DISTRICT I BITRICT II

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State of New Mexico
Energy, Minerals and Natural Rasources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

Form C-107-A New 3-12-96 APPROVAL PROCESS EXISTING WELLBORE

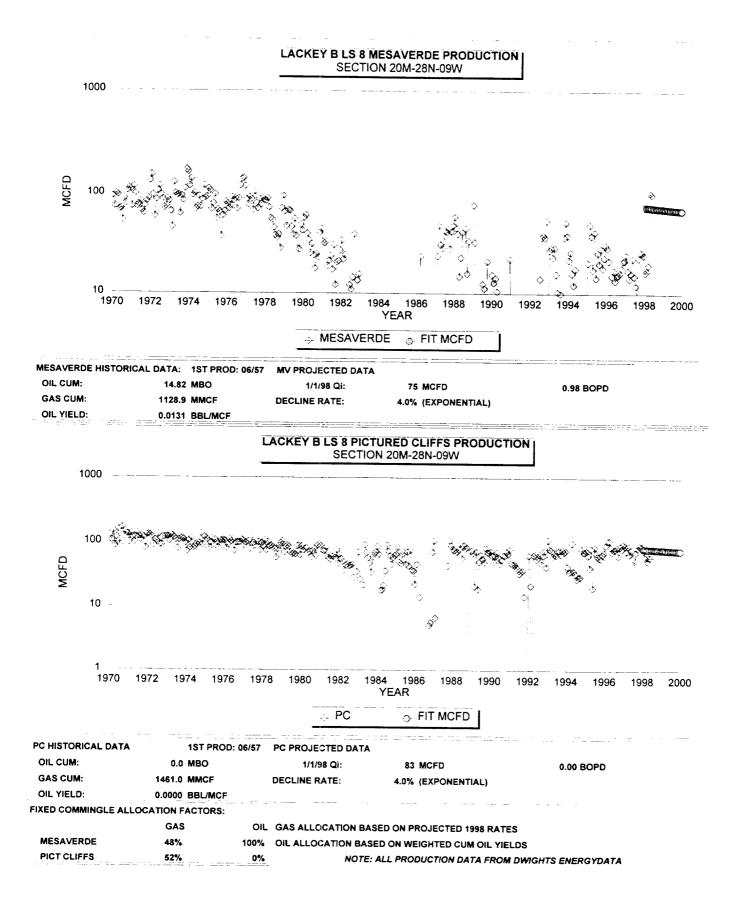
d11 South First St. Artesia NM 88210-2835

