



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-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
HB

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

RECEIVED

OCT 28 1991

OIL CONSERVATION DIVISION

ATTACHMENT I

<u>Well Name</u>	<u>Type of Well</u>	<u>Surface Location</u>	<u>Elevation (Ground Level)</u>
SHU No. 229	Injection	Unit C, 1088' FNL X 1977' FWL, Sec. 4, T-19-S, R-38-E	3618.9'
SHU No. 230	Injection	Unit B, 1100' FNL X 2220' FEL, Sec. 4, T-19-S, R-38-E	3617.8'
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 O, 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 - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☐ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐
Injector

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

233

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S. Andres

4. Well Location

Unit Letter G : 2245 Feet From The North Line and 2420 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3612.5' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim. A. Colvin TELEPHONE NO. 713/596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

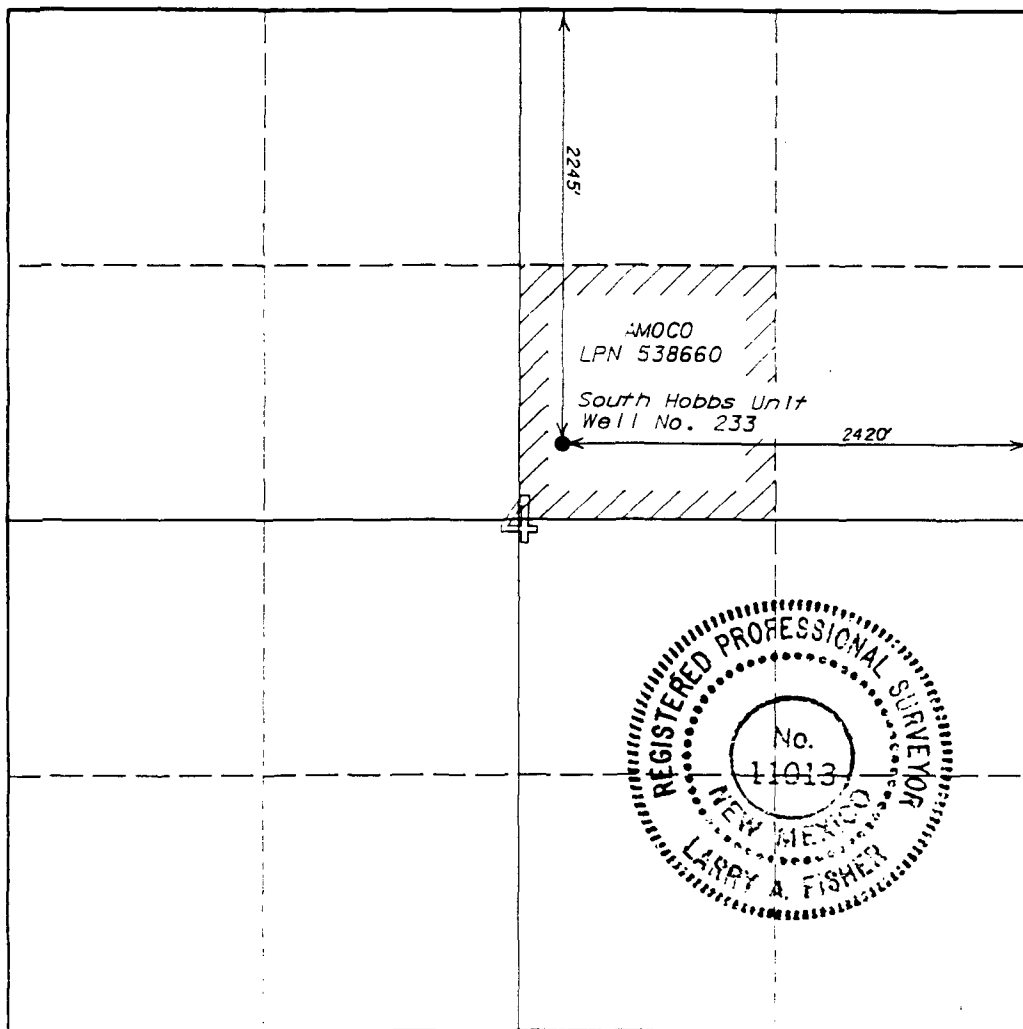
Operator Amoco Production Company			Lease South Hobbs Unit		Well No. 233
Unit Letter G	Section 4	Township 19 South	Range 38 East	County Lea	
Actual Footage Location of Well: 2245' feet from the North line and 2420' feet from the East line					
Ground Level Elev. 3612.5'	Producing Formation San Andres		Pool Hobbs (G/SA)		Dedicated Acreage 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated 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.

