

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Devon Energy Production Company, LP
ADDRESS: 20 North Broadway, Ste 1500, Oklahoma City, OK 73102
CONTACT PARTY: James Blount PHONE: (405)228-4301
- 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: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a onehalf 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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: James Blount TITLE: Operations Engineering Advisor

SIGNATURE: James Blount

DATE: 11-19-03

* 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 circumstances of the earlier submittal: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, 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.

**C-108 Application for Authorization to Inject
Devon Energy Production Company, LP
H B 11 Federal 11
Sec 11 T24S R29E
Eddy County, New Mexico**

30-05-29739

Devon Energy Production Company, LP plans to convert this well to a water disposal well into the Delaware Sand.

Operator: Devon Energy Production Company, LP
20 North Broadway, Ste 1500
Oklahoma City, OK 73102

Well Data: See Attachment A

This is not an expansion of an existing project

See Attached map, Attachment B.

4 well are within the area of review penetrate the proposed injection zone (See Attachment C)

Proposed average daily injection volume approximately 1,000 BWPD. Maximum daily injection volume approximately 2,000 BWPD.

This will be a closed system.

Proposed average injection pressure unknown
Proposed maximum injection pressure 1000 psi.

Sources of injected water would be produced water from the Bone Spring and Delaware Sand. (Attachment D)

The proposed injection interval is the Bell Canyon Sand formation consisting of porous Sandstone from estimated depths of 3265' – 3658'.

Possible Fresh water zones overlie the proposed injection formations at depths to approximately 500'. There are no fresh water zones underlying the formation.

The proposed disposal interval may be acidized with 7 ½% HCL acid, or proppant fractured.

Logs were filed at the Artesia office when the well was drilled.

Devon Energy Production Company, LP has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.

Proof of Notice.

- A. Certified letters sent to the Bureau of Land Management the surface owner and offset operators attached (Attachment E)
- B. Copy of legal advertisement attached. (Attachment F)

Certification is signed.

Print or Type Name: James Blount
Signature: James Blount
Title: Operations Engineering Advisor
Date: 11-19-03
e-mail Address: jim.blount@dvn.com

INJECTION WELL DATA SHEET
Attachment "A"

GENERAL DATA

OPERATOR: Devon Energy Production Company LP

WELL NAME: H B 11 Federal 11

FIELD: Cedar Canyon

LOCATION: Sec 11, 24S, 29E, 2080' FSL, 1930' FEL

COUNTY: Eddy

STATE: NM

ELEVATION: 3040' GL

SPUD DATE: 10/31/97

COMP DATE: 4/22/03

API#: 30-015-29739

CASING DATA

	Casing Size	Depth	Weight	Grade	Sacks Cement	Hole Size	TOC	TOC Method	
Surface Casing	13-3/8"	0-353'	48#	H40	400	17-1/2"	Surface	circulation	
Intermediate	8-5/8"	0-3118'	24#	K55	1000	11.0"	Surface	circulation	
Production	5-1/2"	0-8460'	17#	K55	1050	7-7/8"	3514' **	CBL	

** 5-1/2" casing will be perforated @ 3500' and squeezed with +/- 300 sacks cement

INJECTION DATA

INJECTION ZONE: Bell Canyon Sand

INJECTION INTERVAL: 3265' - 3658'

MAX INJECTION RATE: 2000 BWPD

MAX INJECTION PRESSURE: 1000 PSI

SOURCE INJECTION WATER: Bone Spring & Delaware

PACKER: 5-1/2" Lok-Set Packer

PACKER DEPTH: 3220'

TUBING SIZE: 2-7/8", 6.5#, J55, IPC

OTHER DATA

1. Is this a new well drilled for injection?

Yes

☐

NO

☒

If no, for what purposed was the well originally drilled? Bone Springs / Delaware oil producer

2. Has the well been perforated in any other zone(s)? List all such perforated intervals and give plugging details (sacks of cement or bridge plugs used.)

