

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

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.

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

Yours very truly,

K. W. Brand

Administrative Services Manager

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	Injection	Onit 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′
SHU No. 233	Injection	Unit G, 2245' FNL X 2420' FEL, Sec. 4, T-19-S, R-38-E	3612.5′
SHU No. 235	Injection	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 State Lease — o copies Fee Lease — 5 copies

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 Revised 1-1-89

OIL CONSERVATION DIVISION DISTRICT I P.O. Box 1980, Hobbs, NM 88240 API NO. (assigned by OCD on New Wells) P.O. Box 2088 Santa Fe. New Mexico 87504-2088 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 5. Indicate Type of Lease FEE LX STATE L 6. State Oil & Gas Lease No. DISTRICTU 1000 Rio Brazos Rd., Aziec, NM 87410 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK la Type of Work: 7. Lease Name or Unit Agreement Name DRILL X PLUG BACK RE-ENTER DEEPEN b. Type of Well: South Hobbs (GSA) Unit MULTIPLE WELL [WELL ZONE Injector 2. Name of Operator 8. Well No. Amoco Production Company 233 9. Pool name or Wildow Address of Operator Hobbs Grayburg S. Andres P. O. Box 3092, Houston, TX Well Location Unit Letter 2245 Feet From The NOrth Line and 2420 Feet From The East 38-E Lea 19-S **NMPM** County Section Township Range 11. Formation 10. Proposed Depth 12. Rotary or C.T. 4350' San Andres Rotary 15. Drilling Contractor 16. Approx. Date Work will start 13. Elevations (Show whether DF, RT, GR, etc.) 14. Kind & Status Plug. Bond 11/6/91 3612.51 GR 17. PROPOSED CASING AND CEMENT PROGRAM SIZE OF HOLE SIZE OF CASING | WEIGHT PER FOOT SETTING DEPTH | SACKS OF CEMENT | EST. TOP 12-1/4" 8-5/8" K-55 1600' 1100 sx Surface 32# 5-1/2" 4350 7-7/8" K - 55Surface 15.5# 1300 sxPropose 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.

Add mud materials as necessary in attempting reservoir injection.

CONDITIONS OF AFFROVAL, IF ANY:

Mud Program:

0 - 1600'

1600' - 3800'

3800' - TD*

Native/Spud

Saturated/Brine Salt Gel/Starch

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

I hereby cerufy that the information above is true and complete to the best of my knowledge and belief.							
SIGNATURE	1. Clum	me Asst. Admin. Analyst	DATE 10/15/91				
TYPE OR PRINT NAME	Kim. A. Colvin		713/ TELEPHONE NO: 596-7686				
(This space for State Use)							
APPROVED BY		TITLE	_ DATE				

STATE OF NEW MEXICO HERGY AND MINERALS DEPARTMENT

1650

990

1320

330

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 distances must be from the outer boundaries of the S-Wall No Ozerate 233 Amoco Production Company South Hobbs Unit Unit Lette G 19 South 4 38 East Lea Actual Footage Location of Wall: 22451 2420' East North foot from the Producing Formation Ground Lovel Elov. Peal Dedicated Acres Hobbs (G/SA) 3612.5 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 ewnership is dedicated to the well, have the interests of all ewners been consolidated by communitization, unitization, force-pooling, etc? Yes □ N₀ 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. -мосо LPN 538660 South Hobbs Unit Amor Well No. 233 24**20** 10 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. September 24,1991 Larry A. Fisher Cartificate

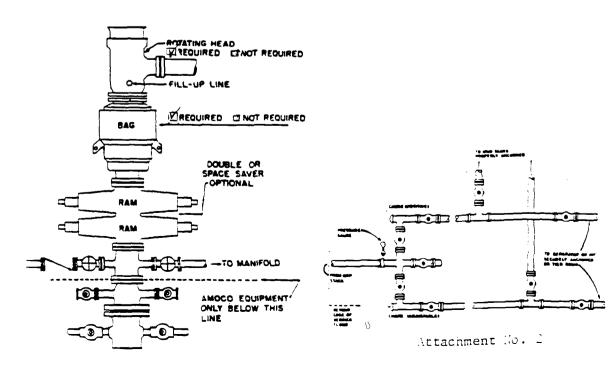
ATTACHMENT 3000# W.P. BOP STACK

- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 ps; w.p. minimum.
- Equipment through which bit must pass small be at least as large as casing size being drilled through.
- Upper kelly cock is required and shall be 3,000 psi w.o. minimum. Lower kelly cock is (required)(not required).
- Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Yalve to be full bore 3,000 ps; w.o. minimum.
- 5. Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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).
- 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:

Upper Ram Drill Pipe
Lower Ram 81ind

* Amoco District Manager may reverse location of rams.

12. Extentions and hand wheels to be installed and braced at all times.



Submit to Appropriate District Office

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 Revised 1-1-89

State Lease — 6 copies Fee Lease — 5 copies	3. 7				Kernal Ivi-69
DISTRICT I P.O. Box 1980, Hobbs, NM 885	240	CONSERVATIO P.O. Box 208	8	API NO. (assigned by OCI	O on New Wells)
DISTRICT II		anta Fe, New Mexico	87504-2088	5. Indicate Type of Lease	
P.O. Drawer DD, Artesia, NM	88210				ATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Azzec, NA	A 87410			6. State Oil & Gas Lease	No.
	FOR PERMIT T	O DRILL, DEEPEN, C	R PLUG BACK		
	RE-ENTER	SINCLE	PLUG BACK MILITIPLE ZONG	7. Lease Name or Unit As South Hobbs (
2 Name of Operator Amoco Productio	on Company			8. Well No. 23	
3. Address of Operator		·		9. Pool name or Wildox	
P. O. Box 3092	, Houston, T	X 77253		Hobbs Graybur	g S. Andres
4. Well Location Unit Letter	: 2245 Feet Fr	om The NOrth	Line and 242	O Feet From The	East Line
Section 4	Towns	nip 19-S Ran	38-E	nmpm Lea	County
				COTTO BLOOD	
		10. Proposed Depth 4350 1	í	n Andres	12. Rotary or C.T. Rotary
13. Elevations (Show whether DF 3612.51 (F, RT, GR, etc.) 14	A. Kind & Status Plug. Bond	15. Drilling Contractor	16. Approx. i	Date Work will start 6/91
17.		OPOSED CASING AN	D CEMENT PROGR	-	
SIZE OF HOLE S	IZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	32# K-55	1600'	1100 sx	Surface
7-7/8"	5-1/2"	15.5# K-55	4350'	1300 sx	Surface
be run and evalinjection. * Add mud maattempting	luated. Perf terials as ne reservoir in	jection.	Mud Program: 0 - 1600' 1600' - 3800 3800' - TD*	Native/ Saturat Salt Ge	Spud ed/Brine
IN ABOVE SPACE DESCRIBING THE STATE OF THE S	PROGRAM, IF ANY.			N PRESENT PRODUCTIVE ZONE AN	D PROPOSED NEW PRODUCTIVE
	1 12.6		Asst. Admin.	Analyst	10/15/91
SIGNATURE TYPE OR PRINT NAME	Kim. A. Colvi	n	11350. 11411.		713/ 596-7686
(This space for State Use)					
APTROVID BY		πιυ	·	DATI	t

330 660 990 1320 1650 1980 2310 2640

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-78

11013

STATE OF NEW MEXICO
- ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

		All distances must be fre	m the outer boundaries of	the Section.	<u> </u>
Атос	o Product	ion Company	South	Hobbs Unit	W-II N- 233
ait Lottes G	Section 4	Township 19 South	Range 38 East	County	Lea
otual Footage Location 2245' fo		North line and	2420'	feet from the	East lime
3612.5'	Producing Fe		Peel Hobbs (G/SA)	Dedicated Agreeges 40 A
2. If more th	an one loase is and royalty).	dedicated to the well, out	tline each and identif	y the ownership the	proof (both as to working
	communitizati	different ewnership is do on, unitization, force-pooli f answer is "yes," type of	ng, etc?	ave the interests of	all owners been conseli-
this form	n if necessary.				
_		ned to the well until all i wise) or until a non-stand			unitization, unitization, on approved by the Divisio
		1	<u> </u>		CERTIFICATION
					by certify that the information con
		2245			herein is true and complete to of my knowledge and belief.
		5,			
		-	77/7	N	1 Colum
	 	-MC	oco	Perition	A. Comm
		LPN 53		HSST	. Holmin. Hnalyst
	1	South	Hobbs Unit No. 233	Amo	co Production Com
				, , , , , , ,	4-91
		The state of the s	No. 11013	shown notes under is tru	by certify that the well location on this plat was plotted from firm of actual surveys made by me or my supervision, and that the same and correct to the best of my edge and belief.
			THE FISHER HERE	Date Sur Register	September 24, 1
	; 		i !	Ma	Larry A. Fishe
				Certifica	ta(Na.

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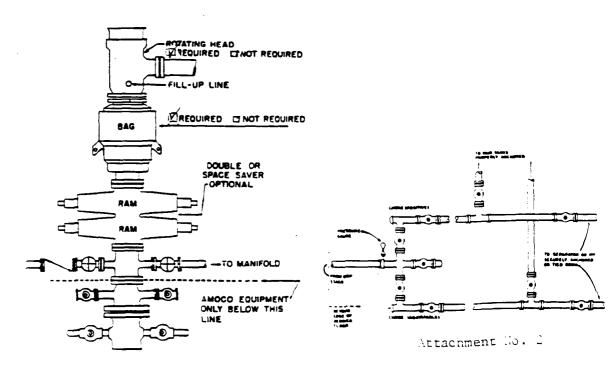
ATTACHMENT 3000# W.P. BOP STACK

- BOP's to be fluid operated. BOP'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 grilled through.
- Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly cock is (required)(not required).
- 4. Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Yalve to be full bore 3,000 ps; w.p. minimum.
- 5. Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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: *

Upper Ram Drill Pipe
Lower Ram 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.



SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR ALL B.O.P. EQUIPMENT.

Submit to Appropriate District Office State Lease — 6 copies Fee Lease — 5 copies

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 Revised 1-1-89

DISTRICT

OIL CONSERVATION DIVISION P.O. Box 2088

API NO. (assigned by OCD on New Wells)

P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

5. Indicate Type of Lease

STATE FEE X

DISTRICT III 1000 Rio Brazos Rd., Azze	c NM 87410			6. State Oil & Gas Lease	No.		
			5 51110 5401/				
	APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK						
la. Type of Work:				7. Lease Name or Unit A	greement Name		
b. Type of Weii:	L X RE-ENTER	<u> </u>	PLUG BACK	South Hobbs (GSA) Unit		
WELL WELL	oner Injec	tor SINGLE	X ZONE				
2. Name of Operator Amoco Produc	ction Company			8. Well No. 23	3		
3. Address of Operator P. O. Box 30							
4. Well Location Unit Letter	; 2245 Feet Fr	om The NOrth	Line and 242	O Feet From The	East Line		
Section	4 Towns	nip 19-S Raz	38-E	NMPM Lea	County		
		10. Proposed Depth		Committee	12. Rotary or C.T.		
<u>/////////////////////////////////////</u>		4350'	Sa	n Andres	Rotary		
13. Elevations (Show wheth 3612.51		4. Kind & Status Plug. Bond	15. Drilling Contractor	1	Date Work will start 6/91		
17. PROPOSED CASING AND CEMENT PROGRAM							
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT			
12-1/4"_	8-5/8"	32# K-55	1600'	1100 sx	Surface		
7-7/8"	5-1/2"	15.5# K-55	4350'	1300 sx	Surface		

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.

* Add mud materials as necessary in attempting reservoir injection.

Mud Program:

0 - 1600'

1600' - 3800' 3800' - TD* Native/Spud Saturated/Brine Salt Gel/Starch

_ DATE _

IN ABOVE SPACE DESC ZONEL GIVE BLOWOUT PREVI		AL IS TO DEEPEN OR	PLUG BACK, GIVE DATA ON PRES	SENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE
I hereby cerufy that the inform	nation above is true and complete to the best of my	<u>-</u>		
SIGNATURE	- 1. Celum	TITLE .	Asst. Admin. Ana	alyst
TYPE OR PRINT NAME	Kim. A. Colvin			713/ TELEPHONE NO. 596-7686
(This space for State Use)				

TITLE _

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

1320

1650

1980

2310

2640

2000

1500

1000

500

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 SANTA FE. NEW MEXICO 87501 All distances must be from the outer boundaries of the Section. Operator Wall Na Amoco Production Company South Hobbs Unit 233 Unit Lette 19 South 38 East Lea Actual Postage Location of Wall: 2420' 2245′ North East foot from the foot from the Ground Lovel Elov. Peal Hobbs (G/SA) 3612.5 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 revalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Tes ___ N。 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. LPN 538660 South Hobbs Unit Well No. 233 2420 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. September 24,1991

Larry

A. Fisher

11013

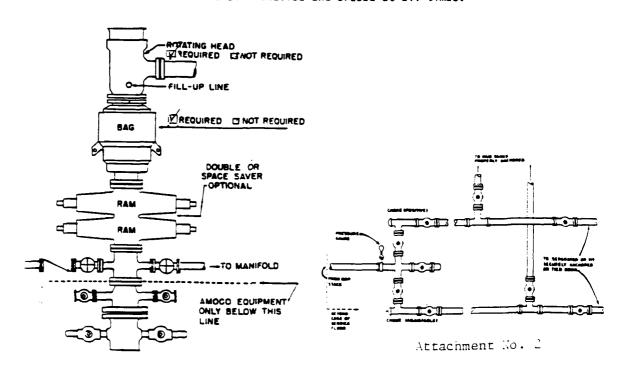
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- 10. Fill up line must be steel. Kill line cannot be used for fill up line.
- 11. Use rams in following positions:

-	Drilling	Running Casing
Upper Ram	Drill Pipe	Casing
Lower Ram	81 ind	Blind

* Amoco District Manager may reverse location of rams.

12. Extentions and hand wheels to be installed and braced at all times.



SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR ALL B.O.P. EQUIPMENT.

