STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



2

April 2, 1987

GARREY CARRUTHERS

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Shell Western E & P Inc. P. O. Box 991 Houston, Texas 77001

Attention: A.J. Ford

Re: Administrative Order NFL-160

Dear Mr. Fox:

Reference is made to your application for an Infill Well Finding and Well-Spacing Waiver made pursuant to Section 271.305(b) of the Federal Energy Regulatory Commission regulations, Natural Gas Policy Act of 1978, and Oil Conservation Division Order No. R-6013 for the following described well:

North Hobbs Unit Well No. 223 located 1770 feet from the North line and 2405 feet from the West line (Unit F) of Section 30, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico.

THE DIVISION FINDS THAT:

(1) Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waver of existing well-spacing requirements.

(2) By Division Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary. (3) The well for which a finding is sought is to be completed in the Hobbs Grayburg San Andres Pool, and the standard spacing unit in said pool is 40 acres.

(4) A standard 40-acre oil proration unit comprising the SE/4 NW/4 of Section 30, Township 18 South, Range 38 East, is currently dedicated to the North Hobbs Unit Wells Nos. 221 & 222 both located in Unit F of said Section 30.

(5) Said unit is not being effectively and efficiently drained by the existing wells on the unit.

(6) The drilling and completion of the well for which a finding is sought should result in the production of an additional 120,000 MCF of gas from the proration unit which would not otherwise be recovered.

(7) All requirements of Division Order No. R-6013 have been complied with, and the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(8) In order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well-spacing requirements for the pool.

IT IS THEREFORE ORDERED THAT:

(1) The applicant is hereby authorized to drill the North Hobbs Unit Well No. 223 as described above, as an infill well on the existing 40-acre oil proration unit comprising the SE/4 NW/4 of Section 30, Township 18 South, Range 38 East, NMPM, Hobbs Grayburg San Andres Pool, Lea County, New Mexico. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Sincerely chael E. Stogner

Examiner

MES/et

xc: Oil Conservation Division - Hobbs



Shell Western E&P Inc. A Subsidiary of Shell Oil Company

May 20, 1985

P.O. Box 991 Houston, TX 77001

State of New Mexico Energy and Minerals Department Oil Conservation Division ATTN R. L. Stamets, Director P. O. Box 2088 Santa Fe, NM 87501

Gentlemen:

SUBJECT: INFILL DRILLING FINDING PURSUANT TO SECTION 271.305(b) FEDERAL ENERGY REGULATORY COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

Shell Western E&P Inc. (SWEPI), respectfully requests an administrative finding that the following infill wells are necessary to effectively and efficiently drain a portion of the Grayburg/San Andres reservoir:

SHELL WESTERN E&P INC. OPERATED NORTH HOBBS (GRAYBURG/SAN ANDRES) UNIT HOBBS (GRAYBURG/SAN ANDRES) POOL LEA COUNTY, NEW MEXICO

LOCA	TION			
4-18S-37E	1200'	FNL &	206'	FEL
9-18S-38E	100'	FSL &	1400'	FWL
0-18S-38E	1770'	FNL &	2405'	FWL
3-18S-38E	1250'	FSL &	185'	FWL
3-18S-38E	2380'	FSL &	2472'	FWL.
	4-18S-37E 9-18S-38E 0-18S-38E 3-18S-38E 3-18S-38E	9-18S-38E 100' 0-18S-38E 1770' 3-18S-38E 1250'	4-18S-37E 1200' FNL & 9-18S-38E 100' FSL & 0-18S-38E 1770' FNL & 3-18S-38E 1250' FSL &	4-18S-37E 1200' FNL & 206' 9-18S-38E 100' FSL & 1400' 0-18S-38E 1770' FNL & 2405' 3-18S-38E 1250' FSL & 185'

Administrative Order NSL-1749 dated October 4, 1983 and amended December 13, 1983, approved the above-described unorthodox locations. Additional data in support of this request is attached.

Based on the results of these initial five (5) infill wells, the Division issued Order No. R-7670 dated September 21, 1985 approving Shell Western's proposal to drill thirty-eight (38) additional producers and five (5) injectors and found that the 38 wells were necessary to effectively and efficently drain portions of the Grayburg/San Andres reservoir. Shell Western is now requesting and Effective and Efficient finding for the initial five wells.

The only operator of a proration or spacing unit offsetting the subject unit is Amoco Production Company, which operates the South Hobbs (Grayburg/San Andres) Unit. Amoco has been notified by certified mail of this request.

If additional information is required, please advise.

Yours very truly,

we

A. J. Fore Supervisor Regulatory and Permitting Mid-Continent Division

Attachments

DMU

cc: State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240

> Amoco Production Company P. O. Box 3092 Houston, TX 77253

INFILL DRILLING FINDING

SHELL WESTERN E&P INC. OPERATED NORTH HOBBS (GRAYBURG/SAN ANDRES) UNIT HOBBS (GRAYBURG/SAN ANDRES) POOL LEA COUNTY, NEW MEXICO

WELL NO.		LOCATION				
24-413	A-24-18S-37E	1200'	FNL	&	206'	FEL
29-242	N-29-18S-38E	100'	FSL	&	1400'	FWL
30-312	F-30-18S-38E	1770'	FNL	&	2405'	FWL
33-142	M-33-18S-38E	1250'	FSL	&	185'	FWL
33-233	K-33-18S-38E	2380'	FSL	&	2472'	FWL.