Name
Kim A. Colvin
Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
10-14-91

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.

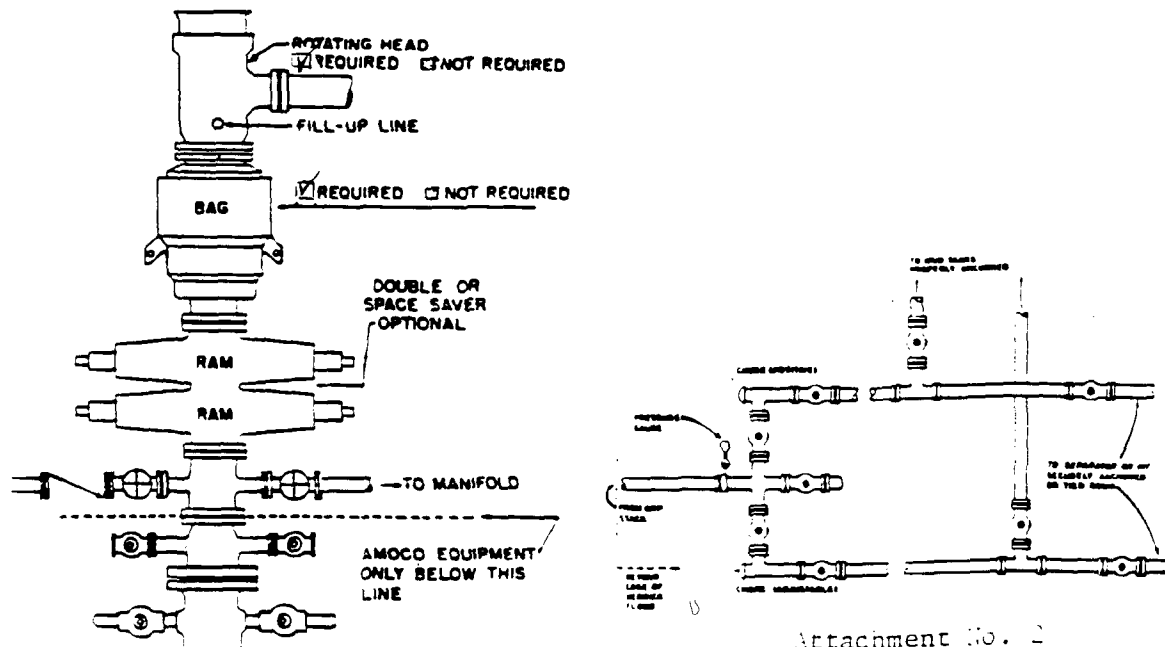
Date Surveyed
September 24, 1991
Registered Land Surveyor
Larry A. Fisher
Certificate No.
11013

**ATTACHMENT
3000# W.P. BOP STACK**

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.
2. 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.
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 nipping 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: *

	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

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



Attachment No. 2

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 - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

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P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☐

GAS
WELL ☐

OTHER

Injector

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

233

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S. Andres

4. Well Location

Unit Letter G : 2245 Feet From The North Line and 2420 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3612.5' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Kim A. Colvin