Submit to Appropriate District Office State Lease — o copies Fee Lease — 5 copies

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION

Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM		CONSERVATIO P.O. Box 208		API NO. (as	ngned by OCD	on New Wells)	
DISTRICT II P.O. Drawer DD, Ariesia, N	_	Santa Fe, New Mexico	87504-2088	5. Indicate	Type of Lease	TE	 : X
DISTRICT III 1000 Rio Brazos Rd., Azzeo	: NM 87410			6. State Oil	& Gas Lease N		<u> </u>
APPLICAT	ION FOR PERMIT	TO DRILL. DEEPEN, C	R PLUG BACK				////
la. Type of Work:				7. Lease Na	me or Unit Agn	tement Name	
DRILL	. X RE-ENTER	DEEPEN	PLUG BACK				
b. Type of Well: OIL GAS WELL WELL	omen Injed	SINGLE ZONG	X ZONE	South	Hobbs (G	SA) Unit	
2. Name of Operator Amoco Produc	tion Company			8. Well No.	235		40
3. Address of Operator		rx 77253		9. Pool nam	e or Wildcat	S. Andres	
P. O. Box 30	92, Houston,	17 / / 233		Hobbs	Grayburg	J. Allares	
	K : 2160 Feet F	rom The South	Line and	2414 Feet	From The W	est	Line i
Section	4 Town	white 19-S Ran	38-E	NMPM]	Lea	Cor	untv
		10. Proposed Depth 43501	i -	1.Formation San Andres	1	2 Rotary or C.T. Rotary	
13. Elevations (Show whether		4. Kind & Status Plug. Bond	15. Drilling Contra			te Work will start	
3607.3					11/6	791	
SIZE OF HOLE		ROPOSED CASING AN			051/51/5	507 700	
12-1/4"	SIZE OF CASING 8-5/8"	WEIGHT PER FOOT	SETTING DEPTI	1 SACKS OF 1100		EST. TOP Surface	
7-7/8"	5-1/2"	15.5# K-55	43501	1300		Surface	i
					1		
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. * Add mud materials as necessary in attempting reservoir injection. Mud Program: 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch							
20NE. GIVE BLOWOUT PREVEN I hereby certify that the information of the certify that the information of the certific property of the certific prop	TER PROGRAM & ANY.				DATE	10/15/91 713/596-7	
TYPE OR PRINT NAME	Kim. A. Colv	111			144	- J J U - /	
(This space for State Use)							
APTROVED BY		m	E		DATE		

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990

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500

OIL CONSERVATION DIVISION

Form C-102 Revised 10-1-78 P. O. BOX 2088 BIERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501 All distances must be from the sus-Wall No Amoco Production Company 235 South Hobbs Unit Unit Letter K 19 South 38 East Lea Actual Footage Location of Wells 2160' South 2414' West foot from the Ground Loval Blov. Producing Permetica Dedicated Acres Peel Hobbs (G/SA) 3607.3 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 revalty). 3. If more than one lease of different ewnership is dedicated to the well, have the interests of all ewners been conselidated by communitization, unitization, force-pooling, etc? Yes N. 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Date South Hobbs Unit I hereby certify that the weil location Well No. shown on this plat was plotted from field notes of actual surveys made by me or **АМОСО** 538660 under my supervision, and that the same is true and correct to the best of my knowledge and belief. October 2.1991 arry A. Fisher

Cartificate N

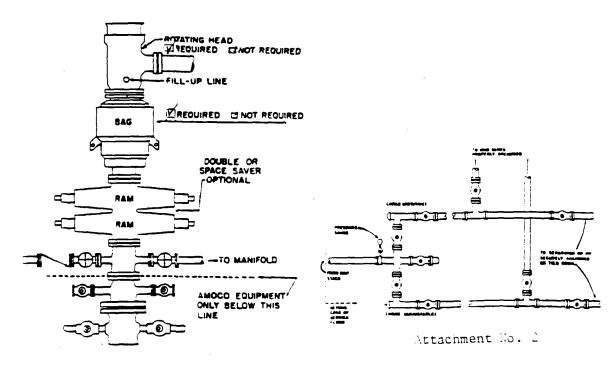
11013

ATTACHMENT 3000# W.P. BOP STACK

- BOP's to be fluid operated. BOP'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 grilled through.
- 3. Upper kelly cock is required and shall be 3,000 psi w.o. minimum. Lower kelly cock is (required)(not required).
- 4. Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 ps; w.p. minimum.
- Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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:

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.



Submit to Appropriate District Office

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerais and Natural Resources Departm

Forms	C-101
Revis	m 1-1-89

State Lease - o comes		AIIIICIAIS ANG IVANIMA IVO	Sources Department		Revised 1-1-89	
DISTRICT I		CONSERVATIO P.O. Box 208		API NO. (assigned by	OCD on New Wells)	
P.O. Box 1980, Hobbs, NM		P.O. Box 200 inta Fe. New Mexico	-			
DISTRICT II P.O. Drawer DD, Artesia, N		and I of I town into allow	0,50, 2000	5. Indicate Type of Le	STATE FEE X	
DISTRICT III				6. State Oil & Gan Le		
1000 Rio Brazos Rd., Azteo	NM 87410					
	ION FOR PERMIT T	O DRILL, DEEPEN, C	R PLUG BACK			
la. Type of Work:	_		_	7. Lease Name or Uni	t Agreement Name	
DRILL b. Type of Well:	RE-ENTER	DEEPEN	PLUG BACK	G 1 T - 1 1	(221) !! !!	
AET AET	onex Inject	SINGLE ZONE	X ZONE	South Hobbs	(GSA) Unit	
2. Name of Operator				8. Well No.	_	
Amoco Produc	tion Company			9. Pool name or Wildo	5	
P. O. Box 30	92, Houston, T	77253			urg S. Andres	
4. Well Location Unit Letter	K_: 2160 Feet Fro	on The South	Line and 24	14 Feet From The	West Line	
		 				
Section	4 Townsh	ip 19-S Ram	38-E	n mpm Lea	County	
		10. Proposed Depth	//////////////////////////////////////	//////////////////////////////////////	12. Rotary or C.T.	
		4350'		n Andres	Rotary	
13. Elevations (Show whether	r DF, RT, GR, etc.) 14	Kind & Status Plug. Bond	15. Drilling Contractor	, , , ,	ox. Date Work will start	
3607.3	' GR			1	1/6/91	
17.	PRO	POSED CASING AN	D CEMENT PROG	MAF		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMEN		
12-1/4"	8-5/8"	32# K-55	1600'	1100 sx	Surface	
7-7/8"	5-1/2"	15.5# K-55	43501	1300 sx	Surface	
				<u> </u>		
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.						
	materials as neing reservoir in		Mud Program: 0 - 1600' 1600' - 3800 3800' - TD*	Nativ Satur	re/Spud rated/Brine Gel/Starch	
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DESPIRE OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.						
I hereby certify that the informa	rion anows is this and complete t	o the best of my knowledge and b	did.	·		
SIGNATURE	1 Marin	m.	Asst. Admin.	Analyst	DATE 10/15/91	
SIGNATURE TYPE OR PRINT NAME	1 11		Asst. Admin.		713/ TELEPHONE NO. 596-7686	
SAMATURE	1 Minu		Asst. Admin.		DAIE	

OIL CONSERVATION DIVISION P. O. BOX 20**88**

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

Орегани	Amoco f	roduct 1		11	South	Hobbs Unit	Well No. 235
Unit Letter	K Section	4	Townsip	19 South	Rasso 38 East	County	Lea
Actual Footage 2166	Location of W		South	line and	2414'	foot from the	West lim
Ground Level . 360	Bl.v. 17.3'	Producing For	nation In Andre		Mobbs	(G/SA)	Dedicated Acreages 40 Acrea
2. If i	more than e	no losso is d oyalty).	lodicatod t different o	o the well, outli	icated to the well, h	y the ownership t	heroof (both as to working
6 N•	inswer is "no his form if allowable w	o," list the o necessary.) ill be assign	wnors and	well until all in	ns which have actua	nsolidated (by com	ted. (Use reverse side of munitization, been approved by the Division
						tain	CERTIFICATION reby certify that the information con- ed herein is true and complete to the
						Name Ku Position A55 Compas AMI Date	n A. Colum t. Admin Analyst
	24 14'	AMI	well No.	235	No. 11013	sho note und is t	reby certify that the well location wn on this plat was plotted from fieles of actual surveys made by me or er my supervision, and that the same rue and correct to the best of my wiedge and belief.
			2)60	January,	A. FISHERMAN	Date St.	October 2.1991
0 330	660 990	1320 1650 1	980 2310 2	2640 2000	1500 1000 5	Cortifi	1 1 Ø 1 3

ATTACHMENT 30000 W.P. BOP STACK

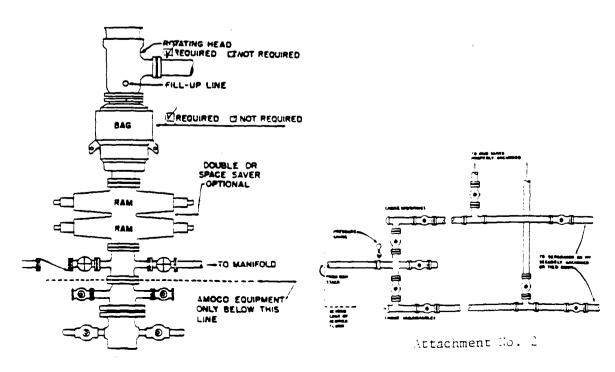
- 80P's to be fluid operated. 30P's and all fittings must be in good condition and rated at 3,000 psi w.p. minimum.
- Equipment through which bit must bass shall be at least as large as casing size being grilled through.
- Upper kelly cock is required and shall be 3.000 psi w.p. minimum. Lower kelly cock is (required)(not required).
- Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 ps; w.p. minimum.
- Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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 supstructure. 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).
- 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:

Upper Ram Drill Pipe
Lower Ram 81fnd

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.



SIZE OF HOLE

12-1/4"

7-7/8"

State of New Mexico

District Office State Lease — 6 copies Fee Lease — 5 copies	Energy, Minerais and Natural Resour	ces Department	Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	OIL CONSERVATION I P.O. Box 2088	A1140.(assigned by OCD on New Wells)
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	Santa Fe, New Mexico 875	04-2088 5. Indicas	e Type of Lesse STATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410		6. State (oil & Gas Lease No.
	PERMIT TO DRILL, DEEPEN, OR P	LUG BACK	
la. Type of Work:		7. Lease	Name or Unit Agreement Name
DRILL X b. Type of Well: OIL GAS WELL WELL OTHER	RE-ENTER DEEPEN PL SINGLE ZONE X	MULTIPLE Sout	h Hobbs (GSA) Unit
2 Name of Operator Amoco Production Com	pany	8. Well h	lo. 235
3. Address of Operator P. O. Box 3092, Hou	ston, TX 77253		s Grayburg S. Andres
4. Well Location Unit Letter K : 2160	Feet From The South	Line and 2414 Fe	et From The West Line
Section 4	Township 19-S Range	38-E NMPM	Lea County
	10. Proposed Depth 4350 '	11. Formation San Andre	12. Rotary or C.T. Rotary
13. Elevations (Show whether DF, RT, GR, G 3607.3! GR		15. Drilling Contractor	16. Approx. Date Work will start 11/6/91
17.	PROPOSED CASING AND C	EMENT PROGRAM	

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

15.5#

32# K-55

K-55

Add mud materials as necessary in attempting reservoir injection.

SIZE OF CASING

8-5/8"

5-1/2"

Mud Program:

0 - 1600'

SETTING DEPTH

1600' 4350'

1600' - 3800'

3800' - TD*

Native/Spud Saturated/Brine

SACKS OF CEMENT

1100 sx

1300 sx

Salt Gel/Starch

EST. TOP

Surface

Surface

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR FILID BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY. I hereby certify that the information above is true and complete to the best of my knowledge and belief. Asst. Admin. Analyst SIGNATURE _ Kim. A. Colvin TYPE OR PRINT NAME (This space for State Use)

TITLE .

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSÉRVATION DIVISION P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Revised 10-1-78

All distances must be from the outer boundaries of the So Wall Na Amoco Production Company 235 South Hobbs Unit Unit Lette County 19 South 38 East Lea Actual Postage Location of Wells South 2414' 2160′ West foot from the Ground Lovel Elev. Dedicated Acres Hobbs (G/SA) 3607.3 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 ewnership is dedicated to the well, have the interests of all ewners been conselidated by communitization, unitization, force-pooling, etc? You \square N_o 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. South Hoobs Unit I hereby certify that the well location Well No. shown on this plat was plotted from field notes of actual surveys made by me or AMO CO 538660 under my supervision, and that the same is true and correct to the best of my knowledge and belief. Data Surveyed October 2.1991 arry A. Fisher 1980 2310 11013 1320 2640 2000 1500 500 1000

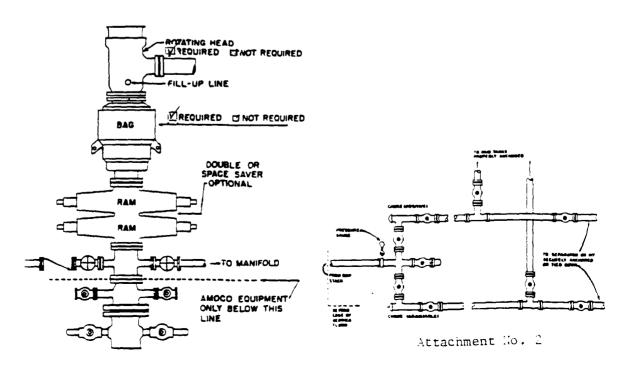
ATTACHMENT 3000# W.P. BOP STACK

- BOP's to be fluid operated. BOP'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 grilled 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 subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
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- 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.
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- 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:

Upper Ram Lower Ram Blind

Drilling. Drill Pipe 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.



State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 Revised 1-1-89

Su	Dimit to Appropriate
Dί	ana Uffice
Su	us Lease - o come
Fe	e Leane — 5 comes

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

Fee Lease — 5 copies DISTRICT I P.O. Box 1980, Hobbs, NM DISTRICT II P.O. Drawer DD, Artesia, N DISTRICT III	S: NM 88210	API NO. (assigned by OCD on New Wells) 5. Indicate Type of Lease STATE FEE X 6. State Oil & Gas Lease No.			
1000 Rio Brazos Rd., Aztec		O DRILL, DEEPEN, O	OR PLUG BACK		
DRILL b. Type of Well: or. GAS well Well	_	DEEPEN SINGLE	PLUG BACK MULTIPLE ZONE		nat Agreement Name
2. Name of Operator				8. Well No.	
	tion Company			9. Pool name or Wil	238
P. O. Box 30	92, Houston, T	X 77253			burg S. Andres
4. Well Location Unit Letter Section	0 : 660 Feet Fr		Line and 26	10 Feet From T	ne <u>East</u> Line
		10. Proposed Depth	11.	. Formeuon	12. Rotary or C.T.
		4350'	s	an Andres	Rotary
13. Elevations (Show whethe	GR (16	4. Kind & Status Plug, Bond	15. Drilling Contracto	or 16. App	orox. Date Work will start 11/6/91
17.	PRO	OPOSED CASING AN	ID CEMENT PROG	BRAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		NT EST. TOP
12-1/4"	8-5/8"	32# K-55	1600'	1100 sx	Surface
7-7/8"	5-1/2"	15.5# K-55	43501	1300 sx	Surface
<u> </u>				<u> </u>	
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. * Add mud materials as necessary in attempting reservoir injection. Mud Program: 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine					
ZONE. GIVE BLOWOUT PREVE	TER PROGRAM, IF ANY.	to the best of my knowledge and b		ON PRESENT PRODUCTIVE ZO	DATE 10/15/91 TELEPHONE NO. 596-7686
(This space for State Use)	33171				

OIL CONSERVATION

DIVISION STATE OF NEW MEXICO Form C-102 P. O. BOX 2088 HERGY AND MINERALS DEPARTMENT Revisea 10-1-78 SANTA FE. NEW MERICO 87501 All distances muss be from the outer boundaries of the Sec Operator Well No. Amoco Production Company 238 South Hobbs Unit Unit Lotter Township 0 19 South 38 East 4 Lea Actual Footage Location of Well: 2610' 66Ø' South foot from the East feet from the line and Ground Lovel Elev. Preducing Permetion Pool Hobbs (G/SA) 3606.0 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 ewnership is dedicated to the well, have the interests of all ewners been consolidated by communitization, unitization, force-pooling, etc? You □ N• 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Date I hereby certify that the weil location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. *4*МОСО 538660

> Well No. 238 South Hobbs

2310

:000

50**0**

11013

October 2.1991

ATTACHMENT 3000# W.P. BOP STACK

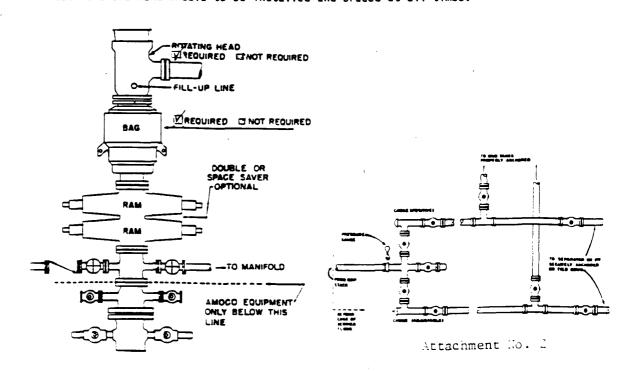
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- Equipment through which bit must pass shall be at least as large as casing size being drilled through.
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- B. The accumulator must be located at least 50 feet from the well. Blowout preventer controls must be properly labeled. Floor control valves are (required)(not required).
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- 10. Fill up line must be steel. Kill line cannot be used for fill up line.
- 11. Use rams in following positions:

Upper Ram Drill Pipe
Lower Ram 81ind

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.



