STATE OF NEW MEXICO



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January S, 1987

GARREY CARRUTHERS

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

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Union Texas Petroleum Corporation P.O. Box 2120 Houston, Texas 77252-2120 Attention: Ralph E. Stanley

Contract Analyst

Re: Administrative Order NFL-151

Dear Mr. Stanley:

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 Dil Conservation Division Order No. R-6013 for the following described well:

Langlie Jal Unit Well No. 101 located 2540 feet from the South line and 1250 feet from the West line of Section 32, Township 24 South, Range 37 East, NMPM, Langlie Mattix Pool, 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 in 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 promation 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 Langlie Mattix Pool, and the standard space in unit in unit in pool of scres.

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(5) Administrative Order No. NFL-98, dated October 11, 1984, authorized an Infill Well Finding for said Langlie Jal Unit Well No. 100 on the aforementioned proration unit. NFL-98 should remain in full force and not be effected by the entry of this order.

Vijnaisitta bas viavitoatta parad <u>jon</u> si tiau bis2 (a) drainsd by the existing weilew parat.

(7) The drilling and completion of the well for which a finding is sought should result in the production of an additional 59,000 MCF of gas from the proration unit, which would not otherwise be recovered.

5104-A total of Division Order No. A-Bio Standard No. A-Bio Standar

(9) 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:

(2) District Main Strative Order No. NFL-98, dated October 11, 1984, shall remain in tull torce and effect until further notice.

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STATE OF NEW MEXICO



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ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

January 5. 1987

GARREY CARRUTHERS

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

Union Texas Petrolèum Corporation P.O. Box 2120 Houșton, Texas 77252-2120

Attention: Ralph E. Stanley Contract Analyst

Re: Administrative Order NFL-151

Dear Mr. Stanley:

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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 in 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 promation 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 Langlie Mattix Pool, and the standard spacing unit in said pool is 40 acres.

(4) A standard 40-acre oil proration unit comprising the NW/4 SW/4 (Unit L) of Section 32, Township 24 South, Kange 37 East, is currently dedicated to the Langlie Jal Unit Wells Nos. 19 and 100 also located in Unit L of said Section 32.

(5) Administrative Order No. NFL-98, dated October 11, 1984, authorized an Infill Well Finding for said Langlie Jak Unit Well No. 100 on the aforementioned proration unit. NFL-98 should remain in full force and not be sifacted by the entry of this order.

(6) Said unit is <u>not</u> being effectively and pficiently. drained by the existing wells on the unit.

(7) The drilling and completion of the well for which a finding is sought should result in the production of an additional 59,000 MCF of gas from the proration unit which would not otherwise be recovered.

(8) All the 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 which cannot be so drained by any existing well within the unit.

(9) 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.

IL IS THEREFORE ORDERED THAT:

(2) Division Administrative Order No. NFL-78, dated October 11, 1984, shall remain in full force and effect until further notice.

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

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Michael E. Stogner, Examiner

NFL-98 File MFL-98 File

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Received 6/10/86 Release ASAP

AIFL UTXS

Union Texas Petroleum Corporation P.O. Box 2120 Houston, Texas 77252-2120

Attention: Ralph E. Stanley Contract Analyst

Re: Administrative Order NFL-151

Dear Mr. Stanley:

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:

> Langlie Jal Unit Well No. 101 located 2540 feet from the South line and 1250 feet from the West line of Section 32, Township 24 South, Range 37 East, NMPM, Langlie Mattix Pool, 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 in 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 Langlie Mattix Pool, and the standard spacing unit in said pool is 40 acres.

(4) A standard 40-acre oil proration unit comprising the NW/4 SW/4 (Unit L) of Section 32, Township 24 South, Range 37 East, is currently dedicated to the Langlie Jal Unit Wells Nos. 19 and 100 also located in Unit L of said Section 32.

(5) Administrative Order No. NFL-98, dated October 11, . 1984, authorized an Infill Well Finding for said Langlie Jal Unit Well No. 100 on the aforementioned proration unit. NFL-98 should remain in full force and not be effected by the entry of this order.

(6) Said unit is <u>not</u> being effectively and efficiently drained by the existing wells on the unit.

(7) The drilling and completion of the well for which a finding is sought should result in the production of an additional 59,000 MCF of gas from the proration unit which would not otherwise be recovered.

(8) All the 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.

(9) 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 Langlie Jal Unit Well No. 101 as described above, as an infill well on the existing 40-acre oil proration unit comprising the NW/4 SW/4 (Unit L) of Section 32, Township 24 South, Range 37 East, NMPM, Langlie Mattix 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) Division Administrative Order No. NFL-98, dated October 11, 1984, shall remain in full force and effect until further notice. (3) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

Michael E. Stogner Examiner

N.M.O.C.D.- Hobbs NFL-98 File

IFL UTX 5

acres.