TITLE 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

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

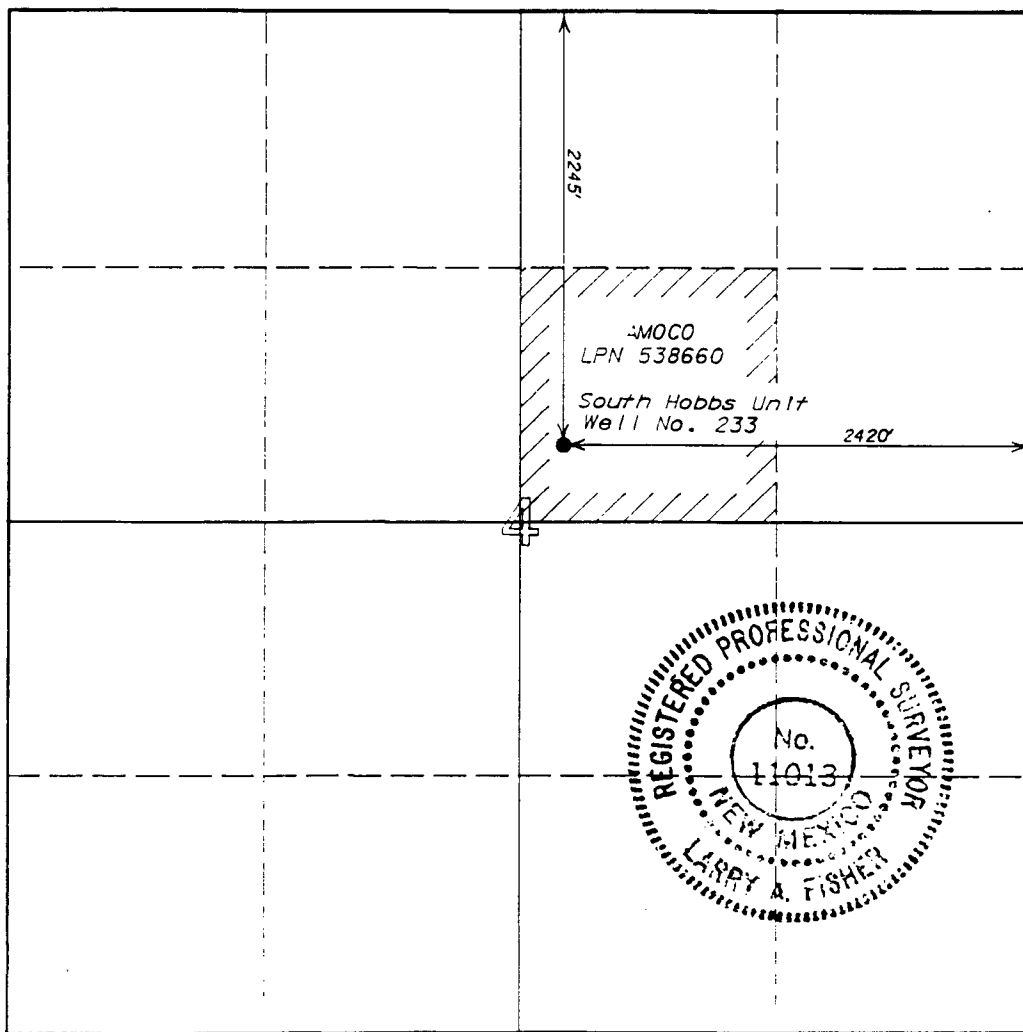
Operator <i>Amoco Production Company</i>		Lease <i>South Hobbs Unit</i>		Well No. <i>233</i>	
Unit Letter <i>G</i>	Section <i>4</i>	Township <i>19 South</i>	Range <i>38 East</i>	County <i>Lea</i>	
Actual Footage Location of Well: <i>2245'</i> feet from the <i>North</i> line and <i>2420'</i> feet from the <i>East</i> line					
Ground Level Elev. <i>3612.5'</i>	Producing Formation <i>San Andres</i>		Pool <i>Hobbs (G/SA)</i>		Dedicated Acreage <i>40</i> Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
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I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *Kim A. Colvin*
Position *Asst. Admin. Analyst*
Company *Amoco Production Company*
Date *10-14-91*

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.

Date Surveyed *September 24, 1991*
Registered Land Surveyor *Larry A. Fisher*
Certificate No. *11013*

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

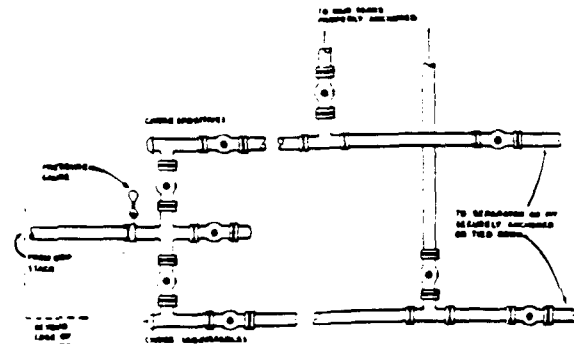
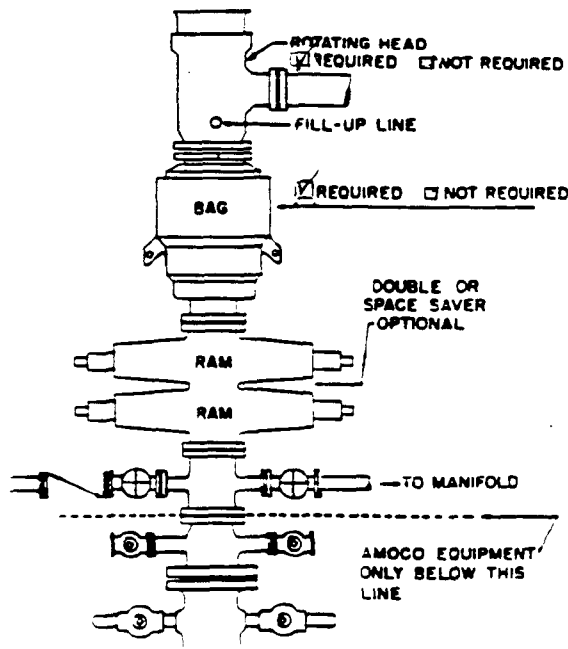
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Casing
Blind

