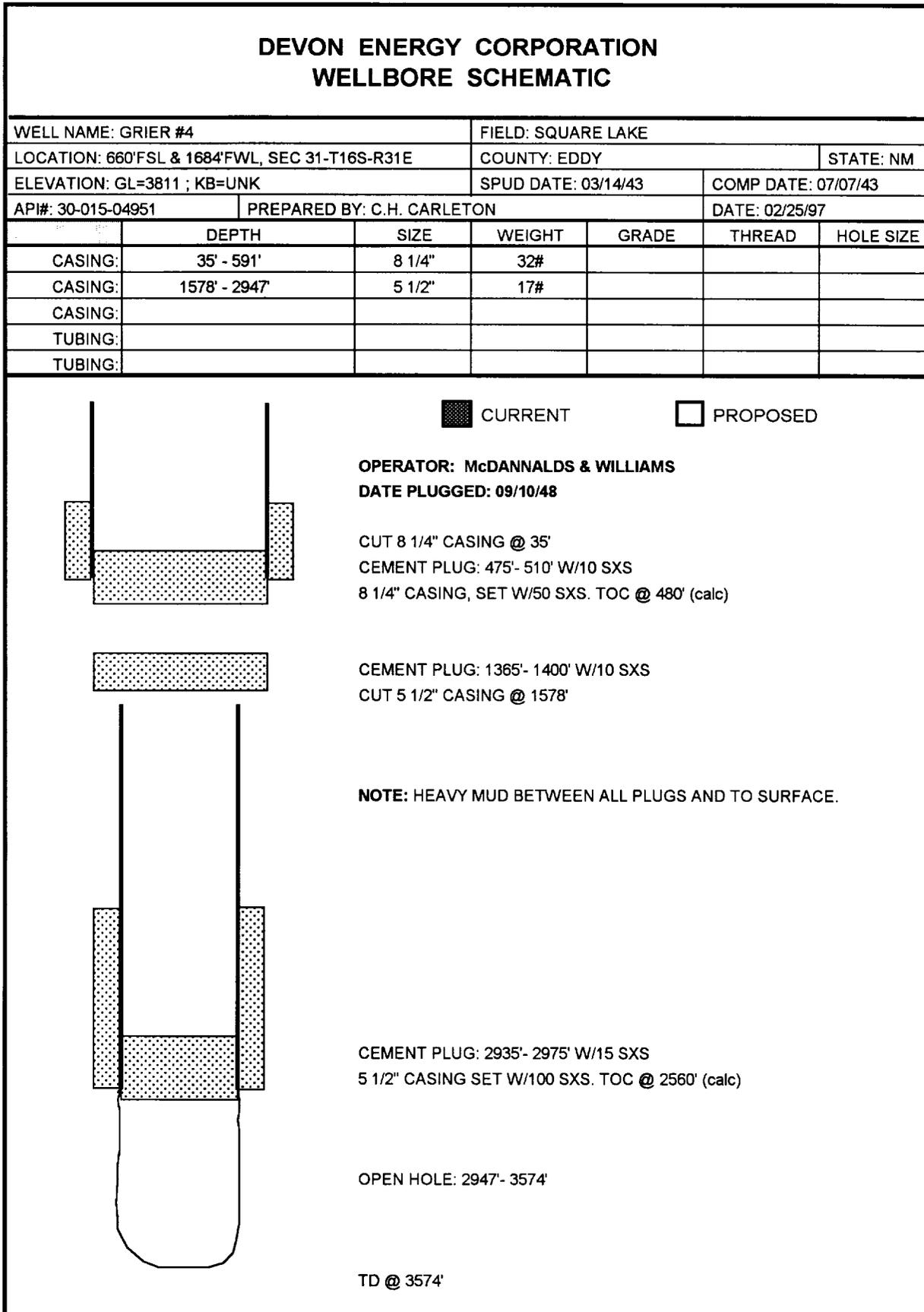
NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

