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SHIGERVATION DIVISI

Hallwood Petroleum, Inc.

4610 S. Ulster Street • Suite 200 • P.O. Box 378111 Denver, Colorado 80237 • (303) 850-7373

CERTIFIED MAIL NO. P 212 222 752

August 6, 1999

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

RE: Ocotillo Hills Com # 2 Unit G – Section 21-T21S-R26E Eddy County, New Mexico Application for Downhole Commingling

Dear Mr. Catanach:

Hallwood Petroleum, Inc., as operator of the Ocotillo Hills Com # 2 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 Ocotillo Hills Com # 2 was drilled in 1975 and originally completed in the Morrow formation at 10,850' - 10,965'. The field for this completion is the Avalon-Morrow. This well produced as a single completion Morrow well until August 1991. In 1991 Hallwood Petroleum recompleted the well up to the Canyon formation of the Upper Penn. Group at 9355-9420' and dual completed the well with the Morrow production coming up the tubing string and the Canyon production producing up the casing/tubing annulus. The completion at 9355-9420' is in the Undesignated Avalon Upper Pennsylvanian Gas Pool. This Canyon (Upper Penn.) completion (at 9355-9420') declined rapidly, was difficult to produce up the annulus and was shut-in 3/15/97.

In May 1998 Hallwood Petroleum, Inc. commenced a workover to test the Strawn formation in the Ocotillo Hills Com #2 well as it was actively being developed in Section 21 and adjacent sections. The Morrow zones were temporarily abandoned below a plug/packer arrangement and the Strawn was perforated at 9776-9790' and fracture stimulated. The aforementioned uphole Canyon perforations are still shut-in and isolated behind the tubing and packer in the well and all production from 05/29/98 until the present is from the Strawn zone.

Mr. David Catanach State of New Mexico Oil Conservation Division August 6, 1999 Page 2

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

- 1. The Upper completion Avalon Upper Penn zone is currently not producing and loads up and logs off in the larger area of the casing/tubing annulus. Although production from this zone is not expected to be significant we believe the fluids and pressures are compatible and a modest 7-15 MCFD along with possibly 1/2 BCPD is obtainable by commingling this zone with the other two zones.
- 2. Hallwood wants to be able to commingle the Strawn and Morrow zones to improve the overall profitability of this well. The Morrow zones are currently shut-in, but can be easily commingled with the Strawn zones by pulling a plug set in a packer. The Strawn zone at 9776-9790' has depleted rapidly in the last 14 months and the pressures are now in a range that will allow for commingling with no crossflow or fluid incompatibility problems.

Hallwood believes that commingling of the three proposed formations will not cause any fluid compatibility problems and will likely <u>increase</u> production and recoveries from the commingled zones. Also, the additional gas volumes from the Morrow zone (lower completion) should assist in lifting oil production from the upper and intermediate completions.

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) 850-6403. Hallwood is confident that increased production can be obtained from a downhole commingling of the Upper Penn, Strawn and Morrow zones as these three zones have such similar fluids, rates and pressures. This downhole commingling will also allow us to add two (2) currently shut-in zones back into the revenue stream, thus increasing cash flow and reserves for all parties involved with this well.

Sincerely,

HALLWOOD PETROLEUM, INC.

Kevin E. O'Connel

Kevin E. O'Connell Drilling and Production Manager

Mr. David Catanach State of New Mexico Oil Conservation Division August 6, 1999 Page 3

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. Box 1148 Santa Fe, NM 87504-1148

Bureau of Land Management Carlsbad Field Office 620 Greene Street Carlsbad, NM 88221-1778

Offset Operators (4)