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Form C-101
Revised 1-1-89

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Santa Fe, New Mexico 87504-2088

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GAS
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Injector

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ZONE ☒

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DATE

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TYPE OR PRINT NAME

Kim. A. Colvin

TELEPHONE NO. 596-7686

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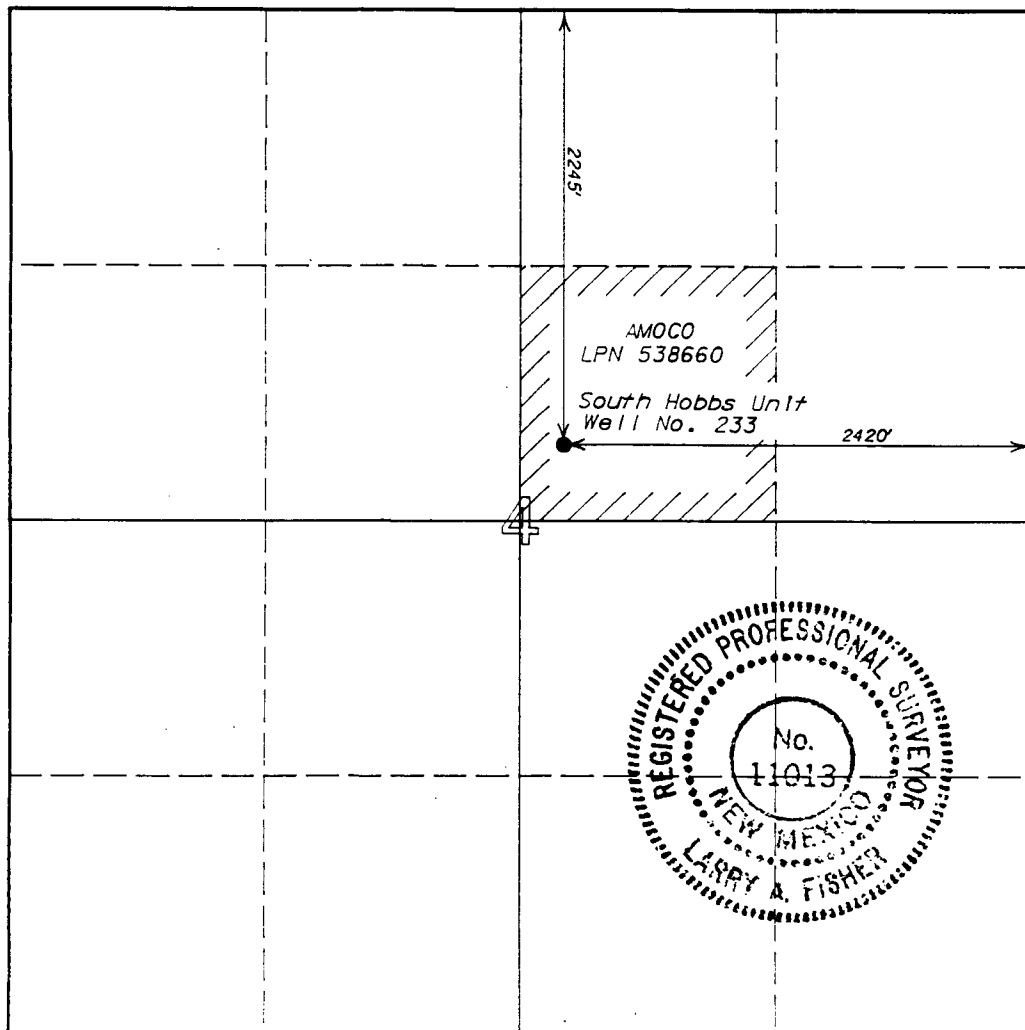
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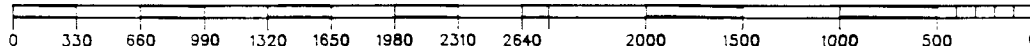
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Larry A. Fisher
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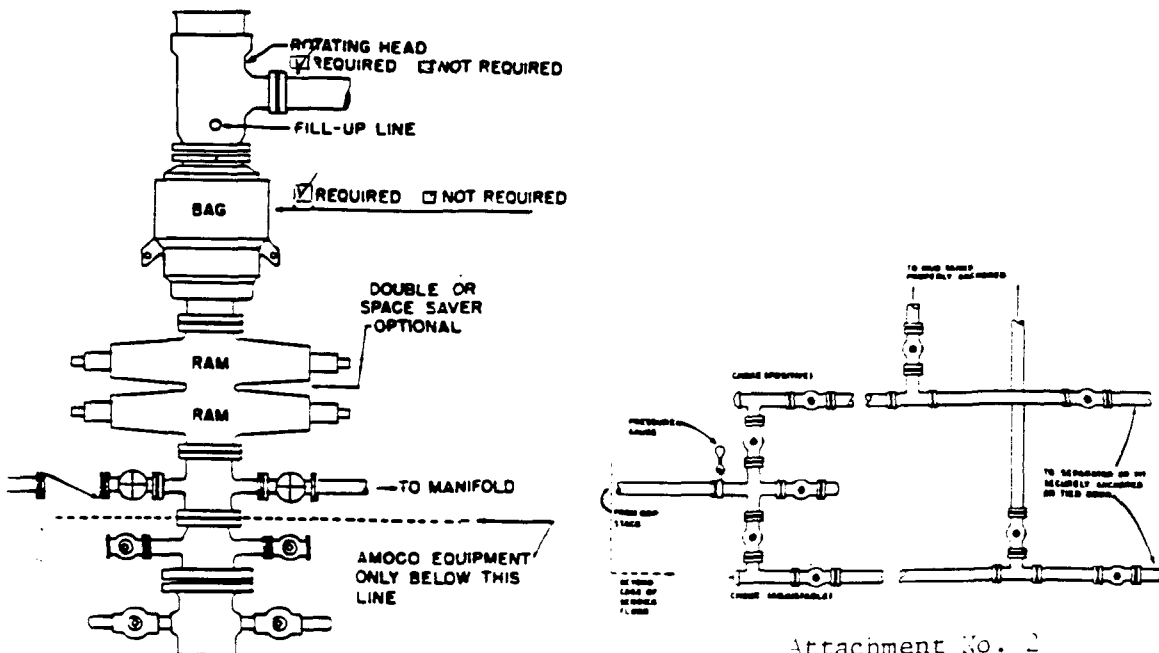
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Lower Ram

