

## **Amoco Production Company**

RECEIVED

OCT 28 1991

OIL CONSERVATION DIVISION

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

October 24, 1991

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Attention: W. J. LeMay, Director

The second second

File: KWB-810-WF

Application for Administrative Approval of Unorthodox Locations South Hobbs (GSA) Unit No. (229, 230, 233, 235, 238 Hobbs Grayburg - San Andres Pool

Lea County, New Mexico

Amoco Production Company, as operator of the South Hobbs (Grayburg-San Andres) Unit, Lea County, New Mexico, hereby applies for administrative approval to drill the subject wells at the attached unorthodox locations. These wells are being drilled in order to permit the completion of an efficient production and injection pattern within our secondary recovery project. (See Attachment I for location.)

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

THE PERSON

If there are any questions concerning this application, please contact Kim Colvin (713/596-7686).

Yours very truly,

K. W. Brand

Administrative Services Manager

The provided by the min

KAC/avd

Attachments

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

## ATTACHMENT I

Well Name	Type of Well	Surface Location	Elevation (Ground Level)
SHU No. 229	anjection	Sec. 4, T-19-S, R-38-E	3618.9′
SHU No. 230	Injection	Unit B, 1100' FNL X 2220' FEL, Sec. 4, T-19-S, R-38-E	3617.8′
SHU No. 233	fnjection	Unit G, 2245' FNL X 2420' FEL, Sec. 4, T-19-S, R-38-E	3612.5′
SHU No. 235	Iffection	Unit K, 2160' FSL X 2414' FWL, Sec. 4, T-19-S, R-38-E	3607.3′
SHU No. 238	Injection	Unit 0, 660' FSL X 2610' FEL, Sec. 4, T-19-S, R-38-E	3606.0′

NOTE: The purpose of the unorthodox locations is the establishment of an efficient pattern for production and injection to maximize ultimate recovery from the reservoir.

## NOTICE REQUIREMENTS

South Hobbs, (GSA) Unit

## Well Nos. 229 & 230

Shell Western E & P, Inc. P. O. Box 576 Houston, TX 77001-0576

## Submit to Appropriate District Office

CONDITIONS OF AFFROVAL IF ANY:

## State of New Mexico Energy, Minerais and Naturai Resources Department

Form C-101

Revised 1-1-89

State Lease — o comes Fee Lease — 5 comes	377		•		N.	eamen 1.7.03			
DISTRICT I P.O. Box 1980, Hobbs, NN	OIL ( M 88240	API NO. ( amg	API NO. ( assigned by OCD on New Wells)						
DISTRICTI		anta Fe, New Mexico	87504-2088	5. Indicate Typ	5. Indicate Type of Lease				
P.O. Drawer DD, Artesia,	NM 88210			STATE FEE X					
DISTRICT III 1000 Rio Brazos Rd., Azze	c. NM 87410			6. State Oil &	Gas Lease No.				
	TION FOR PERMIT T	O DRILL, DEEPEN, O	R PLUG BACK						
DRIL b. Type of Well: OIL GAS WELL WELL	RE-ENTER Ones Injec	SINGLE	PLUG BACK MALIFIE ZONG	South H	obbs (GSA)				
2 Name of Operator Amoco Produc	ction Company			8. Well No.	229	41 41			
3. Address of Operator P. O. Box 30	092, Houston, T	X 77253		9. Pool name o Hobbs G	rayburg S.	Andres			
4. Well Location Unit Letter	C : 1088 Feet Fr	om The North	Line and 1	977 Feet Fro	om The Wes	t Line			
Section	4 Towns	nip 19-S Ran	26 38-E	и <b>мгм</b> Le	a	County			
		10. Proposed Depth 4350 *		1.Formston San Andres	1	tary or C.T.			
13. Elevations (Show which 3618.9)		4. Kind & Status Plug. Bond	15. Drilling Contra		5. Approx. Date We 11/6/91	ork will start			
17.		OPOSED CASING AN	D CEMENT PRO	GRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH			EST. TOP			
12-1/4"	8-5/8"	32# K-55	1600'	1100 s		urface			
7-7/8"	5-1/2"	15.5# K-55	4350'	1300 s	<u>sx                                    </u>	Surface			
be run and e injection.  * Add mud	drill & equip we evaluated. Perf		formation. mulate as nec  Mud Progra 0 - 1600' 1600' - 38 3800' - TD	essary in at m: N 00' S	ng TD, log tempting r Mative/Spud Saturated/B	eservoir i Brine			
ZONE. GIVE NLOWOUT PREVE	NTER PROGRAM, IF ANY.	AM: IF PROPOSAL IS TO DEEPEN O				0/15/91			
TYPE OR PRINT NAME	Kim. A. Colvi	n			7 1 TELEPHENE	3/ 596-7686			
(This spece for Susta Use)									
APTROVED BY		mz			DATE				