Well File

DISTRICT II A) 1 South First SI., Aristia, NM 86210 DISTRICT III DISTRICT III 1000 Rig Brazen Rd, Arisec, NM 87410	OIL CONSERV 2040 Bante Fe, New	AUTOR RESources Department ATION DIVISION S. Pacheco Mexico 87605-6429 WNHOLE COMMINGLIN	APPROVAL PRO <u>X</u> Administrative EXISTING Web G <u>X</u> yeb
Hallwood Petroleum, Inc			
Ocotillo Hills Com #2		-21-21S-26E	Eddy
CIRLI OGRID NO. 009812 Property Ci	ode 004901 API NO. 30	0-015-21573 Federa	Econy Unit Leven Types: Icheck 1 or mo
The following facts are submitted in support of downhole comminging:	Upper Zone	Intermediate Zonas	Lower Zone
1, Pool Nome and Pool Code	Avalon - Upper Penn.	Avalon - Strawn	Avalon - Morrow
2. Ton and Bottom of Pay Section (Perforstione)	9355-9420'	9776-9790'	10850-10965'
3. Type of production (Oil or Gas)	Gas (& condensate)	Gas (& condensate)	Gas (& condensate
4. Method of Production (Flowing or Artificial LIP)	Flowing	Flowing	Flowing
5. Bottomhole Pressurg Oli Zones - Artificial Lift: Estimated Current	Gurrent 700-900 psig	•. 1206 psig	∎. 835-980 psig
Estimated Current Ges & Oll - Flowing: Messured Current All Ges Zones; Estimated Or Messured Original	b. (Original) 3643 psig	b. 1877 psig (in 1998)	ъ. 4400 psig (им 1975
8. Oil Gravity ("API) or Gas BTU Content	54.5 API gravity 1210 BTU	59.7 API gravity 1129 BTU	51.5 API gravity 1061 BTU
7. Producing or Shut-In?	Shut-in	Producing	Shut-in
Production Marginal? (yes or no)	Yes	Yes	Yes
If Shut-in, give date and oil/ges/ weter retes of lest production Mote: For new zones with no production history, applicant shall be required to ettage	Data: 1/1997 Rates: 15-25 MCFD x 1 BOPD x 0 BWPD	Date: Rotoe: N/A	Date: 5/1998 Reten: 190 MCFD x 1 BCPD x 6 BWPD
voluction estimates and supporting data If Producting, give date andoil/gas/ water rotes of recent tast (within 60 days)	Dete: Retee: N/A	Dete: 6/99 Retea: 110 MCFD x 5 BCPD x 1 BWPD	Date: Retes: N/A
3. Fixed Percentage Allocation Formula -% for each zone	⁰¹⁰ 15 % ^{600;} 3 %	₽₩; 78 % ^{Gess:} 46 %	0#: 7 % Gas: 51 %
 If allocation formula is based usubmit attachments with supply attachments with a support allocation is a support all	d royalty interests identical in ding, and royalty interests bee given written notice of the pro- es X No If yes, are fluids o d, and will the allocation form commingled zones compatible decreased by commingling? zed with, state or federal land Management has been notified Rule 303(C) Exceptions: a to be commingled showing its each zone for at least one ye roduction history, estimated pr	all commingled zones? in notified by certified mail? posed downhole commingling? compatible, will the formations uia be reliable. X Yes with each other? X Yes X No (If Yes, either the Commissioner of a in writing of this application. ORDER NO(S).	<u>X</u> Yes <u>No</u> <u>X</u> Yes <u>No</u> <u>No</u> <u>No</u> (If No, attach explane Yes <u>No</u> E5 , attach explanation) Public Lands or the <u>X</u> Yes <u>No</u> dication.
Add to support allo Add to su	above is true and semilar	and the opposite comminging	
NATURE	E. O'Connell	TITLE_Drlg & Prod Manag	er DATE 8/5/99

Supporting Data (for Part 9) of Form 107-A To Determine Allocation Percentages

1) Avalon Morrow Production January-April 1998

	<u>Total</u>	<u>Monthly</u>	<u>Daily</u>
Gas	15,800 MCF	3950 MCF/Mo.	130 MCFD
Oil			
(Condensate)	68.6 BO	17.15 BO/Mo.	0.56 BCPD