Perforated Intervals

6506' to 6526'

6731' to 6751'

6993' to 7008'

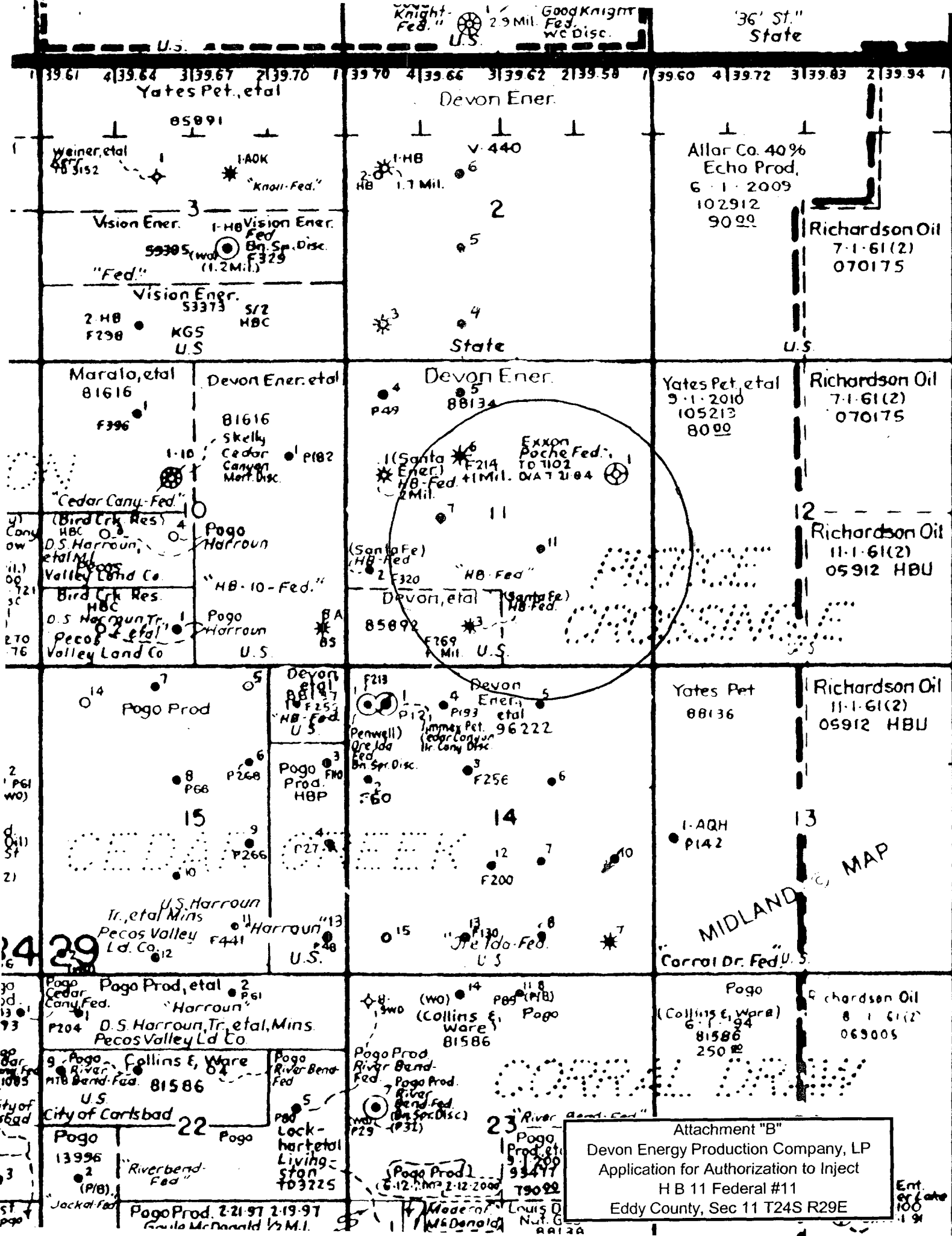
8112' to 8132'

Plugging Details

CIBP @ 8070' W/ 35' cement on top

3. Give the depth to and name of any overlying and/or underlying oil and gas zones (pools) in this area.

Bone Spring at 7900'



Attachment "B"
Devon Energy Production Company, LP
Application for Authorization to Inject
H B 11 Federal #11
Eddy County, Sec 11 T24S R29E

Affidavit of Publication

State of New Mexico,
County of Eddy, ss.

