

Amoco Production Company

501 WestLake Park Boulevard Rost Office Box 3092 Houston, Texas 77253

September 27, 1988

File: WGW-6314-WF

Re: Application for Approval to Directionally Drill South Hobbs (GSA) Unit Nos. 223 and 224 Hobbs Grayburg - San Andres Pool Lea County, New Mexico

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

Attention: W. J. LeMay, Director

Amoco Production Company, as operator of the South Hobbs (Grayburg-San Andres) Unit, Lea County, New Mexico, hereby applies for administrative approval to directionally drill the subject wells at the attached surface and bottomhole locations (see Attachment I for locations).

Required notice of this application has been served by certified mail to each operator of proration or spacing units offsetting the unit for which this directional drilling exception is requested. Each party shown on the attached service list has been furnished a copy of this letter complete with all attachments.

If there are any questions concerning this application, please contact Howard Black (713/584-7213).

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Wayne G. White Administrative Services Manager

HIB/id

Attachments

cc: State of New Mexico Oil Conservation Division P. O. Box 1980 Hobbs, New Mexico 88240

NOTICE REQUIREMENTS South Hobbs (GSA) Unit

Surface Owners

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, New Mexico 87504

Phillips Petroleum Company 4001 Penbrook Odessa, Texas 79762

Amoco Production Company P. O. Box 68 Hobbs, New Mexico 88240

Offset Operators

Shell Western E&P, Inc. P. O. Box 991 Houston, Texas 77001

Conoco, Inc. P. O. Box 460 Hobbs, New Mexico 88240

Chevron U.S.A. Attn: J. C. Prindle P. O. Box 670 Hobbs, New Mexico 88240

Marathon Oil Company P. O. Box 552 Midland, Texas 79702

	ATMENT	OIL	CONSERVATI P. O. BOX 20		VISION		Form C-101 Revised 10	
DISTRIBUTION SANTA FE		SA	NTA FE, NEW M		7501		1	e Type of Loase
FILE							STATE	
U.S.G.S.							.5. State Off	& Gas Loano No.
OPERATOR							huun	
	N FOR PE	RMIT TO	DRILL, DEEPEN,	OR PLUC	BACK		$\Delta M M$	
la. Type of Work			_			_	7. Unit Agre	eement Name
b. Type of Well DRILL			DEEPEN		PLUG	ВАСК	8. Farm or L	.ease Name
OIL CAS WELL	0TH	CR		SINGLE	MU	ZONE	South H	obbs (GSA) Unit
2. Name of Operator Amoco Production C	ompany			·			9. Well No. 223	
3. Address of Operator P. O. Box 3092, Ho							10. Field or Hobbs G	nd Pool, or Wildcat SA
4. Location of Well SL/BHL UNIT LETTI	n <u>N</u>	LO	CATED 1791/1900	EET FROM TH	w <u>West</u>	LINE		
1257/1330 , LET FROM	THE South	. L1	NE OF SEC. 34 T	wp. 18-5	S RGE, 3	B-E NMPM		
		<u>IIIII</u>	IIIIIIIIIII	<u>IIIII</u>	IIIII	<u>IIIIIII</u>	12. County	
	HHH	<i>HH</i> H	,41,11,11,11,11,1	<u>†††††</u>	<i>ijijiji</i>	HHH	Lea	
		IIIIi		illili.				
*****	ttttttt	HHH.	; {{}}}}}	9. Froposed	Depth	19A. Formation	u ////////////////////////////////////	20. Rotury or C.T.
		<u>IIIII</u>		4500		Grayburg		
1. Elevations (Show whether DF, 3613.2	KT, etc.)			21B. Drilling /A	Contractor			. Date Work will start
23.		Branke		<u>' A</u>		·····	1 Novem	ber 1988
		F	PROPOSED CASING AND	CEMENT F	ROGRAM			
SIZE OF HOLE	SIZE OF	CASING	WEIGHT PER FOOT	SETTIN	IG DEPTH	SACKS OF	CEMENT	EST. TOP
14-3/4"	10-3/4"		40.5#	1600'			<u>te to su</u>	
9-7/8"	<u>7"</u>		23#	4500'		_ Circula	te to su	rface
			1	1		l		
Propose to drill an logs will be run an commercial producti	d evalua on.	well in ted. P Program	lan to perforate	e and st 1600' 3800'	imulate Native Brine N	as neces Spud Mud	ter reacl sary to (hing TD, establish
BOP Diagram Attache	d							
N ABOVE SPACE DESCRIBE PR IVE 2046, SIVE BLOWOUT PREVENTI	OPOSED PRO	DGRAMI IF	PROPOSAL IS TO DEEPEN OF	T PLUG BACK,	, GIVE DATA O	N PRESENT PRO	BUCTIVE ZONE	AND PROPOSED NEW PRODUC
IVE ZONE, GIVE BLOWOUT PREVENT	CR PROGRAM, I	IF ANY.				N PRESENT PRO	GUCTIVE 20NE	AND PROPOSED NEW PRODUC
IVE ZONE, GIVE BLOWOUT PREVENT	TA PROGRAM, I	ue and com		npwiedge and	i bellef.		Date	AND PROPOSED NEW PRODUC
N ABOVE SPACE DESCRIBE PR IVE ZONE. GIVE BLOWOUT PREVENT hereby certiff that the informatic ligned (This space for S	n sbove is tri H. I	ue and com	plete to the best of my kn	npwiedge and	i bellef.			AND PROPOSED NEW PRODUC
hereby certify that the informatic igned	n sbove is tri H. I	ue and com	plete to the best of my kn	npwiedge and	i bellef.			AND PROPOSED NEW PRODUC

