	P. O. Box 2055	•	ADMINISTERANTUR COOR
N STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT	SANTA FE, NEW MEXICO 87501	·	ADMINISTRATIVE ORDE
	TICKO	· · ·	NFL 124
SECTION 271.305(COMMISSION REGULAT	DRILLING FINDINGS PURSUAN (b) OF THE FEDERAL ENERGY FIONS, NATURAL GAS POLICY ATION DIVISION ORDER NO.	REGULATORY	•
r.			•
OperatorCabot Petroleum Corporation	Well Name and No.	New Mexico St	ate "U" 1011 #2
Location: UnitSec4Twp	<u>145Rng33E</u>	_CtyLea	
II. THE DIVISION FINDS:			\sim
(1) That Section 271.305(b) of the Fe	Jars' Frances Frank	Constant	بين • • • • • • • •
pursuant to the Natural Gas Policy Act as a new onshore production well under infill well is necessary to effectivel by the proration unit which cannot be (2) That by Order No. R-6013-A, dated procedure whereby the Division Directo Division and find that an infill well	of 1978 provides that, Section 103 of said Act and efficiently drain of drained by any existi February 8, 1980, the D or and the Division Exami is necessary.	in order for an t, the Division m a portion of the ng well within t ivision establis ners are empower	infill well to quali must find that the reservoir covered that unit. Shed an administration red to act for the
(3) That the well for which a finding Pool, and the standard			per Pennsvlvanian acre
(4) That a 160 -acre pro			
of Sec. <u>4</u> , Twp. <u>14S</u> , Rng			
Now Movico State "IL" Well #1located		-	applicant's
(5) That this proration unit is (X) s upproved by Order No. NA	· · · · · · · · · · · · · · · · · · ·		, said unit was previ
(6) That said proration unit is not b yell(s) on the unit.	eing effectively and eff	iciently drained	l by the existing
(7) That the drilling and completion		finding is sough	it should result in
the production of an additional	150,000 MCF of gas fr	om the proration	n unit which would no
(8) That all the requirements of Orde for which a finding is sought is neces reservoir covered by said proration un unit.	sary to effectively and	efficiently drai	in a portion of the
(9) That in order to permit effective upplication should be approved.	and efficient drainage	of said proratic	on unit, the subject
T IS THEREFORE ORDERED:	•	•	· · · · · ·
1) That the applicant is hereby auth nfill well on the existing proration for infill drilling granted by this or reservoir covered by said proration un uny existing well thereon.	unit described in Section rder is necessary to perm	n II(4) above. hit the drainage	The authorization of a portion of the
2) That jurisdiction of this cause i ivision may deem necessary.	ls retained for the entry	of such further	corders as the .
ONE at Santa Fe, New Mexico, on this	<u>llth</u> day of Febr	uary, 19_	86
•	and A Not	H	
	Willichard 2. Si	ognis	·
	DIVISION DIRECTOR	EXAMINER	R K
cc: OCD Hobbs	•	•	•
NMO&GC Hobbs			•

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•	OIL CONSERVATION DIVISION Released Bridiality P. O. Box 2088
	STATE OF NEW MEXICOSANTA FE, NEW MEXICOADMINISTRATIVE ORDERENERGY AND MINERALS DEPARTMENT87501NFL 12.4
	INFILL DRILLING FINDINGS AND WELL-SPACING WAIVER
	MADE PURSUANT TO SECTION 271.305(b) OF THE Federal Energy Regulatory commission regulations, Matural Gas Policy Act of 1978 and Oil Conservation Division
	ORDER NO. R-6013
	Operator <u>Cabot Petroleum Corporation</u> Well Name and No. <u>Men Mexico State U Well No.</u> 2
	Location: Unit <u>B</u> Sec. <u>4</u> Twp. <u>14 Sourt</u> Rng. <u>33 Ease</u> Cty. <u>hea</u>
	II. THE DIVISION FINDS:
	(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated cursuant 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>Baum Upper Pennsylvan</u> ian Pool, and the standard spacing unit in said pool is <u>160</u> acres.
	(4) That a <u>160</u> —acre proration unit comprising the <u>ME_{14}</u> of Sec. <u>4</u> , Twp. <u>14 South</u> , Rng. <u>33 East</u> , is currently dedicated to the <u>applicant's Mew Mexico</u> State <u>W</u> [Well No.] located in Unit G 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.
: •,• •	(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional <u>150,000</u> MCF of gas from the proration unit which would not otherwise be recovered.
1 7. 5. 64.	(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 deem necessary.
	DONE at Santa Fe, New Mexico, on thisday of, 19
	cc - acp ittle
	CL OCD /foller NMOJEC - Ifoller DIVISION DIRECTOR EXAMINER
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OIL CONSERVATION COMMISSION

