

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals

*SUBMIT IN TRIPLICATE*

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	Paul Swartz	5. Lease Designation and Serial No. NM2512
2. Name of Operator SHELL WESTERN E&P INC.	393-0199	6. If Indian, Allottee or Tribe Name.
3. Address and Telephone No. P.O. Box 576 Houston, TX 77001-0576 713/544-4219		7. If Unit or CA, Agreement Designation. North east Drinkard Unit
4. Location of Well (Footage, Sec., T., R., M. or Survey Description) 1980' FNL, 1990' FEL, Sec 3 T-21-S, R-37-E, NMPM		8. Well Name and No. 110W
		9. API Well No. 30-025-06495
		10. Field and Pool, or Exploratory Area N. EUNICE BLINEBRY-TUBB-DRINKARD
		11. County or Parish, Lea, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completions on Well Completion or Recompletion Report and Log form)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

New Mexico Oil Conservation Division Administrative Order No. WFX-674

1. Rig up Pulling Unit. Pull out of hole laying down production equipment.
2. Trip a Bit And Scraper, clean out to PBTD of 5970.
3. Acid treat the B3 & 4 perfs 5894>5956 w/ 500g 20% H Cl.
4. Acid treat the B2 perfs 5824>61 w/ 400g 20% H Cl.
5. Acid treat the bMark perfs 5761>83 w/ 200g 20% H Cl.
6. Lay down treating equipment.
7. Set Guiberson Uni VI injection packer within 100' of top perf (5757).
8. Load the csg annulus w/inhibited water and record a pressure chart at 500psig for 30 minutes w/no bleed off for the NMOCD.
9. Begin water injection.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE C. L. Mann TITLE PRODUCTION FOREMAN DATE 08/07/95

(This space for Federal or State office use)

APPROVED BY (ORIG SGD.) JOE G. LARA TITLE PETROLEUM ENGINEER DATE 8/29/95

CONDITIONS OF APPROVAL IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# **MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT**

## **Oil Conservation Division**

ADMINISTRATIVE ORDER NO. WFX-674

### **APPLICATION OF SHELL WESTERN EXPLORATION & PRODUCTION, INC. TO EXPAND ITS WATERFLOOD PROJECT IN THE NORTH EUNICE BLINEBRY-TUBB- DRINKARD OIL & GAS POOL IN LEA COUNTY, NEW MEXICO**

#### **ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION**

Under the provisions of Division Order No. R-8541, Shell Western Exploration & Production, Inc. has made application to the Division on July 3, 1995 for permission to expand its Northeast Drinkard Unit Waterflood Project in the North Eunice Blinebry-Tubb-Drinkard Oil & Gas Pool in Lea County, New Mexico.

#### **THE DIVISION DIRECTOR FINDS THAT:**

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection wells are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

#### **IT IS THEREFORE ORDERED THAT:**

The applicant, Shell Western Exploration & Production, Inc., be and the same is hereby authorized to inject water into the Blinebry, Tubb and Drinkard formations at approximately 5740 feet to approximately 6800 feet through 2 3/8-inch fiberglass epoxy lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the wells described on Exhibit "A" attached hereto, for purposes of secondary recovery.

OFFICE OF THE SECRETARY - P.O. BOX 6429 - SANTA FE, NM 87505-4429 - (505) 827-5950  
ADMINISTRATIVE SERVICES DIVISION - P.O. BOX 6429 - SANTA FE, NM 87505-4429 - (505) 827-5935  
ENERGY CONSERVATION AND MANAGEMENT DIVISION - P.O. BOX 6429 - SANTA FE, NM 87505-4429 - (505) 827-5900  
FORESTRY AND RESOURCES CONSERVATION DIVISION - P.O. BOX 1948 - SANTA FE, NM 87504-1948 - (505) 827-5950  
MINING AND MINERALS DIVISION - P.O. BOX 6429 - SANTA FE, NM 87505-4429 - (505) 827-5970  
OIL CONSERVATION DIVISION - P.O. BOX 6429 - SANTA FE, NM 87505-4429 - (505) 827-5970  
PARK AND RECREATION DIVISION - P.O. BOX 1547 - SANTA FE, NM 87504-1547 - (505) 827-7465