304(- L.P. T-0-RAN 60P

 BUP's to be fluid operated. BUP's and all fittings must be in good condition and rated at 3LGD psi w.p. minimum.

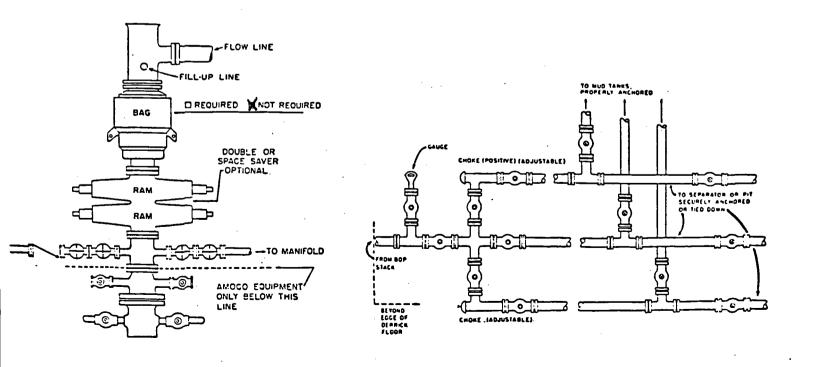
 Ecuipment through which bit must pass shall be at least as large as casing size being orilled through.

Upper kelly cock is required and shall be 3000 psi w.p. minimum. Lower kelly cock is (required)(not required).

- Hydril or comparable safety valve shall be available on rig floor with connection tion or subs to fit any tool joint in the string. Valve to be full more 5000 psi w.p. minimum.
- Hydril or equivalent drill pipe back pressure valve is (required)(not required),
 All Educement unstream of choker including bill line equipment shall i
- G. All equipment upstream of chokes, including kill line equipment shall be flanged or clamped and of a test pressure no less than that of the blowout preventer. All valves upstream of choke shall be (3") (4") gate valves Cameron Type "F" or equivalent. All equipment downstream of chokes may be flanged or screw end cate or plug. Line from spool to manifold cross to be a minitum of 3", straight and short as possible with minimum bends. Other lines may be 2", 3" or 4". Choke manifold, beyond second valve from cross, must be positioned outside of substructure. Hanifold, header and all lines must be adequately supported and properly anchored. Two inch (2") lines and valves are permitted on the kill line. All valves designated for H₂S service are (required) (not required).
 Z. Blowout preventer closing unit equipment to include accumulator capable of
- Blowout preventer closing unit equipment to include accumulator capable of closing, opening and closing the bag and pipe rams with a minimum remaining pressure of 1200 psi. After closure, the remaining fluid volume will be at least 50 percent of original volume. Two independent sources of pump power are required on each closing unit installation and shall meet all IAOC specifications. Operating time for closing unit shall not be greater than one minute with charging pump shut down. Time test must be witnessed by Amoco representative while nippling up and test results reported on IAOC report. Failure to meet these conditions will necessitate corrective action by contractor and retesting all at contractor's expense.
 The accumulator must be located at least 50 feet from the well. Blowout
- The accumulator must be located at least 50 feet from the well. Blowout preventer controls must be properly labeled and located as close to drillers position as feasible. Floor control valves are (required)(not required).
 Fluid lines from accumulator to 50P's and all remote control fluid lines
- 9. Fluid lines from accumulator to BUP's and all remote control fluid lines shall be steel, and rated at or above maximum accumulator pressure. Lines shall be routed in bundles and adequately protected from damage.
- 10. Use rams in following positions:* Drilling Running Casing

Upper ram	brill pipe	Lasing
Lower Ram	61 ind	" blind
*Amoco District Superintende	nt may reverse location of	rams.

