

Shell Western E&P Inc.

An affiliate of Shell Oil Company



P. O. Box 576
Houston, TX 77001

March 27, 1996

Mr. Michael E. Stogner
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Dear Mr. Stogner:

SUBJECT: APPLICATION FOR ADMINISTRATIVE APPROVAL OF A
HORIZONTAL WELL PROJECT
VACUUM; MIDDLE PENN POOL - STATE RIDGE "B", WELL #1
SECTION 30, T17S-R35E
LEA COUNTY, NM

On March 5, 1996, Shell Western E&P Inc. (SWEPI) obtained approval to drill the subject well to the Atoka-Morrow formation. In the event that SWEPI's evaluations of the Atoka-Morrow formation are unfavorable, SWEPI plans to plugback the Atoka-Morrow formation and recomplete the well to the Vacuum; Middle Penn pool, utilizing a horizontal drainhole.

Therefore, SWEPI hereby respectfully requests administrative approval to drill a horizontal lateral penetrating the Vacuum; Middle Penn Pool, at an orthodox surface and bottomhole location for the captioned well. The horizontal drainhole will increase the productivity and profitability of this project. The nearest Vacuum; Middle Penn pool producer is the SWEPI-State "A", Well #10, located 940' from the North line and 940' from the East line, Section 31, T17S, R35E in Lea County, New Mexico

Please find the following attachments to support SWEPI's request:

1. Forms C-101 and C-102;
2. plat and list of offset operators;
3. vertical and horizontal schematic of the subject horizontal drainhole, and
4. a type log section.

A copy of this application, along with a waiver of objection form, has been forwarded by *certified mail, return receipt requested*, on this date to the "affected" offset operators.

Should you have any questions or need any additional information, please contact me at (713) 544-3226.

Yours very truly,

A handwritten signature in cursive script that reads "Yvonne T. Iverson".

Yvonne T. Iverson
Western Asset - Asset Administration
Continental Division

Attachments



cc: Mr. Jerry Sexton ✓
New Mexico Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241-1980

OFFSET OPERATORS

Mr. Lee M. Scarborough
ARCO Permian
600 North Marienfeld
Midland, TX 79701

Mr. Paul Hall
Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

Mr. Ron Lanning
Texaco Exploration and Production Inc.
P. O. Box 3109
Midland, TX 79702



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

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

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator name and Address Shell Western E&P Inc. P.O. Box 576 Houston, TX 77001		² OGRID Number 020676
		³ API Number 30-0 30-025-33307
⁴ Property Code 18645	⁵ Property Name STATE RIDGE "B"	
		⁶ Well Number 1

⁷ Surface Location									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	30	17S	35E		2310'	SOUTH	990'	EAST	LEA

⁸ Proposed Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
I	30	17S	35E		1673.6'	SOUTH	353.6'	EAST	LEA
⁹ Proposed Pool 1 VACUUM; MIDDLE PENN POOL					¹⁰ Proposed Pool 2				

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3979'GR
¹⁶ Multiple NO	¹⁷ Proposed Depth 10,475'	¹⁸ Formations MIDDLE PENN	¹⁹ Contractor NORTON DRILLING	²⁰ Spud Date 3/17/96

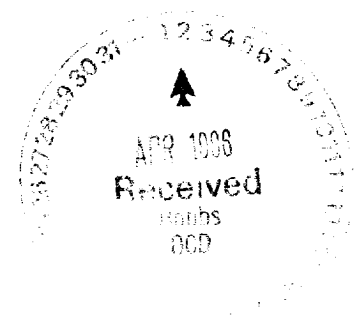
²¹ Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
24"	20"	CONDUCTOR	40'	60	SURFACE
17-1/2"	13-3/8"	48#	1505'	1350	SURFACE
12-1/4"	9-5/8"	36#	3800'	1490	SURFACE
8-3/4"	7"	26# & 29#	11,800'	1950	2300' FROM SURF.