990 1320 1650 1980 2310 2640

2000

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## OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revisea 10-1-78

11013

SANTA FE, NEW MEXICO 87501

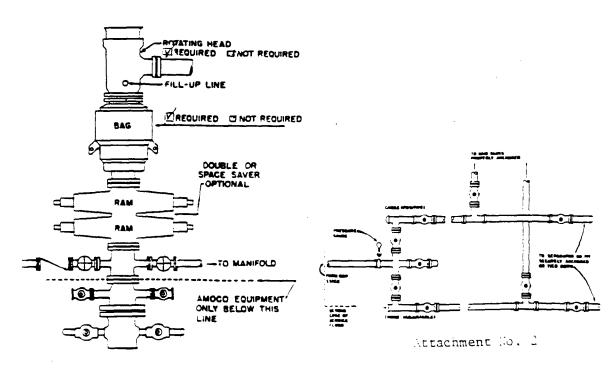
		All dies	ances must be free	a the same boundar	ies of the Section.		
Amoc	o Produ	ction Com	pany	Soc	ıth Hobbs U	n1t	Wall Na. 229
Jait Letter C	Soction	Townsip	19 South	Range 38 Ea	Creaty	Lea	
Actual Factage Location	of Wall:	North	line and	1977′	foot from a	west	line
3618.9'		San Andr	]	Pool	s (G/SA)		nd Agreeges 40 Agree
2. If mere th	am one lease nd royalty)	s is dodicated	to the well, out	ine each and ide	ntify the ownersh	aip thereof (bot	h as to working
Too  If answer in this form No allowab	No "no," list if necessarile will be a	If answer is the owners and ry.)	yos," type of tract descripti	consolidation one which have a	ctually been cons	olidatod. (Uso r	everse side of
/977		AMOCO LPN 538660 South Well	Hobbs Unit No. 229		1	I hereby certify the tained herein is best of my knowled by the tail of the ta	Min
			A SISTERIAL STATES	No. 11013	,r.	shown on this pl notes of actual s under my supervi- is true and corre knowledge and b	tober 2.1991

## ATTACHMENT 3000# W.P. BOP STACK

- 30P's to be fluid operated. 30P's and all fittings must be in good condition and rated at 3,000 ps; w.p. minimum.
- Equipment through which bit must pass shall be at least as large as casing size being drilled through.
- Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly cock is (required)(not required).
- Hydril or comparable safety valve shall be available on rig floor with connection or sups to fit any tool joint in the string. Valve to be full bore 3,000 ps; w.o. minimum.
- 5. Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 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" or 4" gate valves Cameron Type "F" or equivalent. All equipment downstream of chokes may be flanged or screw end gate or plug. Pressure gauge will be Cameron or equivalent. Line from spool to manifold cross and chokes to be a minimum of 3", straight and short as possible with minimum bends. Choke manifold must be positioned outside of substructure. Manifold, header and all lines must be adequately supported and properly anchored. Two inch (2") lines and valves are permitted downstream of chokes and on the kill line. All valves designated for H2S service are (required) (not required). Chokes will be one positive and one adjustable.
- 7. 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 IADC 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 IADC report. Failure to meet these conditions will necessitate corrective action by contractor and retesting all at contractor's expense.
- 8. The accumulator must be located at least 50 feet from the well. Blowout preventer controls must be properly labeled. Floor control valves are (required)(not required).
- 9. Fluid lines from accumulator to BOP's and all remote control fluid lines (if applicable) shall be steel, and rated at or above maximum accumulator pressure. Lines shall be routed in bundles and adequately protected from damage.
- 10. Fill up line must be steel. Kill line cannot be used for fill up line.
- 11. Use rams in following positions:

Iling Running Casing
I Pipe Casing
ind Blind

- \* Amoco District Manager may reverse location of rams.
- 12. Extentions and hand wheels to be installed and braced at all times.