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

87501

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GOVERNOR BRUCE KING CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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



CABOT PETROLEUM CORPORATION OIL AND GAS DRILLING AND PRODUCTION

806/669-2581 P. O. BOX 5001, PAMPA, TEXAS 79065

January 29, 1985

State of New Mexico Oil Conservation Division Mr. Michael E. Stogner P. 0. Box 2088 Santa Fe. New Mexico 87501

Subject: New Mexico State "U" #2 **NGPA 103**

Gentlemen:

As requested in your letter of January 9, 1985, we are supplying and attaching the supplementary information required for an infill well 103 filing pursuant to Division Order #R-6013-A.

- Rule 5 We have attached Form C-101 and C-102 in duplicated on the subject well.
- Rule 6 This well is located in the Baum Upper Penn Pool with a 160 acre spacing.
- Rule 7 The Baum Upper Penn was approved under Division Order #R-3644-B amended January 20, 1970.
- Rule 8 The New Mexico State "U" #1, 1980' FNL and 1980' FEL Section 4-14S-33E, Lea County, had a spud date of May 4, 1969, and was completed June 7, 1969. The average production from this well is currently 9 BOPD, 17 MCFD and 20 BWPD. The New Mexico State "U" #2, 660' FNL and 1980' FEL Section 4-14S-33E, Lea County, had a spud date of April 15, 1984, and was completed July 1, 1984. The average production from this well is currently 15 BOPD, 32 MCFD and 5 BWPD. As you can see from the cross-section of the two wells; porosity streaks have developed in the "U" #2 that were not in the original completion of the "U" #1. The addition of these porosity streaks and the increased well density in the Baugh "C" enable us to efficiently drain_this acreage thus increase the gross reserves by 115 MBO and 150 MMCF.

- <u>Rule 9</u> We have attached the formation structure map, production curves, area map and compensated neutron logs on the two wells to support our finding for the necessity for an infill well. As described in the statement of Rule 8, we calculated an increase in gross reserves fo 115 MBO and 150 MMCF.
- <u>Rule 11</u> We have on this day notified the offset operators by registered mail of our application for Section 103 determination.

Ike Lovelady, Inc. P. O. Drawer 2666 Midland, Texas 79702

Yates Petroleum Corporation 207 South 4th Artesia, New Mexico 88210

M W J Producing Company 1804 First National Bank Building Midland, Texas 79701

If any additional information is required, please let us know.