2) Avalon Strawn Production January-May 1999

	<u>Total</u>	<u>Monthly</u>	<u>Daily</u>
Gas	17,733 MCF	3547 MCF/Mo.	116 MCFD
Oil			
(Condensate)	949.53 BO	189.9 BO/Mo.	6.2 BCPD

3) Undesignated Avalon Upper Penn December 1996-March 1997

	<u>Total</u>	<u>Monthly</u>	<u> </u>	<u>Daily</u>
Gas	445 MCF	111 MCF	65	7 MCF
Oil	Estimate 1/4 - 1/2 BOP	D, well loaded up		

Total production for 3 zones = 253 MCFD x 8 BCPD

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	Gas	Oil (Condensate)
% Morrow	51%	7%
% Strawn	46%	78%
% Penn	<u>3%</u>	<u>15%</u>
Total	100%	100%

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... ` Submit to Appr. priate District. Office State Lease - 4 copies Fee Lease - 3 copies

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DISTRICT J P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Bratos Rd., Artec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

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Form C-102 Revised 1-1-89 ī

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Attachment #2

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator		····		Lease				Well No.
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Ground level Elev.		Producing Formation		Pool	· · · · ·	·		Dedicated Acreage:
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WELLL HISTORY REPORT BEGIN DATE: 08/01/91 END DATE: 03/31/97

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EP889 J **`***

STATE: NEW MEXICO SPG : 1.228 CATCLAW DRAW

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Attachment #3B

DATE: 04 AUG 1999 PAGE: 2

WELL HISTORY REPORT BEGIN DATE: 08/01/91 END DATE: 03/31/97

EP889

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STATE: NEW MEXICO SPG : 1.228 CATCLAW DRAW

FACILITY WELL

BEGIN DATE: 08/01/91 END DATE: 03/31/97

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DAYS PROD

WATER PROD 1770.0 1770.0 Attachment #3B

List of Offset Operators

Ocotillo Hills Com #2 Well

T21S-R26E, Eddy County, New Mexico Section 15

- 1. Devon Energy Corporation 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102
- 2. Mewbourne Oil Company P. O. Box 5270 Hobbs, NM 88241

T21S-R26E, Eddy County, New Mexico Section 16

> 1. Devon Energy Corporation 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

T21S-R26E, Eddy County, New Mexico Section 17

> 1. Devon Energy Corporation 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

<u>T21S-R26E, Eddy County, New Mexico</u> Section 20

> Devon Energy Corporation 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

List of Offset Operators

Ocotillo Hills Com #2 Well

T21S-R26E, Eddy County, New Mexico Section 21

- Hallwood Energy Corporation P. O. Box 378111 Denver, CO 80237
- 2. Mewbourne Oil Company P. O. Box 5270 Hobbs, NM 88241

T21S-R26E, Eddy County, New Mexico Section 22

> 1. Mewbourne Oil Company P. O. Box 5270 Hobbs, NM 88241

T21S-R26E, Eddy County, New Mexico Section 27

N/A

T21S-R26E, Eddy County, New Mexico Section 28

Pacific Enterprise Oil Company USA
 P. O. Box 1350
 Midland, TX 79702

T21S-R26E, Eddy County, New Mexico Section 29

> Hanagan Petroleum Corporation P. O. Box 1737 Roswell, NM 88201

Verification and Affidavit

STATE OF COLORADO)

COUNTY OF DENVER

SS

)

Kevin E. O'Connell, of lawful age, being first duly sworn on his oath, deposes and says:

That he is employed in an engineering capacity by Hallwood Energy Corporation, in its Denver Office; that he has responsibilities for New Mexico permitting matters; that Hallwood's Application for administrative approval to downhole commingle the Upper Penn, Strawn and Morrow zones in the Ocotillo Hills Com #2 well, located in Unit G, Section 21-T21S-R26E, Eddy County, New Mexico has been prepared under his direction and supervision; that the matters and things therein set forth are true and correct to the best of his knowledge and belief; that a copy thereof was sent by certified mail from Applicant's Denver, Colorado office on August 6, 1999 to affected lease operators on Attachment #4 pursuant to Form 107-A; and that to the best of his knowledge and belief these parties are the only owners to whom notice of such Application is required to given in accordance with the provisions of the Rules and Regulations of the Oil Covservation Division of the State of New Mexico.