Dawn Higgins, being first duly sworn, on oath says:

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

November 11 2003

2003

2003

2003

That the cost of publication is \$ 38.33
and that payment thereof has been made and will be assessed as court costs.

Dawn Higgins

Subscribed and sworn to before me this

12 day of November, 2003

Stephanie Dabson

My commission expires 12-13-05
Notary Public

November 11, 2003

Legal Notice

Devon Energy Production Company, LP, 20 North Broadway, Oklahoma City, OK 73102-8260 has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well the H B 11 Federal #11 located 2080' FSL & 1930 FEL, Section 11, Township 24 South, Range 29 East, in Eddy County, New Mexico, will be used for saltwater disposal. Disposal waters from the Bone Spring and Delaware will be reinjected into the Bell Canyon Sand at a depth of 3265'-365-8' with a maxi-

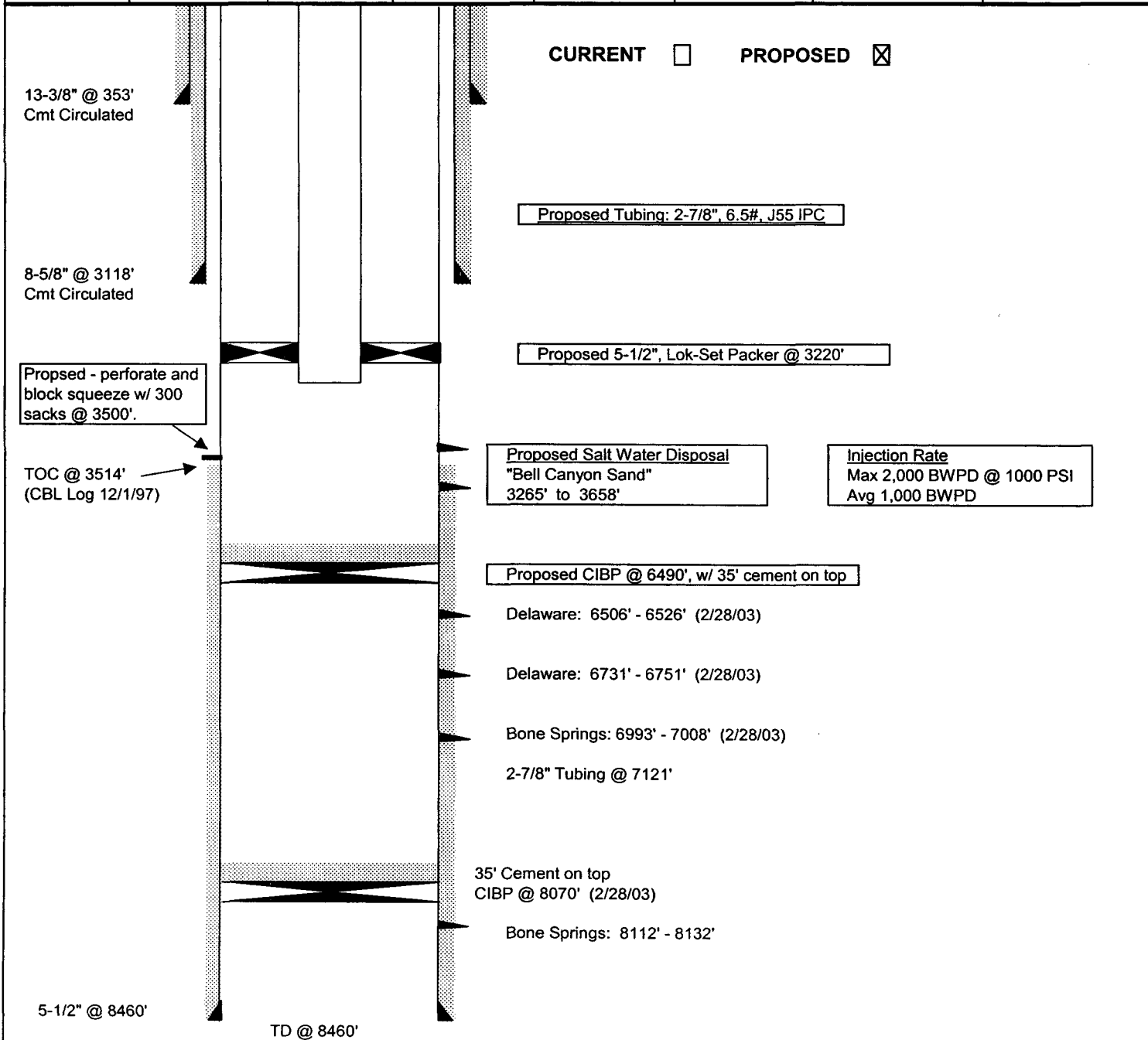
mum pressure of 1000 psi and a maximum rate of 2,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505-5472, within 15 days. Additional information can be obtained by contacting Jim Blount at (405) 228-4301.