Sincerely yours,

onde a

Ray Wooldridge

LRW:ap

Enclosures

MEXICO OIL CONSERVATION COMMIS WELL LOCATION AND ACREAGE DEDICATION PLAT

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

CABOT PETROLEUM CORPORATION New Mexico State "U" 2 nit Leiter Section Township Range County 4 T-14-S R-33-E Lea County, New Mexico ctual Footage Location of Well: 660 feet from the North line and 1980 feet from the East line	CABOT PERFORMENTION New Mexico State "U" 2 Unit Letter Settion To working Read To working County Lea County, New Mexico Actual protects The time in the North Income the County The time into the North Income time East Income time Actual protects Person Dedicate Annoget 4237 Protecting Promotion Paul Paul Dedicate Annoget Acres 1. Outline the acreage dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated. J'res No H answer is "yes," type of consolidation Interest and royalty. If answer is "no", if at the owners and tract descriptions which have actually been consolidated. (By communitization, force-pooling, or otherwise) or until all interests have been consolidated (by communitization, forced-pooling, or otherwise) or until all note rest in the information contained and interests. Acres If answer is "no", if at the owners and tract descriptions which have actually been approved by the Commission. Interest and coppret the mode annihe annihe. </th <th></th> <th></th> <th></th> <th>All distar</th> <th>ces must be f</th> <th>rom the oute</th> <th>r boundaries o</th> <th>the Section.</th> <th></th> <th></th>				All distar	ces must be f	rom the oute	r boundaries o	the Section.		
Batter Townser County New Mexico 650 feet toon the NOrth Los and 1980 test toon the East Inc 650 feet toon the NOrth Baum Upper Penn Deducted Accesser 160 Access 4237' Permo-Penn Baum Upper Penn 160 Access 1. Outline the acreage dedicated to the subject well by colored pencil or bachare 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, bave the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? \Very 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). No allowable will be assigned to the well until all interests have been consolidated (by communitization, intrization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been a sproved by the Commission. If another will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been a sproved by the Commission. If another will be assigned to the well until all intere	Unit Letter Section Tendets Processor County New Mexico Actual Provings Location of with: 650 free from the NOTth Ince and 1980 test from the East Ince Good Lyse Like: Permon-Perm Pail Baum Upper Perm 160 Across 1. Outline the acreage dedicated to the subject well by colored pencil or backure marks on the plat below. 1 In more than one lease is dedicated to the well, outline cach 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 consolidation	-									
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MEXICO OIL CONSERVATION COMMIS' ' WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form C-102 Supersedes C-128 Effective 14-65

		All distances mus	t be from t	he outer boundaries of	the Section.		
Operator CABOT	PETROLEUM CO	RPORATION	Lea	∞ New Mexico Sta	te "U"	_	Well No. 2
Unit Letter	Section	Township		Range	County	· · · · · · · · · · · · · · · · · · ·	
	4	T-14-S		R-33-E	Lea C	County,New N	lexico
Actual Footage Loc	ation of Well:	••••••		· · · · · · · · · · · · · · · · · · ·	* <u> </u>	· · ·	
660	feet from the NO	rth une	and	1980 i ce	t from the E	East	line
Ground Level Elev:	Producing For		Pœ			Dedice	sted Acreage;
4237'	Permo-H	enn	E	aum Upper Pen	n ·		160 Acres
	an one lease is	•		y colored pencil o tline each and ide			t below. (both as to working
dated by co Yes If answer i this form if No allowab	ommunitization, u No If an s "no," list the necessary.) le will be assigned	nitization, force- nswer is "yes," ty owners and tract ed to the well unt	pooling. e pe of co descripti il all inte	etc? nsolidation ons which have ac erests have been o	tually been	consolidated. ((by communit	Wners been consoli-
forced-pool sion.	ing, or otherwise)	or until a non-sta	ndard un	it, eliminating suc	h interests,		TIFICATION
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DISTRIBUTION		MEXICO OIL CONS				,
SANTA FE		MEXICO UL CONS	ERVATION COM	133101	Form C-101 Revised 1-1-6	55
FILE	11				SA. Indicate	Type of Lease
U.S.G.S.					STATE	X +11
LAND OFFICE					.5. State Oil	& Gas Lease No.
OPERATOR			· ·		K-3	3846
	· · · · · · · · · · · · · · · · · · ·	- <u></u>	<u> </u>			
	N FOR PERMIT TO	DRILL, DEEPEN	, OR PLUG BAC	CK		
a. Type of Work				•	7. Unit Agre	ement Name
	*/ 1	DEEPEN				. <u> </u>
b. Type of Well			61NG1 5 []		8. Form or L	
OIL X GAS WELL 2. Name of Operator	OTHER	- <u></u>	SINGLE ZONE	ZONE		ico 'U' State
•	· · · · · · · · · · · · · · · · · · ·			· .	9. Well No.	
Cabot Petroleum Co B. Address of Operator	orporation		- <u>.</u>		10 54114	2 d Pool, or Wildcat
	man Tours	79065				•
P. O. Box 5001, Pa	·····	~- -			Baum U	pper Penn
UNIT LETTE	R LOG	EATED 660	FEET FROM THE	NorthLINE		
1080			TWP. 145 RG	е. <u>33</u> Е имрм		
AND 1980 FEET FROM	THE East LIN	4E OF SEC. 4	TWP. 145 RG	<u>е. 33Е имрм</u>	12. County	··· <i>}{}}}}????</i>
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*******	*******	*******	*******	*******	HILLE I	iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
***************************************	*******		19. Proposed Depth	19A. Formati	on	20. Rotary or C.T.
			10,300'	Permo-P	enn	Rotary
21. Elevations (Show whether DF,	RT, etc.) 21A. Kind	& Stotus Plug. Bond 00_Blanket in	21B. Drilling Contr	actor		. Date Work will start
4237' GR	force	#749971	Unknown	vet	Upon	Approval
23.				•		
<u>17 1/2"</u>	13 3/8"	ROPOSED CASING AN	400 CEMEN 400	45	<u>0 sxs</u>	Surface
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO		EPTH SACKS C	F CEMENT	EST. TOP
12 1/4"	8 5/8"	28#	4100'	19		Surface
7 7/8"	5 1/2"	17# & 20#	10,300'	5.	55	3000'
1		1	I	•		
Blowout Preventer	12"	eron double hy 3000# with Ko Hydrill cont	omey-Weise 8	SS, 10" 30 0 gallon ac	00# and H cumulator	ydril Type GK, , 3000# 3 stati
	The	above or type	equivalent.	н. 1997 - С.		
				VAL VALID FOF	1000	

