

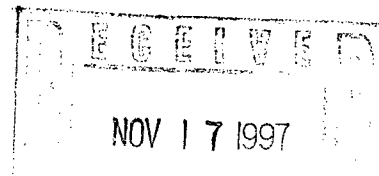
Hallwood Petroleum, Inc.

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

CERTIFIED MAIL NO. P 212 222 137

November 11, 1997

Mr. David Catanach,
Hearing Examiner
State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505



RE: State "B" 14 Com #1
Unit P – Section 14-T18S-R28E
Eddy County, New Mexico
Application for Downhole Commingling

Dear Mr. Catanach:

This letter is a follow-up letter to our October 15, 1997 letter and Application for Downhole Commingling on the subject well. To date Hallwood has received three (3) waivers from the eight (8) offset operators. The original waiver letters are enclosed for your files. We have also received an approval letter from the Commissioner of Public Lands (copy attached).

Also enclosed are copies of the "green cards" we have received, as more than 20 days have now elapsed.

We hope that this additional information is satisfactory for your files and approval of this application. Should you need any additional data, please contact me at (303) 850-6303.

Sincerely,

A handwritten signature in cursive script, reading "Kevin E. O'Connell". The signature is written in dark ink and is positioned above the printed name.

Kevin E. O'Connell
Drilling and Production Manager

KEO/jey

Enclosures

cc: OCD District II
811 S. First Street
Artesia, NM 88210

Well File

KEO97.080

Attachment #7

Address List for Offset Operators

State "B" 14 Com #1

		<u>Waiver Approval Received</u>	<u>Green Card Receipt Date</u>
1.	SDX Resources P. O. Box 5061 Midland, TX 79704	Yes 10/30/97	10/21/97
2.	Kay Jay Oil Company P. O. Box 1306 Artesia, NM 88210	Not received as of 11/10/97	10/20/97
3.	Yates Drilling Company 105 S. 4 th Street Artesia, NM 88210	Not received as of 11/10/97	10/20/97
4.	Harvey E. Yates Company 500 N. Main Street Roswell, NM 88202	Not received as of 11/10/97	10/20/97
5.	W. E. Jeffers P. O. Box 65 Artesia, NM 88211-0065	Not received as of 11/10/97	10/20/97
6.	Devon Energy Corporation 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102-9951	Not received as of 11/10/97	10/20/97
7.	UMC Petroleum Corporation 410 17 th Street, Suite 1400 Denver, CO 80202	Yes 10/27/97	10/17/97
8.	Ray Wistall P. O. Box 4 Loco Hills, NM 88255	Yes 10/23/97	
	State of New Mexico Commissioner of Public Lands	Approval Letter Date 10/28/97 Received 11/3/97	10/20/97

October 15, 1997

RECEIVED

OCT 30 1997

DRLG & PROD.

TO: Address List for Offset Operators

RE: State "B" 14 Com #1
Unit P-Section 14-T18S-R28E
Eddy County, New Mexico
Application for Downhole Commingling

Gentlemen:

Hallwood Petroleum, Inc. is applying for administrative approval to commingle production from the Upper Penn and Morrow zones in the above referenced well. If you, as an offset operator, have no objection to the proposed commingling, please sign the waiver at the bottom of this page and return one copy in the enclosed self-addressed stamped envelope.

Thank you for your cooperation.

Sincerely,



Kevin E. O'Connell
Drilling and Production Manager

O: (303) 850-6303
FAX: (303) 850-6290

KEO/je
Enclosures

KEO97.074

WAIVER

WE HEREBY WAIVE ANY OBJECTIONS TO HALLWOOD PETROLEUM, INC.'S APPLICATION TO COMMINGLE PRODUCTION AS SET FORTH ABOVE.

NAME: John Pool

TITLE: VICE PRESIDENT - SDX RESOURCES INC.

DATE: 10/21/97

October 15, 1997

RECEIVED

OCT 23 1997

DRLG & PROD.

