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

ADMINISTRATIVE ORDER

NFL_125

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

I.

Operator	Zia Energy, Inc.	_ Well Name and No	Toby Well No. 2	
Location:	Unit <u>H</u> Sec. <u>13</u> Twp. <u>24S</u>	Rng. <u>36E</u> Cty	Lea	
T T				

THE DIVISION FINDS:

STATE OF HEW HENICO

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

(4)	Tha	ta	40	acre	e prora	tion unit	COI	mprising th	ne <u>SE/4</u>	NE	/4	· · · · · · · · · · · · · · · · · · ·	
of	Sec.	13_	, Twp.	<u>245</u>	, Rng.	<u>36E</u> ,	i.s	currently	dedicated	to	the	applicant's Toby	_
Wel	L1 No.	. 1]	located	in Unit	H	of said	section.				

(5) That this proration unit is (X) standard () nonstandard; if nonstandard, said unit was previously approved by Order No. _____NA ____.

(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 90,000 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 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) That jurisdiction of this cause is retained for the entry of such further orders as the Division may doem necessary.

DONE	at	Santa	Fe,	New	Mexico,	on	this_	14th	day	of	February		_, 1	9 <u>86</u>	<u>.</u>
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DIVISION DIRECTOR EXAMINER

cc: NMOCD Hobbs NMO&GEC - Hobbs

OIL CONSERVATION DIVISION Release Amediately
/ P. O. Box 2088 -
STATE OF NEW MEXICO SANTA FE, NEW MEXICO ADMINISTRATIVE_ORDER ERGY AND MINERALS DEPARTMENT 87501 NFL2 S
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
Deperator_ Zia Energy, Inc Well Name and No. <u>Toby Well No. 2</u>
Decation: Unit_ <u>H</u> _Sec. <u>13</u> _Twp. <u>24 South</u> Rng. <u>36 East</u> _Cty. <u>Lea</u>
u.
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 <u>Langlic Mattix</u>
Pool, and the standard spacing unit in said pool is <u>40</u> acres. (4) That a <u>40</u> acres proration unit comprising the <u>$SE/y = 4E/y = 4E/y = 1$</u>
of Sec. <u>13</u> , Twp. <u>24 South</u> , Rng. <u>36 East</u> , is currently dedicated to the <u>applicant's Toby</u> <u>Well No. 1</u> located in Unit <u>H</u> of said section.
(5) That this proration unit is (\checkmark) 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.
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OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE

4.

87501

GOVERNOR **BRUCE KING** CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

STATE GEOLOGIST A. L. PORTER, JR. **SECRETARY – DIRECTOR**

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May 17, 1985

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

> Re: Section 103 Price Determination For the Zia Energy, Inc. Toby No. 2 well under Section 271.305 (b) (1) of NGPA of 1978 Regulations

Gentlemen:

Enclosed is a complete application for Section 103 Natural Gas Price determination for the Toby No. 2 well located in the SE/4-NE/4, Section 13, T24S, R36E, under NGPA of 1978 regulations Section 271.305 (b) (1) - New Onshore Production Well - an infill well on a proration unit which was in existence at the time the surface drilling of the Toby No. 2 was begun.

All of the attachments have been included as required on the OCD Form C-132 and by OCD Rule 18 along with additional information as required in OCD Order No. R-6013-A. Order No. R-6013-A Rule nos. 1 through 11 requested several items be furnished with the application. A copy of OCD Form Nos. C-101 and C-102 have been included. The name of the pool is the Langlie Mattix Queen, Seven Rivers which has a standard 40 acre spacing unit. Rule No. 8 requires a description of all wells drilled on the proration unit.. A copy of the OCD Form C-105 (Well Record) for each of the wells is included. The current rate of production for the Toby No. 1 is 5 BOPD, 305 BWPD and 160 MCF/day. The production rate for the Toby No. 2 is 25 BOPD, 45 BWPD and 50 MCF/day. In order to supply the information requested in Rule 8 (g), a plat of the SE/4 - NE/4 Sec. 13 has been included with this 40 acre tract highlighted in yellow. From this plat you will notice that two injection wells in the Texaco Cooper Jal Unit offset this tract. They are wells nos. 104 and 233. The waterflood sweep pattern from these two wells can only push approximately 25% of this tract into the Toby No. 1. The remaining 75% is on beyond the Toby No. 1 well but much of this 75% can be recovered by the Toby No. 2 well. Because of the location of the Toby No. 1, well, it alone cannot effectively and efficiently drain all of this proration unit, thereby resulting in waste. Toby No. 2 is needed to effectively and efficiently drain this proration unit and to protect correlative rights.