RECEIVED

AUG 24

OCU FILE  
OFFICE

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

↘ Prior to commencing injection operations into the wells, the operator shall preform cement squeeze operations on the two wells shown on Exhibit "B" attached hereto, in a manner approved by the supervisor of the Hobbs district office of the Division, so as to establish a top of cement in both wells at approximately 5240 feet.

↘ Prior to commencing injection operations into the wells, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection wells to no more than that shown on Exhibit "A".

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said wells that such higher pressure will not result in migration of the injected fluid from the Blinberry, Tubb or Drinkard formations. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing or packer in said wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject wells shall be governed by all provisions of Division Order No. R-8541, as amended and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

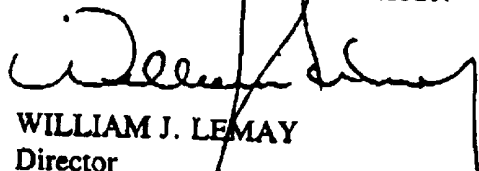
PROVIDED FURTHER THAT, jurisdiction of this cause is hereby retained by the Division for the entry of such further order or orders as may be deemed necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of the operator to

conduct operations in a manner which will ensure the protection of fresh water or in a manner inconsistent with the requirements set forth in this order, the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject wells, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 27th day of July, 1995.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY  
Director

SEAL

cc: Oil Conservation Division - Hobbs

RECEIVED

AUG 5 1964

JOHN HODGES  
OFFICE

**EXHIBIT "A"**  
**DIVISION ORDER NO. WFX-674**  
**NORTHEAST DRINKARD UNIT WATERFLOOD PROJECT**  
**APPROVED INJECTION WELLS**

NEDU Well No.	Drinking Well Name & No.							Injection Pressure
110	Hawk B-3 No. 18	1980' FNL & 1980' FEL	G	3-21S-37E	5750'-5950'	5700'	2 3/8"	1150
224	H. Leonard NCT-F No. 7	4303' FSL & 2317' FEL	F	2-21S-37E	5740'-6800'	5700'	2 3/8"	1148
308	Hawk B-3 No. 11	1980' FSL & 660' FEL	Q	3-21S-37E	6566'-6750'	6500'	2 3/8"	1313
318	H. Leonard NCT-F No. 18	1650' FSL & 1980' FEL	R	2-21S-37E	5764'-6000'	5700'	2 3/8"	1153
902	Turner No. 10	2080' FSL & 1650' FWL	K	22-21S-37E	6470'-6640'	6400'	2 3/8"	1294

All wells in Lea County, New Mexico

RECEIVED

AUG 31 1985

JCD ROESS  
OFFICE



EXHIBIT "B"  
DIVISION ORDER NO. WFX-674  
NORTHEAST DRINKARD UNIT WATERFLOOD PROJECT

AREA OF REVIEW - WELLS TO BE REPAIRED (CEMENT SQUEEZED)

*Now SW Royalty, Not Property Pooled*

Well Name & No.	Location	Required Approximate TOC
<i>Mediation</i> Dauron No. 3	"A", Section 10, T21S-R37E	above 5300 feet
Eubank 'C' No. 8	"G", Section 22, T21S-R37E	above 5300 feet

*Also see p 16*

— OK, Per SCD Jerry

— Now EUE

Donna Williams  
AC 915 688-6943

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-104

Revised February 10, 1994

Instructions on back

Submit to Appropriate District Office

5 Copies

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address Shell Western E&P Inc. P.O. Box 576 Houston, TX 77001		<sup>2</sup> OGRID Number 020676
		<sup>3</sup> Reason for Filing Code CO
<sup>4</sup> API Number 30-025-06495	<sup>5</sup> Pool Name EUNICE BLINEBRY-TUBB-DRINKARD-NORTH	<sup>6</sup> Pool Code 22900
<sup>7</sup> Property Code 010115	<sup>8</sup> Property Name NORTHEAST DRINKARD UNIT	<sup>9</sup> Well Number 110