TO: Address List for Offset Operators

RE: State "B" 14 Com #1
Unit P-Section 14-T18S-R28E
Eddy County, New Mexico
Application for Downhole Commingling

Gentlemen:

Hallwood Petroleum, Inc. is applying for administrative approval to commingle production from the Upper Penn and Morrow zones in the above referenced well. If you, as an offset operator, have no objection to the proposed commingling, please sign the waiver at the bottom of this page and return one copy in the enclosed self-addressed stamped envelope.

Thank you for your cooperation.

Sincerely,



Kevin E. O'Connell
Drilling and Production Manager

O: (303) 850-6303
FAX: (303) 850-6290

KEO/jey
Enclosures

KEO97.074

W A I V E R

WE HEREBY WAIVE ANY OBJECTIONS TO HALLWOOD PETROLEUM, INC.'S APPLICATION TO COMMINGLE PRODUCTION AS SET FORTH ABOVE.

NAME: Ray Westall OPR

TITLE: by: [Signature] Generalist

DATE: 10/20/97

October 15, 1997

TO: Address List for Offset Operators

RE: State "B" 14 Com #1
Unit P-Section 14-T18S-R28E
Eddy County, New Mexico
Application for Downhole Commingling

RECEIVED

OCT 27 1997

DRLG & PROD.

Gentlemen:

Hallwood Petroleum, Inc. is applying for administrative approval to commingle production from the Upper Penn and Morrow zones in the above referenced well. If you, as an offset operator, have no objection to the proposed commingling, please sign the waiver at the bottom of this page and return one copy in the enclosed self-addressed stamped envelope.

Thank you for your cooperation.

Sincerely,



Kevin E. O'Connell
Drilling and Production Manager

O: (303) 850-6303
FAX: (303) 850-6290

KEO/je
Enclosures

KEO97.074

W A I V E R

WE HEREBY WAIVE ANY OBJECTIONS TO HALLWOOD PETROLEUM, INC.'S APPLICATION TO COMMINGLE PRODUCTION AS SET FORTH ABOVE.

NAME: RD Manning

TITLE: District Manager - UMC Petroleum Corp

DATE: 10/22/97

Is your RETURN ADDRESS completed on the reverse side?

SENDER: State "B" 14 COM #1

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

SDX RESOURCES
P. O. BOX 5061
MIDLAND, TX 79704

4a. Article Number

P 212 222 119

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

5. Received By: (Print Name)

JANICE COURTNEY

6. Signature: (Addressee or Agent)

X JANICE COURTNEY

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER: State "B" 14 Com #1

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
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- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

KAY JAY OIL COMPANY
P. O. BOX 1306
ARTESIA, NM 88210

4a. Article Number

P 212 222 120

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

10-20-94

5. Received By: (Print Name)

FRED JONES

6. Signature: (Addressee or Agent)

X FRED JONES

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

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I also wish to receive the following services (for an extra fee):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

YATES DRILLING COMPANY
105 S. 4TH STREET
ARTESIA, NM 88210

4a. Article Number

P 212 222 121

4b. Service Type

- ☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

10 20 97

5. Received By: (Print Name)

M. Morgan

6. Signature: (Addressee or Agent)

X M. Morgan

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

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3. Article Addressed to: HARVEY E. YATES COMPANY 500 N. MAIN STREET ROSWELL, NM 88202		4a. Article Number P 212 222 122 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 7. Date of Delivery 10-20-97	
5. Received By: (Print Name) Robin Crump		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X Robin Crump			

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Thank you for using Return Receipt Service.

Is your RETURN ADDRESS completed on the reverse side?

SENDER: State "B" 14 Com #1 ■ Complete items 1 and/or 2 for additional services. ■ Complete items 3, 4a, and 4b. ■ Print your name and address on the reverse of this form so that we can return this card to you. ■ Attach this form to the front of the mailpiece, or on the back if space does not permit. ■ Write "Return Receipt Requested" on the mailpiece below the article number. ■ The Return Receipt will show to whom the article was delivered and the date delivered.		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: W. E. JEFFERS P. O. BOX 65 ARTESIA, NM 88211-0065		4a. Article Number P 212 222 123 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 7. Date of Delivery 10-20-97	
5. Received By: (Print Name) C. Johnson		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X C. Johnson			

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Thank you for using Return Receipt Service.

