STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION P. O. Box 2088 SANTA FE, NEW MEXICO 87501

ADMINIS	TRATIVE	ORDER
NFL	7	

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

Operator Mill	ard Deck Oi	1 Co.	W	ell Name a	nd No	Shell State Well No. 3
Location: Unit	B Sec.	36 Twp.	24S Rng	. 36E	_Cty	Lea
II. THE DIVISION FI	NDS:					
promulgated pur well to qualify find, prior to efficiently dra	suant to the as a new on the commence in a portion	Natural G shore prod ment of dr of the re	as Policy Aduction well illing, that servoir covers	ot of 1978 under Sec t the well ered by th	provides tion 103 is neces e prorats	ission Interim Regulations that, in order for an infill of said Act, the Division must ssary to effectively and ion unit which cannot be so iver of existing well spacing
(2) That by Or procedure where Division and fi	by the Divis	ion Direct	or and the	Division E	ision es xaminers	tablished an administrative are empowered to act for the
(3) That the w						in the <u>Jalmat Gas</u>
(4) That a of Sec. 36	160	-acre pror	tandard space ation unit of 36E,	romnricina	the NW	pool is 640 acres 74 NE/4, E/2 NW/4 & NE/4 SW/4 ated to the Shell State Well on.
	proration un	it is ()	standard (•		on. E nonstandard, said unit was
(6) That said well(s) on the		it is not	being effect	tively and	efficie	ntly drained by the existing
(7) That the d the production otherwise be re	of an additi		of the well	for which	h a find: from the	ing is sought should result in proration unit which would not
for which a fine	ding is sough	ht is neces	ssarv to eff	ectively a	and effic	ed with, and that the well ciently drain a portion of the by any existing well within
(9) That in or application sho pool.	der to permi uld be appro	t effective	e and efficience to	lent drain the stam	age of sa lard well	aid proration unit, the subject t-spacing requirements for the
IT IS THEREFORE					•	7
<pre>infill well on for infill dril and is necessar</pre>	the existing ling granted v to permit	proration by this o the draina	unit descri rder is an t ge of a port	ibed in Sec exception - tion of the	ction II: t o appli c e reservo	cribed in Section I above as an (4) above. The authorization cable well-spacing requirements oir covered by said proration isting well thereon.
(2) That juris Division may de			is retained	for the e		such further orders as the
DONE at Santa F	e, New Mexic	o, on this	9th d	day of	Novem	per , 19 79 .
er e) Meli	20	ferner_

OIL CONSERVATION DIVISION P. O. Box 2088 SANTA FE, NEW MEXICO 87501

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NATURAL GAS POLICY ACT OF 1978 AND OIL CONSERVATION DIVISION
ORDER NO. R-6013

Operator Millard Deck Oil G Well Name and No. Shell State Well No 3
Location: Unit B Sec. 36 Twp. 245 Rng. 36 E Cty. Lea
II.
THE DIVISION FINDS:
(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.
(3) That the well for which a finding is sought is to be completed in the $\frac{\sqrt{a}}{ma} + \frac{\sqrt{a}}{6as}$
Pool, and the standard spacing unit in said pool is 640 acres. (4) That a /60 -acre proration unit comprising the NWHNE/4, E/2 NW/4 & NE/4 SW of Sec. 36, Twp. 24, Rng. 36, is currently dedicated to the She// Syate Well No 2 located in Unit F of said section.
(5) That this proration unit is () standard (χ) nonstandard; if nonstandard, said unit was previously approved by Order No. N_5 /808
(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 406,000 MCF of gas from the proration unit which would not otherwise be recovered.
(8) 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.
(9) That 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:
(1) That the applicant is hereby authorized to drill the well described in Section I above as an 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 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) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.
DONE at Santa Fe, New Mexico, on thisday of, 19

DIVISION DIRECTOR

EXAMINER

P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

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

Re: Supplement to Application for Administrative Approval for NGPA Infill Finding According to 271.304 and 271.305 for Shell State No. 3 - Jalmat Tansill Yates Seven Rivers Gas Pool - 660' FNL & 2310" FEL, Sec. 36, T24S, R36E, Lea County, New Mexico.

Gentlemen:

Several questions were raised concerning the original application, dated October 16, 1979, for the Shell State No. 3 application. One question concerned measures taken to control water. A second question concerned how the bottom hole pressure was determined. The third question concerned the calculation for the estimated recoverable gas reserves. A question was raised concerning the relative structural position of Nos. 2 and 3.