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Blind

Running Casino
Casing
Blind

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OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☐

GAS
WELL ☐

OTHER

Injector

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

235

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S. Andres

4. Well Location

Unit Letter K : 2160 Feet From The South Line and 2414 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3607.3' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Kim A. Colvin

TITLE 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

CONDITIONS OF APPROVAL, IF ANY:

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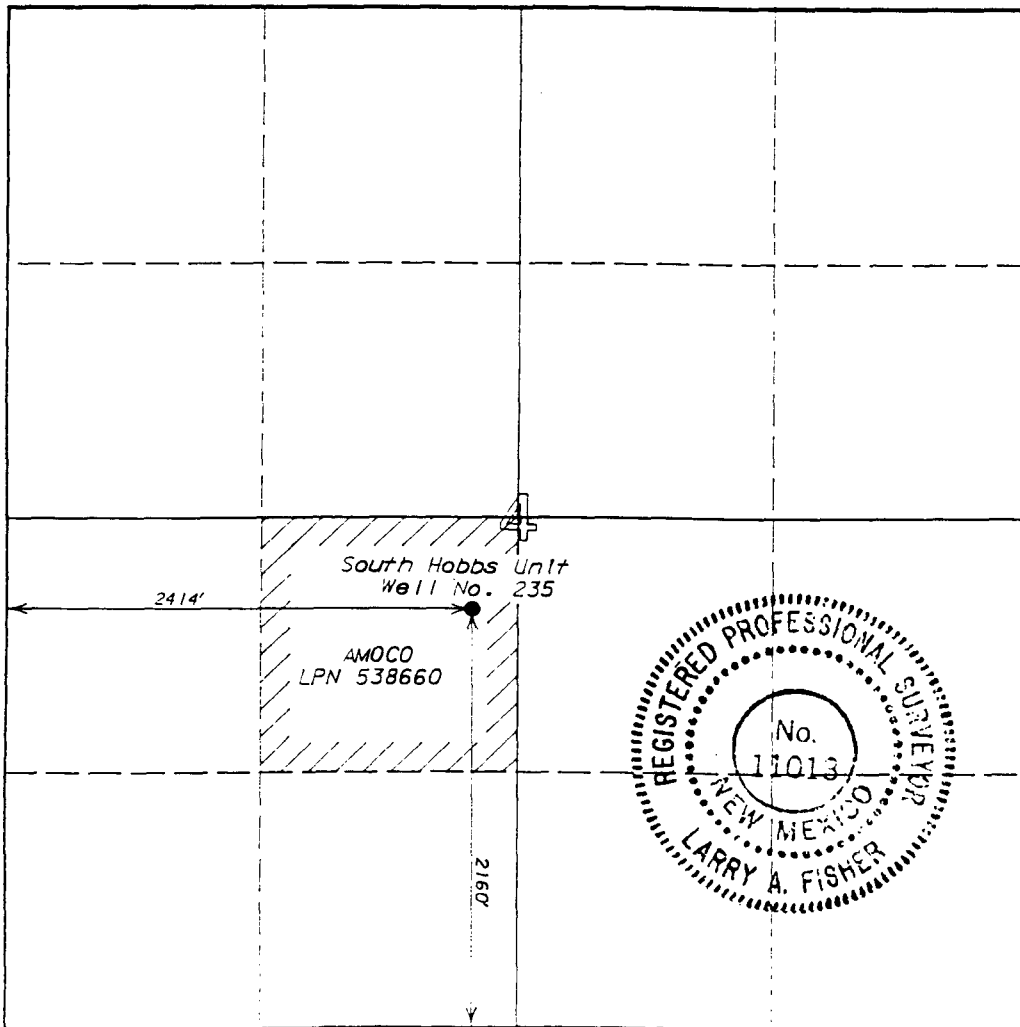
Operator Amoco Production Company		Lease South Hobbs Unit		Well No. 235	
Unit Letter K	Section 4	Township 19 South	Range 38 East	County Lea	
Actual Footage Location of Well: 2160' feet from the South line and 2414' feet from the West line					
Ground Level Elev. 3607.3'	Producing Formation San Andres		Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated 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.

Name Kim A. Colvin
Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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.

