		· .		1	· .				
ST	ATE OF NEW M	EXICO	OIL CON P SANTA	SERVATION 1 • O. Box 2 FE. NEW M	DIVISION 088 EXICO		IA	DMINISTRATIVE	ORDER
ENERGY AN	ND MINERALS	DEPARTMENT	Unitin	87501	LAICO		N	FL 22	
		÷ 4, 100 - 100	· •		·			· · · · · · · · · · · · · · · · · · ·	······································
	· · · · · · · · · · · · · · · · · · ·	INF SECTION 271 COMMISSION RE AND OIL CON	ILL DRILLIN .305(b) OF GULATIONS, I SERVATION D	G FINDINGS THE FEDERA NATURAL GA IVISION OR	PURSUAN L ENERGY S POLICY DER NO.	T TO REGULATO ACT OF R-6013-A	ORY 1978		•
I.		•	· · · ·						
Operator	Kerr-McGee	Corporation	) I	Well Name	and No.	Stat	e F Well	No. 14	
Location:	Unit <u>C</u>	Sec2	Twp. 85	Rng	33E	_Cty	Chaves		
II.	•			. * <sup>*</sup>				•	•
THE DIVIS	SION FINDS:					•			
pursuant as a new infill we by the pr (2) That procedure Division	to the Natu onshore pro ell is neces coration uni by Order N whereby th and find th	ral Gas Polic duction well sary to effec t which canno o. R-6013-A, e Division Di at an infill	y Act of 19 under Section tively and of the so draw dated Februa rector and well is nec	78 provides on 103 of efficient1 ined by an ary 8, 198 the Divisio essary.	s that, said Act y drain y existin 0, the D on Examin	in order , the Div a portion ng well w ivision a ners are	for an in vision mus n of the n within the establishe empowered	nfill well to st find that reservoir cov at unit. ed an adminis d to act for	qualify the ered trative the
(3) That	t the well f	or which a fi	nding is so	ught is con	mpleted	in the	Chavero	o-San Andres	3
	Pool	and the stan	dard spacin	unit in a	said poo	1 ie -	40	· · · · · ·	acres
(4) That	40		e proration	unit comp	ricing +1	 ho	NF/4	NW/4	
	2	- 8 South		Fast 4-	Lising u			State	F
or sec.	<u> </u>	p. <u>0 500 cm</u>	, Rng	, 1S	current.	Ly dedica	ated to the		
wei	<u>I NO. Z</u>	lo	cated in Un	it	of s	aid sect:	ion.		· · ·
(5) That	t this prora	tion unit is	(X) standard	i () nons	tandard;	if nonst	tandard, s	said unit was	previously
(6) That well(s) (	t said prora on the unit.	tion unit is	 not being end tion of the	ffectively well for a	and eff	iciently	drained b	by the existi	ng t in
the production otherwise	iction of an	additional _	19.35	M MCF O	f gas fro	om the p	roration u	unit which wo	uld not
(8) That for which reservoid unit.	t all the real a finding covered by	quirements of is sought is said prorati	Order No. necessary to on unit which	R-6013-A h o effective ch cannot l	ave been ely and be so dra	complied efficien ained by	d with, an tly drain any exist	nd that the w a portion of ting well wit	ell the hin the
(9) That applicati	in order to	o permit effe e approved.	ctive and e	fficient d	rainage (	of said p	proration	unit, the su	bject
				*				··· · ·	
(1) That infill we for infil reservoin any exist	t the applic all on the e ll drilling c covered by ting well th	ant is hereby xisting prora granted by th said prorati ereon.	authorized tion unit do is order is on unit which	to drill escribed i necessary ch cannot	the well n Section to perm be effec	describe n II(4) it the di tively an	ed in Sect above. Th rainage of nd efficio	tion I above he authorizat f a portion c ently drained	as an ion of the by
(2) That Division	t jurisdicti mav deem ne	on of this ca cessarv.	use is reta	ined for t	he entry	of such	further	orders as the	
DONE at 9	Santa Fe. Ne	w Mexico. on	this 31st	day of	Decen	nber	, 19 8	0	· · ·
					$\wedge$				
*			· ·	Sel	V	Amo			• • • • • •
	-	-		WI VILDIUN D	TKEGIUK		MARINER .	- <del>4</del>	
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•	•		·	. *	•			• •	·