First, during the initial completion attempt, this well was perforated from 3299' to 3378'. After treating with 1000 gallons of acid, it swabbed 100% water. A bridge plug was set and a second attempt was made. It was perforated from 3048' to 3065' and treated with 200 gallons of acid. Again it produced 100% water. A bridge plug was again set. The casing was perforated from 2701' to 2771'. After treating with 1000 gallons of acid, the well swabbed dry. It was then fracture treatment using 10,000 gallons of gelled brine. Following the fracture treatment the well potentialled for 1200 and 105 BWPD with 1,150 MCF of gas. Over the next few weeks water production increased. Within 3 months it was producing toomuch water to economically continue production. It was decided from this performance that the initial cement job on the 4½" casing had resulted in channels so that all zones below 3000' were initially communicated. Following the fracture treatment we felt that a channel had been created downward into the Seven Rivers. Due to the extensive channelling, which we were convinced existed, it was our opinion that numerous squeeze jobs would be required to remedy the poor cement job and that the chances for success would be slim considering the long interval involved. The decision was made totmake no further attempt to remedy or complete the well.

Page 2 October 16, 1979
Millard Deck Oil Company
to
New Mexico Department of Energy & Minerals

The bottom hole pressure estimate of 450 psi was made based on three items of information. From the enclosed C-105 it will be noted that the well exhibited a casing pressure of 540 psi on a flowing potential test. In September, 1969 El Paso Natural Gas Company reported a 72 hr shut-in pressure of 448 psi. Currently, the well has 1200' of fluid in the hole as indicated by a fluid level shot. This calculates to be in excess of 450 psi.

Enclosed is a copy of a Gamma Ray-Neutron log from the Shell State No. 2. This log has been marked to show the zones of porosity in the Yates that can reasonably be expected to produce gas. There are 80° exhibiting a weighted average of 13% porosity. Using the following assumptions a recalculation of recoverable reserves was made: BHP-450 psi, BH temp. 90°, gas gravity of .7, 80 acre unit, 30% water saturation, 50% of reserves are recoverable. The pore volume containing recoverable gas is calculated to as (43560 ft /ac) (80 ac) (80 ft with poroisty) (.13porosity) (.7 gas) (.5 recoverable) = 12,685,000 ft. Then calculating the volume of gas at standard conditions of 14.7 psi and 60° F contained in one ft at reservoir conditions of 450 psi and 90° and using a gas deviation factor of .9, it is found that 32 SCF/ft is contained in the reservoir. Then (12,685,000) (32) = 408,920,000 SCF or 405,920 MCF.

A question was also reised concerning the relative structural position of Shell State Nos. 2 and 3. According to the Structure map presented, the No. 2 is higher structurally than No. 3, which generally would mean that No. 3 was more likely to be water productive. However in this case the wells along the east side of Section 36 have produced lower volumes of water than wells along the west boundary. Permeability may be a factor in this difference. If is our opinion that the poor quality cement job in the Seven Rivers and Yates sections of No. 2 is the single most important reason for the high water production from No. 2 instead of structurall position.

Finally, current plans for No. 2 are to plug and abandon the well as soon as the approval is obtained and equipment is available.

Yours very truly,

Millard Deck

MD/sjb
Enclosures

P. O. Box 1047 Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

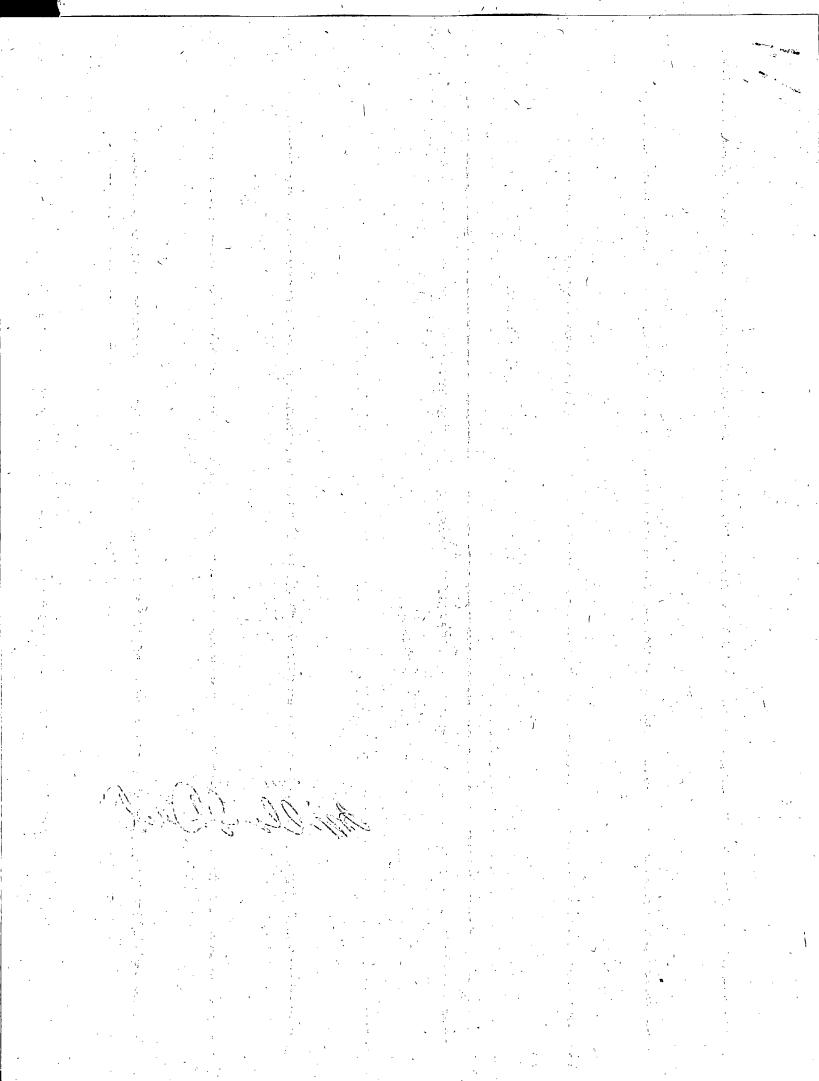
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EUNICE, NEW MEXICO 88231