The North Hobbs (G/SA) Unit and pressure maintenance project which was authorized by Division Order No. R-6198 and R-6199, became effective on February 1, 1980. Prior to drilling the subject wells, the Unit was developed by 189 producers and 74 injectors, utilizing a modified 5-spot flood pattern (Figure No. 1). Average daily oil production amounted to 9849 barrels of oil and 50,408 barrels of water in January 1984. For the same period, water injection averaged 57,629 barrels per day. The Unit development plans as originally proposed were essentially completed with the drilling of the line injection wells on the boundary between the North and South Hobbs (G/SA) Units in 1983.

About 85 percent of the wells drilled in the central portion of the Unit are located off-center, usually 330+ feet from the lease line. The sweep efficiencies with this off-center configuration were reviewed and 48+ potential infill well locations were identified. It was determined that the drilling of $48\pm$ infill wells would develop an estimated $6.0\pm$ MMB of reserves that would not be produced with the existing well configuration. The five (5) subject infill wells were drilled to confirm the unique oil potential of the infill drilling program in the subject Unit. Order No. R-7670 dated September 21, 1984, approved the unorthodox locations of the 38 remaining infill wells as necessary to effectively and efficiently drain a portion of the Grayburg/San Andres reservoir which could not be drained by any existing well within the proration unit.

Each of these wells is the second or subsequent well drilled on an established proration unit. The completion of these five (5) infill wells had no appreciable affect on the oil production of the first or subsequent wells as shown by the attached production decline curves.

Based on the foregoing, it is our opinion that the reserves developed by these five (5) infill wells are unique and would not be recovered by any other wells in the existing proration unit. Therefore, we recommend an effective and efficient finding be made for each of these wells.

GAS RESERVE CALCULATION

The North Hobbs (G/SA) Unit average producing GOR is currently 1100 cu ft per barrel. However, we expect with continued response to the water injection program the GOR will decline to near the solution GOR of 645 cu ft per barrel.

To determine gas reserves attributable to each well, we have assumed a lifetime GOR of 800 cu ft per barrel.

Estimated Ultimate Oil Recovery = 150,000 bbls per well

150,000 X 800 = 120 MMCFGas per well.

ADDITIONAL DATA - SECOND OR SUBSEQUENT WELLS

	<u>L(</u>	DCATION					SPUD DATE	FORMER OPERATOR/WELL NAME & NO.
N. Hobbs <u>No. 24-41</u>							: :	
24-411 24-412	A/24-18S-37E A/24-18S-37E		90' FN 30' FN		990' 330'		6-10-70 7-02-32	Gulf - Graham State (NCT A) #6 Gypsy - Graham State A #2
N. Hobbs <u>No. 29-24</u>								
29-241	N/29-18S-38E	3	30' FS	L &	2310'	FWL	7-25-30	Conoco - State A-29 #2
N. Hobbs <u>No. 30-22</u>							•	
30-221 30-222W	F/30-18S-38E F/30-18S-38E				2310' 1395'		4-20-30 6-23-80	Amerada - H. D. McKinley #2 Shell - N. Hobbs (G/SA) Unit #30-222 (Converted to injector 11-29-82)
N. Hobbs <u>No. 33-14</u>								
33-141	M/33-18S-38E	6	60' FS	5L &	660'	FWL	7-05-30	Conoco - State A-33 #1
N. Hobbs <u>No. 33-23</u>					· .			
33-231 33-232W	K/33-185-38E K/33-185-38E				1320' 1370'		8-13-30 8-15-80	Conoco - State A-33 #3 Shell - N. Hobbs (G/SA) Unit #33-232 (Completed as an injector 6-16-81)