DEVON ENERGY PRODUCTION COMPANY LP
Proposed Wellbore Schematic for Salt Water Disposal

WELL NAME: H B 11 Federal 11			FIELD: Cedar Canyon		
LOCATION: Sec 11, 24S, 29E 2080' FSL, 1930' FEL			COUNTY: EDDY	STATE: NM	
ELEVATION: 3040' GL			SPUD DATE: 10/31/97	COMP DATE: 4/22/03	
API#: 30-015-29739	Prepared By: Ronnie Slack				

TUBULARS	DEPTH	SIZE	WEIGHT	GRADE	THREAD	Sacks Cement	HOLE SIZE
Casing	0' - 353'	13-3/8"	48#	H40		400 sx	17.5"
Casing	0' - 3118'	8-5/8"	24#	K55		1000 sx	11.0"
Casing	0' - 8460'	5-1/2"	17#	K55		1050 sx	7.875"

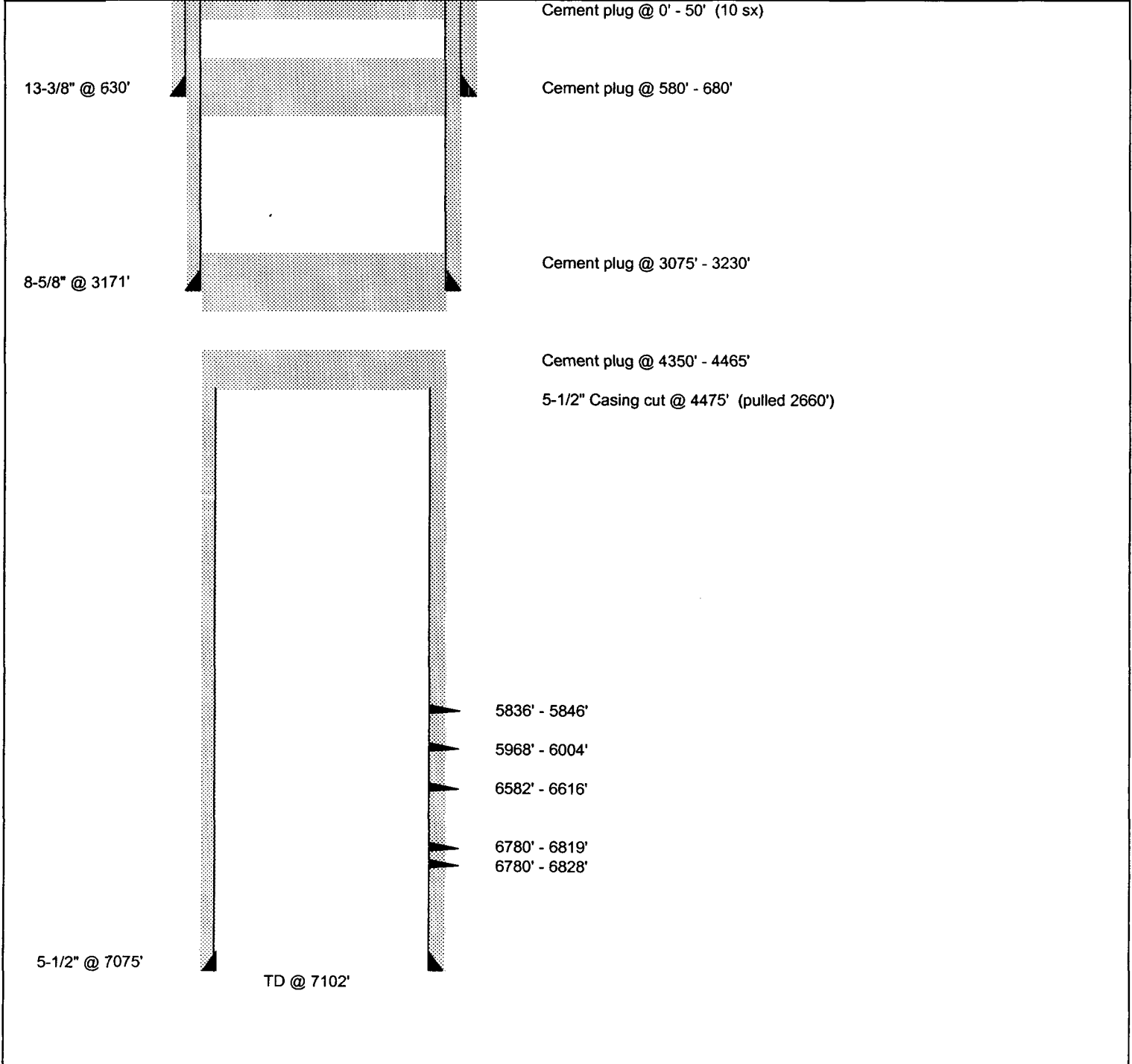


Rev: 11/18/03

EXXON CORPORATION
CURRENT SCHEMAT - Poche Federal #1 (Plugged & Abandoned)

WELL NAME: Poche Federal #1			FIELD: Wildcat		
LOCATION: Sec 11, 24S, 29E 1980' FNL, 660' FEL			COUNTY: EDDY	STATE: NM	
ELEVATION: 3084' GR			SPUD DATE: 2/24/83	COMP DATE: P&A 7/21/84	
API#: 30-015-29739	Prepared By: Ronnie Slack				

TUBULARS	DEPTH	SIZE	WEIGHT	GRADE	THREAD	Sacks Cement	HOLE SIZE
Casing	0' - 630'	13-3/8"	48#			3200 sx	17-1/2"
Casing	0' - 3171'	8-5/8"	24#			600 sx	11"
Casing	0' - 7075'	5-1/2"	17#			650 sx	7-7/8"
Tubing							



Attachment "C"

Tabulation of data on wells within 1/2 mile area of review for converting H B 11 Federal #11 to salt disposal