ADMINISTRATIVE ORDER

NFL WEC-98

INFILL DRILLING FINDINGS 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

OIL CONSERVATION DIVISION P. O. Box 2088

SANTA FE, NEW MEXICO

87501

Ι.					,		
Operator	<u>Unica</u>	Texas Petr	her Corp.	Well Name and No.	hanglie Jal	Unit Well No.	10
Location:	Unit	L_Sec. 32		Rng. 37 <i>E</i> Cty.	hea	· · · · · · · · · · · · · · · · · · ·	• •

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II.

THE DIVISION FINDS:

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

(1) That 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 waiver of existing well-spacing requirements.

(2) That by 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.

That the well for which a finding is sought is to be completed in the <u>handie Mattic</u> (3)

Pool, and the standard spacing unit in said pool is

That a <u>Stand</u>, 40 -acre protation unit comprising the $\lambda w/y \overline{sw/y}$ (Unit L (4) , Twp. 245 , Rng. 37 5 , is currently dedicated to the hamplic of Sec. 72 Nos. 19 and 100 located in Unit 2 of said section.

(5) That this proration unit is (1/2) standard () nonstandard; if nonstandard, said unit was previously approved by Order No.

(6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.

(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 59 000 MCF of gas from the proration unit which would not otherwise be recovered.

That all the requirements of Order No. R-6013 have been complied with, and that 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.

That in order to permit effective and efficient drainage of said proration unit, the subject (9) application should be approved as an exception to the standard well spacing requirements for the pool.

IT IS THEREFORE ORDERED:

That the applicant is hereby authorized to drill the well described in Section I above as an (1)infill well on the existing proration unit described in Section II(4) above. 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.

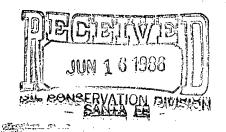
That jurisdiction of this cause is retained for the entry of such further orders as the (2)Division may deem necessary.

day of , 19 DONE at Santa Fe, New Mexico, on this

DIVISION DIRECTOR

EXAMINER

Union Texas Petroleum



1330 Post Oak Blvd. P.O. Box 2120

(713) 623-6544

Houston, Texas 77252-2120

June 11, 1986

New Mexico Dept. of Energy & Minerals Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attn: Mr. Mike Stogner

RE: Langlie Jal Unit 32-245-37E #101-L

Dear Mike:

In order to respond to your request for an infill well finding, I have used the format that is prescribed by the Texas Railroad Commission. Since this format is simplier to understand and provides the same type of information that every jurisdictional agency requires, I have found it to be accepted by everyone.

I trust this will enable you to complete the filing process; however, if additional information is needed, please call me at (713) 968-3677.

Yours truly, R.E. Stanley

Ralph E. Stanley ¹ Contract Analyst

RES/jv

MISC/13

IN ORDER TO FULFILL THE REQUIREMENTS FOR AN INFILL WELL FILING, PLEASE ANSWER THE FOLLOWING:

EFFECTIVE AND EFFICIENT DRAINAGE FINDING

1. SUBMIT A DETAILED DESCRIPTION OF THE CIRCUMSTANCES NECESSITATING DRILLING OF ADDITIONAL WELL(S) ON THE PRORATION UNIT FOR EACH WELL. (I.E., MECHANICAL DIFFICULTY, RESERVOIR CHARACTERISTICS).

2. PROVE THE PRORATION UNIT TO BE REASONABLY PRODUCTIVE (I.E., STRUCTURE MAP ILLUSTRATING GAS-WATER CONTACTS AND RESERVOIR LIMITS OR OFFSET PRODUCTION IN THE SAME RESERVOIR).

3. CALCULATE THE ORIGINAL RECOVERABLE GAS IN PLACE OF PRORATION UNIT (I.E., VOLUMETRIC CALCUTATION USING RECOVERY FACTOR OR OTHER ACCEPTED ENGINEERING CALCULATIONS SUCH AS P/Z PLOT VS. CUMULATIVE PRODUCTION OF PRORATION UNIT). <u>SHOW WORK</u>.

4. PROVIDE CUMULATIVE PRODUCTION TO DATE OR ORIGINAL WELL ON PRORATION UNIT.

5. SUBMIT AN ESTIMATION OF FUTURE RECOVERY FROM ORIGINAL WELL IF THE ORIGINAL WELL IS STILL PRODUCTIVE. <u>SHOW WORK</u>.

6. ESTIMATE THE REMAINING RECOVERABLE RESERVES THAT THE ORIGINAL WELL ON THE PRORATION UNIT IS NOT CAPABLE OF RECOVERING. <u>SHOW WORK</u>.