DISTRICT III 1505 Rio Brazos Rd. Azleci NM d/410 1693

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc		10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500			
ackey B LS	#8	Section 20, T-28-N, R-9	9-W, M San Juan		
OGRIO NO 005073 Property Coc			Spacing Unit Lease Types (check 1 or more) deral . State (and/or) Fee		
The following facts are submitted in support of downhole comminging	Upper Zone	intermediale Zone	Lower Zone		
1 Pool Name and Pool Code	Aztec Pictured Cliffs 71280		Blanco Mesaverde 72319		
2 TGP and Bottom of Pay Section (Perforations)	2040-2082'		4288-4424'		
2 Type of production (Oil or Gas)	Gas	DECEIN	760 Gas		
Method of Production (Flowing or Artificial Lift)	Flowing	AUG	Flowing		
5 Bottomnole Pressure Oil Zones - Artilicial Lift Estimated Current Gas 3 Oil - Flowing All Gas Zones Estimated Oil Measured Original	221 b(Original)	OUL COM. [1	98 419 DIV,		
6 On Gravity (*API) or Gas BT Content	1150		1200		
7 Producing or Shut-In?	Producing		Producing		
Production Marginal? (yes or no)	Yes		Yes		
If Shut-In give date and oil/gas/ water rates of lisst production Note For new comes with no production history approach shad be required to affect production.	Date Rales	Date Rates	Date Rates		
estoti axes and supporting data. If Producing, date and oiligas/ water lates of recent test within 60 days)	Bales 8/97 Rates 78 MCFD, O BOPD, O BWPD	Date Rales	Date 8 97 Rates 19 MCFD, O.4 BOPD, O BWPD		
d Fixed Percentage Allocation Formula -13 or each zone	0 52		. 100 48		
on Are all working, overriding, an if not, have all working overriding, an if not, have all working overriding. The all offset operators been will cross-flow occur? X Y flowed production be recovered. Are all produced fluids from all will the value of production be if this well is on, or community. United States Bureau of Land NMOCD Reference Cases for fig. ATTACHMENTS	ofting data and/or explaining diroyally interests identical in ding, and royally interests begiven written notice of the proses. No If yes, are fluids of did and will the allocation form I commingled zones compatible decreased by commingling? zed with, state or federal land Management has been notified. Rule 303(D) Exceptions:	method and providing rate all commingled zones? en notified by certified mai posed downhole commingly ompatible, will the formation and be reliable. X Yes alle with each others Yes X No is, either the Commissione and in writing of this application.	ing? Yes No ins not be damaged, will any cros No (If No, attach explanation X Yes No (If Yes, attach explanation) or of Public Lands or the tion X Yes No Dual Produced Order # IDC-418		
Production carve fo For zones with no p Data to support allor Notification list of a Notification list of s Any additional state	reach zone for at least one yeroduction history, estimated peration method or formula. If offset operators working, overriding and royal ments, data, or documents reconstitutions, data, or documents above is true and complete.	car. (If not available, attacoroduction rates and supports) interests for uncommon quired to support comming to the best of my knowled	h explanation () orting data interest cases cling ge and belief		
GNATURE THEY	Paddox	TITLE Regulatory Agent	DATE August 12, 1998		
PE OR PRINT NAME Kay Made		TELEPHONE N			

TELEPHONE NO. (915) 686-5798



DESCRIPTION: WELL NAME :	Mesaverde Forr Lackey B LS 8 (•	•	e based o	on ISIP
GAS GRAVITY:	0.70	% N:	•	0.40	%
CONDENSATE (YES=1)	: 1	% C	02	0.85	%
RESERVOIR TEMP:	150 'F	% H:	2S	0.00	%
SURFACE TEMP:	60 'F	Pc =		667.68	
DEPTH OF ZONE:	4,356 feet	Tc =		381.89	
SURFACE PRES	BHP psi	Z	BHP/Z psi		
1,081	1,222	0.8704	1,404		

DESCRIPTION: Mesaverde Formation - current pressure based on SIP WELL NAME: Lackey B LS 8 (20M 28N 09W)

0.70 % N2 0.40 % **GAS GRAVITY:** 0.85 % % CO2 CONDENSATE (YES=1): 1 RESERVOIR TEMP: 150 'F % H2S 0.00 % Pc = 667.68 SURFACE TEMP: 60 'F **DEPTH OF ZONE:** 4,356 feet Tc = 381.89

 SURFACE PRES
 BHP
 Z
 BHP/Z

 psi
 psi
 psi

 376
 419
 0.9511
 440

DESCRIPTION:	Pictured Cliffs	Formation - original	pressure based on ISIP
WELL NAME :	Lackey B LS 8	(20M 28N 09W)	
GAS GRAVITY:	0.65	% N2	0.25 %
CONDENSATE (YES=1)	: 0	% CO2	0.80 %
RESERVOIR TEMP:	115 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	673.92
DEPTH OF ZONE:	2,061 fee	et Tc =	372.60