Date Surveyed October 2, 1991
Registered Land Surveyor Larry A. Fisher

Certificate No. 11013

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

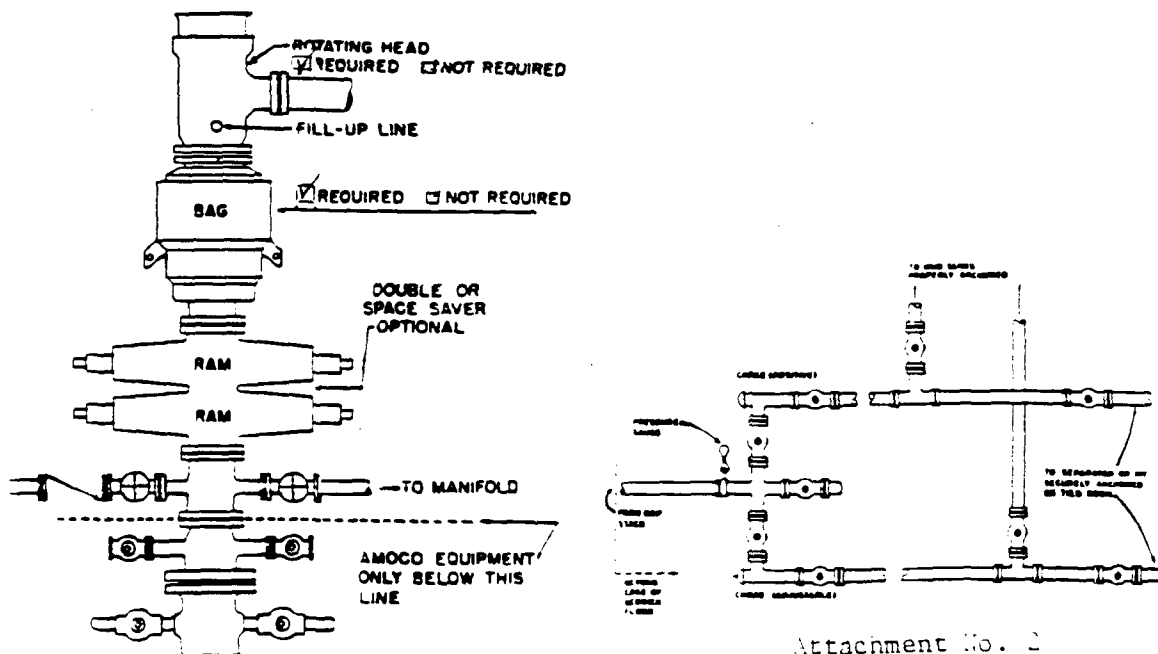
**ATTACHMENT
3000# W.P. BOP STACK**

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.
2. 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.
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11. Use rams in following positions: *

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Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

* Amoco District Manager may reverse location of rams.

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



Attachment No. 2

**SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR
ALL BOP EQUIPMENT**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION
P.O. Box 2088
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1a. Type of Work:

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b. Type of Well:

OIL WELL ☐ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐
Injector

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