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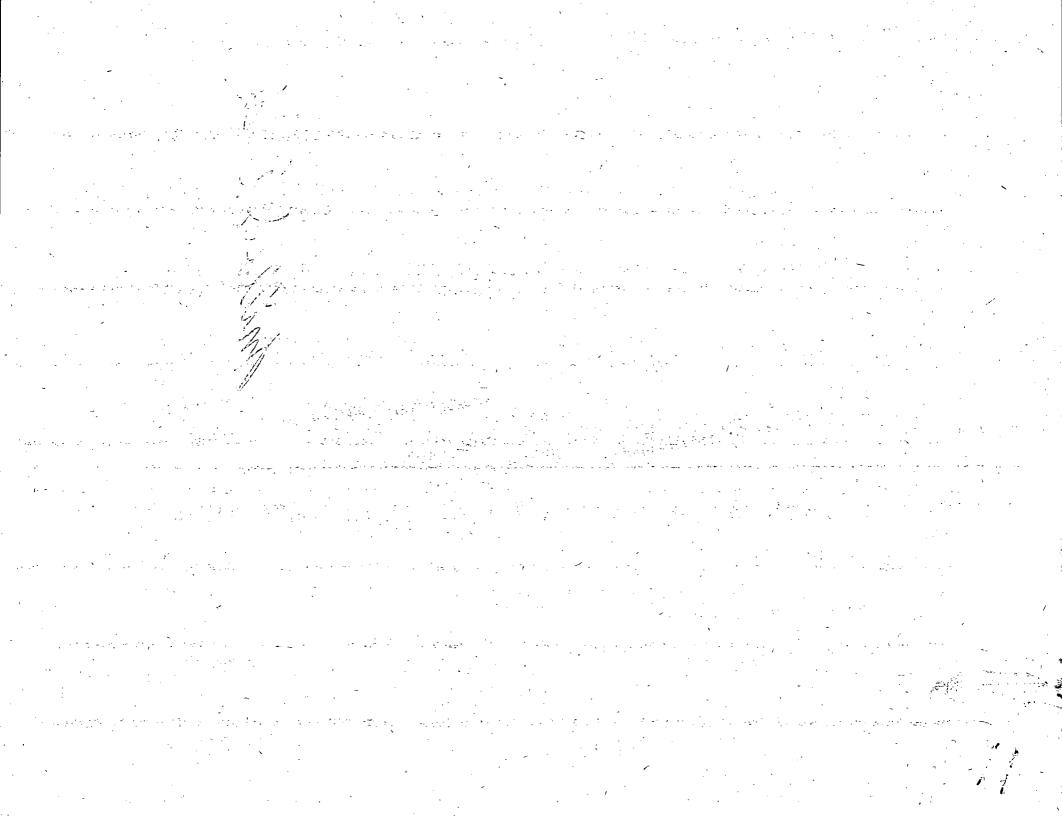
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MD/sjb Enclosures



P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

Doyle Hartman 508 C & K Petroleum Building Midland, Texas 79701

> Re: Enclosed Applications For Administrative Approval For Natural Gas Policy Act Infill Finding For Shell State No. 3.

Gentlemen:

Enclosed you will find copies of our applications to the Oil Conservation Division for the finding required by NGPA 271.304 and 271.305 in accordance with Division Order No. R-6013.

In order to expedite the approval by the OCD, you are requested to execute the Waiver of Objection below and to return one copy for use with the OCD.

Thank you for your cooperation in securing these approvals.

Yours very truly,

Millard Deck

WAIVER OF OBJECTION

Doyle Hartman hereby waives any objection to the drilling of the Millard Deck Shell State No. 3.