	SPACE DESCRIBE PROPOSED PROGRAM; Give blowout preventer program, if any.	IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIV	E DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW
hereby cer	rtify that the information above is true and co	mplete to the best of my knowledge and be	lief.
Signed	Taux Anderen	TuleAgent	Date 2/10/84
	(This space for State Use) DRY SEXT	OŇ	€ <u>55 9 (</u>) 1984
PPROVEC	рву	TITLE	DATE

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• •				~ .	2.	25-28614
NO. OF COPIES RECEIVED		• •		ب	20=0	2528614
DISTRIBUTION	NEW	MEXICO OIL CONSER	RVATION COMMISSIO	N	Form C-101	
SANTA FE		· · · · · · · · · · · · · · · · · · ·			Revised 1-1-	55
FILE				ſ	SA. Indicat	e Type of Lease
U.S.G.S.					STATE	XX FEE
LAND OFFICE					5. State Oll	& Gas Lease No.
OPERATOR					K-:	3846
				٩	<u>IIIIII</u>	
APPLICATIO	N FOR PERMIT TO	DRILL, DEEPEN, O	OR PLUG BACK			
la. Type of Work					7. Unit Agre	ement Name
			PLUG			
b. Type of Well					8. Farm or L	ease Name
OIL X GAS WELL	OTHER	· · ·	ZONE MUL	ZONE	New Mex	ico 'U' State
2. Name of Operator					9. Well No.	
Cabot Petroleum C	Corporation					2
3. Address of Operator					10. Field on	d Pool, or Wildcat
P. O. Box 5001, P	ampa, Texas 7	9065			Baum U	Ipper Penn
4. Location of Well UNIT LETTE		ATED 660 FE	LET FROM THE NOTE	h LINE	IIIII	
				h	///////	
AND 1980 FEET FROM	THE East LIN	E OF SEC. 4 TV	NP. 145 RGE. 3	3E NMPM		
					12. County	
<u> </u>		<i></i>		HHHHH	Lea	<i></i>
((((((((((((((((((((((((((((((((((((
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		9. Proposed Depth	9A. Formetion		20. Rotory or C.T.
			10,300'	Permo-Per	תו	Rotary
21. Elevations (Show whether DF,	RT, etc.) 214. Kind	& Status Plug. Bond 21	1B. Drilling Contractor			. Date Work will start
4237' GR	\$50,00	6 Status Plug. Bond 21 O Blanket in #749971	Unknown yet		Upon	Approval
23.			-			
17 1/2"	13 3/8" ^P	ROPOSED CASING AND	CEMENT PROGRAM	450	SXS	Surface
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
12 1/4"	8 5/8"	28#	4100'	1925	, ,	Surface
7 7/8"	5 1/2"	17# & 20#	10,300'	555		3000'
	!	ł	· ·	1		
						н. Г
Blowout Preventer	Program: Came	ron double hydr	aulic Type SS,	10" 3000	# and H	ydril Type GK.
•						, 3000# 3 statio
		Hydrill contro				

The above or type equivalent.