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	ίτο	CONSERVATION DIVISIO	N	
		P. O. Box 2088	, , , , , , , , , , , , , , , , , , ,	ADMINISTRATIVE ORDER
STATE OF NEW MEX NERGY AND MINERALS DI	CICO EPARTMENT	SANTA FE, NEW MEXICO 87501	· · · · · · · · · · · · · · · · · · ·	NFL <u>22</u>
• *				
cc	INFILL DRI SECTION 271.305(b) DMMISSION REGULATIC AND OIL CONSERVATI	LLING FINDINGS PURSUA OF THE FEDERAL ENERG DNS, NATURAL GAS POLIC ION DIVISION ORDER NO	ANT TO SY REGULATORY SY ACT OF 1978 R-6013-A	
perator <u><i>Kerr - 7</i></u>	McGee Corpon	Well Name and No.	State H	= W. 11 No 14
ocation: Unit <u>C</u>	_sec	S_Rng. 33 E	_ctyChe	ives
I. '				· ·
HE DIVISION FINDS:	•	· · · ·		
<ol> <li>That Section 271. ursuant to the Natura s a new onshore produ nfill well is necessa y the proration unit</li> </ol>	305(b) of the Fede al Gas Policy Act o action well under S ary to effectively which cannot be so	eral Energy Regulatory of 1978 provides that, Section 103 of said Ac and efficiently drain o drained by any exist	Commission Reg in order for a t, the Division a portion of t ing well within	ulations promulgated n infill well to qualify must find that the he reservoir covered that unit.
<ol> <li>That by Order No.</li> <li>rocedure whereby the ivision and find that</li> </ol>	R-6013-A, dated F Division Director an infill well is	ebruary 8, 1980, the and the Division Exam necessary.	Division establ	ished an administrative ered to act for the
3) That the well for	which a finding i	s sought is to be com	pleted in the _	Chaveroe - Son
<u>l-Indres</u> Pool; a	and the standard sp	pacing unit in said po	ol is <u>40</u>	acres.
4) That a $40$	acre prora	ation unit comprising	the <u>NE/4</u>	NW/4
f Sec, Twp.	$X \rightarrow Rng.$	$33E^{\circ}$ , is curren	tly dedicated to	o the State F
W111 100	located i	in Unit of	said section.	<b>.</b>
5) That this prorati pproved by Order No.		indard ( ) nonstandard	; if nonstandar	d, said unit was previou
6) That said prorati ell(s) on the unit.	on unit is not bei	ng effectively and ef	ficiently drain	ed by the existing
7) That the drilling	g and completion of	the well for which a	finding is sou	ght should result in
he production of an a therwise be recovered	ndditional <u>/9</u> . 1.	<u>35 M</u> MCF of gas f	rom the proration	on unit which would not
8) That all the requ or which a finding is eservoir covered by s nit.	airements of Order s sought is necessa said proration unit	No. R-6013-A have been ary to effectively and which cannot be so d	en complied with efficiently dra rained by any est	, and that the well ain a portion of the xisting well within the
9) That in order to pplication should be	permit effective a approved.	and efficient drainage	e of said prorat:	ion unit, the subject
T IS THEREFORE ORDERE	ED:			
<ol> <li>That the applicar nfill well on the exi or infill drilling gr</li> </ol>	nt is hereby author sting proration un canted by this orde said proration unit ceon.	rized to drill the weln t described in Section for is necessary to per which cannot be effe	l described in s on II(4) above. mit the drainage ctively and eff	Section I above as an The authorization e of a portion of the iciently drained by
eservoir covered by s ny existing well ther			a of such furth	or orders as the
eservoir covered by s ny existing well ther 2) That jurisdictior ivision may deem nece	of this cause is essary.	retained for the entr	y of such fulle	



OIL AND GAS DIVISION

December 17, 1980

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501 Attn: Mr. R.L. Stamets, Technical Support Chief

SUPPLEMENTAL INFORMATION APPLICATION FOR INFILL WELL DETERMINATION STATE F WELL NO. 14 CHAVEROO (SAN ANDRES) POOL CHAVES COUNTY, NEW MEXICO

Dear Mr. Stamets:

The following information as to expected gas production from the above well is submitted in response to your letter dated December 11, 1980.

The State F Well No. 14 was completed at a producing rate of 20 BOPD and 9 MCFD, for a gassoil ratio of 450/1. Prior information submitted to you estimates the No. 14 well will produce 43,000 barrels of oil. If one assumes a constant GOR, this we result in a recovery of 19.35 MMCF of gas. This is a conservative estimate, as the GOR for this type of well will usually increase over its life of production. As stated in our previous submittals, this gas can not be produced by any other well in the field.

Please contact me if additional information is required.

Very truly yours,

KERR-McGEE CORPORATION

David Christian P.O. Box 25861, MT 25-G Oklahoma City, OK 73125 Tel: (405) 270-2129

DC/tt



OIL AND GAS DIVISION

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

INFILL WELL DETERMINATION NATURAL GAS POLICY ACT OF 1978 STATE F WELL NO. 14 CHAVEROO (SAN ANDRES) FIELD CHAVES COUNTY, NEW MEXICO

Dear Sir:

Pursuant to Order No. R-6013-A, Kerr-McGee Corporation respectfully requests the Oil Conservation Division to issue an administrative determination that the above referenced well is necessary to "effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be effectively and efficiently drained by any existing well within the proration unit".

The State F Well No. 14 is completed in the Chaveroo (San Andres) Field, at a location 1310' FNL, 1330' FWL of Section 2, T8S-R33E, Chaves County, New Mexico. This well is in the same proration unit as the State F No. 2. Please refer to the attached table for the well information on both wells, and the attached Forms C-101 and C-102.