SURFACE PRES	BHP	Z	BHP/Z
psi	psi		psi
634	667	0.9137	730

DESCRIPTION: Pictured Cliffs Formation - current pressure based on SIP

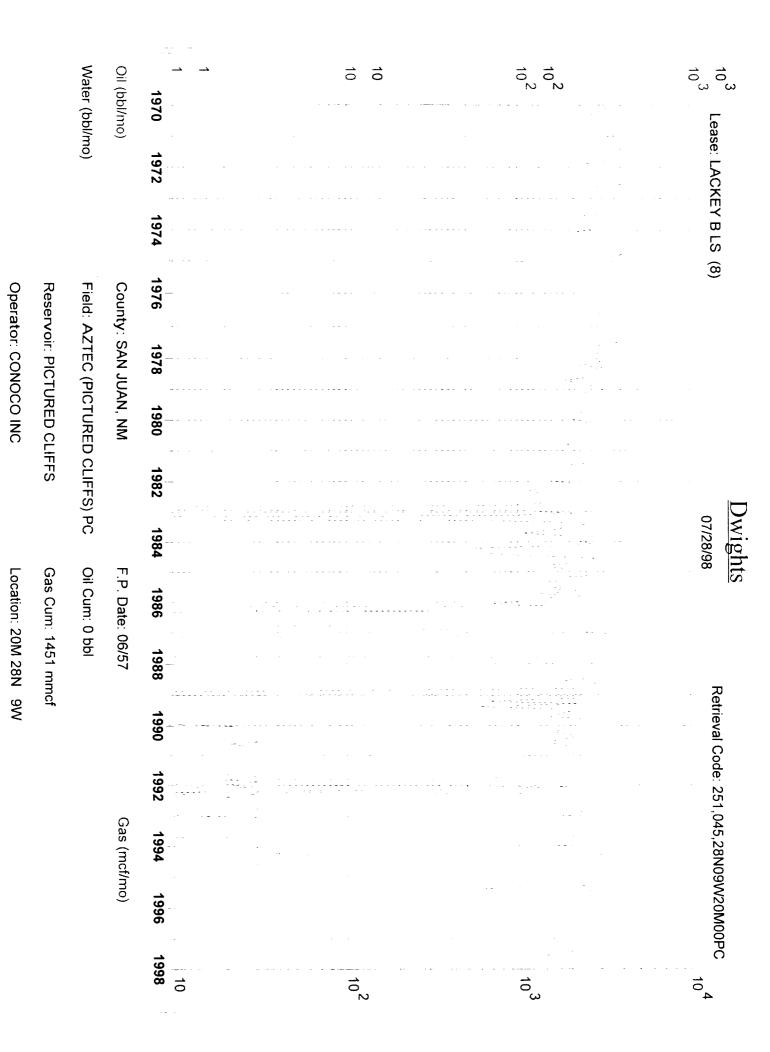
WELL NAME: Lackey B LS 8 (20M 28N 09W)