7. ESTIMATE THE RECOVERY OF EACH ADDITIONAL WELL.

LANGLIE JAL UNIT NO. 101

- 1. A recent reservoir study indicated that porosity stringers in the Seven Rivers-Queen formations (the unitized interval) of the Langlie Jal Unit varied in quantity and quality from well to well. In order to decrease the discontinuity it was proposed that an infill well pilot project be undertaken. Infill drilling to decrease discontinuity thereby increasing flood efficiency was proven to be succesful in the Langlie Jal Unit. Wells numbered 95 through 100, drilled in 1982, added 134,700 barrels of oil and 200 MMSCFG to existing reserves.
- 2. The infill drilling of Langlie Jal Unit Well No. 101 is a part of a project to increase well density from 40 acres per well and 80 acre 5-spot patterns to 20 acres per well and 40 acre 5-spot patterns.
- 3. Based on an initial production of 38 BOPD, a GOR of 1000 and a unit production decline of 20%, reserves for this well are estimated at 59,000 BO and 59 MMCF gas.
- 4. The cumulative production from the Langlie Jal Unit Well No. 19, which is within the 40 acre proration unit, is 73 MBO (gas production not available).
- 5. There is no future production from Langlie Jal Unit Well No. 19. This well was converted to injection service on 5/24/72 to complete the 80 acre 5-spot patterns following unitization.
- 6. The estimate of remaining recoverable reserves that the original well could not recover is 59,000 STBO and 59 MMCF gas.
- 7. The estimated recovery of the Langlie Jal Unit No. 101 is 59,000 STBO and 59 MMCF gas.

LANGLIE JAL UNIT NO. 101

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100

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- 7. The estimated recovery of the Langlie Jal Unit No. 101 is 59,000 STBO and 59 MMCF gas.

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Union Texas Petroleum



April 7, 1986

APR 1 1 1988 ON CONSERVALUE UNISION SANITA IF

1330 Post Oak Blvd. P.O. Box 2120 Houston, Texas 77252-2120 (713) 623-6544

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 State Land Office Building Santa Fe, New Mexico 87501

Attention: Mr. Michael E. Stogner

Re:	Langlie Jal	Unit	32-24S-37E	#101-L
	Langlie Jal	Unit	32-24S-37E	#102-K
	Langlie Jal	Unit	32-24S-37E	#103-P
	Langlie Jal	Unit	32-24S-37E	#104-M
	Langlie Jal	Unit	32-24S-37E	#106-A

Dear Mr. Stogner:

Enclosed please find the information requested for the above referenced wells. If there is any other necessary information, please let me know.

Sincerely,

Kathloon Mathias

Kathleen Mathis Natural Gas Marketing

KM/jc Enclosure

Union Texas Petroleum Holdings, Inc. and Affiliates

3234* Seven Rivers-Queen Langlie Mattix (Queen) 20 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? Yes No If answer is "yes," type of consolidation If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)						· ·
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Ind Level Else: Production promotion Prod 120 Dedicated Acrossing 2234' Seven RiverseQueen Langlie Mattix (Queen) 20 Across 220 Image: A seven RiverseQueen Langlie Mattix (Queen) 20 Across 21 Outline the acreage dedicated to the subject well by colored pencil or hachare marks on the plat below. 20 Across 21 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? 22 Yes No If answer is "yes?" type of consolidation 3. If more than one lease of different ownership is dedicated to the well, bave the interests of all owners been consolidated. (Use reverse side of this form increases) 3. If more the one sense of the well until all interests have been consolidated. (Use reverse side of this form increases) 3. If more the one fease of different ownership is dedicated to the well, some been consolidated. (Use reverse side of this form increases) 3. If more the one consolidation If answer is "no." list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form increases, bas been approved by the Commission, forceo-poolin			12	50	West	المحموم المراجع المراجع المحمد المحموم المراجع ا
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? 1. Yes No If answer is "yes," type of consolidation	ound Level Elev:	الاستان والمستجمع المنبية والمسترك والمسترج والمسترج والمسترج والمسترج والمسترج والمسترج والمسترج		jeet from the		المنبي المسير المستجل بالمنبية ومستكرة بالكشر الكفر الكفي المتع
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? Yes No "If answer is "yes," type of consolidation	3234'	Seven Rivers-Que	en Langlie	Mattix (Queen)	2	0 Acres
If answer is "ao," 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 commanitization, mitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. Image: A first of the set of the	 If more than interest and r If more than dated by com 	one lease is dedicated royalty). one lease of different ov munitization, unitization	to the well, outline wnership is dedicated , force-pooling.etc?	each and identify the o to the well, have the i	ownership thereof	(both as to working
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