SIZE OF HOLE

12-1/4"

7-7/8"

CONDITIONS OF APPROVAL, IF ANY:

Si	ibrat to Appropriate istrict Office late Lease — 6 copies ce Lease — 5 copies	State of New Mexico Energy, Minerais and Natural Resources Department			nt	Form C-101 Revised 1-1-89			
פ	ISTRICT I O. Box 1980, Hobbs, NM 88240		ERVATION P.O. Box 2088		API NO. ( as	asgned by OCD o	a New Wells)		
	ISTRICT II O. Drawer DD, Artesia, NM 88210	Santa Fe,	New Mexico 87	504-2088	5. Indicate	Type of Lease STAT	E FEE IX	_ _	
	ISTRICT III 000 Rio Brazos Rd., Azzec, NM 87410				6. State Oil	& Gas Lease No.	•		
	APPLICATION FOR F	PERMIT TO DRIL	L. DEEPEN, OR	PLUG BACK	7//////			7	
ls.	. Type of Work:				7. Lease No	une or Unit Agree	ment Name	_	
b.	DRILL X  Type of Well: OIL GAS WELL OTHER	RE-ENTER I	DEEPEN P SINGLE 2008 X	LUG BACK MILITELE ZONE	South	Hobbs (GS	A) Unit		
2.	Name of Operator Amoco Production Com	pany			8. Well No.	230	٠٠,		
3.	Address of Operator P. O. Box 3092, Hou	ston, TX 772	53		9. Pool nam Hobbs		S. Andres	_	
4.	Well Location Unit Letter B : 110	O Feet From The	North	Line and	2220 Feet	From The	East Li	De	
<del>, ,</del>	Section 4	Township 1	9-S Range	38-E	NMPM	Lea	County	_	
4			0. Proposed Depth		//////////////////////////////////////		Rotary or C.T.	2	
		/////////	4350'	1	San Andres	12	Rotary		
13.	Elevations (Show whether DF, RT, GR, 3617.8 GR	etc.) 14. Kind & .	Status Plug. Bond	15. Drilling Contra	ictor	16. Approx. Date 11/6/	e Work will start	_	
17.		PROPOSE	D CASING AND	CEMENT PRO	)GRAM				

Propose to drill & equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting reservoir injection.

WEIGHT PER FOOT

K-55

K-55

32#

15.5#

Add mud materials as necessary in attempting reservoir injection.

SIZE OF CASING

8-5/8"

Mud Program:

SETTING DEPTH | SACKS OF CEMENT |

1100 sx

1300 sx

0 - 1600'

1600'

4350'

1600' - 3800' 3800' - TD\*

Native/Spud Saturated/Brine

EST. TOP Surface

Surface

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DESPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the infon	mustion above is true and complete to the best of my	knowledge and belief.	
SIGNATURE	1011.	mme Asst. Admin. Analyst	DATE 10/15/91
TYPE OR PRINT NAME	Kim. A. Colvin		713/ TELEPHONE NO: 596-7686
TITE OK PRINT NAME	KIIII. A. COIVIII		1227210. 390 7080
(This space for State Use)			
APPROVED BY		m.e	DATE