Well To Convert to SWD: ==> H B 11 Federal #11 ***

Well Name	API No.	County	Operator	Type	Status	Spud	Total Depth	PBTD	Producing Zone	Perforation Record	Completion Information
Poche Federal #1 Sec 11, T24S, R29E 1980' FNL, 660' FEL	30-015-24427	Eddy	Exxon Corporation		P&A'd 7/21/84	2/24/1983	7102	surface		5836' - 5846' 5968' - 6004' 6582' - 6616' 6780' - 6819' 6780' - 6828'	13-3/8", @ 630'. Cmt'd w/3200 sx 8-5/8" @ 3171'. Cmt'd w/900 sx 5-1/2" @ 7075'. Cmt'd w/850 sx Plugged & Abandoned 7/21/84 as follows. 2660' - 5-1/2" casing pulled from well Cement plugs as follows 0-50' (10 sx) 580' - 680' (30 sx) 3075' - 3230' (50 sx) 4350' - 4465' (50 sx)
H B 11 Federal #3 Sec 11, T24S, R29E 850' FSL, 2100' FWL	30-015-29249	Eddy	Devon Energy Production Co. LP	Oil	Producing	1/21/1997	8300	8253	Bone Spring	7958' - 8016'	13-3/8", @ 385'. Cmt'd w/400 sx 8-5/8" @ 2940'. Cmt'd w/950 sx 5-1/2" @ 8266'. Cmt'd w/920 sx
H B 11 Federal #6 Sec 11, T24S, R29E 1650' FNL, 1980' FWL	30-015-29585	Eddy	Devon Energy Production Co. LP	Oil	Producing	5/14/1997	8450	8407	Bone Spring	8051' - 8158'	13-3/8", @ 355'. Cmt'd w/400 sx 8-5/8" @ 2974'. Cmt'd w/1250 sx 5-1/2" @ 8450'. Cmt'd w/900 sx
H B 11 Federal #7 Sec 11, T24S, R29E 2550 FSL, 1600 FWL	30-015-32606	Eddy	Devon Energy Production Co. LP	Oil	Producing	3/7/2003	8401	8294	Bone Spring	8043' - 8098'	13-3/8", @ 392'. Cmt'd w/388 sx 8-5/8" @ 3108'. Cmt'd w/1022 sx 5-1/2" @ 8400'. Cmt'd w/1120 sx
H B 11 Federal #11 *** Sec 11, T24S, R29E 2080 FSL, 1930 FEL	30-015-29739	Eddy	Devon Energy Production Co. LP	Oil	Shut In	10/31/1997	8460	8035	Delaware Delaware Bone Spring Bone Spring	6506' - 6526' 6731' - 6751' 6993' - 7008' 8112' - 8132'	13-3/8" @ 353'. Cmt'd w/400 sx 8-5/8" @ 3118'. Cmt'd w/ 1000 sx 5-1/2" @ 8460'. Cmt'd w/ 1050 sx CIBP @ 8070', w/ 35' cmt on top



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

November 19, 2003

Yates Petroleum Corp
105 S. 4th
Artesia, NM 88210

Gentlemen;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Devon Energy Production Company, LP's HB 11 Federal #11 located in Unit J, Sec 11 T24S R29E of Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (405)228-4301.

Sincerely,

A handwritten signature in cursive script that reads "James Blount".

James Blount
Operations Engineering Advisor

JB/kc

Enclosure



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

November 19, 2003

New Mexico State Land Office
P O Box 1148
Santa Fe, NM 87504-1148

Gentlemen;

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Devon Energy Production Company, LP's HB 11 Federal #11 located in Unit J, Sec 11 T24S R29E of Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (405)228-4301.

Sincerely,

A handwritten signature in cursive script that reads "James Blount".

James Blount
Operations Engineering Advisor

JB/kc

Enclosure

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ENERGY CORPORATION

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Oklahoma City, Oklahoma 73102-8260

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PS Form 3800, June 2002	

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1. Article Addressed to:

YATES PETROLEUM CORP
105 S. 4TH
ARTH, NM 88210

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A. Signature
☒ Agent
☐ Addressee

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- ☐ Return Receipt for Merchandise
- ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

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PS Form 3800, June 2002

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Kathleen K. Rothman

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Santa Fe, NM 87504
City, State, ZIP+4

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P O BOX 1148
SANTA FE, NM 87504-1148

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- X**
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- ☐ Registered ☐ Return Receipt for Merchandise
- ☐ Insured Mail ☐ C.O.D.
4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
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City, State, ZIP+4	RETURN TO KAREN COTTOM, MAT 1150F

PS Form 3800, June 2002
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
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1. Article Addressed to:

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☐ Agent
☒ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
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3. Service Type

- ☒ Certified Mail
- ☐ Registered
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- ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

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