Rule 9 requests geological and engineering information to support a finding as to the necessity for an infill well. From the enclose Borehole Compensated Neutron/ Density Porosity Log you will note that zones in the Queen formation has been perforated with 39' having 10% porosity or greater. Based on this log and a current producing rate of 25 BOPD, it is estimated that an additional 45,000 barrels of oil will be recovered due to the infill Toby No. 2 well. Also, as already noted on the plat, two injection wells will be more effective in sweeping oil in-place on this tract to the Toby No. 2 than to the Toby No. 1. A bottom hole pressure test run on the Toby No. 2 well indicated 689 psi BHP. This is an indication that this reservoir has received an increase in resevoir pressure due to the water injection, but this area could never be drained by the Toby No. 1.

Rule 11 concerns notification of offset operators to this proration unit. The two offset operators are ARCO Oil and Gas Company and Texaco, Inc. Copies of this application have been mailed to each of them by certified mail. A copy of the mailing receipt is enclosed.

From this information it is our opinion that the infill Toby No. 2 well is in fact necessary to effectively and efficiently drain the SE/4 - NE/4 Sec. 13 and protect correlative rights of the royalty owners and working interests in this lease. We have no information or knowledge that is contrary to this opinion.

If you need any additional information, please call on us.

Yours truly,

Farris Delson

Farris Nelson

50,000 CF/Amy/25 MOPP * 45000/100 = 90,000 ACF

LOGGING NEUTRON / DENSITY POROSITY LOG

FILE NO.		ATA ENDOW		
API NO.		ZIA ENERGI	INCORPORATED	
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	FIELD	LANGLIE MAT	TIX	
	COUNTY_	LEA	STATE	NEW MEXICO
	LOCATION:	990' FEL &		Other Services
	SEC 13		<u>-S</u>	
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Run No.	ONE			·
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Depth-Driller	3800'			+
Depth-Logger	3796'			
Bottom Logged Interval	3794			<u> </u>
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Casing-Driller	8 5/8" @379	<u> </u>	@	@
Casing-Logger	3901			
Bit Size	7 7/8"			
Type Fluid in Hole	SW GEL/STAR			
Density and Viscosity	10.2 32			
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Recorded By	D. POULSEN			
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No. 4, from

NEW MEXICO OLL CONSERVATION COMMISSION

WELL RECORD

Mail to Oil Conservation Commission, Sants Pe, New Mexico, or its proper agent not more than twenty days after completion of well Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

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Company of Toby		in SE/4 of HE	401 Sec13	····., T.	24 3	
R	Langlie Nattix	Field,	Lea			county.
Well is 2310 feet south of						
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If patented land the owner is	Fotler Heir (Surf	xce)	Address	Ial, Nov 1	iextoo	
If Government land the permitte	ee is		, Address			
The Lessee is		•	, Address			
Drilling commenced	-5019	Drilling was co	mpleted	9-21-50		
Name of drilling contractor	011 Well Renedial	Service		Box 511 -	Odossa,	Texas
Elevation above sea level at top	of casing 3001	feet.	•			
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CASING	REC	ORD
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MUDDING AND CEMENTING RECORD

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FORMATION RECORD

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No. 4, from.

NEW MEXICO OIL CONSERVATION COMMISSION

WELL RECORD

Mail to Oil Conservation Commission. Sants Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

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Tq		or Operator 	in SE/4 of IE	/401 Sec	Address	т. 24.5	
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		of the North line and				•	
If State land t	he oil and gas le	ase is No	Assignment No			•	، م ب
If patented la	nd the owner is	Foller Heir (Sur	<u>face)</u>	, Addre	as Ial, Net	. Maxico	
If Government	land the permi	ittee is		Addre			
The Lessee is.	•		1	, Addre	i 2 58		******
Drilling comm	nenced	9-50	Drilling was co	mpleted	9-21-50)1	9
Name of drillin	ng contractor	Oil Well Remodia	l Service	Addre		- Odossa	, Texas
Elevation abov	e sea level at to	op of casing <u>3001</u>		•			
The information	on given is to be	kept confidential until	Not Confidentie	al.		•	,
	· ·	OIL	SANDS OR ZONES				
No. 1, from	3499	to 3502		3599	to	3604	
No. 2, from	3 533	to3537		3608	to	3611	
No. 3, from	3568	to3572	No. 6, from		to	****	
	• •	IMPOR:	CANT WATER SANDS	*			
Include data or	a rate of water i	nflow and elevation to w					
No. 1, from	Nono			feet		*****	
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No. 3, from	1			feet		******	

