## ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION



April 2, 1987

GARREY CARRUTHERS

Shell Western E & P Inc. P. O. Box 991 Houston, Texas 77001 Attention: A. J. Fore 1987

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

7-3

J. Fore

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#### Re: Administrative Order NFL-164

Dear Mr. Fore:

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. 413 located 1200 feet from the North line and 206 feet from the East line (Unit A) of Section 24, Township 18 South, Range 37 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.

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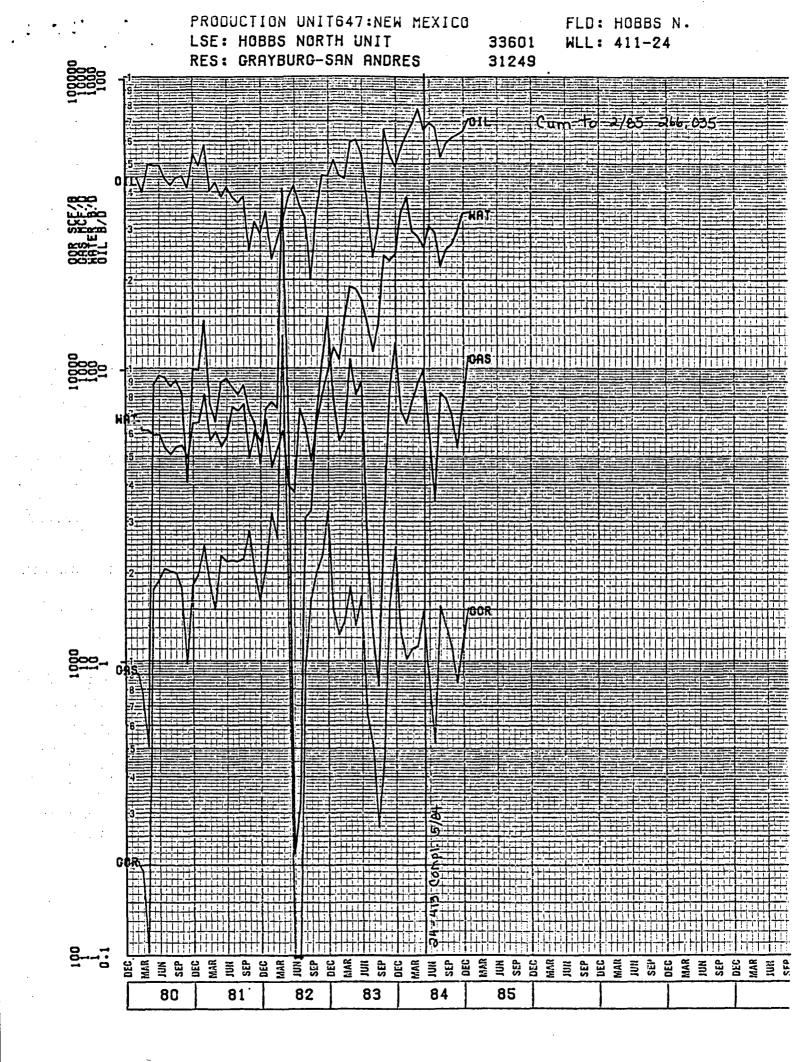
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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C - 102 Supersedes C-128

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Effective 1-1-65 All distances must be from the outer boundaries of the Section ירימזייע 1.00.00 Well Hc. SHELL WESTERN E&P INC. **98**-413 NORTH HOBBS UNIT Section Township frut 1 etter Range County 18 SOUTH 24 37 EAST A LEA A tual Postage Location of Welly 1200 teet from the NORTH line and 206 teet from the EAST line Ground Level Elev. **Producing Formation** Pool Dedicated Acreages 3661.6' GRAYBURG/SAN ANDRES HOBBS (GRAYBURG/SAN ANDRES) 40 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? UNITIZATION XX Yes If answer is "yes," type of consolidation \_ No No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)\_ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. Shill Wister Expin CERTIFICATION Norsh Hobbs Unit Well No. NIL 10 FAL -1280 PEL I hereby certify that the information con-Spud: 9/28/84 Holds Grayburg Son Orders Completion tained herein is true and complete to the Commulative Production as best of my knowledge and belief. 12/31/85: 6as-84225MC Name ai) - 29749 8.0 1. 206 A. J. FORE Sholl Western El Pine. (200 North Hobbs Unic Wall No. 412 Pestion SUPERVISOR REG. & PERMITTING 330'FNYEL Shell Western Et & Inc. Soud ! 1/2/32 Contrany Hobbs brayborg San Andres Comp Cummelasing Production as of 12/71/85; North Hobbs Unit Well No. 411 SHELL OIL COMPANY 990'FNIEL Date Spud: 6/10/70 NOVEMBER 14, 1984 Hobbs Grayburg San Andres Comp. Gas - 16 9.79 MCF Commistative Production as as 12/2//85! 4747378.0. 011 -Gas - 630319 MCF I heraby certify that the well location 011 - 281528 A.O. shown on this plat was plotted from field AGINEER notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed OCTOBER 21, 1983 **Registures Professional Engineer** and/or Land Surveyor Contineoro 676 JOHN