Submit to Appropriate District Office

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerais and Natural Resources Department

Revised 1-1-89

Form C-101

Fee Lease — 6 copies Fee Lease — 5 copies DISTRICT II P.O. Box 1980, Hobbs, NA DISTRICT III 1000 Rio Brazos Rd., Azie APPLICAT 1a. Type of Work: DRILL OIL WELL GAS WELL WELL	A 88240 NM 88210 C NM 87410 TION FOR PERMIT	SINGLE	8 87504-2088	API NO. (assigned by OC 5. Indicate Type of Lease S 6. State Oil & Gas Lease 7. Lease Name or Unit A South Hobbs (TATE FEE X
2. Name of Operator	tion Company			8. Well No.	
3. Address of Operator	ction company			9. Pool name or Wildcat	8
P. O. Box 30	92, Houston,	rx 77253		Hobbs Graybu	rg S. Andres
4. Well Location Unit Letter Section	0 : 660 Feet F		Line and 261	0 Feet From The	East Line
		10. Proposed Depth 4350 1		ormation n Andres	12. Rotary or C.T. Rotary
13. Elevations (Show whethe 3606.01	or DF, RT, GR, etc.) GR	14. Kind & Status Plug. Bond	15. Drilling Contractor	16. Approx.	Date Work will start /6/91
17.	PE	ROPOSED CASING AN	D CEMENT PROGR	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	32# K-55	1600'	1100 sx	Surface
	5-1/2"	15.5# K-55	4350'	1300 sx	Surface
be run and e injection. * Add mud	drill & equip we evaluated. Personal pe		formation. Afmulate as neces Mud Program: 0 - 1600' 1600' - 3800 3800' - TD*	sary in attempt Native Satura	ing reservoir
ZONE. GIVE BLOWOUT PREVE	NTER PROGRAM, IF ANY.	RAM: PPROPOSAL IS TO DEEPEN a to the best of my knowledge and b		Analyst DA	10/15/91
TYPE OR PRINT NAME	Kim. A. Colv	in		TE	713/ EPHONE NO: 596-7686
(This space for State Use)		11111		DA1	rs

330

660

990

1320

1650

1980

2310

2000

1000

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102

SEMERĞY AND MINERALS DEPARTMENT Revised 10-1-78 SANTA FE, NEW MEXICO 87501 All distances must be from the outer boundaries of the Section. Well No. Operator 238 Amoco Production Company South Hobbs Unit Unit Lott 38 East 19 South Lea Actual Postage Location of Wells 2610' 660' South East foot from the foot from the line and Producing Formation Ground Lovel Elev. Peel Hobbs (G/SA) 36Ø6.Ø San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 revalty). 3. If more than one lease of different ewnership is dedicated to the well, have the interests of all ewners been consolidated by communitization, unitization, force-pooling, etc? Yes 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 11013 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. **AMOCO** LPN 538660 Date Surveyed October 2.1991 26 I O Well No. 238 South Hobbs Larry

Certificate No

11013

ATTACHMENT 3000# W.P. BOP STACK

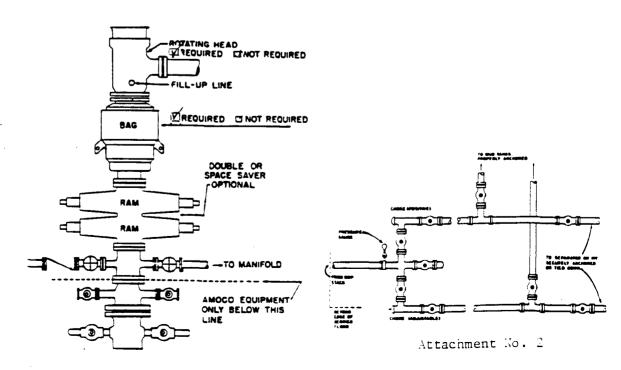
- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3.000 psi w.p. minimum.
- Equipment through which bit must pass shall be at least as large as casing size being drilled through.
- 3. Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly cock is (required)(not required).
- 4. Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
- Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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:

Upper Ram Drill Pipe
Lower Ram 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.



Submit to Appropriate District Office State Lease — o corres

State of New Mexico Energy, Minerais and Natural Resources Department

Form	C-1	01
Revise	d 1	-1-89

OIL CONSERVATION DIVISION DISTRICT I P.O. Box 1980, Hobbs. NM 88240 P.O. Box 2088 Santa Fe, New Mexico 87504-2088 DISTRICT III P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK				API NO. (assigned by OCD on New Wells) 5. Indicate Type of Lease STATE FEE X 6. State Oil & Gas Lease No.		
la. Type of Work:	ION FOR PERMIT	O DAILL, DEEPEN, C	A FEOG BACK	7. Lease Name or Unit A	//////////////////////////////////////	
b. Type of Well:	RE-ENTER	SINGE	PLUG BACK MULTIPLE ZONG	South Hobbs		
2. Name of Operator Amoco Produc	tion Company			8. Well No.	Q #	
3. Address of Operator P. O. Box 30		TX 77253		9. Pool name or Wildow Hobbs Graybu		
4. Well Location Unit Letter	0 : 660 Feet F	rom The South	Line and 26	Feet From The	East Line	
Section	4 Towns	hip 19-S Raz	38-E	nmpm Lea	County	
		10. Proposed Depth 4350 '	(.Formauon an Andres	12. Rotary or C.T. Rotary	
13. Elevations (Show whether	or OF, RT, GR, etc.) 1	4. Kind & Status Plug. Bond	15. Drilling Contract	or 16. Approx.	Date Work will start /6/91	
17.	PR	OPOSED CASING AN	D CEMENT PROC	BRAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP	
12-1/4"	8-5/8"	32# K-55	1600'	1100 sx	Surface	
7-7/8"	5-1/2"	15.5# K-55	<u>4350'</u>	1300 sx	Surface	
be run and e injection.						
IN ABOVE SPACE DESC	TRIBE PROPOSED PROGR	LAM: IF PROPOSAL IS TO DEEPEN		Salt G	ted/Brine el/Starch NO PROFOSED NEW PRODUCTIVE	
SKINATURE	4 Calvin	πι	Asst. Admin.	Analyst	10/15/91	
TYPE OR PRINT NAME	Kim. A. Colvi	in		TE	713/ 596-7686	
(This space for State Use)						
APPROVED BY		mi	E	DA	TB	
CONDITIONS OF APPROVAL, IF	ANY:					

OIL CONSERVATION DIVISION

Form 0~102 P. O. BOX 2088 FERGY AND MINERALS DEPARTMENT Revisea 10-1-78 SANTA FELMEW MEXICO 87501 Operator Wall Na Amoco Production Company 238 South Hobbs Unit Range Unit Lotter Townsia 0 19 South 38 East Lea Actual Postage Location of Well: 660 2610' South East feet from the line and feet from the Ground Level Elev. Producing Fermation Pool Hobbs (G/SA) 3606.0 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 revalty). 3. If more than one lease of different ewnership is dedicated to the well, have the interests of all ewners been consolidated by communitization, unitization, force-pooling, etc? Yes □ N• 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION ! hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Date I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. -мосо PN 5**38660** October 2.1991 2610 Well No. 238 South Hobbs

50**0**

1980

2310

11013

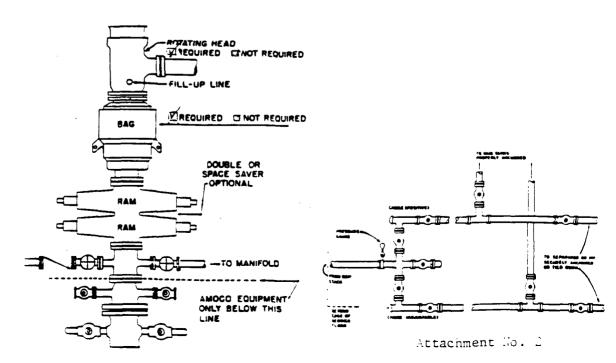
ATTACHBENT 3000# W.P. BOP STACK

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- Equipment through which bit must pass shall be at least as large as casing size 2. being arilled through.
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	Dr111fng	
Upper Ram	Drill Pipe	
Lower Ram	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.





Amoco Production Company

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

File: KWB-808-WF

RECEIVED

OCI 28 1991

OIL CONSERVATION DIVISION

Application for Administrative Approval of Unorthodox Locations South Hobbs (GSA) Unit No. 231, 232, 234, 236, 237

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 without notice and hearing 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.)

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

Yours very truly,

K. W. Brand

Administrative Services Manager

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	Surface Location	Elevation (Ground Level)
SHU No. 231	Producing	Unit F, 1562' FNL X 2100' FWL, Sec. 4, T-19-S, R-38-E	3614.8′
SHU No. 232	Producing	Unit G, 1710' FNL X 1630' FEL, Sec. 4, T-19-S, R-38-E	3614.1′
SHU No. 234	Producing	Unit F, 2480' FNL X 1800' FWL, Sec. 4, T-19-S, R-38-E	3607.4′
SHU No. 236	Producing	Unit K, 1403' FSL X 1746' FWL Sec. 4, T-19-S, R-38-E	3603.5′
SHU No. 237	Producing	Unit O, 1300' FSL X 1910' FEL Sec. 4, T-19-S, R-38-E	3610.2'

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.

Submit to Appropriate District Office

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 Revised 1-1-89

... DATE

State Lease — 6 copies Fee Lease — 5 copies	0,77		•		Veament T-T-03	
DISTRICT I P.O. Box 1980, Hobbs, NA		CONSERVATION P.O. Box 200		API NO. (assigned by OC	CD on New Wells)	
DISTRICT II		anta Fe, New Mexico	87504-2088	5. Indicate Type of Less	•	
P.O. Drawer DD, Artesia, I	NM 88210				TATE FEE X	
DISTRICT III 1000 Rio Brazos Rd., Azie	c, NM 87410			6. State Oil & Gas Leas	No.	
	TON FOR PERMIT T	O DRILL, DEEPEN, (OR PLUG BACK			
Ia. Type of Work:	· 🖼			7. Lease Name or Unit	Agreement Name	
b. Type of Well:	L X RE-ENTER		PLUG BACK	South Wakke	(CCA) II-i-	
ART X ART OY	OTHER	SROZE 20NE	X 2005	South Hobbs	(GSA) Unit	
2. Name of Operator Amoco Produc	tion Company			8. Well No. 231	*	
3. Address of Operator				9. Pool same or Wildow		
P. O. Box 30	92, Houston, T	X 77253		Hobbs Graybu	g S-Andres	
4. Weil Location Unit Letter	F : 1562 Feet Fr	om The North	Lise and 21	00 Feet From The	West Line	
						
Section 4	Towns	trip 19-S Ra	38-E	NMPM Lea	County	
		10. Proposed Depth	11. F		12. Rotary or C.T.	
		4350'		San Andres	Rotary	
13. Elevations (Show whether 3614.81	or DF, RT, GR, etc.)	4. Kind & Status Plug. Bond	15. Drilling Contractor		Date Work will start	
17.		OPOSED CASING A	ID CEVENT PROCE		1/6/91	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP	
14-3/4"	10-3/4"	40.5# K-55	1600'	1100 sx	Surface	
9-7/8"	<u> 7" </u>	23# K-55	43501	1300 sx	Surface	
Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Mud Program: 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch						
I hereby certify that the informations	NTER PROGRAM, P ANY. Bion above in true and complete A Column	AM: IF PROPOSAL IS TO DESPER to the best of my knowledge and		Analyst DA	10/15/01	
TYPE OR FRINT NAME	Kim A. Colvin			TE	ценюмі NO. 596-7686	
(This space for State Use)						

_ ma _

APPROVED BY

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102

11013

ENERGY AND MINERALS DEPARTMENT Revised 10-1-78 SANTA FE, NEW MEXICO 87501 es be from the outer boundaries of the S Wall Na Amoco Production Company 231 South Hobbs Unit Unit Letter 19 South 38 East Lea Actual Footage Location of Wells 2100' 1562' North West foot from the foot from the Ground Lovel Blov. Pool Dedicated Acre Hobbs (G/SA) 3614.8 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 ewnership is dedicated to the well, have the interests of all ewners been conselidated by communitization, unitization, force-pooling, etc? Yes \square N. 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 2100 South Hobbs Unit Well No. 231 AMO CO LPN 538660 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. October 2.1991 Larry A. Fisher

2640

2000

1500

1000

500

1320

990

330

660

1650

1980

2310

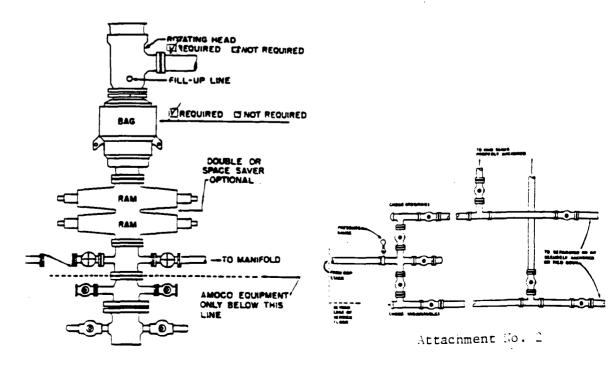
ATTACHMENT 3000# W.P. BOP STACK

- 80P's to be fluid operated. 80P's and all fittings must be in good condition and rated at 3,000 psi w.p. minimum.
- Equipment through which bit must pass shall be at least as large as casing size being drilled through.
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- 4. Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
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- 11. Use rams in following positions:

Upper Ram Drill Pipe
Lower Ram 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.