11. Extensions and hand wneels to be installed and braced at all times.



STATE OF NEW MEXICO

P. O. BOX 2088

Form	C - 1	02	
Revi	sed	10-1	1-7

ENERGY AND MINERALS DEPARTMENT	SANTA FI	E, NEW MEXICO 8	7501	Revised 10-1-78
	distances must be fr	on the outer boundaries of	the Section.	
Amoco Production Compan	/	South Hobbs Gray	burg San Andres	Unit 223
Unit Letter Section Town N 34	ship 18 South	38 East	County Lea	
Actual Footage Location of Well; 1791 feet from the West	line and	1257	South	line
Ground Level Elev. 3613.2 feet Grauburg	^	Hobbs Grayb	1 -	Dedicaled Acreage: 40 Acrea
1. Outline the acreage dedicated to				
2. If more than one lease is dedic interest and royalty).	ated to the well,	, outline each and iden	ntify the ownership	thereof (both as to working
3: If more than one lease of differen dated by communitization, unitiza	tion, force-poolin	g. etc?	have the interests of	of all owners been consoli-
Yes No If answer	is "yes," type of	consolidation		·
If answer is "no," list the owner this form if necessary.)	and tract descri	iptions which have ac	tually been consoli	dated. (Use reverse side of
No allowable will be assigned to (he well until all	interests have been c	onsolidated (by co	mmunitization, unitization,
forced-pooling, or otherwise) or unt				
				CERTIFICATION
		1		
		1		certify that the Information con-
			11	my knowledge and belief.
				· · ·
_· +	NOTE: Th	is well will be		1 Blanci
	di	rectionally drill	ed. Position	had t
		e Bottom Hole Loc 11 be 1900 feet f	rom Company	min. Analyst
 *	1	e West line and l et from the South		o Production
		Drilling Unit Le	i imel i -	9-27-88
l				
				r certily that the well location in this plat was plotted from field
		ł		actual surveys made by me or
			11	supervision, and that the same and correct=to-the best of my
		l l	knowledg	ge and belief.
			Sep	tember 21, 1988
		l l	Date Surve	yed Litans les
1557		1	Reg Labor ph	Land Surveyor
		ł	NM	LS No: 10034
		╶───	Certificate	· · · · · · · · · · · · · · · · · · ·
0 330 660 90 1320 1650 1980 2310	2640 2000	1500 1000 50	o o	·

ATTACHMENT I

Well Name	Type of Well	Surface Location	Bottomhole Location	Elevation (Ground Level)
SHU No. 223	Producing	Unit N, 1791' FWL x 1257' FSL, Sec. 34 T-18-S, R-38-E	1900' FWL x 1330' FSL, Sec. 34, T-18-S, R-38-E	3613.2'
SHU No. 224	Producing	Unit B, 1530' FEL x 625' FNL, Sec. 4, T-19-S, R-38-E	1440' FEL x 580' FNL, Sec. 4, T-19-S, R-38-E	3620.3'

Note: Reason for directional drilling wells is due to surface obstruction (i.e. buildings, streets, etc.).

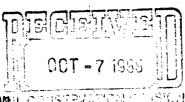


STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT **OIL CONSERVATION DIVISION** HOBBS DISTRICT OFFICE

GARREY CARRUTHERS GOVERNOR

10-3-88 đ

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161



OIL CONSERVATION DIVISION & CONSERVATION SALTA FE P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC		
DHC		
NSL	X	400
NSP		
SWD		······································
WFX		
PMX		

Gentlemen:

I have examined the application for the:

224 - B- 4 -19-38 # 223 - N/K 34-18-38 moci Operator No. Unit Lease & Well

and my recommendations are as follows:

Yours very truly, Jerry Sexton

Supervisor, District 1

/ed



501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253

October 4, 1988

Honord Black 713-584-7212

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, New Mexico 87504

File: WGW-6313-WF

Gentlemen:

Request for Waiver to Directionally Drill At Unorthodox Locations South Hobbs (GSA) Unit Nos. 223 and 224 Lea County, New Mexico

Amoco Production Company, as operator of the South Hobbs (GSA) Unit, hereby notifies you that we have applied to the NMOCD for administrative approval to directionally drill the subject wells at the attached surface and bottomhole locations. These wells will also be drilled at unorthodox locations.