330

1320 1650 1980 2310 2640

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SANTA FE, NEW MEXICO 87501

Form C-102 Revisea 10-1-78

11013

P. O. BOX 20**88** 

Operator	Amaca f	Product 1c		7.30 J	Lease	<del></del>	Hobbs	//01#	Wall Na	
Unit Letter	B Sootie	•	Township		Range		County	0772		
		4	<u></u>	19 Souti	n	38 East	<u> </u>		Lea	·
Actual Feetage		A /	orth	line and	,	220'	foot from	41.	East	line
Ground Lovel E		Producing Forms		III.e and	Pool		I GOOL EPOED		Dedicated Acres	<del></del> _
361		-	n Andri	9 <b>5</b>		Hobbs (	G/SA)		40	Acres
1. Out	ine the ac	rease dedicate	d to the	subject well l	hy colored	percil or he	chara mark	e on the n	let below.	
ine 3. If m	torost and toro than o tod by con	royalty). no loase of d munitization,	ifforont o unitizati		ledicated ting, etc?	o the well, h			of (both as to	a.
th No 4	is form if Allowable w	necessary.)	d to the	woll until all	interests h	Ave been con	solidatod (	by commun	(Uso reverse	ization,
				////	7777				CERTIFICAT	10N
				LPN 53	000 38660 If h Hobbs			tained t	certify that the in nerein is true and my knowledge and	complete to the
								Remidian Asst. Amoco Date 10-14	Productio	Amalyst en Company
	***		·	The state of the s	REGIST CONTINUES OF STREET	No. 1013	Manager Harris	shown of notes of under makes is true knowled	f actual surveys may supervision, and and correct to the ge and belief.  September September 1.	lotted from field nade by me or i that the same
								Cartificate	//Larry A	7. Fisher

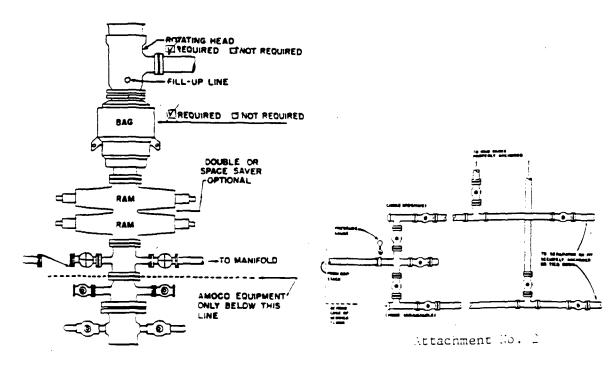
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- 11. Use rams in following positions: \*

Upper Ram Lower Ram Drilling Drill Pipe Blind

Running Casing Casing Blind

- \* Amoco District Manager may reverse location of rams.
- 12. Extentions and hand wheels to be installed and braced at all times.





OIL CONSERVE ON DIVISION

RECEIVED

**Amoco Production Company** 

'91 NOI 12' AM 9 50 WestLake Park Boulevard Houston, Texas 77253

October 24, 1991

Shell Western E&P, Inc. P. O. Box 576 Houston, TX 77001-0576

Attention: Frank Falbo, Rm. 4434

File: KWB-811-WF

Request for Waiver to Drill Subject Wells in Unorthodox Location South Hobbs (GSA) Unit No. 229 & 230

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 drill the subject wells at the attached unorthodox locations.

If you have no objections to the drilling 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 Kim Colvin at 713/596-7686.

Yours very truly,

K. W. Brand

Administrative Service Manager

KAC: avd

Attachments

APPROVAL

SHELL WESTERN E & P INC.

Company:

## ATTACHMENT I

Well Name	Type of Well	Surface Location	Elevation (Ground Level)
SHU No. 229	Injection	Unit C, 1088' FNL X 1977' FWL, Sec. 4, T-19-S, R-38-E	3618.9′
SHU No. 230	Injection	Unit B, 1100' FNL X 2220' FEL, Sec. 4, T-19-S, R-38-E	3617.8

NOTE: The purpose of the unorthodox locations is the establishment of an efficient pattern for production and injection to maximize ultimate recovery from the reservoir.

# TE STATE

**BRUCE KING** 

GOVERNOR

## STATE OF NEW MEXICO

OIL CONSERV. ON DIVISION

# ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT 11 CONCERNATION DIVISION 12 AM 10 28

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

11-1-91

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

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 Proposed: RE: MC DHC NSL NSP # 229-C 4-19-38 # 230-B 4-19-38 # 233- 1 4-19-38 # 235-K 4-19-38 # 238-0 4-19-38 SWD WFX **PMX** Gentlemen: I have examined the application for the: and my recommendations are as follows: ours very truly. NSL-3076 Supervisor, District 1

/ed