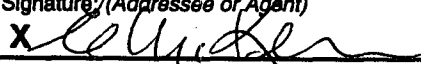
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3. Article Addressed to: DEVON ENERGY CORPORATION 20 N. BROADWAY, SUITE 1500 OKLAHOMA CITY, OK 73102-9951		4a. Article Number P 212 222 124 4b. Service Type <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Certified <input type="checkbox"/> Express Mail <input type="checkbox"/> Insured <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> COD 7. Date of Delivery 10-20-97	
5. Received By: (Print Name)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X Bill 3			

PS Form 3811, December 1994 102595-97-B-0179 Domestic Return Receipt

Thank you for using Return Receipt Service.

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3. Article Addressed to: UMC PETROLEUM CORPORATION 410 17TH STREET, SUITE 1400 DENVER, CO 80202		4a. Article Number P 212 222 125	
		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	
		7. Date of Delivery OCT 17 1997	
5. Received By: (Print Name)		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X 			

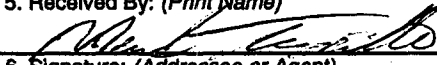
PS Form 3811, December 1994

102595-97-B-0179

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3. Article Addressed to: State of New Mexico Commissioner of Public Lands 310 Old Santa Fe Trail P. O. Box 1148 Santa Fe, NM 87504-1148		4a. Article Number P 212 222 128	
		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	
		7. Date of Delivery OCT 20 1997	
5. Received By: (Print Name) 		8. Addressee's Address (Only if requested and fee is paid)	
6. Signature: (Addressee or Agent) X			

PS Form 3811, December 1994

102595-97-B-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.



State of New Mexico
Commissioner of Public Lands

RAY POWELL, M.S., D.V.M.
COMMISSIONER

310 OLD SANTA FE TRAIL P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

(505) 827-5760
FAX (505) 827-5766

October 28, 1997

Hallwood Petroleum, Inc.
P.O. Box 37811
Denver, Colorado 80237

RECEIVED

NOV 3 1997

DRLG & PROD.

Attn: Mr. Kevin E. O'Connell

Re: Downhole Commingling Application
State "B" 14 Com #1
Unit P, Section 14-18S-28E
Travis Upper Penn and Empire South Morrow Pools
Eddy County, New Mexico

Dear Mr. O'Connell:

We are in receipt of your application of October 15, 1997, requesting our approval to downhole commingle the production from the above subject well from the Travis Upper Penn and Empire South Morrow Pools in Eddy County, New Mexico.

It is our understanding that production from the subject well will be allocated as follows:

<u>POOL</u>	<u>ALLOCATION</u>	
	<u>Oil%</u>	<u>Gas %</u>
Travis Upper Penn	81%	46%
Empire South Morrow	19%	54%
	-----	-----
	100%	100%

Since it appears that there will be no loss of revenue to the State of New Mexico as a result of your proposed operation, your request for downhole commingling the production from the above-mentioned well is hereby approved. Any deviation from the substance of your request will be sufficient grounds for rescinding our approval. Our approval is subject to like approval by the New Mexico Oil Conservation Division.


Please submit a filing fee in the amount of \$30.00.

Hallwood Petroleum, Inc.
October 28, 1997
Page 2

If you have any questions or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: 
JAMI BAILEY, Director
Oil, Gas and Minerals Division
(505) 827-5744

RP/JB/cpm

Enclosure

xc: Reader File

OCD--Attention: David Catanach, Ben Stone

Hallwood Petroleum, Inc.

4582 South Ulster Street Parkway • Stanford Place III • Suite 1700 • Post Office Box 378111
Denver, Colorado 80237 • (303) 850-7373

CERTIFIED MAIL NO. P 212 222 118

October 15, 1997

Mr. David Catanach,
Hearing Examiner
State of New Mexico
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

RE: State "B" 14 Com #1
Unit P – Section 14-T18S-R28E
Eddy County, New Mexico
Application for Downhole Commingling

Dear Mr. Catanach:

Hallwood Petroleum, Inc., as operator of the State "B" 14 Com #1 well, respectfully submits a Form 107-A, Application for Downhole Commingling. Enclosed with this application are supportive documents and a list of offset operators who are being notified of this proposal.