# 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 be from the outer boundaries of the Section.								
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SHELL WE	STERN E&P II	NC.	N	. HOBBS (G/	SA) UNIT S	ECTION 24	411, 412, 413	
Unit Letter	Section	Township		Range	County			
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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

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.

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.

BNBG8512703

If additional information is required, please advise.

Yours very truly,

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

DMU

Attachments

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

## BNBG8512703

#### 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
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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.

BNBG8512703

### 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

·	LOC	ATION	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		0' FEL 6-10-70 0' FEL 7-02-32	Gulf - Graham State (NCT A) #6 Gypsy - Graham State A #2
N. Hobbs <u>No. 29-2</u>				
29-241	N/29-18S-38E	330' FSL & 2310	)'FWL 7-25-30	Conoco - State A-29 #2
N. Hobbs <u>No. 30-</u> 2				
30-221 30-222W	F/30-18S-38E F/30-18S-38E	2310' FNL & 2310 1470' FNL & 1395		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 2595' FSL & 1370		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

All distances must be from the outer boundaries of the Section. Operator I ense Well No. HOBBS (G/SA) UNIT SECTION 24 WESTERN E&P INC Ν. 411, 412, 413 SHELL Township Unit Letter Section Range County 18-S 37-E LEA Actual Footage Location of Well: feet from the line and feet from the line Pool Ground Level Elev: **Producing Formation** Dedicated Acreage: HOBBS (G/SA) GRAYBURG/SAN ANDRES Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc? <u>UNITIZATION</u> If answer is "yes," type of consolidation \_\_\_\_\_ X Yes ] No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. **CERTIFICATION** 24-4 330 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 24 Nome 206 1 A. J. FORE Position SUPV. REGULATORY & PERMITTING Company SHELL WESTERN E&P INC. Date MAY 2.0 1985 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 knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 1320 1650 1980 2310 2000 1500 1000 50Q 330 660 190 26 40