In support of our application, we enclose a copy of Order No. R-6379, and the exhibits presented at that case. The evidence in this case shows that the State F No. 2 will only recover an estimated 10% of the oil underlying its proration unit. Therefore the No. 14 well is needed to effectively and efficiently drain the oil and gas underlying the proration unit which cannot be drained by the State F Well No. 2.

Copies of this application have been sent this date by certified mail to all offset owners. If additional information is required, please contact me at the address below, or by phone (405) 270-2129.

Very trul yours,

KERR-MCGEE CORPORATION

David Christian

David Christian, Senior Conservation & Unitization Asst. P.O. Box 25861, MT 25-G Oklahoma City, Oklahoma 73125

Attachments

cc: Offset Owners (List Attached) STATE F WELL NO. 14 CHAVEROO FIELD CHAVES COUNTY, NEW MEXICO

Champlin Petroleum Company 300 Wilco Building Midland, Texas 79701

Getty Oil Company P. O. Box 1231 Midland, Texas 79702

Marathon Oil Company P.O. Box 552 Midland, Texas 79701

Sun Production Company P. O. Box 1861 Midland, Texas 79702

Braden-Deen 2200 E. 1st Street Suite 520 Wichita, Kansas 67202

### CHAVEROO (SAN ANDRES) FIELD UNIT C, SECTION 2, T8S-R33E CHAVES COUNTY, NEW MEXICO

Well Name	· .	Location	Spud Date	Completion Date	Current Production	Predicted Percent of Ultimate Recovery
State F No. 2	2	660' FNL, 1980' FWL	5-31-66	6-14-66	5 BOPD	10%
State F No. 1	L4	1310' FNL, 1330' FWL	8-17-80	10-03-80	15 BOPD 8.86 MCFD	Too early in the life of the well to determine.

•	Æ	•			N	RF/
•					10	and a la
NO. OF COPIES RECEIVED	<del></del>			CEIVE	20-0	03-20740
SANTA FE	NEW	MEXICO OIL CONS	ERVATION	SSION	Revised 14-	65
FILE	+			V I 3 1980	A. Indicat	e Type of Lease
U.S.G.S.			OIL CONS	Dive	TATE	X PEE .
			S	ANTA DI	5. State Oil	& Gas Lease No.
OPERATOR		• • •		TA FE	0G 10	62
			OR PILIG BACK	{	-{\\\\\\\	
1a. Type of Work			UNIT LOO BAR		7. Unit Agr	eement Name
			Pi		-	•
b. Type of Well					8. Form or 1	
WELL X WELL	OTHER		ZONE	ZONE		e "F"
Kerr-McGee Corpora	tion				14	100 M
3. Address of Operator				<u>.</u>	10. Field a	ad Pool, or Wildcat
P. O. Box 250, Ama	rillo, Texas 79	189		•	Chave	roo
4. Location of Well UNIT LETTE	R LOC	ATED 1330'	FEET FROM THE	stu	• //////	
1210			90	0.02		
AND 1.310 PEET FROM	THE NOTED LIN		<u>TWP. 85 RGE.</u>		12. County	
ΔΙΙΙΙΙΙΙΙΙΙΙΙΙΙΙ					Chaves.	
			10 Promoted Depth			20 Botom or C.T.
			19. Plopaser Deput	Com An	100 1	Zu. Rotary or C. I.
21. Elevations (Show whether DF,	RT, etc.) 21A. Kind	& Status Plug. Bond	21B. Drilling Control		22. Approx	L. Date Work will start
4366.1_G.L.	Blanket	on file	Verna Drilli	ng	July	5, 1980
23.	P	ROPOSED CASING AN	D CEMENT PROGRA			· · ·
12k	8 5/8	2/	400	-TH SACKS	OF CEMENT	Circ to Surface
7 7/8	4 <sup>1</sup> / <sub>5</sub>	10.5	4500	250	)	3700 ft.
,,,,,,, _						· · · · · · · · · · · · · · · · · · ·
Drill 12½" hole wi drill 7 7/8" hole of cement. Run ce Type 45 BOP's with used for Kill and	th rotary to 40 to 4500', run 1 ment bond log a pipe rams in t Choke lines.	0'. Set 8 5/ ogs, and set and complete i op and blind	8" OD 24# cas 4 <sup>1</sup> 2" OD 10.5# n the San And rams in botto	ing and o casing and res. Will m. Casing	cement to l cement v L install ghead out	surface. Then with 200 sacks 8" Shaffer, lets will be
**Cement on the pro from the top of 1 surface casing by	duction casing the salt or anhy either circulation of the top of the top	must be broug ydrite to the ating with cem	ht ent	AJ FOR DRILLI	PROVAL VAI 90 DAYS UN NG COMME	ID ILESS NCFD
		<b>J</b> UI UJ		EVDIDEC	9-25-	80
. •		· .		EVLIKES		
						-
IN ABOVE SPACE DESCRIBE PR TIVE ZONE. GIVE BLOWOUT PREVENT	OPOSED PROGRAM: IF ER PROGRAM, IF ANY.	PROPOSAL IS TO DEEPEN	OR PLUS BACK, GIVE DA	ATA ON PRESENT	PRODUCTIVE ZON	E AND PROPOSED NEW PROBUC-
I hereby certify that the information	m above is true and com	plete to the best of my	knowledge and belief.	•		-
Signed Kelley Els	semberg	Tule_Engineer	ing Assistant		Dote May	8, 1980
(This space for )	State Use)	Kelley E	isenberg			141 OF 4000
APPROVED BY	Alphen	TITLE SU	FRVISOR I	DISTRICI	BATE_J	IN 25 1960
CONDITIONS OF APPBOVAL, IF	**SEE ABI	OVE				· · · ·
~						