# VI Wellbore Schematic of Plugged Wells:



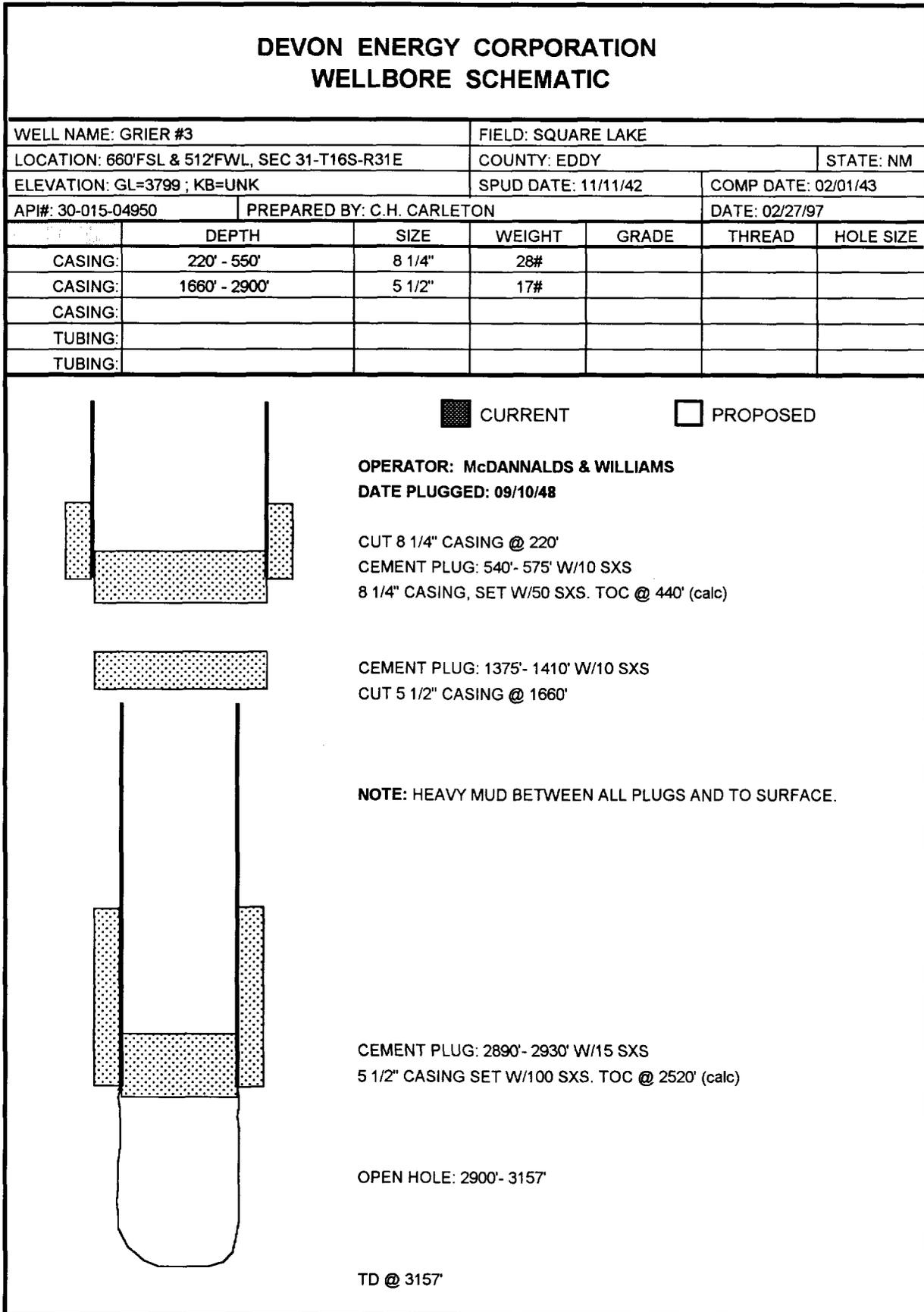
NOTE: FOR CALCULATED CEMENT TOPS A YIELD OF 1.32 CU FT/SX AND 50% FILLUP WERE ASSUMED.

# VI Wellbore Schematic of Plugged Wells:



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

**VI Wellbore Schematic of Plugged Wells:**



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

**DEVON ENERGY CORPORATION(NEVADA)  
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 2750'-3640'. 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 CORPORATION(NEVADA)  
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 Corporation(Nevada) operates the Grayburg-Jackson Unit in sections 6, & 7-T17S-R31E. Offset operators in the "area of review" are as follows:

- |  |  |
|--|--|
| (1) Burnett Oil Company, Inc.<br>801 Cherry St., Suite 1500<br>Ft. Worth, TX 76102 | (2) GP II Energy, Inc.<br>731 W. Wadley, Bldg L, #208<br>Midland, TX 79705 |
| (3) Marbob Energy Corporation<br>324 W. Main, Suite 103<br>Artesia, NM 88210       | (4) James Cleo Thompson<br>117 E. Youkon Rd.<br>Odessa, TX 79768           |

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 also attached.



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

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

December 17, 1998

Certified Mail Z 068 589 361

Burnett Oil Company, Inc.  
801 Cherry Street., Suite 1500  
Ft. Worth, TX 76102

RE: Devon Energy Corporation  
Grayburg-Jackson Waterflood Project  
Sections 6, & 7 - 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 three producing wells to water injectors and restore injection to one shutin injector 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

Is your RETURN ADDRESS completed on the reverse side?	<b>SENDER:</b> <ul style="list-style-type: none"> <li>■ Complete items 1 and/or 2 for additional services.</li> <li>■ Complete items 3, 4a, and 4b.</li> <li>■ Print your name and address on the reverse of this form so that we can return this card to you.</li> <li>■ Attach this form to the front of the mailpiece, or on the back if space does not permit.</li> <li>■ Write "Return Receipt Requested" on the mailpiece below the article number.</li> <li>■ The Return Receipt will show to whom the article was delivered and the date delivered.</li> </ul>		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.
	3. Article Addressed to: BURNETT OIL COMPANY, INC. 801 CHERRY ST., SUITE 1500 FT. WORTH, TX 76102	4a. Article Number Z 068 589 361	
	5. Received By: (Print Name)	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
	6. Signature: (Addressee or Agent) X	7. Date of Delivery 12/21/98	8. Addressee's Address (Only if requested and fee is paid)