APPROVAL VALID FOR PERMIT EXPIRES	180 DAYS
PERMIT EXPIRES	8/20/84
UNLESS DRILLING	JNDERWAY

I hereby ce	rtify that the information above is true an	d complete to the best of my knowledge and beli	ef.
Signed	Tout Andered	Agent	Date 2/10/84
=	(This space for State Use LORY SI ONOTIAL SIGNED LI SEPERY SI DISTRICT I SUPERVISOR		FEB 20 1984
APPROVE	O BY	TITLE	DATE

DATE - 1-23-85 NAME - NEW MEXILO STATE U #2 STATE, CO - NEW MEXILD , LEA LOCATION - 660 FNL + 1980 FEL SEL 4 T 145 - 1233E FIFLD - BAUM DATUMN - 4254 KB SPUD - 4-15-84 COMPLETED - JUNLIGBY 133/2 TREAT MENT 400 SET JUNE 1984 - TEST CANYON WET 10078 - 96 SET LIBP @ 10065 PERF 9986 - 92 ALID 9986-92 W/ 1400 GAL MOD ZOZ SET LEBP 9970 SET 4100' 85/8 Perr 9895, 9837-89, 9879-81,9866-72 9854, 9842, 9837 Acid 9837-9895 W/ 3400 946 MOD'202 " Pers 9787, 979, 9703-75, 9753 CLT 1984 9747-50 ALID 9747 - 9787 W/ 3000 94L MUD 202 CEB5 4970 20001 7520 SET 10,300 51/2 P.

TD 10300

		· .
· DATE - 1-23-85		
NAME - NOW MEXILO STATE UNI		
STATE, CO: NEW MEXID, LEA		
LOCATION - 1980 FNL + 1980 FFL		
SEL 4 T 145 - R 33E	1	11
FLELD - BAUM FIELD		
DATUMN - 4249 KB		
SPUD - MAY 4, 1969		34
Completed - June 1969		389' 133B 659
TREATHENT		
JUNE 1969 - PERF 9843-50, 9853-55, 9859-61	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Acio w/ 200 gec 71/2% Acro		
JUNC 1963 - PERF 9887-89, 9894-96, 9900-06		
9842 - 47 ALIG 9887 - 9906 W/		
1500 GAL MOD 202 ACID 9842 - 9861		4090" 85/6 c59
w/ 4500 gil MOD 202		
Pez= 9761-65, 9778-90 UNABLE TO		
BRECK DOWN		
FEB 1964 - PERF 9761 - 66, 9780-90 Auto 9761 - 9790		
W/ 4000 GAL MOD 202 PER= 9740-48		
9679-84,9653-58 ALIO 9853-9740		
w/ 4000 gar 100 202		
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9975' 41/2 43 TD,9975

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	#1 Mar 91+3 - 51 1600. Minutes Control 200 216 60 216 BULD + 291 Mcs/21 Hic 6 - 59	+/ VICK 9113 - 6/ 16000) WITHER AMERICAL SUPPRING 529/ MCE/21 1/2 6-29	4/ WAF 913 - 5/ FRAME (THE - 20 SAME - 216 BONZIG BUND & 24 MCE/21 HE 6 - 29	#1 WAF 9133 - 51 / 6802) WITH ALL BUILD + 29 MUL / 11 - 59	#/ WIGE FIRE - 21 / 600. 11 / 200 - 291 mc/21 / 20 - 29	$\frac{\pi}{2}/\sqrt{2}$	$\frac{1}{2} / \frac{1}{2} = -\frac{1}{2} / \frac{1}{2} / \frac{1}{2} / \frac{1}{2} = -\frac{1}{2} / \frac{1}{2} / \frac{1}{2} / \frac{1}{2} = -\frac{1}{2} / \frac{1}{2} $																																								