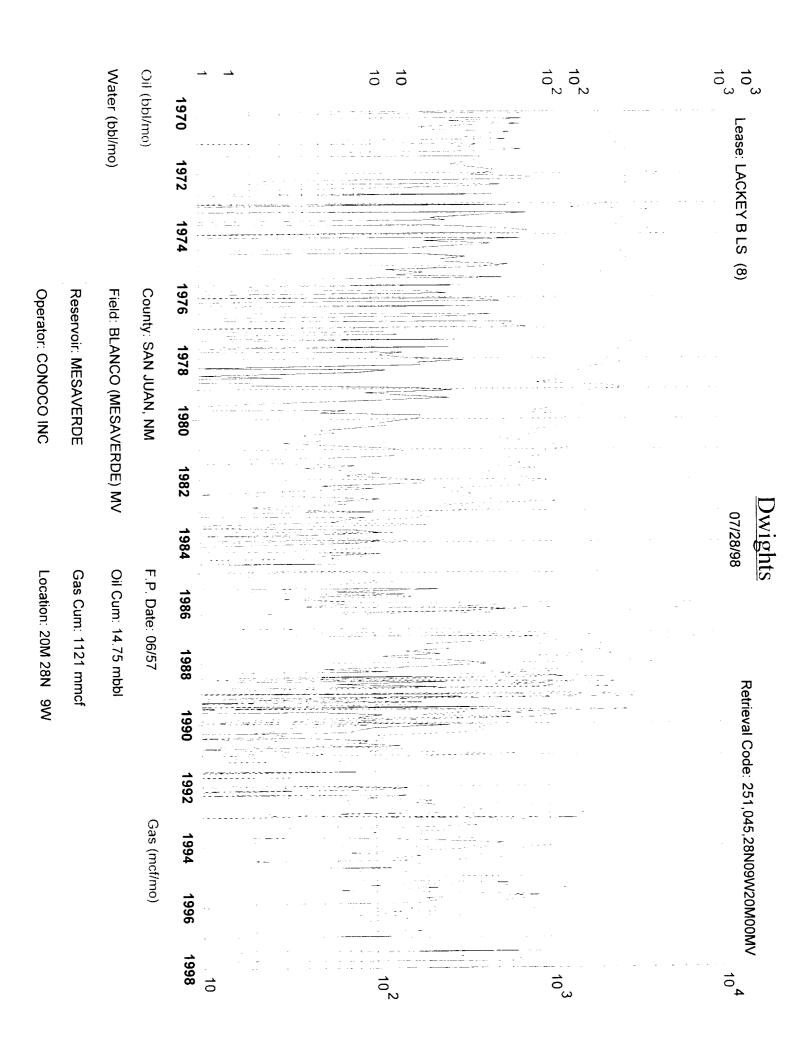
0.65 % N2 0.25 % **GAS GRAVITY:** % CO2 0.80 % CONDENSATE (YES=1): 0 % H2S 0.00 % RESERVOIR TEMP: 115 'F 673.92 SURFACE TEMP: 60 'F Pc = 372.60 **DEPTH OF ZONE:** 2,061 feet Tc =

 SURFACE PRES
 BHP
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 BHP/Z

 psi
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 221
 0.9705
 228





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WELL LOCATION AND IN 146 PHIJAATION HEAT

			JANUARY 7, 1957		
EL PASO NATU	RAL GAS COMPANY	LACKEY "B"	SF 077106		
8 (PM)	20	28 N	9 W		
890	SOUTH	990	WEST		
san juan	PICTURED CLIFF & MESA VERDE	AZTEC P.C. BLANCO M.V.	5861 160 AC. PC 320 AC. MV (1919 PLAT)		
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OR S MAL SIGNED ELS. OBERLY

Petroleum Engineer

Retresent to Rl Paso Natural Gas Co.

Mines Box 997, Farmington, N.M.

Lackey B LS #8 API # 30-045-13254 Section 20, T-28-N, R-9-W, M San Juan County, NM

RE; Downhole Commingle Application C-107 A

OFFSET OPERATORS:

Burlington Resources PO Box 4289 Farmington, NM 87499

Amoco PO Box 800 Denver, CO 80201

A copy of the C-107A Application was sent to the above listed parties for notification of Conoco's intent to downhole commingle the Mesaverde and Pictured Cliffs. This well is currently being produced as a dual well.

NEW EXICO OIL CONSERVATION COMP JON Santa Fe, New Mexico

(Form C-104) (Revised 7/1/52)