Submit to Appropriate District Office State Lease — 6 copies Fee Lease — 5 copies	Energy,	State of New Me Minerals and Natural Re			Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NI	M 88240	CONSERVATIO P.O. Box 208	18	API NO. (assigned by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Artenia,		anta Fe, New Mexico	87504-2088	5. Indicate Type of Lease	FATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Azz	sc, NM 87410			6. State Oil & Gas Lease	No.
	TION FOR PERMIT	O DRILL, DEEPEN, O	OR PLUG BACK		
b. Type of Well: OIL GAS WELL X WELL	L X RE-ENTER	DEEPEN SHOLE	PLUG BACK [7. Lease Name or Unit A South Hobbs	_
2. Name of Operator Amoco Produc	tion Company			8. Well No. 231	*
3. Address of Operator				9. Pool name or Wildow	
	92, Houston, T	X 77253	<u> </u>	Hobbs Graybur	S-Andres
4. Well Location Unit Letter	F : 1562 Feet P	North North	Line and 21	00 Feet From The	West Line
Section 4	Towns	tsip 19-S Ran	38-E	NMPM Lea	County
		10. Proposed Depth 4350 '	1	ormation.	12. Rotary or C.T.
13. Elevations (Show whath	er DF, RT, GR, etc.)	4. Kind & Status Plug, Bond	15. Drilling Contractor	San Andres	Rotary Date Work will start
	GR				/6/91
17.	PR	OPOSED CASING AN	ID CEMENT PROGR	RAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	
9-7/8"	10-3/4"	40.5# K-55	1600' 4350'	1100 sx 1300 sx	Surface
3-778		Z30 R-35	4350	1300 SX	Surface
Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Mud Program: 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch					
ZONEL GIVE BLOWOUT PREVE	INTER PROCESSAL IF ANY.	AM: # PROPOSAL IS TO DEEPER to the best of my knowledge and i		Analyst DAY	10/15/91
TYPE OR PRINT NAME	Kim A. Colvin			THE	713/ ETHONE NO. 596-7686
(This space for State Use)					

TITLE -

_ DATE _

APPROVED BY_

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-78

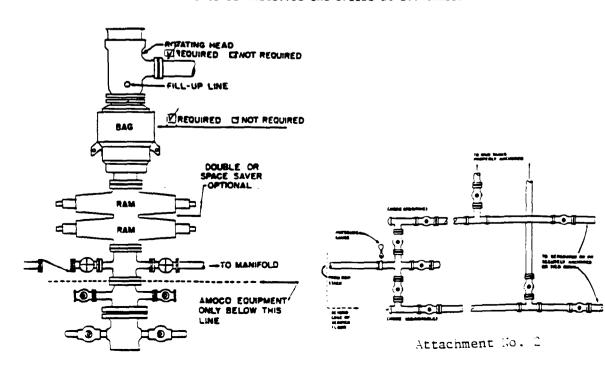
SANTA FE, NEW MEXICO 87501

	All dies		the cuter boundaries of	the Seetlen	1 707
Атосо	Production Com	pany	South	Hobbs Unit	Wall No. 231
Unit Letter F Seeti	4 Township	19 South	Range 38 East	County	Lea
Actual Feetage Location of V			0.455		14
1.562' foot fro	Producing Formation	lise and	2100′	foot from the	West line
3614.8'	San Andr	es P.	Hobbs (G/SA)	Delicated Aerosgus 40 Aeros
L Outline the ac	reage dedicated to the	subject well by	colored pencil or had	thure marks on the	
interest and	royalty).				all aware been conseli-
dated by con	nmunitization, unitizat	ion, force-pooling	, etc?	we the interests of	all owners boon consoli
Yes	No If answer is	"yes," type of co	nsolidation		
	o," list the owners and	tract description	ns which have actua	lly boon consolidate	d. (Uso rovorse side of
	E nocessary.)	-alltil all ist	anasta haza haan san	-slideted the comm	unitization, unitization,
	-		_		on approved by the Division
					CERTIFICATION
			į		
	1562			tained	by certify that the information con- therein is true and complete to the of my knowledge and belief.
2100	7/77/7//			Name Kim	A. Colum
2.00	South Hobb. Well No.	/ s		Position ASST Georgeoup	
	AMOCO LPN 538660			Amo Data 10-	co Production Comp
			AND PERSON	show	by certify that the well location n on this plat was plotted from fiel to factual surveys made by me or
		REGISTION OF THE PROPERTY OF T		under	my supervision, and that the same and correct to the best of my
		BEG.	(110h3) H	knowl	edge and belief.
	1	THE AND THE PROPERTY OF THE PARTY OF THE PAR	A. Flourer and	Data Sar	October 2.1991
	l 			Ragida	Larry A. Fisher
0 330 660 990	1320 1650 1980 2310	2640 2000	1500 1000 50	Cortification	11013

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- 11.

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• •	Drilling	Running Casing
Upper Ram	Drill Pipe	Casing
Lower Ram	Slind	Blind

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



Submit to Appropriate

State of New Mexico

Form C-101

Surface

Surface

State Lease — 6 copies Fee Lease — 5 copies	nergy, witherars and mannar west	races Debaraneau	•	Revised 1-1-89
	OIL CONSERVATION P.O. Box 2088 Santa Fe, New Mexico 87		API NO. (assigned b	y OCD on New Wells)
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	5. Indicate Type of	STATE FEE X		
DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410	·	_	6. State Oil & Gas	
APPLICATION FOR PE	RMIT TO DRILL, DEEPEN, OR	PLUG BACK		
la. Type of Work:	`		7. Lease Name or i	init Agreement Name
DRILL X RE b. Type of Well: OL GAS WELL X WELL OTHER	ENTER DEEPEN SHALE	PLUG BACK METPLE	South Hob	bs (GSA) Unit
2. Name of Operator Amoco Production Compar	ay		8. Well No. 23	
3. Address of Operator P. O. Box 3092, Housto	on, TX 77253		9. Pool name or Wi	burg S-Andres
4. Well Location Unit Letter F: 1562	Feet From The North	Line and 210	· · · · · · · · · · · · · · · · · · ·	
Section 4	Township 19-S Range	38-E N	MPM Lea	County
	//////////////////////////////////////	11. Fe	//////////////////////////////////////	12. Rotary or C.T.
	4350'		an Andres	Rotary
13. Elevations (Show whather DF, RT, GR, etc., 3614.8 GR		15. Drilling Contractor		prox. Date Work will start 11/6/91
17.	PROPOSED CASING AND	CEMENT PROGR	AM	
SIZE OF HOLE SIZE OF CAL	ING WEIGHT DED FOOT			ENT COT TOO

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

40.5# K-55

1600'

4350!

Add mud materials as necessary in attempting commercial production.

10-3/4"

Mud Program:

0 - 1600'

1600' - 3800' 3800' - TD*

Native/Spud Saturated/Brine

1100 sx

1300 sx

Salt Gel/Starch

IN ABOVE SPACE DE		ROPOSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIV	E ZONE AND PROPOSED NEW PRODUCTIVE
I hereby certify that the info	mustice above is true and complete to the best		DATE 10/15/91
TYPE OR PRINT NAME	Kim A. Colvin		713/ TREASTHUME NO. 596-7686

(Title space for State Use)

14-3/4"

9-7/8"

DATE APPROVED BY_ TITLE .

CONDITIONS OF AFTROVAL, IF ANY:

OIL CONSERVATION DIVISION P. O. BOX 2088

ENERGY AND MINERALS DEPARTMENT SANTA FE. NEW MEXICO 87501 All distances must be from the outer boundaries of the Scott Wall Na Operate Amoco Production Company 231 South Hobbs Unit Unit Lett 19 South 38 East Lea Actual Footage Location of Wells 2100 West *1562′* North foot from the foot from the Grand Level Blov. Dalineted Acr Peal Hobbs (G/SA) 3614.8 San Andres 40 1. Outline the acroage dedicated to the subject well by colored pencil or hachure 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 revalty). 3. If more than one lease of different ewnership is dedicated to the well, have the interests of all ewners been conselidated by communitization, unitization, force-pooling, etc? Yes □ N₀ 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. 2100 South Hobbs Unit Well No. 231 **AMOCO** .PN 538660 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. October 2.1991 Larry A. Fisher

1980

2310

2000

1500

1000

Carrielmenta XI

5 3 17 4

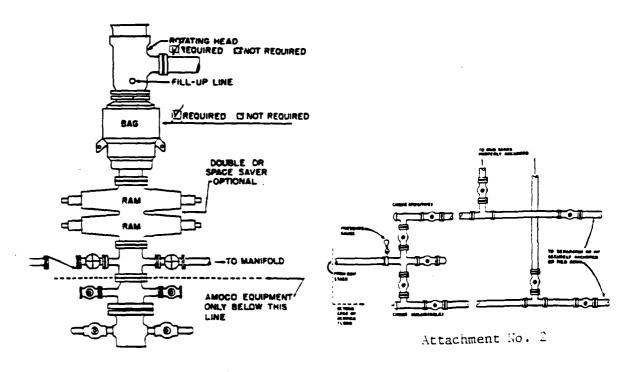
- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 psi w.p. minimum.
- Equipment through which bit must pass shall be at least as large as casing size being drilled through.
- Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly cock is (required)(not required).
- Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
- 5. Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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).
- Fluid lines from accumulator to 80P'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: *

Upper Ram Drill Pipe Lower Ram Blind

Drilling Running Casing
Prill Pipe Casing
Blind Blind

* Amoco District Manager may reverse location of rams.

12. Extentions and hand wheels to be installed and braced at all times.



Submit to Appropriate District Office State Lease — 6 comes

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 Revised 1-1-89

Foe Lease — 5 copies DISTRICT I P.O. Box 1980, Hobbs, NI		CONSERVATION P.O. Box 20	· · · — — · 	API NO. (assigned by OC	D on New Wells)	
DISTRICT II P.O. Drawer DD, Arlesia.		Santa Fe, New Mexico	5. Indicate Type of Lease STATE FEE X			
DISTRICT III 1000 Rio Brazos Rd., Azze	sc, NM 87410			6. State Oil & Gas Lease		
APPLICA"	TION FOR PERMIT	TO DRILL, DEEPEN,	OR PLUG BACK			
la. Type of Work:				7. Lease Name or Unit A	greement Name	
	L X RE-ENTE	DEEPEN [PLUG BACK			
b. Type of Well: OR GAS WELL X WELL	OTHER	5000LB 2006	X 2006	South Hobbs	(GSA) Unit	
2. Name of Operator Amoco Produc	tion Company		-	8. Well No.		
3. Address of Operator				9. Pool same or Wildcat		
P. O. Box 30	92, Houston, T	X 77253		Hobbs Graybur	g S-Andres	
4. Well Location Unit Letter	G : 1710 Feet F	nom The North	Line and 163	O Feet From The	East Line	
Section 4	Town	ubip 19-S Ra	≈e 38-E 1	NMPM Lea	County	
		10. Proposed Depth	//////////////////////////////////////		12. Rotary or C.T.	
		4350'	i	San Andres	Rotary	
13. Elevations (Show wheth	er DF, RT, GR, etc.) GR	14. Kind & Status Ping. Bond	15. Drilling Contractor	16. Approx.	Date Work will start	
17.	PF	OPOSED CASING A	ND CEMENT PROGE			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT		SACKS OF CEMENT	EST. TOP	
14-3/4"	10-3/4"	40.5# K-55	1600'	1100 sx	Surface	
9-7/8"	7''	23# K-55	4350'	1300 sx	Surface	
Propose to d be run and e production.	rill and equip valuated. Perf	well in San Andr orate and/or sti	es formation. A	fter reaching T ary in attempti	D, logs will ng commercial	
* Add mud materials as necessary Mud Program: in attempting commercial production. 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch						
IN ABOVE SPACE DESC ZONG. GIVE BLOWOUT FREVE		LAM: FINOPOSALISTO DESPE	Y OR FLUG BACK, GIVE DATA ON	FRESENT PRODUCTIVE 20NB AN	D PROPOSED NEW PRODUCTIVE	
I hereby certify that the inform	action above is true and complete	s to the best of my knowledge and	Asst. Admin.	Ana 1	10/15/91	
SIGNATURE	Vin A Colorin		ASSL. AUMITI.		713/ EPHONE NO. 596-7686	
(This space for State Use)	Kim A. Colvin			18	2	
1410 specie (02 3445 (02)					_	
CONDITIONS OF APPROVAL &	ANY:	m	.	DA1		

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

	All dies	non must be from	the order boundaries	of the Bestley.	
Атосо	Production Com	pany	Sout	h Hobbs Unit	Well No. 232
Unit Latter G See	tion 4 Township	19 South	Range 38 East	Country	Lea
Actual Postage Location of	Wells North	liss and	1630′	feet from the	East line
Ground Lovel Blov.	Producing Formation	P.	<u> </u>		Deliested Agreeges
3614.1′	San Andr	es	Hobbs	(G/SA)	4Ø Acres
2. If more than interest and 3. If more than dated by configuration. Yes If answer is this form	reyalty). one lease of different communitization, unitization. No If answer is 'no," list the owners and if necessary.)	ownership is dediction, force pooling "yes," type of co	cated to the well, , etc?	have the interests of	all ewners been conseli-
	will be assigned to the ing, or otherwise) or unt		d unit, oliminating	such interests, has been libered tained	CERTIFICATION oy certify that the information conherein is true and complete to the
	 So	uth Hobbs Unit Well No. 232 AMOCO LPN 53866		Name Kum Position ASST. Sompany AMD(A. Colum Admin. Analyst ofroduction Compan
		WEGIS AND THE STATE OF THE STAT	ROFESSIONAL SURVEYOR	shown notes under is true knowle	oy certify that the well location on this plat was plotted from field of actual surveys made by me or my supervision, and that the same and correct to the best of my edge and belief.
			A. FIGHER	Registery	October 2.1991 Larry A. Fisher
0 330 660 990	1320 1650 1980 2310	2640 2000	1500 1000	Cortificate	11013

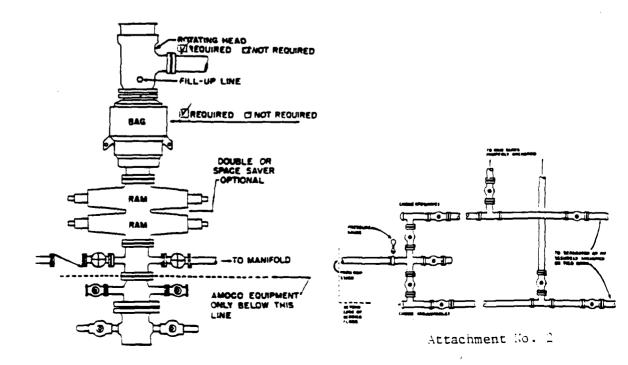
- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 ps; w.p. minimum.
- Equipment through which bit must pass small be at least as large as casing size being drilled through.
- Upper kelly cock is required and shall be 3.000 psi w.p. minimum. Lower kelly cock is (required)(not required).
- 4. Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 ps; w.p. 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:

Upper Ram Orill Pipe
Lower Ram 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.