The State "B" 14 Com #1 was drilled in 1980 and originally dual completed in the Upper Penn formations at 9653-9804' and the Morrow formation at 10,690' – 10,743'. The well is still a dual completion in the Travis-Upper Penn pool and South Empire-Morrow pool, respectively. This well has a unique mechanical set-up downhole with an Otis brand "crossover" tool that allows for production from the deeper zone (South Empire-Morrow) to come up the tubing part way, then cross over and flow up the annulus. The shallower zone (Travis-Upper Penn), conversely, comes up the annulus part way and crosses over to the tubing string just under an upper packer. A color-coded diagram is attached to help illustrate this scenario (Attachment #9). This downhole configuration was set up due to the Upper Penn formations having more oil and needing to be produced up the tubing.

The Upper Upper-Penn zones still produce more oil than the deeper Morrow zones; however, this zone is now essentially a gas well with associated oil due to a 40,000 – 45,000 GOR (1995 production). This is considerably higher than the original completion (1980) reported 2343 gas-oil ratio.

Mr. David Catanach
State of New Mexico
Oil Conservation Division
October 15, 1997
Page 2

Hallwood Petroleum, Inc. is seeking this downhole commingling for two (2) reasons:

1. The Upper completion Travis Upper Penn zone is currently not producing and is loaded up and logged off. This is graphically illustrated in the attached production plot for this zone (Attachment #3).
2. An attractive recompletion opportunity exists in an uphole zone at approximately 9100'. This zone (in the Wolfcamp) was drillstem tested in 1980 and flow tested gas and oil. In order to recomplete uphole to this zone, Hallwood wants to be able to commingle the Upper Penn and Morrow zones, and then eventually dual complete with a successful future Wolfcamp recompletion.

Hallwood believes that commingling of the two proposed formations will not cause any fluid compatibility problems and will most likely increase production and recoveries from the commingled zones. This is due in part to the elimination of the complicated downhole mechanism that is probably restricting flow presently. Also, the additional gas volumes from the Morrow zone (lower completion) should assist in lifting oil production from the upper completion.

Although pressure data is somewhat limited on this well, we have calculated the original BHP of the Upper Penn to be 4456 psig. This compares nearly identically to the measured BHP of 4434 psig for the Morrow zones. Both zones were originally drilled with a 10.1 ppg mud weight. In February 1991, after setting the well up for dual completion, the shut in pressures for each zone were within 640 psi (Travis-Upper Penn – 1560 psi; Empire-South Morrow – 2200 psi).

With regard to current formation pressures, they are essentially impractical to obtain due to the previously discussed downhole setup with two (2) packers and a "crossover" tool which will not allow wireline bombs to pass through. We have reviewed the 1996 packer integrity test data, which had extended (3-day) shut-in pressures and concluded that the current bottomhole pressures are as follows:

	<u>Travis-Upper Penn</u>	<u>Empire-South Morrow</u>
Shut-in Pressure	680# SITP	600# SICP
Calculated BHP	978 psig	898 psig

Mr. David Catanach
State of New Mexico
Oil Conservation Division
October 15, 1997
Page 3

We hope that this information and supporting attachments are satisfactory for your review and approval of this application. Should you need any additional data, please contact me at (303) 850-6303. Hallwood is confident that increased production can be obtained from a downhole commingling of the Upper Penn and Morrow zones as both zones have such similar fluids, rates and pressures. This downhole commingling will also allow us to proceed with a planned Wolfcamp recompletion in early 1998 to try and develop additional reserves from this well.

Sincerely,

HALLWOOD PETROLEUM, INC.



Kevin E. O'Connell
Drilling and Production Manager

KEO/jey

Enclosures

cc: OCD District II
811 S. First Street
Artesia, NM 88210

State of New Mexico
Commissioner of Public Lands
310 Old South Santa Fe Trail
P.O. 1148
Santa Fe, NM 87504-1148

Offset Operators (8)

Well File

KEO97.069