If you have no objections to the directional drilling/unorthodox locations of these wells, please sign below and forward one copy to the NMOCD in Santa Fe, one copy to the NMOCD in Hobbs, one copy to this office, and retain a copy for your file. Addressed, stamped envelopes have been provided for your convenience.

If there are any questions concerning this application, please contact Howard Black (713/584-7213).

V. P. Whitfield

APPROVAL company: New Mexico State Loud a Chin By: Llord a Vhun Date: 10-6-88

HIB/jd

Attachments.



501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253

October 4, 1988

Shell Western E&P, Inc. P. O. Box 991 Houston, Texas 77001

File: WGW-6313-WF

Gentlemen:

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U. P. Whitfield v. p. Whitfield HIB/jd Attachments

	APPROVAL			
Company:	SHELL WESTERN E & P INC.			
	OF Keller	W.F.N. KELLDORF		
By:				
Date:	10/12/870			





501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253

September 27, 1988

File: WGW-6313-WF

Request for Waiver to Directionally Drill South Hobbs (GSA) Unit Nos. 223 and 224 Lea County, New Mexico

Chevron U.S.A. Attn: J. C. Prindle P. O. Box 670 Hobbs, New Mexico 88240

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If there are any questions concerning this application, please contact Howard Black (713/584-7213)

P. Whitfield HIB/jd

Attachment

APPROVAL Company: Chevron U.S.A. By: lan lu Bol no Division Provation Date: Caber 13, 1988 Engineer



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501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253

September 27, 1988

File: WGW-6313-WF

Request for Waiver to Directionally Drill South Hobbs (GSA) Unit Nos. 223 and 224 Lea County, New Mexico

Shell Western E&P, Inc. P. O. Box 991 Houston, Texas 77001

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V. P. Whitfeld

HIB/jd Attachments

V. P. Whitfield

Company:	Shell Western E&P Inc.
By:	a. Fare
• * · · ·	October 5, 1988

APPROVAL



501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253

September 27, 1988

File: WGW-6313-WF

Request for Waiver to Directionally Drill South Hobbs (GSA) Unit Nos. 223 and 224 Lea County, New Mexico

Phillips Petroleum Company 4001 Penbrook Odessa, Texas 79762

Amoco Production Company, as operator of the South Hobbs (GSA) Unit, hereby notifies you that we have applied to the NMOCD for administrative approval to directionally drill the subject wells at the attached surface and bottomhole locations.

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If there are any questions concerning this application, please contact Howard Black (713/584-7213).

V. P. Whitfield HIB/jd Attachments

Company:	Phillips Petroleum Company
By:	m
	D. A. Brown, Director, Res. Engineering
Date:	10/7/88

APPROVAL

Phillips Petroleum Company's approval of this waiver request is conditional that sufficient isolation is maintained between all surface activities and any pipelines operated by Phillips Petroleum Company in the respective areas. Phillips' Hobbs office should be contacted to identify any pipelines in the area prior to start of operations (505-397-5500)



Production Department Hobbs Division North American Production

Conoco Inc. 726 East Michigan P.O. Box 460 Hobbs, NM 88241 (505) 397-5800

10.0

October 17, 1988

New Mexico Oil Conservation Division 310 Old Santa Fe Trail Santa Fe, New Mexico 87503

Attention David Catanach

Gentlemen:

Amoco's Request for Waiver to Directionally Drill the South Hobbs (GSA) Unit Nos. 223 & 224, Lea County, New Mexico

Conoco Inc. has approved Amoco's request as shown above. One copy of their letter ballot is attached for your file, and one copy has been forwarded to the NMOCD office in Hobbs, and one returned to Amoco.

H. A. Ingram Conservation Coordinator

/tm

cc: NMOCD, Hobbs Amoco, Houston

501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253



September 27, 1988

File: WGW-6313-WF

Request for Waiver to Directionally Drill South Hobbs (GSA) Unit Nos. 223 and 224 Lea County, New Mexico

Conoco, Inc. P. O. Box 460 Hobbs, New Mexico 88240

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If there are any questions concerning this application, please contact Howard Black (713/584-7213).

V. P. Whitfield

HIB/jd

CONOGO Company: October 17, 1988 Date:

APPROVAL

Attachments