State of New Mexico

__ DATE ___

OIL CONSERVATION DIVISION P.O. Bas 1950. Hobbs. NM \$2240 P.O. Bas 1950. Hobbs. NM \$2240 Sams Fe. New Mexico 87504-2088 5. Indicate Type of Lease STATE FEE STATE FEE FEO STATE FEO STATE STATE FEE FEO STATE STATE FEE FEE	District Office State Lease — 6 comes Fee Lease — 5 comes	Energy	, Minerais and Natural Re	sources Department		Form C-101 Revised 1-1-89	
FEL DISTRICT APPLICATION FOR PERMIT TO DRILL DEEPEN, OR PLUG BACK APPLICATION FOR PERMIT TO DRILL DEEPEN, OR PLUG BACK It Type of Widt: T	DISTRICT I	88240	P.O. Box 208	8	API NO. (assigned by OCI	O on New Wells)	
Summarized Rd. Action No. FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1. Type of Work: 7. Lease Name or Unit Agreement Name 7. Lease Nam			Santa Fe, New Mexico	87504-2088	• •	ATE FEE X	
1. Type of Work:		L NM 87410					
DEFILE RE-ENTER DEEPEN PLUG BACK SOuth Hobbs (GSA) Unit Note of Vertice	APPLICAT	ION FOR PERMIT	TO DRILL, DEEPEN, O	R PLUG BACK			
South Hobbs (GSA) Unit Name of Dynamic Street Stre	la. Type of Work:				7. Lease Name or Unit Ag	reemen Name	
1. Names of Operator 232 2 2 2 2 2 2 2 2	b. Type of Well:	, -	59(Q.E.		South Hobbs	(GSA) Unit	
Andrew of Operator P. O. Box 3092, Houston, TX 77253 4 Well Location Unit Letter G: 1710 Feet From The North Lies and 1630 Feet From The East Lies Section 4 Torogation 19-S Range 38-E NAMPM Lea County 10 Proposed Depth 11. Ferninston 12. Rotary or CT. 13 Elevations (Show whether DF, RT, GR, etc.) 14. Kind & Status Prog. Bond 15. Delling Contractor 16. Approx. Date Work will ment 11/6/91 17. PROPOSED CASING AND CEMENT PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH SACKS OF CEMENT EST. TOP 14-3/4" 10-3/4" 40.5% K-55 1600" 1100. sx Surface 9-7/8" 7" 23% K-55 4350' 1300 sx Surface Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary Mud Program: in attempting commercial production. 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Sait Gel/Starch NABOVE SPACE DESCRIBE PROPOSED PROGRAM: PROGRAM: PROGRAM: PROGRAM is to best of my isomething and baild. NABOVE SPACE DESCRIBE PROPOSED PROGRAM: PROGRAM: PROGRAM: PROGRAM is to best of my isomething and baild. NABOVE SPACE DESCRIBE PROPOSED PROGRAM: PROGRAM: PROGRAM: PROGRAM is to best of my isomething and baild. THE ASST. Admin. Analyst DATE 10/15/91 713/ *** *** *** *** *** *** *** *** *** *		<u> </u>			8 Well No.		
P. O. Box 3092, Houston, TX 77253 Hobbs Grayburg S-Andres Line and Location Line and Line and Location Line and Line and Location Line and L	Amoco Product	tion Company			1	4.	
Well Location Use Laster G: 1710 Feet From The North Lies and 1630 Feet From The East Lies Section 4 Township 19-S Range 38-E NMFM Lea Commany 10. Proposed Depth 11. Formation 12. Rotary or C.T. 4350' San Andres Rotary 13. Elevations (Show whether DF, RT, GR, etc.) 14. Kind & Status Phys. Bond 15. Deliling Constructor 16. Approx. Date Work will start 11/6/91 17. PROPOSED CASING AND CEMENT PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH SACKS OF CEMENT EST. TOP 14-3/4" 10-3/4" 40.5% K-55 1600' 1100 sx Surface 9-7/8" 7" 23% K-55 4350' 1300 sx Surface Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary Mud Program: 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: PROCOSAL IS TO DESPRES OF FLUID BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE, AND PROPOSED NEW PRODUCTIVE ZONE AND P	-				9. Pool same or Wildcat		
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Section 4 Township 19-S Ramps 38-E NMPM Lea County	4. Well Location Unit Letter G	: 1710 Feet F	From The North	Line and 163	() Feet From The	Fast Line	
10. Proposed Depth 11. Formston 12. Rossy or C.T. 4.350' San Andres Rotary 13. Elevations (Show whether DF, RT, GR, etc.) 14. Kind & Status Plug Bond 15. Ddilling Contractor 16. Approx. Data Work will start 11/6/91 17. PROPOSED CASING AND CEMENT PROGRAM 11/6/91 18. SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH SACKS OF CEMENT EST. TOP 14-3/4" 10-3/4" 40.5 % K-55 1600' 1100 sx Surface 9-7/8" 7" 23 % K-55 A350' 1300 sx Surface Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary Mud Program: 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: PROPOSED IS TO DESPISA OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PROPOSED						<u> </u>	
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SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH SACKS OF CEMENT EST. TOP 14-3/4" 10-3/4" 40.5% K-55 1600' 1100 sx Surface 9-7/8" 7" 23% K-55 4350' 1300 sx Surface Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Add mud Program: 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch ** Salt Gel/Starch ** TD* Salt Gel/Starch ** ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DESPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONG AND PROPOSED NEW PRODUCTIVE ZONG, GIVE BLOWOUT PROVENTES PROGRAMS # ANY. ** INDICATORS AND PROPOSED NEW PRODUCTIVE ASSET ADMIN. Analyst DATE 10/15/91 ** TITLE ASSET. Admin. Analyst DATE 10/15/91	17.	PF	ROPOSED CASING AN	D CEMENT PROGR	RAM		
Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary	SIZE OF HOLE					EST. TOP	
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be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Mud Program: 10 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: FINOROSAL IS TO DESFEN OR FLUG BACK GIVE DATA ON FRESENT FRODUCTIVE ZONE AND FROPOSED NEW FRODUCTIVE ZONE GIVE BLOWOUT FREVENTER FROGRAM. F ANY. I hereby certify that the information above is thus and complete to the best of my knowledge and belief. SIGNATURE Asst. Admin. Analyst DATE 10/15/91		· · · · · · · · · · · · · · · · · · ·	<u> </u>		L		
in attempting commercial production. 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: P PROPOSAL IS TO DESPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM. P ANY. I hereby coruly that the information above is true and complete to the box of my knowledge and belief. SIGNATURE Asst. Admin. Analyst DATE 10/15/91 713/ SOC. PROS.	be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production.						
I hereby cerufy that the information above is true and complete to the best of my knowledge and belief. SHONATURE Asst. Admin. Analyst DATE 10/15/91	in attempting commercial production. 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine						
SECONATURE Kim 4. Calua Mrs. Asst. Admin. Analyst DATE 10/15/91							
713/ 506 7606	<i>V</i> :	tice above is true and complete	s to the best of my knowledge and be		Analyst	10/15/91	
		Kim A. Colvin		,			

_____ me__

CONDITIONS OF AFTROVAL, & ANY:

(This space for State Use)

ATTROVED BY ___

OIL CONSERVATION DIVISION P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

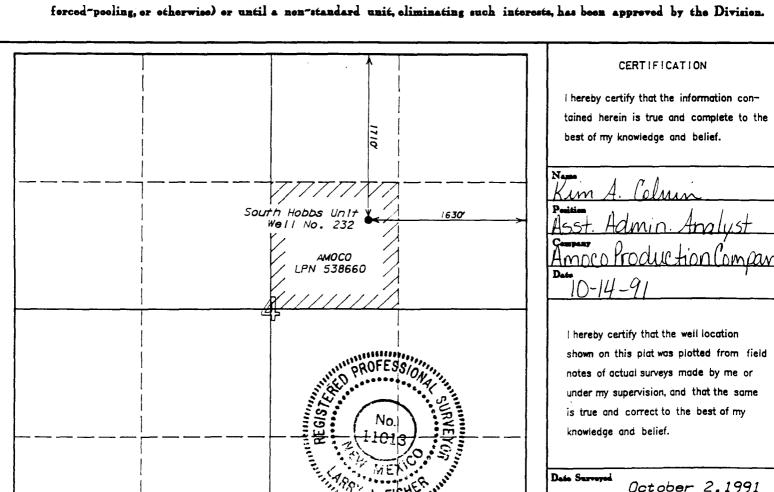
Form C-102 Revised 10-1-78

Larry A. Fisher

11013

Wall Na Amoco Production Company 232 South Hobbs Unit Range Unit Lott G 19 South 38 East Lea Actual Postage Location of Walk 1630 *17.10′* North East foot from the foot from the Delicated Acc Ground Lovel Blov. Pool Hobbs (G/SA) 3614.1 San Andres 40

- 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- 2. If more than one lease is dedicated to the well, outline each and identify the ewnership thereof (both as to working interest and revalty).
- 3. If more than one lease of different ewnership is dedicated to the well, have the interests of all ewners been conselidated by communitization, unitization, force-pooling, etc?
- You ☐ No If answer is "yes," type of consolidation
 - If answer is "no," list the ewners 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, unitization,



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- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 psi 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).
- 4. Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 ps; w.p. minimum.
- 5. Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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 pst. 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:

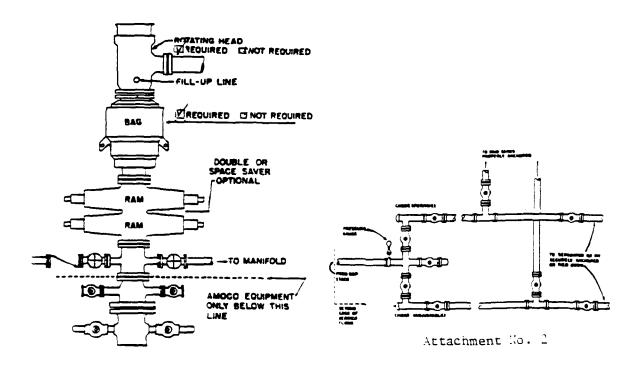
Ţ,

Upper Ram Drill Pipe
Lower Ram 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.



Submit to Appropriate

State of New Mexico

_ DATE __

District Office State Lease — 6 copies Fee Lease — 5 copies		Minerais and Natural R	•			Revised 1-1-	
DISTRICT I P.O. Box 1980, Hobbs, NI	M 88240	CONSERVATIO P.O. Box 201	88	API NO. (as	nigned by OC	D on New Wells)	
DISTRICT II P.O. Drawer DD, Artesia,		anta Fe, New Mexico	87504-2088	5. Indicate	Type of Lease	TATE 1	FEE X
DISTRICT III 1000 Rio Brazos Rd., Azze	sc, NM 87410			6. State Oil	& Gas Lease		
	TION FOR PERMIT	O DRILL, DEEPEN, O	OR PLUG BACK				
la. Type of Work:		_		7. Lease N	eme or Unit A	greement Name	
b. Type of Well: OR. GAS WELL X WELL	L X RE-ENTER	DEEPEN	PLUG BACK WALTELE ZONE	Souti	h Hobbs	(GSA) Unit	•
2. Name of Operator Amoco Produc	tion Company			8. Well No	232		.,
3. Address of Operator	200			1	ne or Wildcat		
4. Well Location	92, Houston, T	X 77253		Hobbs	Graybun	S-Andres	<u> </u>
	G: 1710 Feet P	rom The North	Line and 16	30 Peet	From The	East	Line
	_	10.5			_		
Section 4	Towns	hip 19-5 Ra	38- E	NMPM	Lea ////////		County 7/////
		10. Proposed Depth	11	. Formation		12. Rotary or C.	<i>777777</i> T.
		4350'		San Andre		Rotary	
13. Elevations (Show whath		4. Kind & Status Plug, Bond	15. Drilling Contract	or .		Date Work will st	art
3614.1'	GR [11	/6/91	-
		OPOSED CASING A					
SIZE OF HOLE	SIZE OF CASING 10-3/4"	WEIGHT PER FOOT	SETTING DEPTH		F CEMENT	EST. TO	
9-7/8"	7"	40.5# K-55 23# K-55	1600' 4350'		00 sx 00 sx	Surface Surface	
		238 8-33	4350		70 SX	Surrace	<u></u>
be run and e production. * Add mud m	rill and equip valuated. Performance Perfo		es formation. mulate as neces Mud Progr 0 - 1600 1600' - 1 3800' - 1	ram: ' Na 3800' Sa	aching T attemption ative/Sponturated, alt Gel/S	ng commerc ud /Brine	ll ial
ZONEL GIVE BLOWOUT PREVE	INTER PROGRAM, IF ANY.	AM: F PROPOSAL IS TO DEEPER	belief.		JCTIVE ZONE AN		
SECONATUREKAN	n A. Colum	m	Asst. Admin.	Analyst	DA1		
TYPE OR PRINT NAME	Kim A. Colvin				Treat	713/ EMIONENO. 596	- 7686
(This space for State Use)			4				

___ me__

APPROVED BY

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OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 ENERGY AND MINERALS DEPARTMENT Revised 10-1-78 SANTA FE, NEW MEXICO 87501 Wall Na 232 Amoco Production Company South Hobbs Unit Unit Lette 19 South 38 East Lea Actual Footage Location of Wells 1630' East 17.10 North foot from foot from the Ground Level Blev. Peal Hobbs (G/SA) 3614.1 San Andres 40 1. Outling the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ewnership 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 consolidated by communitization, unitization, force-pooling, etc? Yes 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, climinating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. South Hobbs Unit 1630 Well No. 232 AMOCO PN 538660 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. October 2.1991 Larry A. Fisher

1. BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 psi w.p. minimum.

. . . .

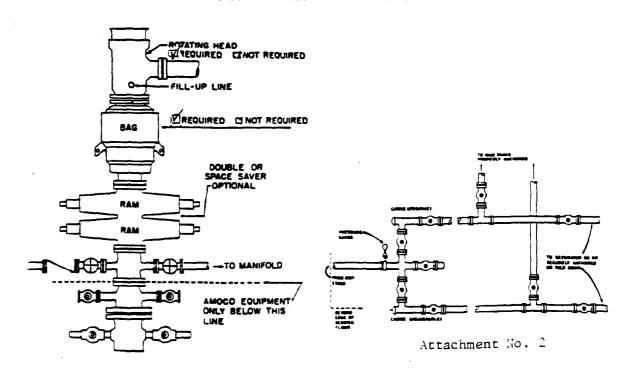
- Equipment through which bit must pass shall be at least as large as casing size being drilled through.
- Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly cock is (required)(not required).
- Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
- 5. Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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: *

Upper Ram Drill Pipe
Lower Ram 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.



SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR ALL B.O.P. EQUIPMENT.