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary

IN THE EVENT THAT SWEPI'S EVALUATIONS OF THE ATOKA-MORROW FORMATION ARE UNFAVORABLE, SWEPI PLANS TO PLUGBACK THE ATOKA-MORROW FORMATION AND RECOMPLETE THE WELL TO THE VACUUM; MIDDLE PENN POOL, UTILIZING A HORIZONTAL DRAINHOLE.

BOP PROGRAM; 2000# RAM PREVENTER.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Yvonne T. Iverson</i>		OIL CONSERVATION DIVISION	
Printed name: YVONNE T. IVERSON			
Title: LAND REPRESENTATIVE		Approved by:	
Date: 3/27/96		Title:	
Phone: (713) 544-3226		Approval Date:	
		Expiration Date:	
		Conditions of Approval:	
		Attached ☐	



DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-33307	Pool Code 62300	Pool Name VACUUM; MIDDLE PENN POOL
Property Code 18645	Property Name STATE RIDGE "B"	Well Number 1
OGRID No. 020676	Operator Name SHELL WESTERN E. & P. INC	Elevation 3979

Surface Location

UL or lot No. I	Section 30	Township 17 S	Range 35 E	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 990	East/West line EAST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No. I	Section 30	Township 17S	Range 35E	Lot Idn	Feet from the 1673.6	North/South line SOUTH	Feet from the 353.6	East/West line EAST	County LEA
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<u>LEGEND</u> PROJECT AREA OUTLINE PRODUCING AREA OUTLINE ⊙ SURFACE LOCATION ⊙ BOTTOM HOLE LOCATION	ARCO	SHELL
	ARCO	TEXACO
	PHILLIPS	SHELL
	PHILLIPS	SHELL

S.L.

990'

844'

353.6'

2310'

1673.6'

OPERATOR CERTIFICATION

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

Yvonne T. Iverson

Signature

YVONNE T. IVERSON

Printed Name

LAND REPRESENTATIVE

Title

3/27/96

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 07, 1996

Date Surveyed

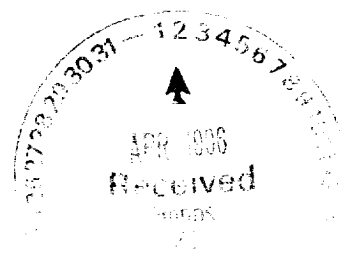
SJA

Signature of State of Professional Surveyor

RONALD E. IVERSON 2-12-96

W.O. Num. 96-180180

Certificate No. JOHN A. WEST 676
RONALD E. IVERSON 3239
CAROL E. IVERSON 12641



T 17 S

R
34
E

R
35
E

ARCO

ARCO

TEXACO

SHELL

30

PHILLIPS

SHELL

SHELL

● "B STATE"
RIDGE B
• 1

SHELL

"B STATE"

SHELL

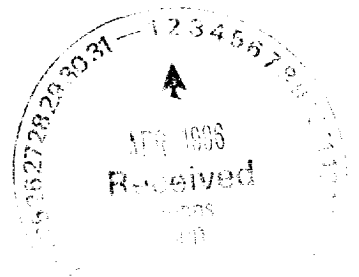


PVAC0009.407 3/96



SHELL WESTERN E&P INC.
LEA COUNTY, NEW MEXICO

OFFSET OPERATOR
PLAT



**OFFSET OPERATORS
STATE RIDGE "B", WELL #1
SECTION 30, T17S, R35E
LEA COUNTY, NEW MEXICO**

Mr. Lee M. Scarborough
ARCO Permian
600 North Marienfeld
Midland, TX 79701

Mr. Paul Hall
Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

Mr. Ron Lanning
Texaco Exploration and Production Inc.
P. O. Box 3109
Midland, TX 79702



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An affiliate of Shell Oil Company



P. O. Box 576
Houston, TX 77001

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

March 27, 1996

TO THE OFFSET OPERATORS:

Please indicate your approval for our request as detailed in the attached package by signing the waiver form below. Please return the executed copy in the enclosed business reply envelope. Any objections to this request must be filed in writing within twenty days of the date of this notice.