Date

11-8-79

P. O. Box 1047, Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

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EUNICE, NEW MEXICO 88231

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Midland, Texas 79701

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Date

11-8-79

NEW MEXICO OIL CONSERVATION COMMISSION GAS WELL SHUT-IN PRESSURE REPORT

Form* C-125 Fevised: 1-1-65

LEA COUNTY, NEW MEXICO BOX 409 - EUNICE, NEW MEXICO JAIMAT - MILLARD DECK PREV. TEST S.I. PRESSURE LOCATION TIME S.I. S.I. PRESSURE LEASE WELL NO. PSIG (DWT) PSIA DATE HRS./ UNIT SEC. TWP. RGE. RUN 36 26 24 Shell State 9-17-69 435 448.2 New Well EL PASO NATURAL GAS COMPANY

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JAL, NEW MEXICO

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JAN 27 1970

NEW MEXICO OIL CONSERVATION COMMISSION GAS WELL SHUT-IN PRESSURE REPORT

Form C-125.
Revised: 1-1-

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CASING SIZE 3.5/8" 4-1/2" SIZE Perforation Record (// 2701', 2707	WEIGHT LB./FT. 24# 10.50# LINER F TOP BO nterval, size and number	CASING RECORD DEPTH SET 305 RECORD SACKS CEM	PO (Report all string HOLE SIZE 12-1/4" 7-7/8" SCREEN 32. DEPTI	355 sack	TURING RECORD (8 TURING R DEPTH SET 2700 RACTURE, CEMENT AMOUNT AND 10,000 SA1	AMOUNT PULLED ed None None FACKER SET NONE SOUEEZE, ETC. KIND MATERIAL USED. 8. gelled bring
CASING SIZE 3.5/8" 4-1/2" SIZE Perforation Record (// 2701', 2707 1/2" hales.	WEIGHT LB./FT. 24# 10.50# LINER F TOP BO nterval, size and number	CASING RECORE DEPTH SET 305 3430 RECORD OTTOM SACKS CEM	PO (Report all string HOLE SIZE 12-1/4" 7-7/8" SCREEN 32. DEPTI	355 sack	TURING RECORD (8 TURING R DEPTH SET 2700 RACTURE, CEMENT AMOUNT AND 10,000 SA1	AMOUNT PULLED ed None None FACKER SET NONE SOUEEZE, ETC. KIND MATERIAL USED. 8. gelled bring
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CASING SIZE 3 • 5 / 8" 4-1/2" SIZE Perforation Record (I 2701', 2707 1/2" holes. the First Production 1/13/69 the of Test 1/17/69	WEIGHT LB./FT. 24# 10.50# LINER F TOP BC nterval, size and number 2709 27 Freduction M Hours Tested Ch 24 Casing Pressure Co	CASING RECORD DEPTH SET 305 3430 RECORD DITTOM SACKS CEM 27) 721 with four Anthod (Flowing, gas lift,	PRODUCTION PRODUCTION Promping = Nize a or Oil - Bbl.	355 Back 30. 30. SIZE 2-3/8 ACID, SHOT, FI HINTERVAL -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721' -(3721	TURING RECORD TURING R DEPTH SET 2700 RACTURE, CEMENT AMOUNT AND 10,000 SA1 with 10,00 Well St Pr Water—Bbl. 105	AMOUNT PULLED ed None None PACKER SET NONE SOUEEZE, ETC. KIND MATERIAL USED. S. gelled brine O# 20-40 sand
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CASING SIZE 3.5/8" 4-1/2" 3. SIZE 1. Perforation Record (I 2701', 2707 1/2" holes. 3. Perforation Production 1/13/69 ate of Test 1/17/69 In Disposition of Gas (S	LINER FTOP BOUNDED TOP BOUNDED TOP BOUNDED TO BOUNDED TO BOUNDED TO BOUND BOUN	CASING RECORD DEPTH SET 305 3430 RECORD OTTOM SACKS CEM Anthod (Flowing, gas lift; 100 Noke Size Prod'n. For Test Perlo 100 Houlded 24- Oil Bbl. our Hote 1.2	Company Comp	355 Back 30. 30. SIZE 2-3/& ACID, SHOT, FI HINTERVAL -(3721' 2721' and type pump) Gas — MCF 1,150 MCF. Wa	TURING RECORD CS TURING R DEPTH SET 3" 2700 RACTURE, CEMENT AMOUNT AND 10,000 SA1 with 10,00 Well St Pr Water — Bb1. 105 Test Witnesse	AMOUNT PULLED ed None None PACKER SET None SOUEEZE, ETC. KIND MATERIAL USED. S. gelled brine Of: 20-40 sand Cas—Oil Ratio 912,000 Dil Gravity—API (Carr.) 38.3 d By
CASING SIZE 3.5/8" 4-1/2" D. SIZE Perforation Record (III) 2701', 2707 1/2" holes. 1/13/69 Ite of Test 1/17/69 ow Tubing Press. 175/ Disposition of Gas (Signal) List of Attuchments	WEIGHT LB./FT. 24# 10.50# LINER F TOP BC nterval, size and number 2709 27 Freduction M Hours Tested Ch 24 Casing Pressure Ca 48 Casing Pressure Ca 540# old, used for fuel, vent	CASING RECORD DEPTH SET 305 3430 RECORD DITTOM SACKS GEM 27) 721 with four Plant Sacks Gem Anthod (Plowing, gas lift, gas) Prod'n. For Test Perlo 3/64" Illulated 24- Oil - Bbl. Our Flate 2d, etc.)	1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26 1.26	355 sac. 36. 37. 37. 37. 37. 37. 37. 37	TUBING RECORD TUBING R DEPTH SET TOBING R DEPTH SET AMOUNT AND 10,000 gal with 10,00 Well St Pr Water — Bbl. 105 Test Witnesse Royce	AMOUNT PULLED ed None None PACKER SET NONE SOUEEZE, ETC. KIND MATERIAL USED S. Selled brine 20-40 sand Cas—Oil Ratio 912,000 Dil Cravity — API (Corr.) 38.3
CASING SIZE 3-5/8" 4-1/2" SIZE Perforation Record (II 2701', 2707 1/2" holes. to First Production 1/13/69 te of Test 1/17/69 ow Tubing Press, 175// Disposition of Gas (S. 301d) List of Attachments Canna Ray	LINER FTOP BC 10.50# LINER FTOP BC nterval, size and number 2709 27 Freduction M Hours Tested Ch 24 48 Casing Pressure Ch 540# old, used for fuel, vent	CASING RECORD DEPTH SET 305 3430 RECORD OTTOM SACKS CEM Anthod (Flowing, gas lift; 100 Noke Size Prod'n. For Test Perlo 100 Houlded 24- Oil Bbl. our Hote 1.2	C (Report all string HOLE SIZE 12-1/4"	355 sac. 30. 30. SIZE 2-3/& ACID, SHOT, FI HINTERVAL -(3721' 2721' 1,150 MCF. WG 150 Ation sux	TUBING RECORD TUBING R DEPTH SET 3" 2700 RACTURE, CEMENT AMOUNT AND 10,000 gal with 10,00 Well St Pr Water—Bbl. 105 Test Witnesse Royce	AMOUNT PULLED ed None None PACKER SET NONE SOUEEZE, ETC. KIND MATERIAL USED: S. gelled brine 20-40 sand Cas—Oil Ratio 912,900 Dil Gravity — API (Corr.) 38.3 d By Crowell
CASING SIZE 3.5/8" 4-1/2" D. SIZE Perforation Record (II 2701', 2707 1/2" holes. 1/13/69 the of Test 1/17/69 ow Tubing Press. 175/ Disposition of Gas (S. 301d) List of Attachments Cannos Ray	LINER FTOP BC 10.50# LINER FTOP BC nterval, size and number 2709 27 Freduction M Hours Tested Ch 24 48 Casing Pressure Ch 540# old, used for fuel, vent	CASING RECORD DEPTH SET 305 3430 RECORD OTTOM SACKS CEM Anthod (I'lowing, gas lift; 10W loke Size Prod'n. For 1culated 24- ur Flate cd, etc.) CASING RECORD Prod'n. For Test Perio 1.2	C (Report all string HOLE SIZE 12-1/4"	355 sac. 30. 30. SIZE 2-3/& ACID, SHOT, FI HINTERVAL -(3721' 2721' 1,150 MCF. WG 150 Ation sux	TUBING RECORD TUBING R DEPTH SET 3" 2700 RACTURE, CEMENT AMOUNT AND 10,000 gal with 10,00 Well St Pr Water—Bbl. 105 Test Witnesse Royce	AMOUNT PULLED ed None None PACKER SET NONE SOUEEZE, ETC. KIND MATERIAL USED: S. gelled brine 20-40 sand Cas—Oil Ratio 912,900 Dil Gravity — API (Corr.) 38.3 d By Crowell