Submit to Appropriate
District Office
State Lease — 6 copies
Foe Lease — 5 copies

State of New Mexico Energy, Minerais and Natural Resources Department

Form C	-101
Revised	1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION API NO. (assigned by OCD on New Wells)							
DISTRICT II P.O. Drawer DD, Artesia, I		Santa Fe, New Mexico	87504-2088	5. Indicate Type of Leas	TATE FEE X		
DISTRICT III 1000 Rio Brazos Rd., Azia	c. NM 87410			6. State Oil & Gas Leans			
APPLICAT	TON FOR PERMIT	TO DRILL, DEEPEN, C	OR PLUG BACK				
la. Type of Work:				7. Lease Name or Unit A	greenest Name		
b. Type of Well: OR. GAS WELL X WELL	RE-ENTE	DEEPEN SHOLA	PLUG BACK [South Hobbs	(GSA) Unit		
2. Name of Operator Amoco Produc	tion Company			8. Well No.			
3. Address of Operator				9. Pool same or Wildow			
P. O. Box 30	92, Houston,	TX 77253		Hobbs Graybu	g S-Andres		
4. Well Location Unit Letter Section 4	F : 2480 Feet I			1800 Feet From The	West Line		
		10. Proposed Depth	11	l. Formation	12. Rotary or C.T.		
		4350'		San Andres	Rotary		
13. Elevations (Show whether		14. Kind & Status Plug. Bond	15. Drilling Contrac	1	Date Work will start		
	GR				1/6/91		
17.	P	ROPOSED CASING AN	ID CEMENT PRO				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT			EST. TOP		
14-3/4"	10-3/4"	40.5# K-55	1600'	1100 sx	Surface		
9-7/8"	<u> 7''</u>	23# K-55	4350'	1300 sx	Surface		
Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * O - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch							
ZONE. GIVE BLOWOUT PREVE	NTER PROCEASE, IF ANY.	RAM: If PROPOSAL IS TO DESPREA			ND PROFOSED NEW PRODUCTIVE		
SKINATURE	4. 19/11	m	<u> </u>		713/ LEPHONE NO. 596-7686		
TYPE OR FRINT NAME	Kim A. Colvin			n.	UBTHONE NO. 290-/080		
(This space for State Use)							
APPROVED BY		m.	8	DA	TB		
CONDITIONS OF AFTROVAL, F	ANY:						

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

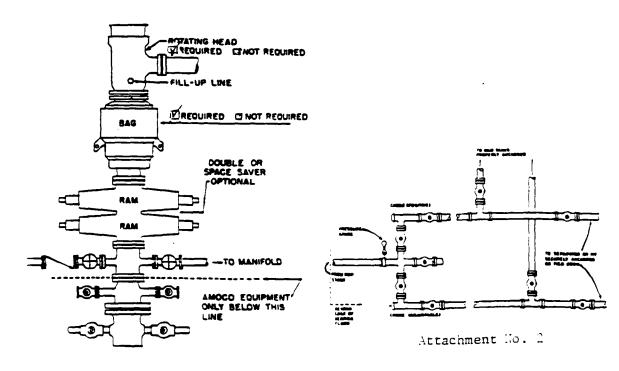
		All distant	en must be from	the outer boundaries of	i the Section.		
Operator A	moco Produc	tion Compa	any L	South	Hobbs Unit	Wall No.	234
Unit Letter	Section 4	Township	19 South	Range 38 East	County	Lea	
Actual Postago La 2480'	•	North		1800′		Wast	
Ground Lovel Ele	feet from the Producing		line and		feet from the	Delicated Acres	line
36Ø7	. !	San Andres		Hobbs (G/SA)	40	Agree
1. Outlir	so the acreage ded	licated to the s	abject well by	colored pencil or has	chure marks on the	plat below.	
inter	rost and royalty).	of different ow	norship is dedi	cated to the well, he			* <u>.</u>
□ Y•	. 🗆 N.	If answer is "	res," type of co		ll- bli-1-6	ol (Ulas sarrassa	
	form if necessar		ract description	ns which have actua	ily been conseitdate	d. (Uso reverse	eide et
No all	lowable will be ass	signed to the w	oll until all int	erests have been con	solidated (by comm	unitization, unit	ization,
forc	ed-pooling, or othe	orwise) or until	a non-standard	l unit, oliminating a	ach interests, has be	on approved by	the Division.
							
		A				CERTIFICAT	TON
					l here	by certify that the in	nformation con-
		2			1 1	t herein is true and	
	1	2480		1	1 1	of my knowledge and	•
	} !			<u> </u>			·
	-	77777			Name	- 1 C.D.	
		AMOCO			Position	n A. IMA	un_
	L.F	PN 538660			Asst	. Admin. A	inalyst
					Amo	en Product	tion Common
	Ý.	South Hobbs			Date	11 01	· · · · · · · · · · · · · · · · · · ·
<	1800	1/////	<u> </u>		1 10	<u>-14-91</u>	
			i.	No.	show	eby certify that the wan on this plat was particles of actual surveys army supervision, and	plotted from field made by me or
	. 1		180	No.	is tn	ue and correct to th	ne best of my
<u> </u>			<u>=</u>	(±1013) ÷	know	ledge and belief.	
	i 		111	Mario.			
	\$		7	AND MEN	Date Sus	Septemb	er 25.199
				Propositional Services	Register	Lad Same	John A. Fisher
0 330	660 990 1320 1650	0 1980 2310 26	10 2000	15 00 10 00 50	Cortified	111	Ø13

- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 psi 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 subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
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- 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 80P'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: *

Upper Ram Drill Pipe
Lower Ram Blind

Running Casing
T Pipe Casing
I find Blind

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



Submit to Appropriate
District Office
State Lease — 6 copies
Foe Lease — 5 copies

CONDITIONS OF APPROVAL, IF ANY:

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 Revised 1-1-89

DISTRICT I	OIL	CONSERVATIO		API NO. (assigned by O	D on New Wells)		
P.O. Box 1980, Hobbs. NR		P.O. Box 208					
DISTRICT II P.O. Drawer DD, Artesia,		Santa Fe, New Mexico	8/304-2088	5. Indicate Type of Leas	TATE FEE		
DISTRICT III 1000 Rio Brizos Rd., Azze	c, NM 87410			6. State Oil & Gas Less			
APPLICAT	TION FOR PERMIT	TO DRILL, DEEPEN, C	OR PLUG BACK				
Ia. Type of Work:				7. Less Name or Unit	Agraement Name		
DRIL	L X RE-ENTER	DEEPEN	PLUG BACK				
b. Type of Well: OR GAS WELL X WELL	_	SHOLE	X 200€ □	South Hobbs	(GSA) Unit		
2. Name of Operator Amoco Produc	tion Company			8. Well No.	4		
3. Address of Operator				9. Pool same or Wildes			
	92, Houston, T	X 77253		Hobbs Graybu	rg S-Andres		
4. Well Location Unit Letter	F : 2480 Feet F	rom The North	Line and 18	Rest From The	West Line		
Section 4	Town	ahip 19-S Rad	38-E	NMPM Lea	County		
		10. Proposed Depth]	formation.	12. Rotary or C.T.		
		4350'		San Andres	Rotary		
	GR	14. Kind & Status Plug. Bond	15. Drilling Contractor	, .,	Date Work will start 1/6/91		
17.	PF	IOPOSED CASING AN	ID CEMENT PROGR	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP		
14-3/4"	10-3/4"	40.5# K-55	1600'	1100 sx	Surface		
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20NEL GIVE BLOWOUT PREVE	NTER PROGRAM, IF ANY.	`		Analyst D	10/15/91 713/ REPTENS NO. 596-7686		
(This space (or State Use)		Tinu			\TB		

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OIL CONSERVATION DIVISION

Form C-102 Revised 10-1-78 P. O. BOX 2088 ENERGY AND MINERALS DEPARTMENT SANTA FE. NEW MEXICO 87501 rust be from the outer boundaries of the Soctio Wall Na Amoco Production Company South Hobbs Unit 234 Rango Township Unit Lette 38 East 4 19 South Lea Actual Feetage Location of Wells 2480' North 1*800'* West foot from the foot from the Ground Level Elev. Dedicated Acres Producing Formation Peel Hobbs (G/SA) 3607.4 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 3. If more than one lease of different ewnership is dedicated to the well, have the interests of all ewners been conselidated by communitization, unitization, force-pooling, etc? If answer is "yes," type of consolidation Yes □ N₀ 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. **АМО СО** LPN 538660 South Hobbs Unit Well No. 234 1800 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my No. knowledge and belief. September 25.1991

2000

1000

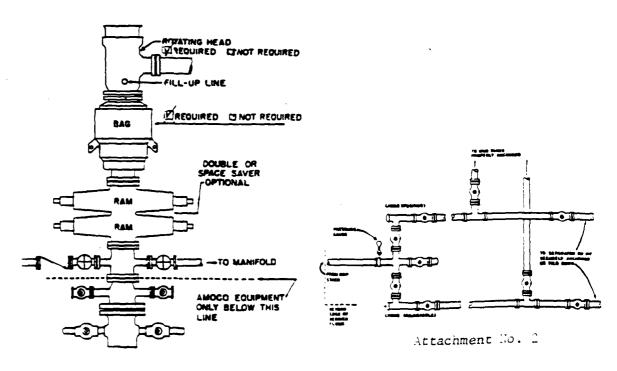
500

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Lower Ram Blind

Running Casing Casing Blind

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- 12. Extentions and hand wheels to be installed and braced at all times.



Mexico Resources Department

Santa Fe, New Mexico 87504-2088

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

DEEPEN

North

10. Proposed Depth

RE-ENTER

Houston, TX 77253

: <u>2480</u> Feet From The

Form C-101

Submit to Appropriate	State of New Mexi
District Office State Lease - 6 copies	Energy, Minerais and Natural Reso
Fee Lease - 5 copies	OH CONCEDIATION
DISTRICT I	OIL CONSERVATION
P.O. Box 1980, Hobbs, NM 88240	P.O. Box 2088

DISTRICT II

la. Type of Work:

b. Type of Well:

WELL X

2. Name of Operator

3. Address of Operator

Well Location

P. O. Box 3092,

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410

DRILL X

Amoco Production Company

Kabulca Departital	Revised 1-1-89				
ION DIVISION 2088	API NO. (assigned by OCD on New Wells)				
∞ 87504-2088	5. Indicate Type of Lease STATE FEE X				
	6. State Oil & Ges Lease No.				
, OR PLUG BACK					
	7. Lease Name or Unit Agreement Name				
PLUG BACK	South Hobbs (GSA) Unit				
	8. Well No.				
	234				
	9. Pool name or Wildon				
	Hobbs Grayburg S-Andres				
Line and18	00 Feet From The West Line				

12. Rotary or C.T. 4350' San Andres Rotary 13. Elevations (Show whether DF, RT, GR, etc.) 14. Kind & Status Plug. Bond 15. Drilling Contractor 16. Approx. Date Work will start 3607.41 GR 11/6/91 17. PROPOSED CASING AND CEMENT PROGRAM SIZE OF HOLE SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH SACKS OF CEMENT EST. TOP 14-3/4" 10-3/4" 1600' 40.5# K-55 1100 sx Surface 9-7/8" 23# K-55 4350! 1300 sx Surface Propose to drill and equip well in San Andres formation. After reaching TD, logs will

be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production.

Add mud materials as necessary in attempting commercial production.

Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESC ZONEL GIVE BLOWOUT PREVI		POSAL IS TO DEEPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIV	YE ZONE AND PROPOSED NEW PRODUCTIVE
I hereby certify that the information Signature	nation above in true and complete to the best of	my knowledge and botief. Asst. Admin. Analyst	DATE 10/15/91
TYPE OR FRINT NAME	Kim A. Colvin		713/ TELEPHONE NO. 596-7686
(This space for State Use)			
APPROVED BY	ANY:	TITE	DATE

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

		All distance		the outer boundaries	f the Sections	
Amo	co Product	1on Compa	any La	South	Hobbs Unit	Wall No. 234
it Letter F	Section 4	Township	19 South	Rasse 38 East	County	Lea
tual Footage Locatio 2480' g	n of Woll: oot from the	North	line and	1800′	feet from the	West lim
3607 . 4'	Producing F	ometica San Andres	Pee	Hobbs	(G/SA)	Dedicated Agreeges 4Ø Agree
·	,			colored penail on he	chure marks on the	<u> </u>
interest 3. If more to dated b	and royalty). han one lease of y communitizati No	f different own ion, unitization (f answer is "y	norship is dedic a, force-pooling, yes," type of co	cated to the well, b , etc? nsolidation	ave the interests of a	eof (both as to working
this for No allows	m if necessary. ble will be assig	ned to the we	oll until all inte	erests have been co	nsolidated (by communich interests, has been	nitization, unitization, n approved by the Division CERTIFICATION y certify that the information con-
	LPN	AMOCO 538660 South Hobbs Well No. 2				herein is true and complete to the my knowledge and belief. A. Columna Admin. Analyst o Production Compa
18	00'			i	In.	-14-91

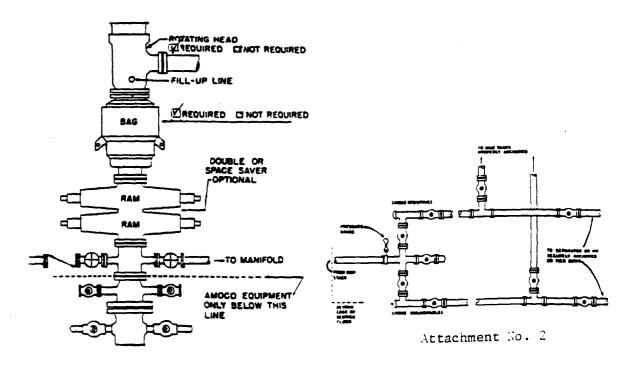
- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 psi w.p. minimum.
- Equipment through which bit must pass shall be at least as large as casing size being drilled through.
- Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly cock is (required)(not required).
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- 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: 1

Upper Ram Drill Pipe
Lower Ram 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.