	All di	stances must be from	m the outer boundaries	of the Section	TANK	<u>3 1980    </u>	<u>]// .</u>
Kerr l	AcGee Corpora	tion	State F	OIL	CONSERVA	TICN DU	<sup></sup> 14
it Letter Sect	2 Townshi	outh	Hange 33 East	County	Chave	A FE	N
Lual Footage Location	nt Well:		100 2000	k	Gliave		
IJIU fee	Producing Formation	line and	<u>1330</u>	eet fmm the	West	line Deducated Autom	
4366.1	San Andres		Chaveroo			40	Acres
1. Outline the ac	reage dedicated to 1	the subject well	by colored pencil	or hachure	marks on th	e plat below.	
<ol> <li>If more than of interest and ro</li> <li>If more than on dated by communication</li> <li>Yes</li> </ol>	valty). e lease of different unitization, unitizati No If answer is	ownership is de on, force-pooling "yes," type of	dicated to the well g. etc? consolidation	l, have the i	wnership ti nterests of	all owners b	s to working een consoli-
this form if nec No allowable w forced-pooling, sion.	essary.) ill be assigned to the or otherwise) or until	e well until all i a non-standard	nterests have been unit, eliminating s	consolidate uch interests	d (by com , has been	munitization, approved by 1	unitization.
	17		· )			CERTIFICATIO	אר
	₽ <b>*</b> 2				l hereby c tained her	ertify that the in ein is true and c	formation con- omplete to the
<u>1330'</u>	₽ <b></b>				I hereby c tained her best of my KODDI tiane	ersify that the in ein is true and c knowledge and i LUIMD	formatian con- omplete to the belief.
<u></u>	·**2				I hereby c tained her best of my KULLEY Kane Kelley Engine	ertify that the in oin is true and c knowledge and t LUOLMD Eisenberg ering Assi	formation con- omplete to the belief.
<u>1330'</u>	P₩2. ₩/4/				I hereby c tained her best of my Kollin Name Kelley Fastion Engine Value Kerr-May 8,	ertify that the in ein is true and c hnowledge and i <u>LUOIMU</u> Eisenberg ering Assi IcGee Corpo 1980	formation com- omplete to the belief. Stant_ oration
<u>1330'</u>	-#2 -#/4				I hereby c tained her best of my Kolley Name Kelley Fostion Engine Voterr-M Date May 8,	ertify that the in ein is true and c hnowledge and i <u>LOIMD</u> Eisenberg ering Assi IcGee Corpo 1980	formatian con- omplete to the belief. Stant oration well location tred from field
<u> </u>			NGINEER & LATER		I hereby c tained her best of my Kolley Name Kelley Fastion Engine Variable May 8, I hereby shown on antes of c under my s is frue of knowledge	ertify that the in ein is true and c hnowledge and i <u>Eisenberg</u> ering Assi <u>IcGee Corpo</u> <u>1980</u> certify that the this plat was pla sectual surveys m supervision and ad carrect to th and belief.	formation con- omplete to the belief. Stant Stant oration well location tred from field tode by me or that the some e best of my
1330'		HE PART	NGINEER & TATA OLA OLA OLA OLA OLA OLA OLA OLA OLA OL		I hereby c tained her best of my KOUII Name Kelley Fastion Engine Vontery Kerr-M Date May 8, I hereby shown on notes of c under my is true of knowledge	ersify that the in ein is true and c hnowledge and i <u>Eisenberg</u> ering Assi cering Assi <u>IcGee Corpo</u> <u>1980</u> certify that the this plat was pla actual surveys m supervision and ad carrect to th and belief.	formation con- omplete to the belief. Stant oration well location tred from field tode by me or that the same e best of my