<u>Kevin E. Olonnel</u> Kevin E. O'Connell

Subscribed and sworn to before me this 6th day of August, 1999.



Judy E. Young Notary Public

My Commission Expires April 19, 2001

Supportive Data (for Part 10) of Form 107-A

List of Working, Overriding & Royalty Interest Owners

Ocotillo Hills Com #2

Undesignated Avalon Upper Pennsylvanian Zone Avalon Strawn Zone Avalon Morrow Zone (See Note 1)

OWNER NAME		<u>PERCENT</u>	TYPE OWNER*
EM Nominee Partnership Company		65.234400	WI
		19.140600	WI
Devon Energy Corporation			
State of New Mexico		6.250000	RI
Minerals Management Service		6.250000	RI
Morris E. Schertz		.333339	OI
Richard H. Coats		1.171875	OI
Nuevo Seis, Inc.		.125000	OI
RR Hinkle Company, Inc.		.203120	OI
F. Andrew Grooms		.125000	OI
Madison M. Hinkle		.130208	OI
Rolla R. Hinkle, III		.130208	OI
Charles R. Wiggins		.781250	OI
Barbara Hannifan		.125000	OI
	TOTAL	100.000000	

*WI = Working Interest RI = Royalty Interest OI = Override Interest Note 1: Interest in all three (3) zones is identical.

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Hallwood Petroleum, Inc.

4610 S. Ulster Street • Suite 200 • P.O. Box 378111 Denver, Colorado 80237 • (303) 850-7373

Attachment #7

August 6, 1999

TO: Address List for Offset Operators

RE: Ocotillo Hills Com #2 Unit G-Section 21-T21S-R26E Eddy County, New Mexico Application for Downhole Commingling

Gentlemen:

Hallwood Petroleum, Inc. is applying for administrative approval to commingle production from the Upper Penn, Strawn 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

Office: (303) 850-6403 Fax: (303) 850-6290

KEO/jey Enclosures KEO99.023

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

Address List for Offset Operators

Ocotillo Hills Com #2

- Devon Energy Corporation
 20 N. Broadway, Suite 1500
 Oklahoma City, OK 73102-9951
- Mewbourne Oil Company P. O. Box 5270 Hobbs, NM 88241

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- Pacific Enterprise Oil Company USA
 P. O. Box 1350
 Midland TX 79702
- Hanagan Petroleum Corporation
 P. O. Box 1737
 Roswell, NM 88201

Armchment #8

NEW MEXICO STATE LAND OFFICE

CERTIFICATE OF APPROVAL

COMMISSIONER OF PUBLIC LANDS, STATE OF NEW MEXICO

Hallwood Petroleum, Inc. Ocotillo Hills Well No. 2 Eddy County, New Mexico E2, Section 21, Township 21 South, Range 26 East Strawn

There having been presented to the undersigned Commissioner of Public Lands of the State of New Mexico for examination, a Communitization Agreement for the development and operation of acreage which is described within the referenced Agreement, dated February 1, 1999, which has been executed, or is to be executed by parties owning and holding oil and gas leases and royalty interests in and under the property described, and upon examination of said Agreement, the Commissioner finds:

(a) That such agreement will tend to promote the conservation of oil and gas and the better utilization of reservoir energy in said area.

- (b) That under the proposed agreement, the State of New Mexico will receive its fair share of the recoverable oil or gas in place under its lands in the area.
- (c) That each beneficiary Institution of the State of New Mexico will receive its fair and equitable share of the recoverable oil and gas under its lands within the area.
 - (d)

That such agreement is in other respects for the best interests of the State, with respect to state lands.