Submit to Appropriate District Office State Lease — 6 comes Fee Lease — 5 comes

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State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101 Revised 1-1-89

Revised	1-1-89

P.O. Drawer DD, Artesia, i	A 88240 S	CONSERVATIO P.O. Box 208 anta Fe, New Mexico	API NO. (sangard by OC 5. Indicate Type of Leas		
DISTRICT III 1000 Rio Brazos Rd., Azie	c, NM 87410			6. State Oil & Gas Leans	
	TON FOR PERMIT	O DRILL, DEEPEN, C	OR PLUG BACK		
b. Type of Well: OR. GAS WELL X WELL	L X RE-ENTER	DEEPEN SMGLE	PLUG BACK	7. Lease Name or Unit A South Hobbs	
2 Name of Operator Amoco Produc	tion Company			8. Well No. 236	3
3. Address of Operator				9. Pool same or Wildon	
P. O. Box 30	92, Houston, T	X 77253		Hobbs Graybu	g S-Andres
4. Well Location Unit Letter Section 4	K : 1403 Foot F		Line and 174		West Line
7777777777777	Towns	hip 19-5 Rai	№ 38-E	NMPM <u>Lea</u>	County
		10. Proposed Depth	***-	ormation	12. Rotary or C.T.
		4350'		San Andres	Rotary
13. Elevations (Show which 3603.51 (4. Kind & Status Plug. Bond	15. Drilling Contractor	1 "	Date Work will start 1/6/91
17.		OPOSED CASING AN	ID CENENT PROGR		.70/31
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14-3/4"	10-3/4"	40.5#_K-55	1600'	1100 sx	Surface
9-7/8"	7**	23# K-55	4350'	1300 sx	Surface
ļ					·
Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Mud Program: 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch					
I hereby corufy that the inform SIGNATURE TYPE OR FRINT NAME	NTER PROGRAM, IF ANY.	AM: F PROPOSAL IS TO DESIFER to the best of my knowledge and i		Analyst DA	10/15/01
(This space for State Use)			•		

_ 1111.2 _

APPROVED BY

330

660

990

1320

1650

1980

2310

2000

1500

1000

sòo

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102 Revised 10-1-78

11013

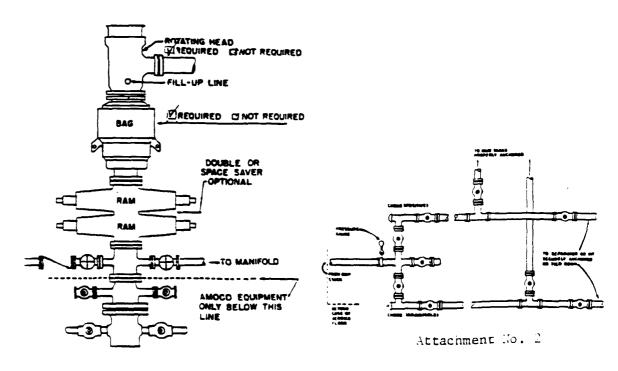
SANTA FE, NEW MEXICO 87501 Орегани Wall Na Amoco Production Company South Hobbs Unit 236 Unit Lette 19 South K 4 38 East Lea es of Wells 1403 South 1746 West foot from the line and foot from the Ground Lovel Elev. Pool Delinated Ac Hobbs (G/SA) 3603.5 San Andres 40 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ewnership thereof (both as to working 3. If more than one lease of different ewnership is dedicated to the well, have the interests of all ewners been conselidated by communitization, unitization, force-pooling, etc? 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, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division. CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. I hereby certify that the well location **AMOCO** shown on this plat was plotted from field LPN 538660 notes of actual surveys made by me or under my supervision, and that the same South Hobbs Unit is true and correct to the best of my Well No. 236 / knowledge and belief. Date Surv October 2.1991 Fisher

- BOP's to be fluid operated. SOP's and all fittings must be in good condition and rated at 3,000 psi 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).
- 4. Hydril or comparable safety valve shall be available on rig floor with connection or subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
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- 11. Use rams in following positions: *

Upper Ram Drill Pipe
Lower Ram 81ind

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.



Submit to Appropriate District Office State Lease — 6 comes Fee Lease — 5 comes		State of New Me	sources Department		Form C-101 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs, NR	M 88240	P.O. Box 208	8	API NO. (sangard by OC	D on New Wells)
DISTRICT II P.O. Drawer DD, Artesia,		Santa Fe, New Mexico	8 /304-2088	5. Indicate Type of Lease S'	TATE FEE X
DISTRICT III 1000 Rio Brazos Rd., Azze	IC. NIM 87410	_		6. State Oil & Gas Lease	No.
	TION FOR PERMIT	TO DRILL, DEEPEN, C	OR PLUG BACK		
la. Type of Work:				7. Lesse Name or Unit A	greenest Name
b. Type of Well: OR GAS WELL X WELL	L X RE-ENTE	DEEPEN SHOLE	PLUG BACK MARTIPLE	South Hobbs	(GSA) Unit
2. Name of Operator Amoco Produc	tion Company			8. Well No. 236	ž.
3. Address of Operator P. O. Box 30	92, Houston,	TX 77253		9. Pool same or Wildow Hobbs Graybur	g S-Andres
4. Well Location Unit Letter	K : 1403 Feet	From The South	Line and 174	6 Feet From The	West Line
Section 4	Town	nathip 19-S Ras	38-E !	NMPM Lea	County
		10. Proposed Depth			12. Rotary or C.T.
		4350'	1 3373	an Andres	Rotary
13. Elevations (Show whath	er DF, RT, GR, etc.)	14. Kind & Status Plug. Bond	15. Drilling Contractor		Date Work will start
3 603.5 ' (GR			11	1/6/91
17.	P	ROPOSED CASING AN	ID CEMENT PROGR	IAM	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
14-3/4"	10-3/4"	40.5# K-55	1600'	1100 sx	Surface

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

40.5# K-55

23#

* Add mud materials as necessary in attempting commercial production.

9-7/8"

CONDITIONS OF AFFROYAL IF ANY:

Mud Program:

0 - 1600'

1600'

43501

Native/Spud

1100 sx

1300 sx

1600' - 3800' 3800' - TD*

Saturated/Brine

Surface

Surface

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DESPEN OR FLUG BACK, GIVE DATA ON PRESENT PI ZONE, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.	CODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE
I hereby certify that the information above is true and complete to the best of my knowledge and belief. SKINATURE Asst. Admin. Analys	st DATE 10/15/91
TYPE OR PRINT NAME Kim A. Colvin	713/ TELEPHONENO. 596-7686
(Title space (or State Use)	
APPROVED BY	DATE

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-78

11013

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

1320 1650 1980 2310 2640

330

2000

Operator				1	s the exter boundarie			Wall Na	
		roduct 10	on Comp	pany		h Hobbs U	nit		236
Juit Letter	Section	4	Township	19 South	Range 38 Eas	County	Lea		
Lotael Feetage I		_	· · · · · · · · · · · · · · · · · · ·		1740		1.7 -		
<u>1,403'</u> Ground Lovel El		Producing Form	outh	line and	1746'	foot from (ted Acresges	<u> </u>
3603		-	n Andre	17		(G/SA)	104300	40	Acres
2. If me into	ore than of orest and it or	no lease is decoyalty). no lease of demunitization No If	odicated to lifferent o , unitization	wnership is de on, force-poolin	consolidation	tify the owners	hip thereof (be	th as to wer	•li-
th: No a	is form if llowable w	nocomary.) ill be assigne	d to the	woll until all in	ons which have accurate the storests have been of unit, eliminating	consolidated (by	communitizat , has been appr	ien, unitizationed by the	Division. ation con-
	(746'	LPN S	000 538660 Hobbs Un	T T T T T T T T T T T T T T T T T T T	(No. 11013)	William Co. A. S. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	I hereby certify shawn on this a notes of actual under my super is true and column knowledge and	surveys made vision, and that rect to the belief.	cation I from field by me or the same
		1403			Proposition of the state of the		Register Land Se	ctober 2	iska

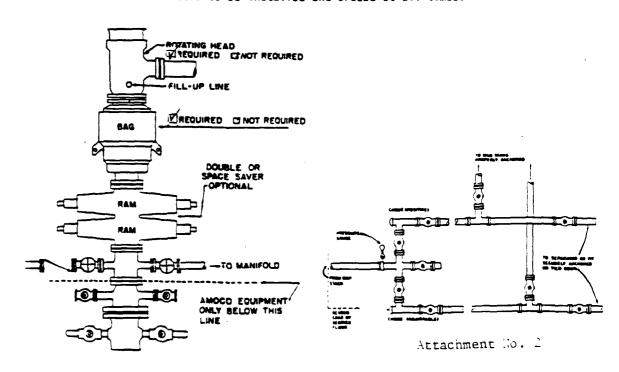
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Lower Ram Blind

Running Casing Casing Blind

* Amoco District Manager may reverse location of rams.

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Submit to Appropriate District Office State Lease - 6 copies Foe Lease - 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-101 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbe, NM 88240

OIL CONSERVATION DIVISION P.O. Box 2088

DISTRICT II P.O. Drawer DD, Artenia, NM 88210

Santa Fe, New Mexico 87504-2088

API NO. (assigned by	OCD on New We	ella)
5. Indicate Type of La	STATE	FEE X

DISTRICT III 1000 Rio Brazos Rd., Aztec, I	NM 87410			6. State Oil & Gas L	esse No.
	ON FOR PERMIT 1	TO DRILL, DEEPEN, C	R PLUG BACK		
la. Type of Work:				7. Lease Name or U	nit Agreement Name
b. Type of Well: OL GAS WELL X WELL	X RE-ENTER	SPICE	PLUG BACK MAITELE		os (GSA) Unit
2. Name of Operator Amoco Producti	on Company		•	8. Well No. 23	
3. Address of Operator P. O. Box 3092	2, Houston, T	X 77253		9. Pool same or Wild Hobbs Gravi	oure S-Andres
4. Well Location Unit Letter K	: 1403 Feet P	rom The South	Line and 17	46 Feet From Th	
Section 4	Towns	thip 19-S Ram	38-E	NMPM Lea	County
		10. Proposed Depth	111	Formation	12. Rotary or C.T.
		4350'	1.5 7-10-0	San Andres	Rotary
13. Elevations (Show whether I		4. Kind & Status Plug, Bond	15. Drilling Contract	or 16. App	rox. Date Work will start 11/6/91
17. PROPOSED CASING AND CEMENT PROGRAM					
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEME	NT EST. TOP
14-3/4"	10-3/4"	40.5# K-55	1600'	1100 sx	Surface
9-7/8"	7"	23# K-55	4350'	1300 sx	Surface
•					

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0 - 1600'

Native/Spud Saturated/Brine

1600' - 3800'

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAZONOL GIVE BLOWOUT PREVENTER PROGRAM, # ANY.	LL IS TO DESIFIEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIV	/E ZONE AND PROPOSED NEW PRODUCTIVE
	TITLE Asst. Admin. Analyst	713/ TELEPHONE NO. 596-7686
(This space for State Use)		12271JAE NO. 330 7000
APPROVED BY	тив	DATE

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

	_			All dies	nere must be fo	en the out	er boundaries e	f the Section	<u>. </u>		
Operator	Атос	o Pro	duct 1	on Com	pa <i>n</i> y	Lague	South	Hobbs	Unit	Wall Na.	236
Unit Letter	K	Section	4	Township	19 Sout	Range	38 East	County	L	8 8	
Actual Footag	-	of Walk		South	line and	···········	1746′	foot from	. 4h. W	/est	line
round Lovel	l Elev.		lucing Pers	nation		Peel				edicated Acresges	
	03.5			n Andr	es aubject well		Hobbs (40	Acres
3. If	more th	and roya an one l	lty). case of (lifferent (to the well, ou ownership is d	edicated :		,			_
If No	this form	n if nec ole will b	ist the e casary.)	wners and	"yos," type of tract descrip well until all il a non-stand	tions which	h have actua	solidated ((by communit	ization, unitis	eation,
										CERTIFICATI	ON
									tained here	rtify that the info ein is true and o knowledge and	complete to the
									AMOCO	dmin. A	· · · ^
<u> </u>	17-	16'	/ LPN . / / South	Hobbs Ur No. 236	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	, a " / TT.	o.		shown on to notes of a under my s is true and	ertify that the we this plat was plo ctual surveys ma supervision, and a correct to the and belief.	tted from field de by me or that the same
	,		1403		- Interior	ARRY A	FISHER		Date Surveyed Registers Las	d Surveyor	2.1991 July Fisher
0 330	0 660	990 1320	1650 1	980 2310	2640 200	0 1500	1000 5		Cartificate No.	110	 13

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- 10. Fill up line must be steel. Kill line cannot be used for fill up line.
- 11. Use rams in following positions:

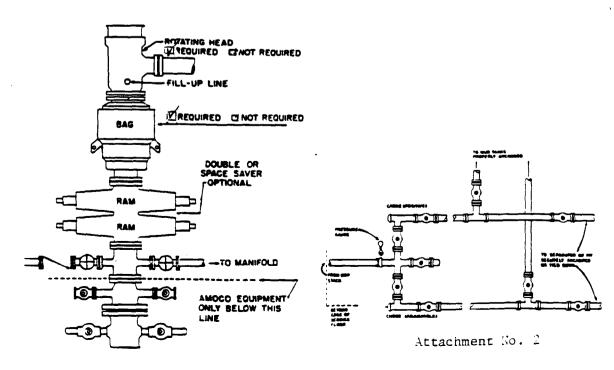
Upper Ram Lower Ram

Drilling. Running Casing Drill Pipe 81 ind

Casing

Blind.

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



Submit to Appropriate
District Office
State Lease — 6 copies
Foe Lease — 5 copies

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101

Revised 1-1-89

DISTRICTI		CONSERVATIO P.O. Box 208		API NO. (assigned	by OCD on New Wells)		
P.O. Box 1980, Hobbs, NN		Santa Fe, New Mexico					
DISTRICT II P.O. Drawer DD, Artesia, I		Delias 1 0, 110 W 1110 W 110 W 100 W	0,50 . 2000	5. Indicate Type of	STATE FEE X		
DISTRICT III 1000 Rio Brazos Rd., Azia	c, NM 87410			6. State Oil & Gas	Lesse No.		
APPLICAT	TION FOR PERMIT	TO DRILL, DEEPEN, C	R PLUG BACK				
la. Type of Work:				7. Less Name or	Unit Agreement Name		
DRIL	DRILL X RE-ENTER DEEPEN PLUG BACK						
b. Type of Well: OH CAS WELL OTHER SHOLE X 2006							
2. Name of Operator Amoco Produc	tion Company			8. Well No.	37		
3. Address of Operator				9. Pool same or W			
P. O. Box 30	92, Houston,	TX 77253		Hobbs Gray	yburg S-Andres		
4. Well Location Unit Letter	0 : <u>1300</u> Feet	From The South	Line and 191	O Feet From 1	The East Line		
Section 4	Town	eathip 19-S Ram	⇔ 38-E	NMPM Lea	County		
		10. Proposed Depth	//////////////////////////////////////		12. Rotary or C.T.		
		4350'		San Andres	Rotary		
13, Elevations (Show whith	or DF, RT, GR, etc.)	14. Kind & Status Plug, Bond	15. Drilling Contractor		pprox. Date Work will start		
3610.2'	GR				11/6/91		
17.	p _i	ROPOSED CASING AN	ID CEMENT PROG	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEM	IENT EST. TOP		
14-3/4"	10-3/4"	40.5# K-55	1600'	1100 sx			
9-7/8"	7"	23# K-55	4350'	1300 sx			
Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. * O - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch							
SOME. GIVE BLOWOUT PREVE	NTER PROGRAM, IF ANY.			HESENT PRODUCTIVE 2	ONE AND PROPOSED NEW PRODUCTIVE		
I hereby cortify that the inform	shoe above a true and comple	to to the best of my knowledge and b	Asst. Admin.	Analyst	DATE 10/15/91		
TYPE OR FRINT NAME	Kim A. Colvir	1			713/ TELEPHONE NO. 596-7686		
(This space for State Use)							
APPROVED BY		πυ	L		DATE		
CONCERNATION ASSESSMENT OF ASS	A10%				•		