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INSTRUCTIONS

This torm is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The torm is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

	Southeastern	New Mexico	Northwesten	n New Mexico
r. Anhy	1121 T.	Canyon	T. Ojo Alamo	T. Penn. "B"
r. Salt	1313' T.	Strawn	T. Kirtland-Fruitland	T. Penn. "C"
3. Salt	2590	Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	2760° T.	Miss	T. Cliff House	T. Penn. "D"
T. 7 Rivers	<u> 2939 </u>	Devonian	T:: Menefee	T. Madison
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FORMATION RECORD (Attach additional sheets if necessary)

				 	 	
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

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FORMATION RECORD (Attach additional sheets if necessary)

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P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

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



Re:

Application for Administrative
Approval for Natural Gas Policy
Act Infill Finding According to
271.304 an 271.305 for Shell
State No. 3 - Jalmat Tansil Yates
Seven Rivers Gas Pool - 660' FNL
& 2310' FEL, Sec. 36, T24S, R36E,
Lea Counlty, New Mexico

Gentlemen:

Millard Deck respectfully requests your finding, as per requirement in NGPA 271.305, that there is a need for a second well on the previously approved 160 acre proration unit to effectively and efficiently drain Jalmat Pool gas reserves. Your approval is requested in accordance with special rules and reulations set forth under Division Order No. R-6013. The following information is submitted to support our request:

- 1. Copies of Form C-101 and C-102.
- 2. A completion attempt will be made in the Jalmat Gas Pool which has a standard proration unit of 640 acres.
- 3. Division Order NSP-808 established a 160 acre proration unit consisting of the NE/4 SW/4, the E/2 NW/4 and the NW/4 NE/4 Sec. 36-24S-36E. The Shell State No. 3 will be located on the NW/4 NE/4 with the proration unit consisting of the NE/4 NW/4 and the NW/4 NE/4.
- 4. The Shell State No. 3 has not been spudded. The well will be spudded as soon as practical following your approval of this request.
- 5. One well has previously been drilled on the 160 acre proration unit and completed in the same reservoir as the proposed well. It is the Shell State No. 2, located 2310' FNL and 1980' FWL, 36-24-36. It was spudded 1/4/69 and completed 1/13/69 through perforations from 2701' to 2777'. This well has been shut in

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Oil Conservation Division

Page 2

October 16, 1979.

Re: Shell State No. 3

for several years due to excessive water production. The proposed replacement well for the Shell State No. 2 will be moved toward an area which has historically had lower water production.

- 6. A structure map of the area has been prepared with contours on the top of the Yates formation. The proposed well is indicated on the map along with other wells in the area.
- 7. The proposed well will be moved northeastward from the Shell State No. 2 toward an area that has indicated lower water production. Perforations will also be made on a much more selective basis than No. 2. Volumetric calculations and production history from Jalmat gas wells in the area, indicate an additional 350 MMCF of gas will be recovered from this proposed well. These calculations are based on a drainage area of 80 acres, 25' of net pay with 16% average porosity. Reservoir bottom hole pressure is estimated to 450 psi, based on the Shell State No. 2 and other wells in the area.
- 8. Offset operators are listed below along with their addresses. Each operator has been notified of this application and has been requested to execute a Waiver of Objection. Copies of their signed Waiver of Objection are included with this application.

Operator	Address
Phillips Petroleum Co.	P. O. Box 2130
•	Hobbs, NM 88240
Texas Pacific Oil Co.	P. O. Box 4067
	Midland, TX 79701
Barda Hautaran	FOR COL Datus laves D

Doyle Hartman 508 C&K Petroleum Bldg. Midland, TX 79701

Petroleum Corporation of Texas P. O. Box 1842 Midland, TX 79702

Shell Oil Company P. O. Box 1509
Midland, TX 79701

Burleson & Huff P. O. Box 2479
Midland, TX 79701

Millard Deck

NO. OF COPICS RECEIVED			•			50-06	25-24556
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7 7/8"	5 1/2"	15.5#	3500'	·	1200		circulate
	·						
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Production from this well will not be authorized until approval is obtained for the non-standard prorection unit.

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

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator		· · · · · · · · · · · · · · · · · · ·	Lease					Well No.
MILLARD DECK				SHELL STATE			[3
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		dedicated to the we	ell, outline	each and ide	ntify the ow	vnership th	ereof (both as to working
interest ar	nd royalty).			•				
3. If more the	an one lease of d	ifferent ownership is	dedicated	to the well,	have the in	terests of	all ow	ners been consoli-
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∐ Yes	No If a	nswer is "yes," type	ot consoli	dation				 :
If answer	is "no," list the	owners and tract des	scriptions	which have ac	ctually been	consolida	ted, (U	se reverse side of
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MAILGRAM SERVICE CENTER MIDDLETOWN. VA. 22645

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MILLARD DECK PO BOX 1047 EUNICE NM 88231

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THIS IS A CONFIRMATION COPY OF A PREVIOUSLY PHONE-DELIVERED TELEGRAM

SIGNED WAIVER FOR YOUR WELL IN THE NORTHWEST QUARTER NORTHEAST QUARTER SECTION 36 T24S R36E WILL BE DELIVERED TO YOU ONLY WHEN YOU DELIVER TO ME SIGNED FARMOUT LETTER PER PREVIOUSLY AGREED TO TERMS OF A 65 PERCENT NET REVENUE INTEREST TO ME COVERING SOUTHEAST QUARTER NORTHWEST QUARTER SECTION 36 T24S R36E REPLY IMMEDIATELY SINCE YOU WANT TO START YOUR WELL IN THE NORTHWEST QUARTER NORTHEAST QUARTER SECTION 36 MONDAY NOVEMBER 5-1979

DOYLE HARTMAN

1727 EST

MGMCOMP MGM

MILLARD DECK OIL COMPANY P.O. Box 1047 ... Phone (505) 394.0749 FUNICE, HEW MEXICO 88231 October 16, 4079 Texas, Licitic Oil Company of a second P. O. Box 4067 Midfand, Texas Re: Enclosed Applications For Administrative Approval For Natural Cas Policy Ac La Taranding Rose Reils State No. 3. Enclosed you will find copies of our applications to the enservation Division for the finding required by NEPA 271.304 and 271.305 in accordance with Division Order No. R.6013. in order to expedite the approval by the OCD, you are requested to execute the Walver of Objection below and to return one copy Thank you for your cooperation in scenting these approvals. Yours very truly,

Millard Deck

Waiver of Objection.