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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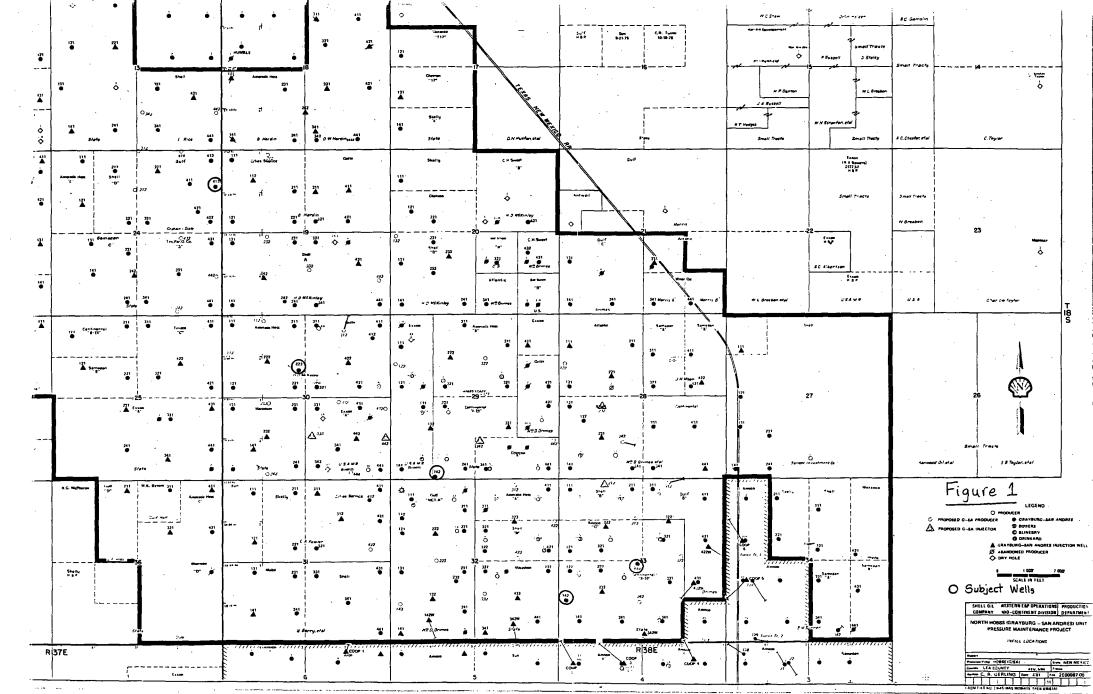
Form C-102 Supersedes C-128 Effective 1-1-65

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Shell Western E&P Inc. A Subsidiary of Shell Oil Company



P.O. Box 991 Houston, TX 77001

May 20, 1985

State of New Mexico Energy and Minerals Department Oil Conservation Division ATTN R. L. Stamets, Director P. O. Box 2088 Santa Fe, NM 87501

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If additional information is required, please advise.

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A. J. Fore Supervisor Regulatory and Permitting Mid-Continent Division

DMU

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Attachments

cc: State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P. 0. Box 1980
Hobbs, NM 88240

Amoco Production Company P. O. Box 3092 Houston, TX 77253

INFILL DRILLING FINDING

SHELL WESTERN E&P INC. OPERATED NORTH HOBBS (GRAYBURG/SAN ANDRES) UNIT HOBBS (GRAYBURG/SAN ANDRES) POOL LEA COUNTY, NEW MEXICO

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To determine gas reserves attributable to each well, we have assumed a lifetime GOR of 800 cu ft per barrel.

Estimated Ultimate Oil Recovery = 150,000 bbls per well

150,000 X 800 = 120 MMCFGas per well.

ADDITIONAL DATA - SECOND OR SUBSEQUENT WELLS

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	. <u>L</u> (DCATION	SPUD DATE	FORMER OPERATOR/WELL NAME & NO.
N. Hobbs <u>No. 24-4</u>				
24-411 24-412	A/24-18S-37E A/24-18S-37E	990' FNL & 990' FEL 330' FNL & 330' FEL	6-10-70 7-02-32	Gulf - Graham State (NCT A) #6 Gypsy - Graham State A #2
N. Hobbs <u>No. 29-2</u> 4				
29-241	N/29-18S-38E	330' FSL & 2310' FWL	7-25-30	Conoco - State A-29 #2
N. Hobbs No. 30-2				
30-221 30-222W	F/30-18S-38E F/30-18S-38E	2310' FNL & 2310' FWL 1470' FNL & 1395' FWL	4-20-30 6-23-80	Amerada - H. D. McKinley #2 Shell - N. Hobbs (G/SA) Unit #30-222 (Converted to injector 11-29-82)
N. Hobbs <u>No. 33-1</u>				
33-141	M/33-18S-38E	660' FSL & 660' FWL	7-05-30	Conoco - State A-33 #1
N. Hobbs No. 33-2			• •	
33-231 33-232W	K/33-18S-38E K/33-18S-38E	2310' FSL & 1320' FWL 2595' FSL & 1370' FWL	8-13-30 8-15-80	Conoco - State A-33 #3 Shell - N. Hobbs (G/SA) Unit #33-232 (Completed as an injector 6-16-81)

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form C-102 Supersedes C-128 Effective 1-1-65

		All distances must b	e from the oute	er boundaries of	the Section	•	
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Actual Footage Location	of Well:				<u> </u>	·	
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RECEIPT FOR CERTIFIED MAIL NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

(See Reverse)

3-517	Sent to AMOCO PRODUCTION COMPA ATTN: H. L. MCDONALD				
83-40:	Street and No. P. O. BOX 3092				
* U.S.G.P.O. 1983-403-517	P.O., State and ZIP Code HOUSTON, TX 77253				
S.G.F	Postage	\$			
*	Certified Fee				
	Special Delivery Fee				
	Restricted Delivery Fee				
	Return Receipt Showing to whom and Date Delivered				
1982	Return receipt showing to whom, Date, and Address of Delivery				
Form 3800, Feb. 1982	TOTAL Postage and Fees	\$			
800,	Postmark or Date				
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