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

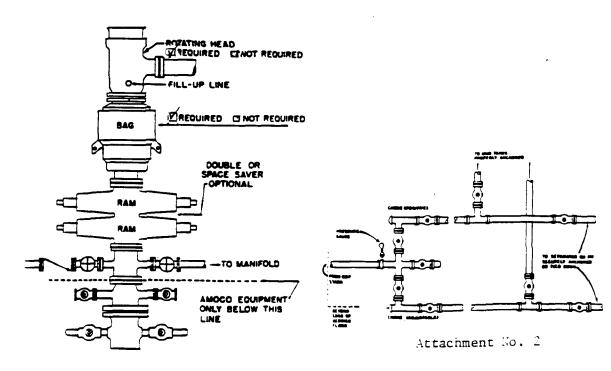
0				All dies		the outer boundaries of	the Section.	- Im no
Operator	Amo	co Pro	duct 1	on Com	npany h	South	Hobbs Unit	Wall No. 237
Unit Letter	0	Sestion	4	Township	19 South	Rampo 38 East	County	Lea
Actacl Foots	10' 1	s of Walk set from th		South	line and	1910′	feet from the	East lime
Ground Love	i Blov. S 1 Ø . 2'	1	ducing Form	n Andr	Pe	Hobbs (G/SA)	Dedicated Acrosque 40 Acros
	······································					colored pencil or had	h	
3. If	more the dated by Yes answer this for	and roys han one y commu No is "no," m if no	lease of c nification If list the o	lifforent a, unitizat answer in where and	ownership is dedition, force-pooling, s "yes," type of co	cated to the well, he, etc? neelidation newhich have actua	ly boon consolida	tod. (Uso roverse side of
								munitization, unification, been approved by the Division. CERTIFICATION
							tain	reby certify that the information con- ed herein is true and complete to the t of my knowledge and belief.
					REGISTANTIA	No. 11013	Date	st. Admin. Hnalyst
	. — —				South Hobbs Well No.		sho note und is t	reby certify that the well location win on this plat was plotted from field as of actual surveys made by me or er my supervision, and that the same rue and correct to the best of my wiedge and belief.
					AMOCO LPN 53866	50		October 2.1991 A Lai Sura A Larry A. Fisher
0 330	660	990 1320	1650 19	80 2310	2640 2000	15 00 10 00 50		11013

- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 psi 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 subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
- 5. Hydril or equivalent drill pipe back pressure valve is (required)(not required).
- 6. 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.
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- 11. Use rams in following positions:

Upper Ram | Drill Pipe
Lower Ram | 81ind

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.



Submit to Appropriate District Office State Lease — 6 copies Foe Lease — 5 copies

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-101

Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NI	M 88240	P.O. Box 20	88	API NO. (as	nigned by OC	D on New Wells)	
DISTRICT II P.O. Drawer DD, Artenia,		anta Fe, New Mexico	87504-2088	5. Indicate	Type of Lease 5	TATE FEE X	
DISTRICT III 1000 Rio Brazos Rd., Azte	DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 6. State Oil & Gas Lease No.						
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK 1a. Type of Work: 7. Least Name of Unit Agreement Name 7. Least Name of Unit Name 7. Least Name of Unit Name 7. Least Name of							
DRIL	DRILL X RE-ENTER DEEPEN PLUG BACK						
b. Type of Well: OE. GAS WELL WELL OTHER SHOEL ZONE X 2008 SOUTH Hobbs (GSA) Unit							
2. Name of Operator Amoco Produc	tion Company			& Well No.	237	**	
3. Address of Operator P. O. Box 30	92, Houston, T	x 77253			s or Wildow	g S-Andres	
4. Well Location	0 : 1300 Feet Pr		Line and 19		From The	East Line	
Section 4	Towns	hip 19-S Ra	38-E	NMPM	Lea	County	
		10. Proposed Depth 4350 *	1	Formation		12. Rotary or C.T.	
13. Elevations (Show which	er DF. RT. GR. etc.)	4. Kind & Status Plug, Bond	15. Drilling Contracto	San Andre		Rotary Date Work will start	
3610.2'	GR					/6/91	
17.	PR	OPOSED CASING A	ND CEMENT PROG	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF			
14-3/4" 9-7/8"	10-3/4"	40.5# K-55	1600'		0_sx	Surface	
9-7/8	/	23# K-55	4350'	130	0 sx	Surface	
be run and e production. * Add mud m							
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: # PROPOSAL IS TO DESPEN OR FLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE, GIVE BLOWOUT PREVENTER PROGRAM, # ANY. I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE Asst. Admin. Analyst DATE 10/15/91 TYPE OR FRENT NAME Kim A. Colvin							
(This space for State Use)							
APPROVED BY		m	3		DAT		

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102 Revised 10-1-78

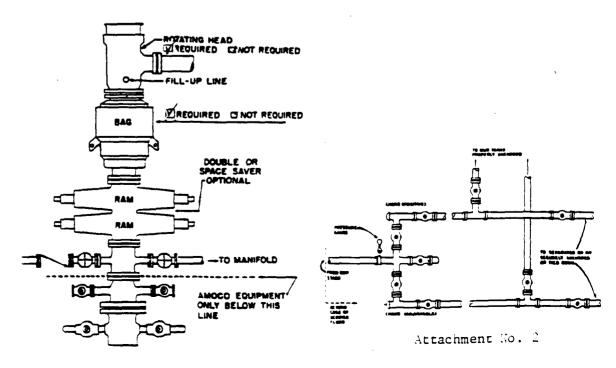
SANTA FE, NEW MEXICO 87501

	Il distances muss be from	the outer boundaries o	d the Section.	
Amoco Production	Company	South	Hobbs Unit	Well No. 237
nit Letter O Sestion 4	19 South	Range 38 East	County	Lea
tuel Postage Location of Walk				
I300' foot from the SOU		1910′	foot from the	East line Delimented Assesses
	Andres	Hobbs ((G/SA)	40 Acres
1. Outline the acroage dedicated	to the subject well by	colored pencil or ha	chure marks on the p	at below.
2. If more than one lease is dedictinterest and revalty). 3. If more than one lease of different and revalty.	pront ownership is dedi	cated to the well, h		- -
	wor is "yes," type of ce	neolidation		
If answer is "no," list the ewne	re and tract description	s which have actua	ally been consolidated.	(Uso rovorso sido of
this form if necessary.) No allowable will be assigned to	e the well until all int	erests have been cor	neelidated (by commun	itization, unitization.
forced pooling, or otherwise)				· · · · · · · · · · · · · · · · · · ·
				CERTIFICATION
			tained h	certify that the information con- erein is true and complete to the ny knowledge and belief.
			Name	101:
			Kim	A. Colum
	nin.	PROFESSION !!	Patrice ASS+.	Admin Analyst
	REGISTEN		Company	0 1 1 70
	6187	No.	AMO (C	production long
	A. S.	11013		-14-91
· 	THE THE PARTY OF T	A FISHERIUS	1 1 '	certify that the well location
· ·		**************************************		n this plat was plotted from fie
			3 1	actual surveys made by me or y supervision, and that the same
	South Hobbs	Unit:		and correct to the best of my
	Well No.	237	1 1	ge and belief.
			71	
	300	4	Date Survey	October 2.1991
	АМОСО	4		Uctober 2.1991
	LPN 5386	60 /	Kar	W Larry A. Fisher
0 330 660 990 1320 1650 1980	2310 2640 2000	1 500 10 00 5	Cartificate	11013

- BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 psi 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 subs to fit any tool joint in the string. Valve to be full bore 3,000 psi w.p. minimum.
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- 11. Use rams in following positions:

the remaining pos	Orilling	Running Casing
Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

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



Submit to Appropriate District Office State Lease - 6 corner

CONDITIONS OF AFFROVAL, IF ANY:

State of New Mexico Energy, Minerals and Natural Resources Department

Form C	-101
Revised	1-1-89

Fee Lease - 5 copies					•	
DISTRICT I	DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION P.O. Box 2088 API NO. (assigned by OCD on New Wells)					
DISTRICT II		anta Fe, New Mexico	-	& Indiana Town of Las		
P.O. Drawer DD, Artenia,	NM 88210			5. Indicate Type of Lea	STATE FEE X	
DISTRICT III 1000 Rio Brazos Rd., Azte	c, NM 87410			6. State Oil & Gas Lea		
APPLICAT	TION FOR PERMIT T	O DRILL, DEEPEN, O	OR PLUG BACK			
1a. Type of Work: 7. Lease Name or Unit Agreement Name						
DRIL	L X RE-ENTER	DEEPEN	PLUG BACK [
b. Type of Well: OE. GAS WELL X WELL OTHER SINGLE X ZONE X ZONE X						
2. Name of Operator				8. Well No.		
Amoco Produc	tion Company			. 237	,,	
3. Address of Operator	102 II m	v 77050		9. Pool name or Wildca	_	
4. Well Location	92, Houston, T.	X //253		Hobbs Graybu	rg S-Andres	
1	0 : 1300 Feet Pr	The South	Line and 191	O Feet From The	East Line	
		<u></u>				
Section 4	Towns	hip 19-S Ray	198 38-E □	NMPM Lea	County	
		10. Proposed Depth		<i>[]]]]]]]]]</i>	12. Rotary or C.T.	
		4350'		San Andres	Rotary	
13. Elevations (Show wheth	er DF, RT, GR, etc.)	4. Kind & Status Plug. Bond	15. Drilling Contractor		L. Date Work will start	
3610.2'	GR				1/6/91	
17.	PR	OPOSED CASING AN	ID CEMENT PROGR	RAM		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMEN	T EST. TOP	
14-3/4" 9-7/8"	10-3/4"	40.5# K-55	1600'	1100 sx	Surface	
9-7/8**	 	23# K-55	4350!	1300 sx	Surface	
				L	<u> </u>	
Propose to drill and equip well in San Andres formation. After reaching TD, logs will be run and evaluated. Perforate and/or stimulate as necessary in attempting commercial production. * Add mud materials as necessary in attempting commercial production. Mud Program: 0 - 1600' Native/Spud 1600' - 3800' Saturated/Brine 3800' - TD* Salt Gel/Starch						
ZONEL GIVE BLOWOUT PREVE	INTER PROGRAM, IF ANY.	AM: FFROFOSAL IS TO DESPEN to the best of my knowledge and i		Analyst	AND PROPOSED NEW PRODUCTIVE ATE 10/15/91 713/ ELEPHONE NO. 596-7686	
(This space for State Use)						
AFFROVED BY		m.		D	ATE	

OIL CONSERVATION DIVISION P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

	lances must be from the outer boun	daries of the Section.	
Amoco Production Com	npany S	outh Hobbs Unit	Well No. 237
Unit Letter O Section 4 Township	19 South Range 38	East County Le	a
Actual Feetage Location of Walk 1300' fact from the South	lim and 1910'	,	est line
Ground Level Elev. Producing Formation	line and 1910'		IST line
3610.2' San Andr	es Hob	obs (G/SA)	40 Acres
1. Outline the acreage dedicated to the	saubject well by colored pencil	or hachure marks on the plat b	polow.
2. If more than one lease is dedicated	to the well, outline each and	identify the ownership thereof (both as to working
interest and reyalty).			
3. If more than one lease of different		well, have the interests of all ow	ners been conseli-
dated by communitization, unitizat	ien, terce-peeling, etc?		
Yes No If answer is	"yes," type of consolidation		
If answer is "no," list the owners and	tract descriptions which have	actually been consolidated. (Us	e reverse side of
this form if necessary.)	11 11 1	1.1 . 1.71	
No allowable will be assigned to the forced-pooling, or otherwise) or un		•	· · · · · · · · · · · · · · · · · · ·
	,		,
			ERTIFICATION
j			ERTIFICATION
. 1		1 1 '	fy that the information con-
!			is true and complete to the nowledge and belief.
		Name	Col
-	WEDFESSON	Pacition	· (01/11/11/11
j	No. 11013)		lmin. Hnalyst
		Amoco P	Production Compar
	(No. 11013)	Data 10-14	!_91
		10 19	
	MEXICA MEXICAL	hereby certi	ify that the well location
j	" The state of the		is plat was plotted from field
			ual surveys made by me or
	South Hobbs Unit		correct to the best of my
	Well No. 237 191	[]	
		71	
	300	Date Surveyed	October 2.1991
	AMOCO	Registered Land	Surveyor A
i	LPN 538660	Mary	(tisken
	(////////		Larry A. Fisher
0 330 660 990 1320 1650 1980 2310	2640 2000 1500 1000	Cartificate No.	11013

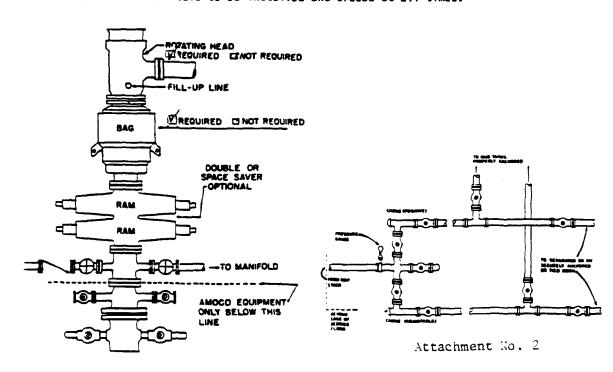
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- 11. Use rams in following positions: *

Upper Ram Drill Pipe
Lower Ram 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.



BRUCE KING

GOVERNOR

STATE OF NEW MEXICO

OIL CONSERVE ON DIVISION

RECEIVED ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT 91 NOT 12 AM AM 10 28

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

11-1-91

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

	N32-3013
OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501	
RE: Proposed: MC DHC NSL NSP SWD WFX PMX X	# 229-C 4-19-38 # 230-B 4-19-38
Gentlemen: I have examined the application for the: Operator Gentlemen: Lease & Well No. 1	# 230 - B 4-19-38 # 233 - 1 4-19-38 # 235 - K 4-19-38 # 238-0 4-19-38 Hobbs IB-SAUnit Init S-T-R
and my recommendations are as follows:	
Yours very truly, Jerry Sexton Supervisor, District 1	

STATE OF NEW MEXICO



CONSERVED MINERALS AND NATURAL RESOURCES DEPARTMENT

91 NOU 12 AM 10 28

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

11-1-91

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

OIL CONSERVATION DIVISION P. O. BOX 2088	
SANTA FE, NEW MEXICO 87501	
RE: Proposed: MC DHC NSL NSP	# 23/-F 4-19-38
SWD WFX	# 237 -6 4-19-38
PMX	# 124- F 4-19-28
Gentlemen:	#236-K 4-19-38 #237-0 4-19-38
I have examined the application for the: amoco Production G. Sout	h Hobbs Ists A Unit o. Unit S-T-R
Operator Lease & Well N	o. Unit S-T-R
and my recommendations are as follows:	
OK	
Yours very truly,	
Jerry Sexton Supervisor, District 1	