Texas Pacific Oil Company hereby waives any objection to the drilling of the Millard Deck Shell State No. 3.

By 12 AWomack m

R. J. Womack - Regional Manager

Date 10/19/79

The state of the state of the state of

P. O. Box 1047

Phone (505) 394-2249

TUDICL, HEW MEXICO 88231

October 16, 1979

Pexa's Pacific Oil Company P. O. Box 4067 Midland, Texas 79701

Re: Enclosed Applications For Administrative Approval For Natural Gas Colley Act Infill Finding For Chely State No. 3.

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R. J. Womack - Regional Manager

Date 10/19/79

P. O. Box 1047 Phone (505) 394-2249
EUNICE, NEW MEXICO 88231
October 16, 1979

Shell Oil Company P. O. Box 1509 Midland, Texas 79701

> E: Enclosed Applications For Administrative Approval For Natural Gas Policy Act Infill Finding for Shell State No. 3.

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Thank you for your cooperation in securing these approvals.

Mours very truly,

Millard Deck

Waiver of Objection

Shell Oil Company waives any objection to the drilling of the Millard Deck Shell State No. 3.

DATE

10-26-7

P. O. Box 1047

Liver Land Commission of the C

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

Burleson & Huff P. O. Box 2479 Midland, Texas 79701

> Enclosed Applications For Administrative Approval For Natural Gas Policy Act. Infill Finding For Shell State No. 3.

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Millard Deep

Millard Deck

Waiver of Objection

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the Millard Deck Shell State No. 3.

Date (1, 72/

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Addition to Death

Walver ef Objection

Petrolaum Corporation o. Texas herrby walvestany. Millard: Deck Shall State No. 3.

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P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

Petroleum Corporation of Texas P. O. Box 1842 Midland, TX 79701

> Re: Enclosed Applications For Administrative Approval For Natural Gas Policy Act Infill Finding For Shell State No. 3

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Millard Deck

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By Corporation of Texas

By Corporation of Texas

P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

Phillips Petroleum Comapny P. O. Box 2130 Hobbs, New Mexico 88240

Re: Enclosed Applications For Administrative Approval For Natural Gas Policy Act Infill Finding For Shell State No. 3.

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Millan Dech

Millard Deck

Waiver of Objection

Phillips Petroleum Company hereby waives any objection to the drilling of the Millard Deck Shell State No. 3.

Director, Reservoir Engineering

Date 10/24/7

Odessa Area, Southeastern Region

P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

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

NOV 7 - 1979

OIL CONSERVATION DIVISION
SANTA FE

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Re: Application for Administrative
Approval for Natural Gas Policy
Act Infill Finding According to
271.304 an 271.305 for Shell
State No. 3 - Jalmat Tansil Yates
Seven Rivers Gas Pool - 660' FNL
& 2310' FEL, Sec. 36, T24S, R36E,
Lea Counity, New Mexico

Gentlemen:

Millard Deck respectfully requests your finding, as per requirement in NGPA 271.305, that there is a need for a second well on the previously approved 160 acre proration unit to effectively and efficiently drain Jalmat Pool gas reserves. Your approval is requested in accordance with special rules and reulations set forth under Division Order No. R-6013. The following information is submitted to support our request:

- 1. Copies of Form C-101 and C-102.
- 2. A completion attempt will be made in the Jalmat Gas Pool which has a standard proration unit of 640 acres.
- 3. Division Order NSP-808 established a 160 acre proration unit consisting of the NE/4 SW/4, the E/2 NW/4 and the NW/4 NE/4 Sec. 36-24S-36E. The Shell State No. 3 will be located on the NW/4 NE/4 with the proration unit consisting of the NE/4 NW/4 and the NW/4 NE/4.
- 4. The Shell State No. 3 has not been spudded. The well will be spudded as soon as practical following your approval of this request.
- 5. One well has previously been drilled on the 160 acre proration unit and completed in the same reservoir as the proposed well. It is the Shell State No. 2, located 2310' FNL and 1980' FWL, 36-24-36. It was spudded 1/4/69 and completed 1/13/69 through perforations from 2701' to 2777'. This well has been shut in

Oil Conservation Division Page 2

October 16, 1979

Re: Shell State No. 3

for several years due to excessive water production. The proposed replacement well for the Shell State No. 2 will be moved toward an area which has historically had lower water production.