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

# NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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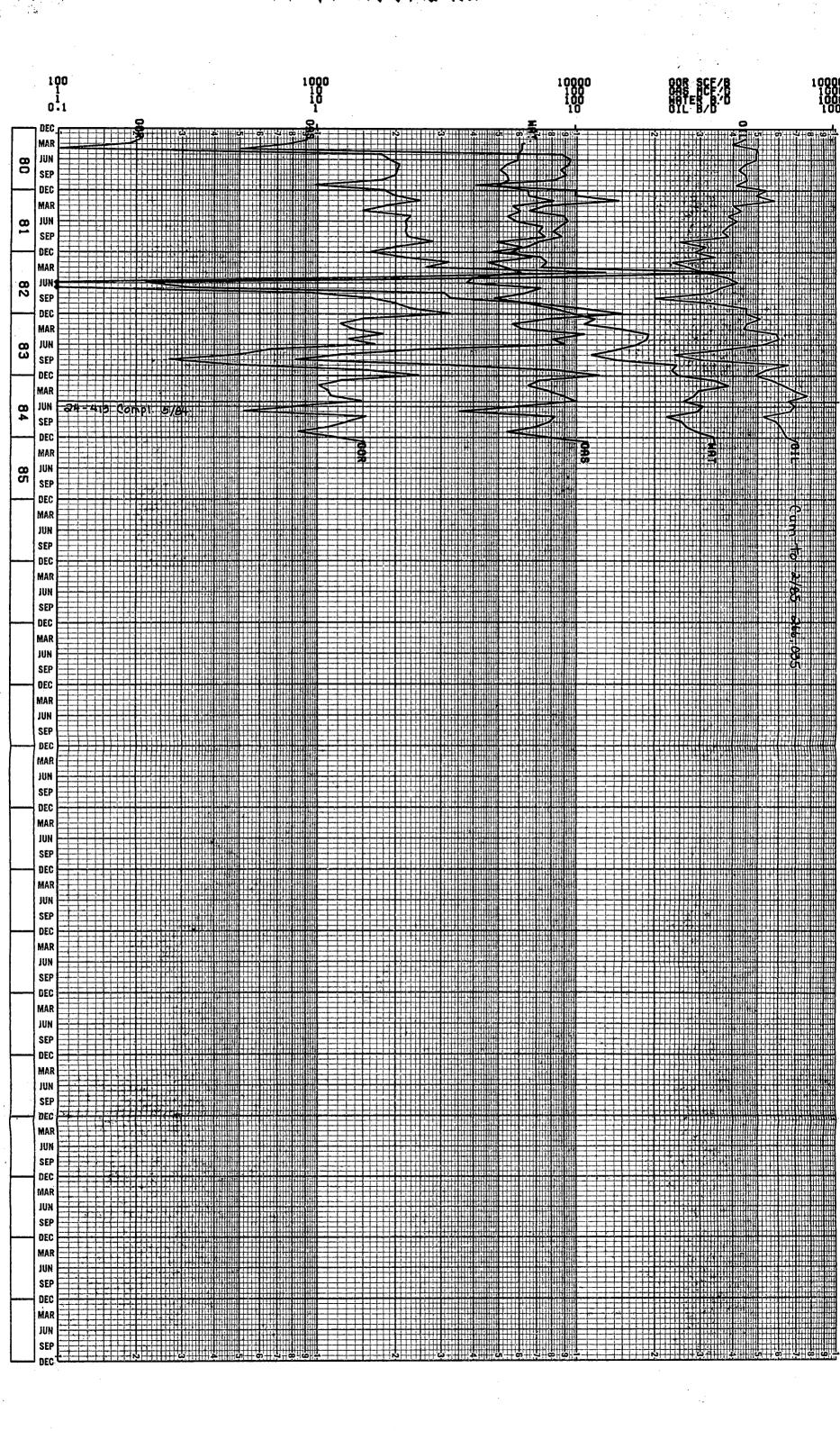
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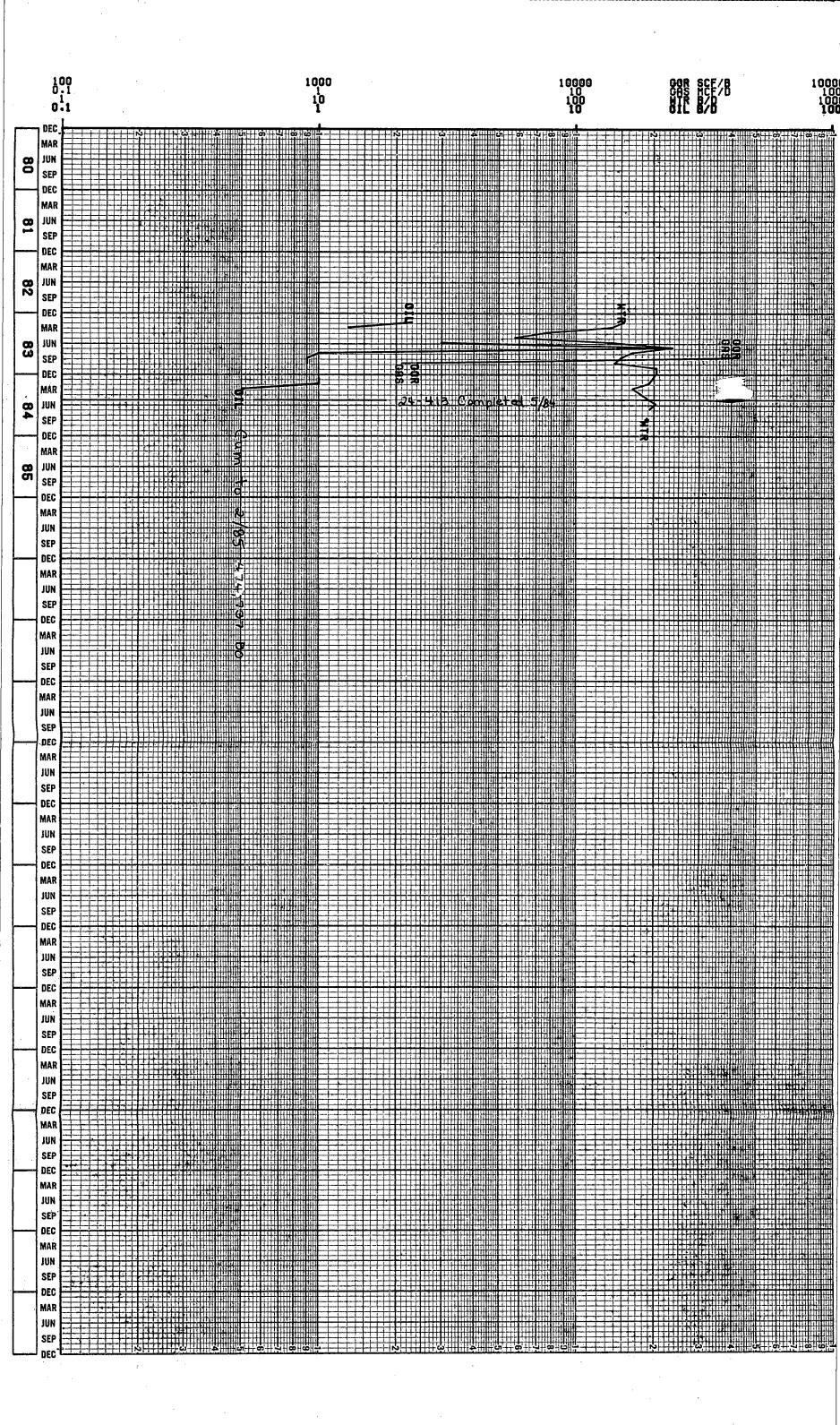
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Form C-102 Supersedes C-128 Effective 1-1-65