235

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S. Andres

4. Well Location

Unit Letter K : 2160 Feet From The South Line and 2414 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

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3607.3' GR

14. Kind & Status Plug. Bond

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11/6/91

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1600' - 3800'

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SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim. A. Colvin TELEPHONE NO. 713/596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

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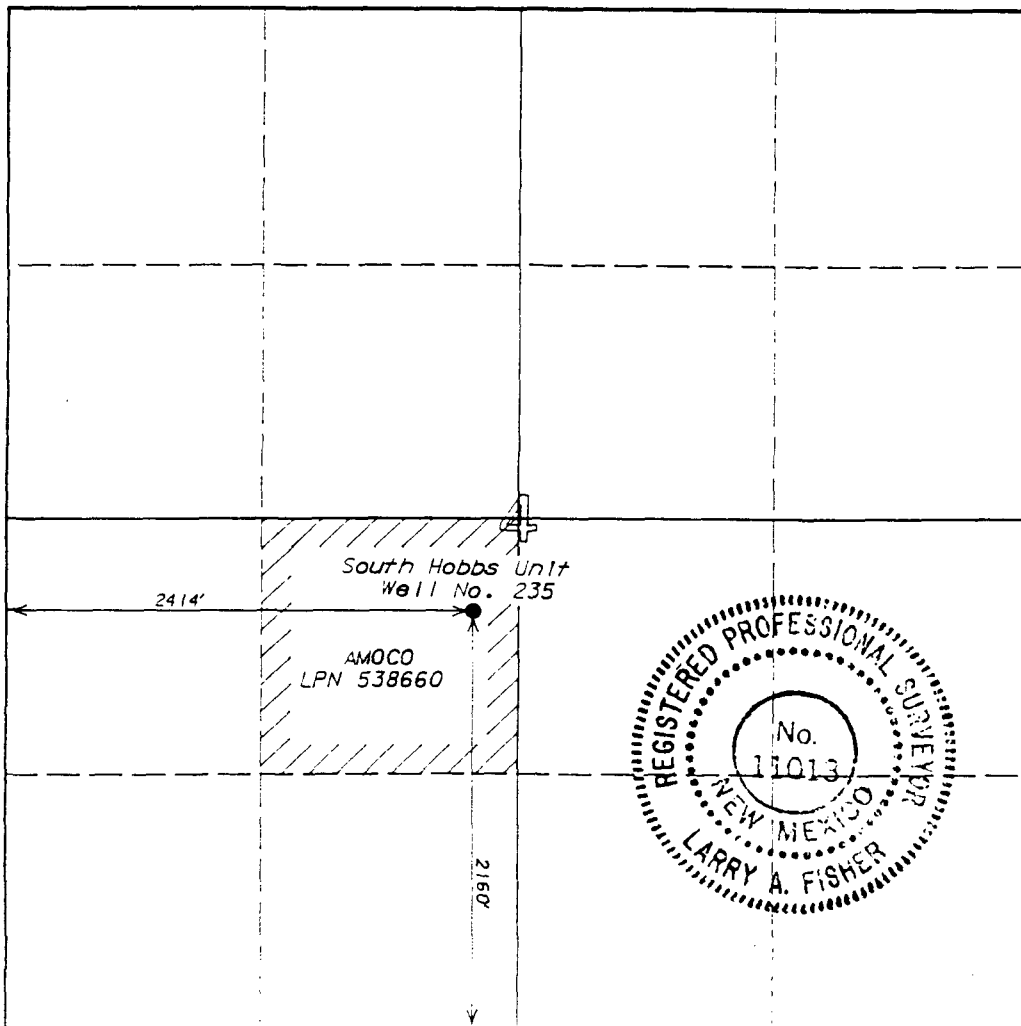
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Unit Letter K	Section 4	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well: 2160' feet from the South line and 2414' feet from the West line				
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Name Kim A. Colvin
Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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.