NOW, THEREFORE, by virtue of the authority conferred upon me under Sections 19-10-45, 19-10-46, 19-10-47, New Mexico Statutes Annotated, 1978 Compilation, I, the undersigned Commissioner of Public Lands of the State of New Mexico, for the purpose of more properly conserving the oil and gas resources of the State, do hereby consent to and approve the said Agreement, and any leases embracing lands of the State of New Mexico within the area shall be and the same are hereby amended to conform with the terms thereof, and shall remain in full force and effect according to the terms and conditions of said Agreement. This approval is subject to all of the provisions of the aforesaid statutes.

IN WITNESS WHEREOF, this Certificate of Approval is executed, with seal affixed, this 29th day of March, 1999.

COMMISSIONER OF PUBLIC LANDS of the State of New Mexico

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Fitle 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.

						•
SUMMARY OF POI drill-stem, tests, it recoveries):	ROUS ZONES: (Sh acluding depth int	iow all important i lerval tested, cus	SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and 38. recoveries):	GEOLOG	GEOLOGIC MARKERS	•
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	401 PLAN SVA	TRUE
			NOTE:	2	MEAS, DEPTH	VERT. DEPTH
		-	<pre>Data on reverse side is for the recompletion and dual completion of the Upper Penn - Cisco Canyon 9355'-9420' gross interval that was added and dual completed with the Morrow formation 10850'-60'. 10885'-95' and 10955'-65', that has been producing since 1975. Upper zone (Upper Penn Field - Cisco Canyon) is produced up the casing/tubing annulus. Lower zone (Avalon Field - Morrow) is produced up 2 7/8" tubing and packer (set at 10780').</pre>			
					pg 2/4	Attrachment #9.

CONSERVATION

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

----- OIL CONSERVATION DIVISION

OIL



ATTAC honer # 9 pg 3/4

A 2

BRUCE KING GOVERNOR POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE. NEW MEXICO 87504 (505) 827-5800

THE APPLICATION OF HALLWOOD PETROLEUM, INC.

:01

ADMINISTRATIVE ORDER MC-3012

DIV

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 112-A, III, Hallwood Petroleum, Inc. made application to the New Mexico Oil Conservation Division on June 5, 1991, for permission to dually complete its Ocotillo Hills Well No. 2 located 2310 feet from the North line and 1980 from the East line (Unit G) of Section 21, Township 21 South, Range 26 East, NMPM, Eddy County, New Mexico, in such a manner as to permit production of gas from the Avalon Morrow Gas Pool through a string of 2 7/8 inch tubing and the production of gas from the Undesignated Avalon Upper Pennsylvanian Gas Pool through the 5 1/2 inch casing/tubing annulus.

Now, on this 23 day of July, 1991 the Division Director finds that:

(1) The application has been filed under the provisions of Rule 112-A, III and IV of the Division's General Rules and Regulations;

(2) The proposed dual completion will not cause waste nor impair correlative rights; and

(3) The mechanics of the proposed dual completion are feasible and consonant with good conservation practices.

IT IS THEREFORE ORDERED THAT:

(1) The applicant herein, Hallwood Petroleum, Inc., be and the same is hereby authorized to dually complete its Ocotillo Hills Well No. 2, located 2310 feet from the North line and 1980 feet from the East line (Unit G) of Section 21, Township 21 South, Range 26 East, NMPM, Eddy County, New Mexico, in such a manner as to permit production of gas from the Avalon Morrow Gas Pool through a string of 2 7/8 inch tubing and the production of gas from the Undesignated Avalon Upper Pennsylvanian Gas Pool through the 5 1/2 inch casing/tubing annulus.

UL-24-91 WED 14:02 OIL CONSERVATION DIV

P.03

ATTAChment # 9

PROVIDED HOWEVER THAT, applicant shall complete, operate and produce said well in accordance with the provisions of Rule 112-A.

<u>PROVIDED FURTHER THAT</u>, applicant shall take packer-leakage tests upon completion and annually thereafter.

IT IS FURTHER ORDERED THAT, jurisdiction of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION IAM J LEMAY Director

cc: Oil Conservation Division - Artesia U.S. Bureau of Land Management - Carlsbad