December 17, 1998

Certified Mail Z 068 589 362

GP II Energy, Inc.  
731 W. Wadley, Bldg. L, Suite 208  
Midland, TX 79705

RE: Devon Energy Corporation  
Grayburg-Jackson Waterflood Project  
Sections 6, & 7 - 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 three producing wells to water injectors and restore injection to one shutin injector 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.

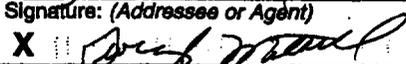
Please direct any questions regarding this matter to the undersigned at 405/552-4560.

Sincerely,  
Devon Energy Corporation

  
Randy Jackson  
District Engineer

/chc

xc: Well File

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	3. Article Addressed to: GP II ENERGY, INC. 731 W. WADLEY, BLDG L, SUITE 208 MIDLAND, TX 79705	4a. Article Number Z 068 589 362	
	5. Received By: (Print Name) George MITCHELL	4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
	6. Signature: (Addressee or Agent) X 	7. Date of Delivery DEC 24 1998	8. Addressee's Address (Only if requested and fee is paid)

December 17, 1998

**Certified Mail Z 068 589 363**

Marbob Energy Corporation  
324 W. Main, Suite 103  
Artesia, NM 88210

RE: Devon Energy Corporation  
Grayburg-Jackson Waterflood Project  
Sections 6, & 7 - 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 three producing wells to water injectors and restore injection to one shutin injector 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.

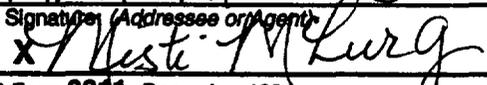
Sincerely,  
Devon Energy Corporation



Randy Jackson  
District Engineer

/chc

xc: Well File

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	3. Article Addressed to: <b>MARBOb ENERGY CORPORATION</b> <b>324 W. MAIN, SUITE 103</b> <b>ARTESIA, NM 88210</b>		4a. Article Number <b>Z 068 589 363</b>	
	5. Received By: (Print Name) <b>MISTI McLURG</b>		4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD	
	6. Signature (Addressee or Agent) 		7. Date of Delivery <b>12-21-98</b> 8. Addressee's Address (Only if requested and fee is paid)	

December 17, 1998

Certified Mail Z 068 589 364

James Cleo Thompson  
117 E. Youkon Rd.  
Odessa, TX 79768-2577

RE: Devon Energy Corporation  
Grayburg-Jackson Waterflood Project  
Sections 6, & 7 - 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 three producing wells to water injectors and restore injection to one shutin injector 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

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	<ul style="list-style-type: none"> <li>■ Complete items 1 and/or 2 for additional services.</li> <li>■ Complete items 3, 4a, and 4b.</li> <li>■ Print your name and address on the reverse of this form so that we can return this card to you.</li> <li>■ Attach this form to the front of the mailpiece, or on the back if space does not permit.</li> <li>■ Write "Return Receipt Requested" on the mailpiece below the article number.</li> <li>■ The Return Receipt will show to whom the article was delivered and the date delivered.</li> </ul>		
	3. Article Addressed to:	4a. Article Number	
	4b. Service Type	7. Date of Delivery	
	5. Received By: (Print Name)	8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent)			
JAMES CLEO THOMPSON 117 E. YOKON RD. ODESSA, TX 79768		Z 068 589 364  <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  12-21-98	
PS Form 3811, December 1994		102595-97-8-0179 Domestic Return Receipt	

Thank you for using Return Receipt Service.

# Affidavit of Publication

No 19533

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:

December 22, 19 98  
\_\_\_\_\_, 19 \_\_\_\_  
\_\_\_\_\_, 19 \_\_\_\_  
\_\_\_\_\_, 19 \_\_\_\_  
\_\_\_\_\_, 19 \_\_\_\_  
\_\_\_\_\_, 19 \_\_\_\_

That the cost of publication is \$ 30.07,  
and that payment thereof has been made and will be assessed as court costs.

Amy McKay

Subscribed and sworn to before me this

22<sup>nd</sup> day of December, 19 98

Donna M. Crump

My commission expires 8-1-02  
Notary Public

December 22, 1998

### Legal Advertisement

Notice is hereby given that Devon Energy Corporation is applying to the New Mexico Oil Conservation Division to convert three (3) producing wells to water injectors and restore injection to one (1) shutin injection well for secondary recovery purposes in:

Sections 6, and 7 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 Corporation  
20 North Broadway,  
Suite 1500  
Oklahoma City, OK 73102  
(405) 522-4560