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SANTA FE		1				· / · · · · · · · · · · · · · · · · · ·		Bullicon	e Type of Lease
FILE			NEW M	EXICO OIL CON	NSERVATION	COMMISE	VIGO	500	vv Fee
11.5.G.S		WELL	COMPLE	TION OR RECO	OMPLEIIO	A REPORT	ANDEL	D. Shile Di	AA 1 & Gas Lease No.
LAND OFFICE		1				- CCNST	21/00		00 1062
OPERATOR		-			4	SA	NTY CV r	THIL	
	<u> </u>	J				•	A FE	(SYQA)	
19. TYPE OF WELL					······	<u></u>		7. Unit Aq.	reement Name
b. TYPE OF COMPLE	01 W		GAS WELL		OTHER	· · ·	····	8 Furm or	Louse Name
NEW XX WO		ar. []	PLUG	DIFF.	07.450			State	"F"
2. Name of Operator			BACK	KESVH	OTHER			9. Well No.	· · ·
Kerr-McGee	Corporati	ion					•	14	
3. Address of Operator						,		10, Field c	ind Fool, or Wildcat
P O Box 25	O, Amaril	lo, TX	79189		,,,_,	·		Chave	roo
4. Location of Well									
		1330		West		1210		((((((((((((((((((((((((((((((((((((	
UNIT LETTER	LOCATED		FEET FR	OM THE WESL	LINE AND	11111111	FEET FROM		millitti
North	2	8	c	33F		111X111		Change	
15. Date Spudded	SEC. 4	Beached	L 17 Date (	Compl. (Ready to 1	Prod.) 118 F	Law tions (1)	RKR RT	R etail 10	
8-17-80	8-27-8	<u>רופסכוויכט</u> ר	10.	- 3 80		366 11 01	, <u>, , , ,</u> , , , , , , , , , , , , , ,	SN, ELC./ 19.	at Amerilabia
20. Total Depth	121. P	lug Back	T.D.	22. If Multipl	le Compl., How	23. Interv	cls . Born	Ty Tools	Cable Tools
4500		4455	··.	Many		Drille	d By	A11	
24. Producing Intervai(	s), of this compl	letion — 7	op, Bottom,	Name					25, Was Directional S
					-				wade yes
4185 - 435	3 San Andı	res							Inclination R
25. Type Electric and (	Jiher Logs Run				<u> </u>			27. 1	Vas Weil Cored
Compensate	d Neutron	Forma	tion Der	usity Dua	l Lateral	og with H	lxo Micr	o Log	No
29.			CASI	NG RECORD (Rep	oort all strings	set in well)			
CASING SIZE	WEIGHT LI	8./FT.	DEPTH	SET HOL	LESIZE	CEME	NTING REC	ORD	AMOUNT PULL
8 5/8	24		4	LO	12 1/4	400	C1 "H"		
4_1/2	10_	.5	449	39	7 7/8	250	С1 "Н"		none
DV Tool				1	7_7/8	480	Lite		
2 3/8	4	7	41	76		····			
29.		LINER R	ECORD	lone		30.	<u> </u>	TUBING REC	ORD
SIZE	TOP	во	TTOM	SACKS CEMENT	SCREEN	SIZE	20	PTH SET	PACKER SET
						2 3/8	3 417	6'	none
	None	****							
	None								
31, Perforation Record	None (Interval, size a	nd numbe	r)		32.	ACID, SHOT, I	FRACTURE,	CEMENT SC	UEEZE, ETC.
31. Perforation Record 4185,4187,4191	None (Interval, size a ,4197,4201	nd numbe	r). ,4213,4	215,4222,	32.	ACID, SHOT, I	AMO	CEMENT SC	NUEEZE, ETC.
31. Perforation Record 4185,4187,4191 4223,4229,4232	None (Interval, size a ,4197,4201 ,4259,4287	nd numbe 4207 7,4290	,4213,4 ,4292,42	215,4222, 294, 4303,	32. DEPTH 4185-4	ACID, SHOT, I INTERVAL 353	AMO	CEMENT SC UNT AND KI gal 15%	NUEEZE, ETC. ND MATERIAL USED HCL
31. Ferforation Record 4185,4187,4191 4223,4229,4232 4311,4313,4321 4352 26 5-	None (Interval, size a ,4197,4201 ,4259,4287 ,4325,4329	nd numbe 4207 7,4290 9,4334	,4213,44 ,4292,42 ,4339,43	215,4222, 294, 4303, 344,4349,	32. DEPTH 4185-4 4185-4	ACID, SHOT, I INTERVAL 353 353	ERACTURE, AMO 5500 45,10	CEMENT SC UNT AND KI gal 15% O gal Ve	NUEEZE, ETC. ND MATERIAL USED HCL ersagel 1500 bd 10 20 and
31. Performation Record 4185,4187,4191 4223,4229,4232 4311,4313,4321 4353, .36 in h	None (Interval, size a ,4197,4201 ,4259,4287 ,4325,4329 ole 1 shot	nd numbe 4207 7,4290 9,4334 t per	,4213,4 ,4292,42 ,4339,42 foot	215,4222, 294, 4303, 344,4349,	32. DEPTH 4185-4 4185-4	ACID, SHOT, I INTERVAL 353 353 4156	RACTURE, 5500 45,10 and 1 200 c	CEMENT SC UNT AND KI gal 15% 0 gal Ve 11,000 1	NUEEZE, ETC. ND MATERIAL USED HCL ersagel 1500 bd 10-20 sand
31. Perforation Record 4185,4187,4191 4223,4229,4232 4311,4313,4321 4353, .36 in h	None (Interval, size a ,4197,4201 ,4259,4287 ,4325,4329 ole 1 shot	nd numbe ,4207 7,4290 9,4334 t per	,4213,44 ,4292,44 ,4339,42 foot	215,4222, 294, 4303, 344,4349,	32. DEPTH 4185-4 4185-4 4185-4 4185 &	ACID, SHOT, I INTERVAL 353 353 4156	RACTURE, 5500 45,10 and 1 200 s	CEMENT SC UNT AND KI gal 15% 0 gal Ve 11,000 1 x Cl "C"	DUEEZE, ETC. ND MATERIAL USED HCL rsagel 1500 bd 10-20 sand squeeze
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### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 6913 Order No. R-6379