II. <sup>10</sup> Surface Location

UL or lot no. G	Section 3	Township 21S	Range 37E	Lot. Idn	Feet from the 1980'	North/South Line NORTH	Feet from the 1980'	East/West line EAST	County LEA
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<sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date N/A	<sup>15</sup> C-129 Permit Number N/A	<sup>16</sup> C-129 Effective Date N/A	<sup>17</sup> C-129 Expiration Date N/A				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID 007440*	<sup>19</sup> Transporter Name and Address EOTT Energy Pipeline LP P. O. Box 4666 Houston, TX 77210-4666	<sup>20</sup> POD 2264710	<sup>21</sup> O/G 0	<sup>22</sup> POD ULSTR Location and Description A, SEC. 02, T21S, R37E NEDU CENTRAL BATTERY
*THIS OGRID NO. VALID FROM 11/1/93 TO 4/1/94. AFTER 4/1/94, USE OGRID NO. 037480.				

IV. Produced Water

<sup>23</sup> POD 2264750	<sup>24</sup> POD ULSTR Location and Description A, SEC. 02, T21S, R37E
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V. Well Completion Data

<sup>25</sup> Spud Date	<sup>26</sup> Ready Date	<sup>27</sup> TD	<sup>28</sup> PBSD	<sup>29</sup> Perforations
<sup>30</sup> Hole Sie	<sup>31</sup> Casing & Tubing Size	<sup>32</sup> Depth Set	<sup>33</sup> Sacks Cement	

VI. Well Test Data

<sup>34</sup> Date New Oil	<sup>35</sup> Gas Delivery Date	<sup>36</sup> Test Date	<sup>37</sup> Test Length	<sup>38</sup> Tbg. Pressure	<sup>39</sup> Csg. Pressure
<sup>40</sup> Choke Size	<sup>41</sup> Oil	<sup>42</sup> Water	<sup>43</sup> Gas	<sup>44</sup> AOF	<sup>45</sup> Test Method

<sup>46</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

G. S. Nady

Title:

Manager Land/Asset Administration

Date:

February 28, 1995

Phone:

(713)-544-4219

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY JERRY SEXTON

Title:

DISTRICT I SUPERVISOR

Approval Date:

MAR 17 1995

<sup>47</sup> If this is a change of operator fill in the OGRID number and name of the previous operator

EOTT Oil Pipeline Company

Previous Operator Signature

Printed Name

Title

Date

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.  
**NM-2512**

6. If Indian, Allottee or Tribe Name

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Shell Western E & P Inc.

3. Address and Telephone No.

P.O. Box 576 Houston, TX 77001-0576

(WCK 4587)

713/870-3426

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FNL & 1980' FEL SEC. 3  
T21S-R37E

7. If Unit or CA, Agreement Designation  
**NORTHEAST DRINKARD UNIT**

8. Well Name and No.

~~110~~ 110

9. API Well No.

30-025-06495

10. Field and Pool, or Exploratory Area

N. EUNICE BLBY-TUB-DRKD

11. County or Parish, State

LEA, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other CO & ACD

- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*  
11-15 TO 11-19-91:

POH W/PROD EQMT. TAG @ 5915'. CO FRAC SD & SCALE FROM 5915' TO 5970'. RIH W/PROD  
TBG. PMPD 500 GAL 15% NEFE HCL DOWN TBG. INST PROD EQMT & RTP.

AKZ

APR 13 1992

14. I hereby certify that the foregoing is true and correct

Signed W. F. N. KELLDORF Title TECH. MANAGER - ENVIR. ENG.

Date 4/13/92

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

Date \_\_\_\_\_

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side