Form 3160-5 (June 1990)

any matter within its jurisdiction.

UN TO STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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FORM APPROVED
Budget Bureau No. 1004-0135
Expires March 31. 1993

SUNDRY NOTICES	AND REPORTS ON WELLS	5. Lease Designation and Serial No.
o not use this form for proposals to drill or	LC 029426-A	
Use "APPLICATION FO	6. If Indian, Allottee or Tribe Name	
		NA I
SUBMIT	N TRIPLICATE	7. If Unit or CA, Agreement Designation
Type of Well		
Gas □ Other Well □ Other	V	NA 8. Well Name and No.
Name of Operator		8. Well Name and INC.
DEVON ENERGY OPERATING CORPORA	TION	WEST "A" #17
Address and Telephone No.		9. API Well No.
20 NORTH BROADWAY, SUITE 1500, OKL	AHOMA CITY, OKLAHOMA 73102 (405)552-4560	30-015-26212
Location of Well (Footage, Sec., T., R., M., or Survey De	cription)	10. Field and Pool, or Exploratory Area
660' FSL & 660' FEL, Sec. 4-T17S-R31E		GRAYBURG-JACKSON
, , , , , , , , , , , , , , , , , , ,	JT.P	11. County or Parish, State
		EDDY CO., NEW MEXICO
CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTIO	
THE OF SUBMISSION		
Notice of Intent	Abendonment	Change of Plans New Construction
-	Recompletion	Non-Routine Fracturing
Subsequent Report	Plugging Back Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
Pinal Abandoniicia Potice	Other	Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
Corporation plans to drill out the acidize w/15% NEFE acid and of	ices from perforations 3214' to 3863' overage shoe joint from 3890' to 3930', selectively convert the well to injection. Take the perforation is a selectively convert the well to inject.	perforate the interval 3182'-3930'
14. I hereby certify that the foregoing is true and correct Signed	RANDY JACKSON DISTRICT ENGINEER	Date 11/16/94
(This space for Federal of State office use) Approved by Orig. Signed by Addam Salameth Conditions of approval if any: Stational to	Patraloum Engineer	Date 12/13/94
Like Approv ai	Title	

WILL CURSERVATION DIVISION POST DEFICE BUR AND BTATE LAND DEFICE BURGING OFFICE BURGING AFFILE

1 UKM | L-1118 Revised 7-1-81

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APPL	ITALIUN	FUR	AUTHURIZATION	IU ENJELI	

I.	Purpose: 🔀 Secondary Recovery 🛣 Pressure Maintenance 🔲 Disonsal 🔲 Storage Application qualifies for administrative approval? 🛣 yes 📗 no
II.	Operator: Devon Energy Operating Corporation
	Address: 20 N. Broadway, Suite 1500, Oklahoma City, OK 73102-8260
	Contact party: Randy Jackson Phone: (405) 552-4560
III.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? $\overline{\mathbf{x}}$ yes $\overline{\mathbf{x}}$ no If yes, give the Division order number authorizing the project $\overline{\mathbf{x}}$ \mathbf{x} .
· ·•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. Refer to Attachment V
+ 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. Refer to Attachment VI
VII.	Attach data on the proposed operation, including: Refer to Attachment VII
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval. Refer to Attachment VIII
IX.	Describe the proposed stimulation program, if any. It is anticipated the interval 3182'-3930
• x.	will be acidized w/15% NEFE acid proir to initial injection. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) Copies of current logs are on file.
* 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. There are no known producing fresh water wells within the one mile maddus of the control of th
XII.	wells within the one mile radius of the proposed injection well. 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. Refer to Attachment XII
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Refer to Attachment XIV. Certification
-	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Randy Jackson Title District Engineer
	Signature: Date: 11/18/94
POD III 7	e information required under Sections VI, VIII, X, and XI above has been previously tted, it need not be duplicated and resubmitted. Please show the date and circumstance see early.r submittal.

DISTRIBUTION: Original and one copy to Santa Le with one copy to the appropriate bivision

ATTACHMENT III (tabular)

WELL DATA

- A. (1) H. E. West "A" #17 660' FSL & 660' FEL Section 4-T17S-R31E Eddy County, NM
 - (2) Casing Data: Also see Attachment III (schematic).

 Surface: 8 5/8" set in a 12 1/4" hole @ 575', cemented with 350 sx circ to surface..

 Production: 5 1/2" set @ 3948', cmt'd w/1175 sx circ to surface.

 Liners: None.
 - (3) <u>Injection Tubing</u>: 2 3/8", 4.7#, 8rd EUE plastic coated tubing set at 3132'.
 - (4) Packer: Baker tension pkr @3132' set in tension,
- B. (1) Injection Formation: The injection formation will be the Grayburg San Andres.
 - (2) <u>Injection Interval</u>: The injection interval is to be from perforations @ 3182' to 3948'.
 - (3) Original Purpose of Well: The well was originally drilled, completed and tested as a producer from perforations 3214'-3863'.
 - (4) Added Perforated Intervals: Will perforate selectively from 3182' to 3948'.
 - Higher/Lower Oil Zones: The top of the Seven Rivers is at +/- 2116' and there (5) is no known lower oil zone.