CASING RECORD

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5	15.5	8	llon	3450	Float				

MUDDING AND CEMENTING RECORD

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BIZE OF HOLE	HIZE OF CASING		NO. RACKR Of Cement					OUNT OF MUD	
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			RECORD OF S	HOOTING OR CHI	EMICAL TREA	TMENT			
BIZE	SHEL	L USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH S OR TREA	SHOT TED	DEPTH CLEAN	ED OUT
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lova	approxd	mately 15	barrells of	oil per 24 ho	179	•			
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•		·	RECORD OF	'DRILL-STEM ANI) SPECIAL TE	ests		. •	
		· ·							
drill-ste	em or othe	er special tests	or deviation sur	veys were made, sub	mit report on a	separate she	eet and	attach hereto.	۰.
drill-ste Tat	em or othe 3148 in	er special tests Jates -	or deviation sur Halliburton	tool used - g	as and no a	separate she show of c	et and	attach hereto.	
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FORMATION RECORD

FROM	TO	Thiokness In Peet	FORMATION
0	240	240	Red Bed
240	550	310	Sandy shale
550	1165	615	Red and blue shale with sand and red bed streaks
1165	1272	107	Anhydrito
1272	2765	1493	Salt with anhydrite streaks Anhydrite and gyp
2765	28/50 2930	95 120	Brown Line
2360 2980	3499	519	Line with sandy line, anhydrite, shale streaks
3499	3502	3	Sand
3502	3533	31	Lime
3533	3537	4	Sandy lime
3537	3568	4 31	Line
3568	3572	4	Sand
3572	3599	27	Line
3599	3604	- 5	Sandy line
3604	3603	4	Line
3608	3611	3.	Sand
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ARCO Oil and Gas Company P.O. Box 1710 Hobbs, NM 88240

> Re: Application for NGPA of 1978 Section 103 Gas Price Determination For Toby No. 2 well.

Gentlemen:

P. O. BOX 2219

Enclosed is a complete copy of our application to the Department of Energy and Minerals, Oil Conservation Division, as jurisdictional agency, requesting that our Toby No. 2 well receive Section 103 price for gas production.

You should note that ARCO has a .10937 overriging royalty on all oil production and .25000 overriging royalty on all gas production.

You are being supplied a copy of this application because you are an offset operator. If you have any questions, please call on us.

Yours truly,

Farries Delson

Farris Nelson

May 17, 1985

Texaco, Inc. P.O. Box 730 Hobbs, NM 88240

> Re: Application for NGPA of 1978 Section 103 Gas Price Determination For Toby No. 2 well.

PHONE (505) 898-2987

Gentlemen:

Enclosed is a complete copy of our application to the Department of Energy and Minerals, Oil Conservation Division, a jurisdictional agency, requesting that our Toby No. 2 well receive Section 103 price for gas production.

You are being supplied a copy of this application because you are an offset operator. If you have any questions, please call on us.

Yours truly,

Farris Delson

Farris Nelson



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

> Re: Section 103 Price Determination For the Zia Energy, Inc. Toby No. 2 well under Section 271.305 (b) (1) of NGPA of 1978 Regulations

Gentlemen:

P. O. BOX 2219

Enclosed is a complete application for Section 103 Natural Gas Price determination for the Toby No. 2 well located in the SE/4-NE/4, Section 13, T24S, R36E, under NGPA of 1978 regulations Section 271.305 (b) (1) - New Onshore Production Well - an infill well on a proration unit which was in existence at the time the surface drilling of the Toby No. 2 was begun.