APPLICATION OF KERR-McGEE CORPORATION FOR AN UNORTHODOX WELL LOCATION, CHAVES COUNTY, NEW MEXICO.

### ORDER OF THE DIVISION

### BY THE DIVISION:

This cause came on for hearing at 9 a.m. on June 4, 1980, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>18th</u> day of June, 1980, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Kerr-McGee Corporation, seeks approval of an unorthodox well location for its State F Well No. 14 to be drilled 1310 feet from the North line and 1330 feet from the West line of Section 2, Township 8 South, Range 33 East, NMPM, to test the San Andres formation, Chaverco-San Andres Pool, Chaves County, New Mexico.

(3) That the NE/4 NW/4 of said Section 2 is to be dedicated to the well.

(4) That the operator desires to drill a well at the proposed location to evaluate the efficiency of the 40-acre pattern under which the subject pool was developed.

(5) That a well at said unorthodox location may better enable applicant to produce the gas underlying the proration unit. -2-Case No. 691 Order No. R-6379

(6) That no offset operator objected to the proposed unorthodox location.

(7) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

#### IT IS THEREFORE ORDERED:

(1) That an unorthodox well location for the San Andres formation is hereby approved for the Kerr-McGee Corporation State F Well No. 14 to be located at a point 1310 feet from the North line and 1330 feet from the West line of Section 2, Township 8 South, Range 33 East, NMPM, Chaveroo-San Andres Pool, Chaves County, New Mexico.

(2) That the NE/4 NW/4 of said Section 2 shall be dedicated to the above-described well.

(3) 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 the day and year hereinabove designated.

> STATE OF NEW MEXICO QIL CONSERVATION DIVISION

El ne vi

JOE D. RAMEY Director

SEAL

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## CHAVEROO (SAN ANDRES) FIELD

### Well Data Sheet

			Original	Cum. Prod.		Current
Operator/Well Name	Location Sec-Twp-Ree	Completion	Oil in Place	To 2-1-80	Percent	Production
operatory nerr mane		Date		<u>    (DU)                                </u>	Recovery	
Kerr-McGee						
State F No. 1-D	2-8S-33E	6-66	363,230	65,133	17.9	2.2
State F No. 2-C	2-8S-33E	6-66	640,990	61.581	9.6	5.2
State F No. 3-E	2-8S-33E	7-66	213,665	75.741	35.4	3.8
State F No. 4-F	2-8S-33E	7-66	619,625	105.321	17.0	4.3
State F No. 5-L	2-8S-33E	9-66	359,276	154,547	39.1	14.0
State F No. 6-K	2-8S-33E	8-66	534,157	122,016	22.8	2.1
State F No. 7-J	2-8S-33E	9-66	694,404	78,578	11.3	5.0
State F No. 8-I	2-8S-33E	9-66	395,276	81,377	20.6	6.6
State F No. 10-N	2-8S-33E	10-66	363,227	89,320	24.6	4.9
State F No. 11-M	2-8S-33E	10-66	384,593	75,894	19.7	6.4
State F No. 12-0	2-8S-33E	10-66	470,058	72,554	15.4	5.0
State F No. 13-P	2-8S-33E	11-66	640,988	54,241	8.5	2.9
<i>(</i> <b>1</b> ,	· •		· · · ·			
	7 00 777		·			
State 5 No. 1-1	3-85-33E	4-07	416,642	148,801	35.7	13.0
Levick 2-State No. 1-G	2-85-355	8-00	459,575	80,417	17.5	5.0
Arco		•		. **		
State BF No. 1-A	3-85-33E	4-66	341 859	07 415	28 5	34
State BF No. 4-H	3-85-33E	7-66	715 768	83 185	11 6	3 9
	0 00 001	, <b>U</b> U	713,700	05,105	11.0	<b>J</b> • J
Sun		· · · ·			· .	· ·
N.M. Az. St. No. 15-P	34-7S-33E	12-65	256,395	50,591	19.7	SI 3-78
State Tr. C No. 1-B	2-8S-33E	6-66	544,838	80.015	14.7	4.4
		· · ·	•			
Marathon	· .					
State 35 No. 2-M	35-7S-33E	3-66	341,859	39,511	11.6	2.0
Braden-Deen		· · ·				
State De No. 1-N	35-75-338	4-66	138 007	51 110	10 A	1 6
ocace be no. I-n	JJ - / J - JJ	4-00	430,001	34,410	12.4	±+U .
Getty	• • • • • • • • • • • • • • • • • • •				· · ·	
Hobbs T. Bty. 2 # 18-0	35-7S-33E	5-66	373,909	97.287	26.0	2.4
	· · · · · · · · · · · · · · · · · · ·		,			<b></b>



R 33 E

## KERR-MCGEE CORPORATION

STATE F LEASE CHAVEROO (SAN ANDRES) FIELD CHAVES COUNTY NEW MEXICO

Scale: 4"=1 mile

By: D.C.