Thank you for your attention to this matter.

WAIVER OF OBJECTION

SHELL WESTERN E&P INC.

APPLICATION FOR ADMINSTRATIVE APPROVAL FOR A
HORIZONTAL WELL PROJECT
VACUUM; MIDDLE PENN POOL
STATE RIDGE "B", WELL #1
SECTION 30, T17S, R35E
LEA COUNTY, NEW MEXICO

I/We do hereby waive any objection to Shell Western E&P Inc.'s request for Administrative Approval to drill a horizontal lateral penetrating the Vacuum; Middle Penn Pool, at an orthodox surface and bottomhole location for the State Ridge "B", Well #1.

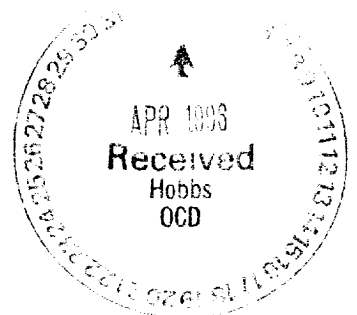
WAIVER APPROVAL

Signature: _____

Title: _____

Company: _____

Date: _____



SHELL WESTERN E & P, INC.

STATE RIDGE B #1

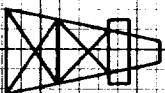
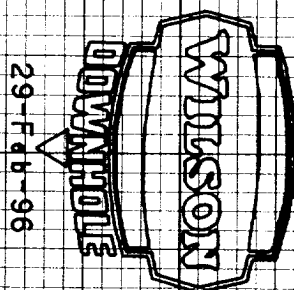
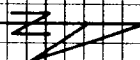
LEA COUNTY, NEW MEXICO

HORIZONTAL PROJECTION

SCALE 1" = 200'

SUR. LOC.

0 200 400 600 800



PROPOSED B.H.L. = 10437.26' TVD / 11315.69' MD
536.40' SOUTH - 536.40' EAST OF SURFACE
900.00' S 45° 00' 00" E

BHL 10437.26' TVD

VERTICAL PROJECTION
SCALE 1" = 100'



0300

-800

0400

TOP OF M PENN CARB - 10375' TVD

10437.26

900.00'

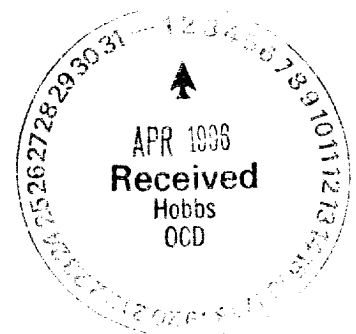
M PENN SHALE - 10475' TVD

0500

11316' 90° 00'

010387.00' - KOP
UP 84 114° 00'
(50-28°) 10466° 90° 00'

0 100 200 300 400 500 600 700 800 900



SHELL WESTERN E & P, INC.

STATE RIDGE B #1

LEA COUNTY, NEW MEXICO

PROPOSAL FILE = SWSRB1

Position of well relative to reference point, Latitude = .00 feet Departure = .00 feet

MD	TVD	Inclin. Deg Mn Sc	Survey Dir. Deg Mn Sc	N/S from Surface pos	E/W Surface pos	Vert Sect Dist	Closure Dist	N/S from Reference pos	E/W Reference pos	DLS	T.F. Dir.
* 10387.00	10387.00	0 0 0	135 0 0	.00	.00	.00	.00	.00	.00	114.00	0 *
10400.00	10399.86	14 49 12	135 0 0	-1.18	1.18	1.67	1.67	-1.18	1.18	114.00	0
* 10465.95	10437.26	90 0 0	135 0 0	-35.54	35.54	50.26	50.26	-35.54	35.54	.00	0 *
* 11315.69	10437.26	90 0 0	135 0 0	-636.40	636.40	900.00	900.00	-636.40	636.40	.00	0 *