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Operator			Leas	-		COTTON 04	Well No.			
SHELL WE	STERN E&P IN(	Township		HOBBS (G/SA) Range		ECTION 24	411, 412, 413			
		•			County	- ^				
Actual Footage Loc	24	<u>18-S</u>		<u>37-E</u>		<u>. A</u>				
	feet from the	lin	e ond	(	t fara - tha		11 -			
Ground Level Elev.	Producing For		Pool	100	t from the		line Dedicated Acreage:			
-	GRAYBURG	G/SAN ANDRES	Н	OBBS (G/SA)			Acres			
1 Outling th	e acreage dedica				• h • • h • • •	 				
1. Outline in	e acceage dedica	ted to the subje	ct well by	colored pencil o	r nachure	marks on in	e plat below.			
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).										
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- dated by communitization, unitization, force-pooling.etc?										
X Yes	No If an	iswer is "yes," t	ype of con	solidation	UNITIZ	ATION	·····			
If answer this form i	is "no," list the f necessary.)	owners and tract	descriptio	ons which have ac	tually be	en consolida	ated. (Use reverse side of			
No allowat	le will be assigne	ed to the well unt or until a non-sta	til all inter andard unit	rests have been o t, eliminating suc	onsolidat h interest	ted (by comi ts, has been	munitization, unitization, approved by the Commis-			
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							CERTIFICATION			
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	1			1		SUPV. REG	GULATORY & PERMITTING			
	ł			I		Company				
	-					SHELL	WESTERN E&P INC.			
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	RECEIPT FOR CERTIFIEI	о м	AIL	
	NO INSURANCE COVERAGE PRO NOT FOR INTERNATIONAL M		ED	
	(See Reverse)			
3-517	sent to AMOCO PRODUCTI ATTN: H. L. MCDON	ON Ale	COMPA	λY
* U.S.G.P.O. 1983-403-517	Street and No. P. O. BOX 3092		· · ·	
P.O. 1	P.O., State and ZIP Code HOUSTON, TX 7725	3		
.S.G.	Postage	\$		
<b>U</b> *	Certified Fee			
	Special Delivery Fee			1
	Restricted Delivery Fee			1
	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			
irm 3	D. M. UPSON WCK 4435			
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