MAY 28, 1980



November 14, 1980

BRUCE KING

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Kerr-McGee Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125

> Re: Application for NGPA Infill Well Findings Under Provisions of Order No. R-6013 <u>- A</u>

Stat	е	F	Wel	11	No.	14,	Cha	veroo
San	Ar	ndi	es	Pc	ool,	Cha	ves	County

We may not process the subject application for infill findings until the required information, forms, or plats checked on the reverse side of this letter are submitted.

Sincerely.

R. L. STAMETS Technical Support Chief

RLS/dr

·	<b>A</b>	сору	of Form	C-101	must be	submitted.

A copy of Form C-102 must be submitted.

The pool name must be shown.

X I

- The standard spacing unit size for the pool must be shown.
  - Give the Division Order No. which granted the non-standard proration unit.
  - Please state whether or not the well has been spudded and give the spud date, if any.
- X Information relative to other wells on the proration unit is incomplete. There is no record of the parameters used in calculating tract reserves or the formula in either this application or the file in Case No. 6913. There must be a statement as to why the existing well cannot effectively and efficiently drain the proration unit.
- X The geologic and reservoir data is incomplete or insufficient. No structure map was attached as required.

Other: There must be a demonstration of the volume of increased ultimate recovery expected to be obtained as a result of completion of the infill well and of how and upon what factors such volume was determined.



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

BRUCE KING GOVERNOR

SECRETARY

**December 11, 1980** 

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Kerr-McGee Corporation Oil and Gas Division Kerr-McGee Center Oklahoma City, Oklahoma 73125

Attention: Mr. David Christian

Re: Application for Infill Findings, State F Well No. 14, Chaveroo-San Andres Pool

Dear Mr. Christian:

Your letter of December 1, 1980, providing supplemental data relative to the subject application is complete in all respects save one.

As the infill finding is based on the recovery of additional gas from the proration unit, there must be a demonstration of the volume of additional gas reasonably to be expected to be produced from Well No. 14.

Upon receipt of this information, the application will be processed.

Sincerely,

R. L. STAMETS Technical Support Chief

RLS/dr



December 1, 1980

OIL AND GAS DIVISION

New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501 Attn: R. L. Stamets, Technical Support Chief

APPLICATION FOR INFILL WELL DETERMINATION STATE F NO. 14 CHAVEROO (SAN ANDRES) POOL CHAVES COUNTY, NEW MEXICO

Dear Mr. Stamets:

In accordance with your letter dated November 14, 1980, you will find attached the information requested by you for the above well. I first wish to point out that the Chaveroo (San Andres) Pool is an oil reservoir, and all studies have been made regarding oil production rather than gas.

1. The State F No. 14 is within the same proration unit as the State F No. 2. The calculated reserves for the proration unit ( $NE_{4}^{2} NW_{4}^{2} 2-8S-3E$ ) were 640,990 barrels of oil. This was calculated by using the net pay in the State F No. 2 of 60', with an average porosity of 6%, average salt water saturation of 30%, and formation volume factor of 1.22. Original oil in place is calculated as:

OOIP = (7758) (A) (h) ( $\emptyset$ ) (1-Sw)/B

A = Protation unit acreage = 40 acres

h = Average net pay = 60 feet

 $\emptyset$  = Average porosity = 6%

Sw = Average salt water saturation = 30%

B = Formation volume factor = 1.22

OOIP = (7758)(40)(60)(.06)(1-.3)/1.22

OOIP = 640,990 Barrels of oil underlying the subject proration unit.

From June, 1966 to February, 1980, the State F No. 2 produced 61,581 barrels of oil, or 9.6% of the oil in place underlying the subject proration unit. Other wells in the Chaveroo Pool have produced as much as 39% of the oil underlying their proration units. Therefore it is Kerr-McGee's position that the State F No. 14 is needed to recover hydrocarbons (primarily oil) that the State FNO. 27 well will not effectively and efficiently drain. This information is shown on the attached well data sheet, which was entered into evidence in Case No. 6913 approving the drilling of the State F No. 14.

DEC 0 4 198( OIL CONSERVATION DIVISION

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#### 2. Structure Map is attached.

3. The State F No. 14 currently produces 20 BOPD. Assuming a decline of 15%, which is representative of the Chaveroo Field, the State F No. 14 will produce 43,000 barrels of oil. This amount of oil would not be produced from the State F No. 2.