- 6. A structure map of the area has been prepared with contours on the top of the Yates formation. The proposed well is indicated on the map along with other wells in the area.
- 7. The proposed well will be moved northeastward from the Shell State No. 2 toward an area that has indicated lower water production. Perforations will also be made on a much more selective basis than No. 2. Volumetric calculations and production history from Jalmat gas wells in the area, indicate an additional 350 MMCF of gas will be recovered from this proposed well. These calculations are based on a drainage area of 80 acres, 25' of net pay with 16% average porosity. Reservoir bottom hole pressure is estimated to 450 psi, based on the Shell State No. 2 and other wells in the area.
- 8. Offset operators are listed below along with their addresses. Each operator has been notified of this application and has been requested to execute a Waiver of Objection. Copies of their signed Waiver of Objection are included with this application.

Operator	Address
Phillips Petroleum Co.	P. O. Box 2130
	Hobbs, NM 88240
Texas Pacific Oil Co.	P. O. Box 4067
	Midland, TX 79701
Doyle Hartman	508 C&K Petroleum Bldg.
	Midland, TX 79701
Petroleum Corporation of Texas	P. O. Box 1842

Midland, TX 79702

Shell Oil Company P. O. Box 1509 Midland, TX 79701

Burleson & Huff P. O. Box 2479
Midland, TX 79701

Yours very truly

Millard Deck

Enclosures

		T-24-S, R-36-E	Annual for the	
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588	485 Harrison	2-2-404	Van Zandt	361
Tex-Pacific 579 Watkins	Shell 586		Proposed Location 42	21
Tex-Pacific 75.2	588	poyle	Hartman Petco	2
Ares Rrod.				1.5

prints suggestor	State User		ckcej 🗒			
Signey Mullo	Del	Tute Owner	,	·	Date10/	′23/79
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23.		ROPOSED CASING AND	CEMENT PROGRAM			
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P. O. Box 1047, Eur	R	660	Nor	th	Jalma	t Gas
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Millard Deck			,	<i>i</i>	9. Well No.	
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APPROVED BY W. NUMAN TITLE NOV 5 1970 CONDITIONS OF APPROVAL, IF ANY: Production from this well will not be authorized until approval is obtained for the non-standard proretion unit.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

	<u>.</u>	All distances	must be from the	he outer boundaries of	the Section.		
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Unit Letter	Section	Township		Range	County	i i	
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MILLARD DECK PO BOX 1047 EUNICE NM 88231

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SIGNED WAIVER FOR YOUR WELL IN THE NORTHWEST QUARTER NORTHEAST QUARTER SECTION 36 T24S R36E WILL BE DELIVERED TO YOU ONLY WHEN YOU DELIVER TO ME SIGNED FARMOUT LETTER PER PREVIOUSLY AGREED TO TERMS OF A 65 PERCENT NET REVENUE INTEREST TO ME COVERING SOUTHEAST QUARTER NORTHWEST QUARTER SECTION 36 T24S R36E REPLY IMMEDIATELY SINCE YOU WANT TO START YOUR WELL IN THE NORTHWEST QUARTER NORTHEAST QUARTER SECTION 36 MONDAY NOVEMBER 5 1979

DOYLE HARTMAN

1727 EST

MGMCOMP MGM

P. O. Box, 1047

Phone (505) 324 2249

TUNICL, HEW MEXICO 88231

October 16, 1979

Texas Facilic Oil, Company P. O. Box 4067 Midjand, Texas 79701 ...

> Enclosed Applications for Admin[strative Approvat] For Natural, Gas bulley Act Infill Finding For Shorts State No. 3. -:

Guntlemon:

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In order to expedite the approval by the OCD, you are requested to execute the Waiver of Objection below and to return one copy

Thank you for your cooperation in securing these approvils.

Yours very Lruly,

Millord Deck

Waiver of Objection

Texas Pacific Oil Company hareby waives any objection to the drilling of the Millard Dock Shell Spare No. 3.

R. J. Womack - Regional Manager

Date 10/19/79

P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

Shell Oil Company
P. O. Box 1509
Midland, Texas 79701

RE: Enclosed Applications For Administrative Approval For Natural Gas Policy Act Infill Finding for Shell State No. 3.

Gentlemen:

Enclosed you will find copies of our applications to the Oil Conservation Division for the finding required by NGPA 271.304 and 271.305 in accordance with Division Order No. R-6013.

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millord Deck

Millard Deck

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Millard Deck Shell State No. 3.

DATE<u> 10-20-79</u>

P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979.

Burleson & Huff P. O. Box 2479 Midland, Texas 79701

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Millard Deck

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De Jan Blockson

P. O. Box 1047

Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

Petroleum Corporation of Texas P. O. Box 1842 Midland, TX 79701

> Re: Enclosed Applications For Administrative Approval For Natural Gas Policy Act Infill Finding For Shell State No. 3

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PETROLEXM CORPORATION OF TEXAS

By.

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P. O. Box 1047 Phone (505) 394-2249

EUNICE, NEW MEXICO 88231

October 16, 1979

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Director, Reservoir Engineering

Date 10/24/79

Odessa Area, Southeastern Region