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

						ж.	April 8, 1957
VE ARE	HEREBY	REQUESTI:	NG AN ALLO	WABLE FOR	RA WELL KNOV	VN AS:	• •
	Zl Fasc	Operator,	Le Co.	Lackey	Well No. 5-	B (FM) in S	N 1/4 SN 1/4
•	Company of	Obereion		1 1 6246			P∞
Unit							
	Son Jua	A	County. Dat	e Spudded	1-15-57	., Date Completed.	2-21-57
Pl	ease indica	te location:					
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E	F	G H					M.V.
.			Casing I	Perforations:	208-4300; 4322	-4332; 4360-4	386; 4414-4424 o
L	K	JI	Depth to	Casing shoe o	of Prod. String	3732-44co (L1	ner)
м	N	O P	Natural	Prod. Test	•		BOPD
*			based on	l	bbls. Oil in	Hr	3Mins
ં9	05, 390 w		Test afte	er acid or shot.			BOPD
Coats	ng and Com	sating Record					
Sire	Feet	Sax	Based on	L	bbls. Oil in	Hrs	Mins
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7	361 c	0' 300	Size cho	ke in inches		3/4"	
5-1/2	2" 10740	1. v.120 -	Date firs	t oil run to tan	iks or gas to Transn	ussion system:	O Pipeline
1-1/2	+* - 2005	14	Transpoi	rter taking Oil	or Gas: Kl Paso	Natural Gas	Company
	rerf. :	tipple (3.1)	?') set at Devo at 21	4374'; Bek 73'.	er iij enker	set at 3766;	A LIVED
							. 43 11 (157)
I her	eby certify	that the inform	nation given a	bove is true a	nd complete to the	best of my knowled	and oil com. com
					El Pac		
C	OIL CONS	ERVATION C	COMMISSION	v , ?	By: Ceu	(Signature)	Total
Orig	ginal Sig	ned Emery	C. Arnold	•:	Title Fetrole	tum Engineer	
		Inspector Di		/mi	Send Cor	nmunications rega	rding well to:
					Name	,041	
					Box 997	- Farmington	1. New Mexico

NEW EXICO OIL CONSERVATION COM? SION Santa Fe. New Mexico

(Form C-104) (Revised 7/1/52)

REQUEST FOR (OIL) - (GAS) ALLOWABLE

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					Place:	<u>Av</u>	ril 8, 1957
E ARE	HERE	BY REG	QUESTIN	G AN ALLOWABLE F	OR A WELL KNOWN	AS:	(Date)
EL P	BEO No Company	tural	Gas Co.	Lackey	Well No 3-B (F	M) , in SW	, -
M	Letter	, Sec	.	T 2 CM R 2M	NMPM Aztec P.	c.	P00
					1-13-57 Da		
Pl		icate loc		oomiy. Date opuded	, Da	te Completed	
D	C:	В	A	Elevation 5661	Total Depth	483 ×184	K C.O. 4440'
E	F	G	H		C40'(Perf) Name (F.C.
				Casing Perforations	2040-2056; 2060-	20:2	
L.	K	J	1	Depth to Casing sh	oe of Prod. String	3 01.7	
M X	N	O	P				
	L	1		based on	bbls. Oil in	Hrs	Mins
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5-1/2 2" I-1/2	L_	13;	120	Transporter taking	Oil or Gas: 31 res	o Natural Gas	Company
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marks:				f. slacve at 2103'		101 SCO GO JI	
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					ue and complete to the best	of my knowledge.	OIL COM. C
				<u></u> , 19	- 90°	unany or Operator	Orti
				C. Arnold	By	(Signature	T.T. I
•••••	···•	~~~			LittaC	um Sagineer unications regardin	g well to:
le	and G	ias Insi	pector D	st. #3.	Name Z. J. C.		
						- Farmington	Hew Hexico



GOVERNOR

EDWIN L. MECHEM

CHAIRMAN New Mexico

OIL CONSERVATION COMMISSION

LAND COMMISSIONER, MURRAY E. MORGAN MEMBER



P. O. BOX 871 SANTA FE, NEW MEXICO April 16, 1957

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

El Paso Natural Gas Company P. O. Box 997 Farmington, New Mexico

Gentlemen:

Enclosed please find Administrative Order No. DC-418 for your Lackey Well No. 8-B (PM), located 890 feet from the South line and 980 feet from the West line of Section 20, Township 28 North, Range 9 West, NMPM, San Juan County, New Mexico, in the Aztec-Pictured Cliffs Gas Pool and in the Mesaverde Formation within one mile of the Blanco Mesaverde Gas Pool.