Schematic: See Attachment III (schematic).

OCVON

OFERATION CORPORATION

20 Hours Received, Balls 1800

Charleston City, Charleston 75 100-4280

Temporation College - AUT

MINISTRACE - AUT

MINISTRACE - AUTO

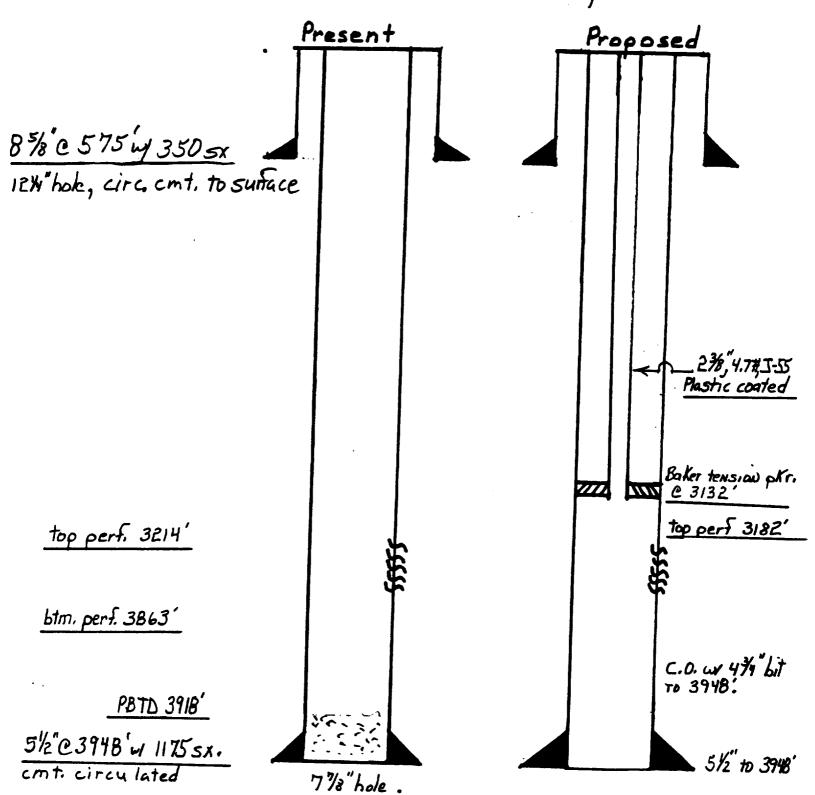
Temporation - AUTO

MINISTRACE - AUTO

WELLBORE SCHEMATIC

WELL: H. E. West " A" No. 17 LOCATION: 660'F547 660'FEL Sec 4-7175-R31 E

Eddy Co., N.M.



ATTACHMENT VII

PROPOSED OPERATION

- 1. Average daily injection rate 500 BWPD.

 Maximum daily injection rate 600 BWPD.
- 2. Type of system closed.
- Average injection pressure 1900 psi.
 Maximum injection pressure 2500 psi.
- 4. Source of injection water Produced water from the Keel West plus make up water from Keel West fresh water system.
- 5. N. A.

ATTACHMENT VIII

GEOLOGY AND LITHOLOGY

The proposed injection zone is in the Greyburg San Andres from 3182' to 3930'. The Greyburg 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. Also, there are no known sources of drinking water overlying or underlying the proposed injection zone.

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ATTACHMENT XIV

PROOF OF NOTICE

Devon Energy Operating Corporation (applicant) is the operator of all wells within the area of review. The Bureau of Land Management is the surface owner. They have been notified by BLM Sundry Notice.

PROOF OF PUBLICATION

Proof of publication from the Carlsbad Current-Argus is enclosed.

Affidavit of Publication

State of New Mexico,	
County of Eddy, ss.	
Amy McKay being first duly sworn, on oath says:	,•
That she is Business Mana of the Carlsbad Current-Argus, a newspaper lished daily at the City of Carlsbad, in said co of Eddy, state of New Mexico and of general circulation in said county; that the same is a qualified newspaper under the laws of the wherein legal notices and advertisements mapublished; that the printed notice attached he was published in the regular and entire editions said newspaper and not in supplement thereof the date as follows, to wit:	pub- unty paid duly state by be ereto on of
November 15 , 19	94
, 19	
That the cost of publication is \$_25.70 and that payment thereof has been made and be assessed as court costs. Subscribed and swom to before me // day of	will May this
My commission expires 8/01/98	

Notary Public

November 15, 1994

Legal Advertisement

Notice is hereby given that Davon Energy Operating Corporation is applying to the New Mexico Oil Conservation Division to convert the following well to an injection well for secondary recovery purposes:

H.E. West "A" #17 1980' FSL & 660' FEL Section 9-T17S-R31E Eddy County, NM

The intended purpose of this well is to inject produced wa-lers into the Grayburg-San Andres formations to enhance endres formations to entertos bil production through second-ary recovery. Maximum injec-sion rates of 600 bwpd and a maximum pressure of 2500 peig are expected.

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

Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87501

Randy Jackson District Engineer Devon Energy Operating Corporation 20 North Broadway, Suite 1500

Oklahoma City, OK (405) 552-4560