All of the attachments have been included as required on the OCD Form C-132 and by OCD Rule 18 along with additional information as required in OCD Order No. R-6013-A. Order No. R-6013-A Rule nos. 1 through 11 requested several items be furnished with the application. A copy of OCD Form Nos. C-101 and C-102 have been included. The name of the pool is the Langlie Mattix Queen, Seven Rivers which has a standard 40 acre spacing unit. Rule No. 8 requires a description of all wells drilled on the proration unit.. A copy of the OCD Form C-105 (Well Record) for each of the wells is included. The current rate of production for the Toby No. 1 is 5 BOPD, 305 BWPD and 160 MCF/day. The production rate for the Toby No. 2 is 25 BOPD, 45 BWPD and 50 MCF/day. In order to supply the information requested in Rule 8 (g), a plat of the SE/4 - NE/4 Sec. 13 has been included with this 40 acre tract highlighted in yellow. From this plat you will notice that two injection wells in the Texaco Cooper Jal Unit offset this tract. They are wells nos. 104 and 233. The waterflood sweep pattern from these two wells can only push approximately 25% of this tract into the Toby No. 1. The remaining 75% is on beyond the Toby No. 1 well but much of this 75% can be recovered by the Toby No. 2 well. Because of the location of the Toby No. 1, well, it alone cannot effectively and efficiently drain all of this proration unit, thereby resulting in waste. Toby No. 2 is needed to effectively and efficiently drain this proration unit and to protect correlative rights.

Rule 9 requests geological and engineering information to support a finding as to the necessity for an infill well. From the enclose Borehole Compensated Neutron/ Density Porosity Log you will note that zones in the Queen formation has been perforated with 39' having 10% porosity or greater. Based on this log and a current producing rate of 25 BOPD, it is estimated that an additional 45,000 barrels of oil will be recovered due to the infill Toby No. 2 well. Also, as already noted on the plat, two injection wells will be more effective in sweeping oil in-place on this tract to the Toby No. 2 than to the Toby No. 1. A bottom hole pressure test run on the Toby No. 2 well indicated 689 psi BHP. This is an indication that this reservoir has received an increase in resevoir pressure due to the water injection, but this area could never be drained by the Toby No. 1.

Rule 11 concerns notification of offset operators to this proration unit. The two offset operators are ARCO Oil and Gas Company and Texaco, Inc. Copies of this application have been mailed to each of them by certified mail. A copy of the mailing receipt is enclosed.

From this information it is our opinion that the infill Toby No. 2 well is in fact necessary to effectively and efficiently drain the SE/4 - NE/4 Sec. 13 and protect correlative rights of the royalty owners and working interests in this lease. We have no information or knowledge that is contrary to this opinion.

If you need any additional information, please call on us.

Yours truly,

Farris Delson

Farris Nelson



May 1 () 170

ARCO Oil and Gas Company P.O. Box 1710 Hobbs, NM 88240

> Re: Application for NGPA of 1978 Section 103 Gas Price Determination For Toby No. 2 well.

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You should note that ARCO has a .10937 overriging royalty on all oil production and .25000 overriging royalty on all gas production.

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May 17, 1985

Texaco, Inc. P.O. Box 730 Hobbs, NM 88240

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Farris Delson

Farris Nelson



• Producing Oil Well

• P & A Well

O Gas Well

• Water Injection Well

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ZIA ENERGY, INC. Application For NGPA Sec. 10 Toby No. 2



- Producing Oil Well
- P & A Well
- O Gas Well

• Water Injection Well

ZIA ENERGY, INC. Application For NGPA Sec. 103 Toby No. 2

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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT 55

Form C-102 Supercedes

170

ZIA ENERGY	, INC.		TOBY	Well Nc.
ter Section	13 Township	24S Roma	Generation Count	LEA
ootage Location of We	11:		_	
1650 test from	the <u>NORTII</u> ducing Formation	line and 990 Pool	feet from th	he EAST line Dedicated Acreage:
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Jutline the acreag	e dedicated to the	e subject well by co	lored pencil or hach	ure marks on the plat below.
f more than one i	lesse is dedicated	to the well, outline	e ach and identify t	he ownership thereof (both as to working
nterest and royalty			• •	
more than one le	ase of different o	wnership is dedicated	d to the well. have t	he interests of all owners been consoli
		, force-pooling. etc?		
Yes X No	If answer is *	'yes!' type of consoli	dation	
		d tract descriptions	which have actually	been consolidated. (Use reverse side o
his form if necesse to allowable will b		vell until all interest	s have been consoli	idated (by communitization, unitization
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				I hereby certify that the information can tained herein is true and complete to the
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	Blan	ket on file				
	· ·	PROPOSED CASING AND	CEMENT PROGRAM			· · ·
SIZE OF HOLE	SIZE OF CASING		SETTING DEPTH			
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		a second se	00001			
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