Very truly yours,

A. L. PORTER, JR.

Secretary-Director

/dea

Enclosure

April 8, 1957

ORDER NO. DC-418

THE APPLICATION OF EL PASO NATURAL GAS COMPANY FOR PERMISSION TO EFFECT DUAL COMPLETION OF ITS LACKEY WELL NO. 8-B (PM) LOCATED 890 FEET FROM THE SOUTH LINE AND 980 FEET FROM THE WEST LINE OF SECTION 20 TOWNSHIP 28 NORTH, RANGE 9 WEST, NMPM, SAN JUAN COUNTY, NEW MEXICO, IN THE AZTECPICTURED CLIFFS GAS POOL AND IN THE MESAVERDE FORMATION WITHIN ONE MILE OF THE BLANCO MESAVERDE GAS POOL.

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION COMMISSION

Under the provisions of Rule 112-A (c) El Paso Natural Gas Company made application to the New Mexico Oil Conservation Commission on April 8, 1957, for permission to dually complete its Lackey Well No. 8-B (PM), located 890 feet from the South line and 980 feet from the West line of Section 20, Township 28 North, Range 9 West, NMPM, San Juan County, New Mexico, in the Aztec-Pictured Cliffs Gas Pool and in the Mesaverde Formation within one mile of the Blanco Mesaverde Gas Pool.

The Secretary-Director Finds:

- (1) That application has been duly filed under the provisions of Subsection 'c' of Rule 112-A of the Commission's Rules and Regulations;
- (2) That satisfactory information has been provided that all operators of offset acreage have been duly notified; and
- (3) That waivers of objection from all affected offset operators have been received.

IT IS THEREFORE ORDERED:

That the applicant, herein, El Paso Natural Gas Company be and it hereby is authorized to dually complete its Lackey Well No. 8-B (PM), located 890 feet from the South line and 980 feet from the West line of Section 20, Township 28 North, Range 9 West, NMPM, San Juan County, New Mexico, in such a manner as to permit the production of gas from the Aztec-Pictured Cliffs Pool through proper perforation of the casing and through the casing-tubing annulus and the production of gas from the Mesaverde Formation through proper perforation of the liner and through the tubing, and the installation of a suitable packer and with the installation of adequate surface equipment to maintain complete separation of the two zones of production.

PROVIDED HOWEVER, That subject well shall be completed and thereafter produced in such a manner that there will be no commingling within the well-bore, either within or outside the casing of gas, oil and gas, or oil produced from either or both of the separate strata,

PROVIDED HOWEVER. That prior to the actual dual completion the operator shall make pressure tests of the casing to prove that no casing leaks have developed since the well was originally completed. In the event a casing leak is apparent the operator shall take appropriate steps to adequately repair the leak. The results of these tests shall be reported to the Commission on Form C-103.

PROVIDED FURTHER, That upon the actual dual completion of such subject well applicant shall submit to the appropriate District Office of the Commission, copies of Oil Conservation Commission Form C-104, Form C-110, and Form C-122, outlining the information required on those forms by existing Rules and Regulations, and two copies of the electric log of the well.

PROVIDED FURTHER, That said subject well for dual completion and production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used, at any time, as may be required by the Commission or its representatives, in order that natural gas, oil, or oil and gas from each separate stratum may be accurately measured and the gas-oil ratio thereof determined, and

PROVIDED FURTHER, That the operator-applicant shall make any and all tests, including segregation tests and packer leakage tests upon completion and annually thereafter during the deliverability test period for the Aztec-Pictured Cliffs Pool, but not excluding other tests and/or determinations at any convenient time and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by representatives of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each test properly attested to by the applicant herein and all witnesses, and shall be filed with the Commission within fifteen (15) days after completion of such test, and further that operator shall submit a packer setting affidavit within fifteen (15) days of completion and after remedial work whenever the packer is disturbed, and

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gasoil ratio and reservoir pressure determination of each producing zone or stratum immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

APPROVED at Santa Fe, New Mexico, on this 8th day of April, 1957.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

A. L. PORTER, JR. Secretary-Director

SEAL