I am aware of the burdensome procedures that you must follow to satisfy the NGPA requirements of the FERC. Please keep in mind that the State F No. 14 is an infill oil well in the Chaveroo (San Andres) Field. The well was drilled in an attemptito recover oil that would not be recovered by any other well. Production of associated (casinghead) gas is secondary to our efforts to produce oil in this field. The State F No. 14 produces about 9 MCF of gas per day. Since this gas is associated with the produced oil, it is also our position that this gas can not be produced by any other well.

If any further information is required, please contact me at the address or phone shown below.

Very truly yours,

David Christia

David Christian P. O. Box 25861, MT-25-G Oklahoma City, Oklahoma 73125 (405) 270-2129

DC/db

Attachments/

bcc: Towell - CFR (State F No. 14) G-S-H-C

### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

November 14, 1980

BRUCE KING GOVERNOR

SECRETARY

Kerr-McGee Corporation Kerr-McGee Center Oklahoma City, Oklahoma 73125

E, EI DEC 0 4 1980 OIL CONSERVATION DIVISION SANTA FE

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 97501 (505) 827-2434

Re: Application for NGPA Infill Well Findings Under Provisions of Order No. R-6013 <u>-A</u>

State F	Well No	. 14, 0	haveroo
San And	res Pool	, Chave	<u>s Count</u> y

We may not process the subject application for infill findings until the required information, forms, or plats checked on the reverse side of this letter are submitted.

Sincerely,

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5 1000

OIL & CAS DIVI

R. L. STAMETS Technical Support Chief

RLS/dr

- A copy of Form C-101 must be submitted.
- A copy of Form C-102 must be submitted.
- The pool name must be shown.

X I

X

- The standard spacing unit size for the pool must be shown.
- Give the Division Order No. which granted the non-standard proration unit.
- Please state whether or not the well has been spudded and give the spud date, if any.
- X Information relative to other wells on the proration unit is incomplete. There is no record of the parameters used in calculating tract reserves or the formula in either this application or the file in Case No. 6913. There must be a statement as to why the existing well cannot effectively and efficiently drain the proration unit.

The geologic and reservoir data is incomplete or insufficient. No structure map was attached as required.

Other: There must be a demonstration of the volume of increased ultimate recovery expected to be obtained as a result of completion of the infill well and of how and upon what factors such volume was determined.

# CHAVEROO (SAN ANDRES) FIELD

Well Data Sheet

Operator/Well Name	Location Sec-Twp-Rge	Completion Date	Original Oil in Place (BO)	Cum. Prod. To 2-1-80 (BO)	Percent Recovery	Current Production (BOPD)
Kerr-McGee		· · · ·				
State F No. 1-D	2-8S-33E	6-66	363,230	65.133	17.9	2.2
State F No. 2-C	2-8S-33E	6-66	640,990	61,581	9.6	5.2
State F No. 3-E	2-8S-33E	7-66	213.665	75,741	35.4	3.8
State F No. 4-F	2-8S-33E	7-66	619.625	105.321	17.0	4.3
State F No. 5-L	2-8S-33E	9-66	359,276	154,547	39.1	14.0
State F No. 6-K	2-8S-33E	8-66	534,157	122,016	22.8	2.1
State F No. 7-J	2-8S-33E	9-66	694,404	78,578	11.3	5.0
State F No. 8-I	2-8S-33E	9-66	395,276	81.377	20.6	6.6
State F No. 10-N	2-8S-33E	10-66	363,227	89,320	24.6	4.9
State F No. 11-M	2-8S-33E	10-66	384,593	75,894	19.7	6.4
State F No. 12-0	2-8S-33E	10-66	470,058	72,554	15.4	5.0
State F No. 13-P	2-8S-33E	11-66	640,988	54,241	8.5	2.9
Champlin		· .	·		· · · · ·	
State 3 No. 1-I	3-8S-33E	4-67	416,642	148 801	35.7	13.6
Levick 2-State No. 1-G	2-8S-33E	8-66	459,375	80,417	17.5	5.6
Arco	· · ·	· · · ·				
State BF No. 1-A	3-8S-33E	4-66	341,859	97 415	28 5	3 1
State BF No. 4-H	3-8S-33E	7-66	715,768	83,185	11.6	3.9
Sun						
N.M. Az. St. No. 15-P	34-7S-33E	12-65	256, 395	50 591	19 7	ST 3-78
State Tr. C No. 1-B	2-8S-33E	6-66	544,838	80,015	14.7	4.4
Marathon		. · ·		•	· ·	•
State 35 No. 2-M	35-7S-33E	3-66	341,859	39,511	11.6	2.0
Braden-Deen			•			-
State De No. 1-N	35-7S-33E	4-66	438,007	54,418	12.4	1.6
Getty		· · ·		· · · ·		. '
Hobbs T. Bty. 2 # 18-0	35-7S-33E	5-66	373,909	97,287	26.0	2.4

EXHIBIT NO. 2