Date Surveyed October 2, 1991

Registered Land Surveyor
Larry A. Fisher
Larry A. Fisher

Certificate No. 11013

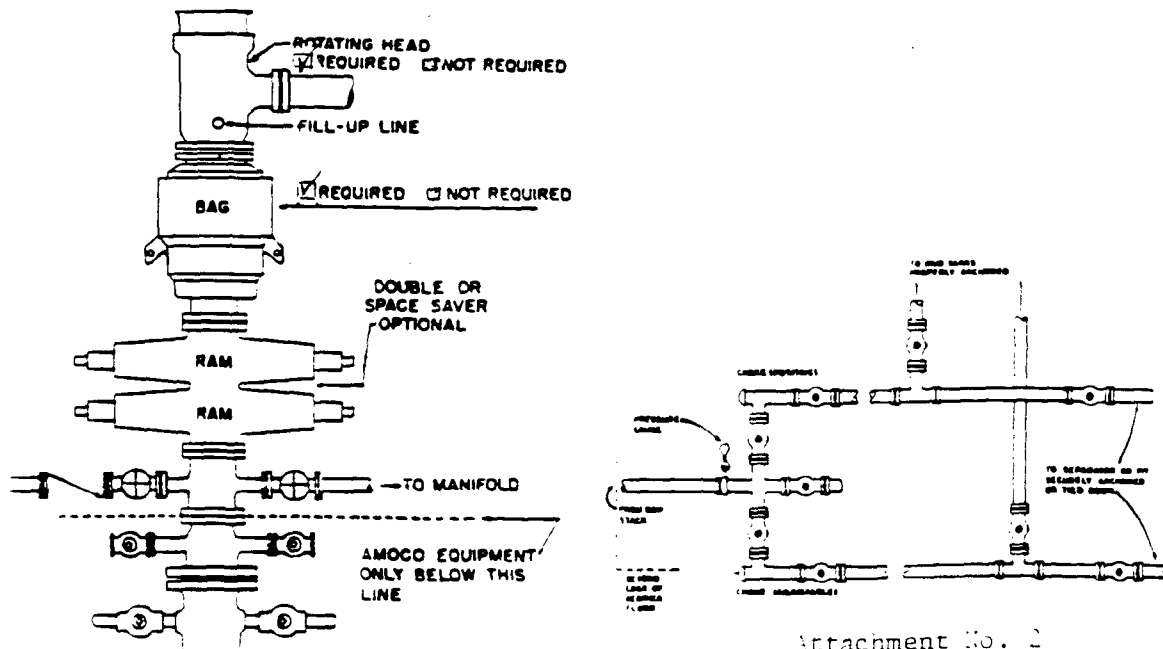
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**SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR
ALL B O P EQUIPMENT**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
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API NO. (assigned by OCD on New Wells)

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FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

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RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☐

GAS
WELL ☐

OTHER ☐

Injector

SINGLE
ZONE ☒

MULTIPLE
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7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

235

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S. Andres

4. Well Location

Unit Letter K : 2160 Feet From The South Line and 2414 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth
4350'

11. Formation
San Andres

12. Rotary or C.T.
Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3607.3' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

16. Approx. Date Work will start

11/6/91

17. PROPOSED CASING AND CEMENT PROGRAM

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SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim. A. Colvin TELEPHONE NO. 713/ 596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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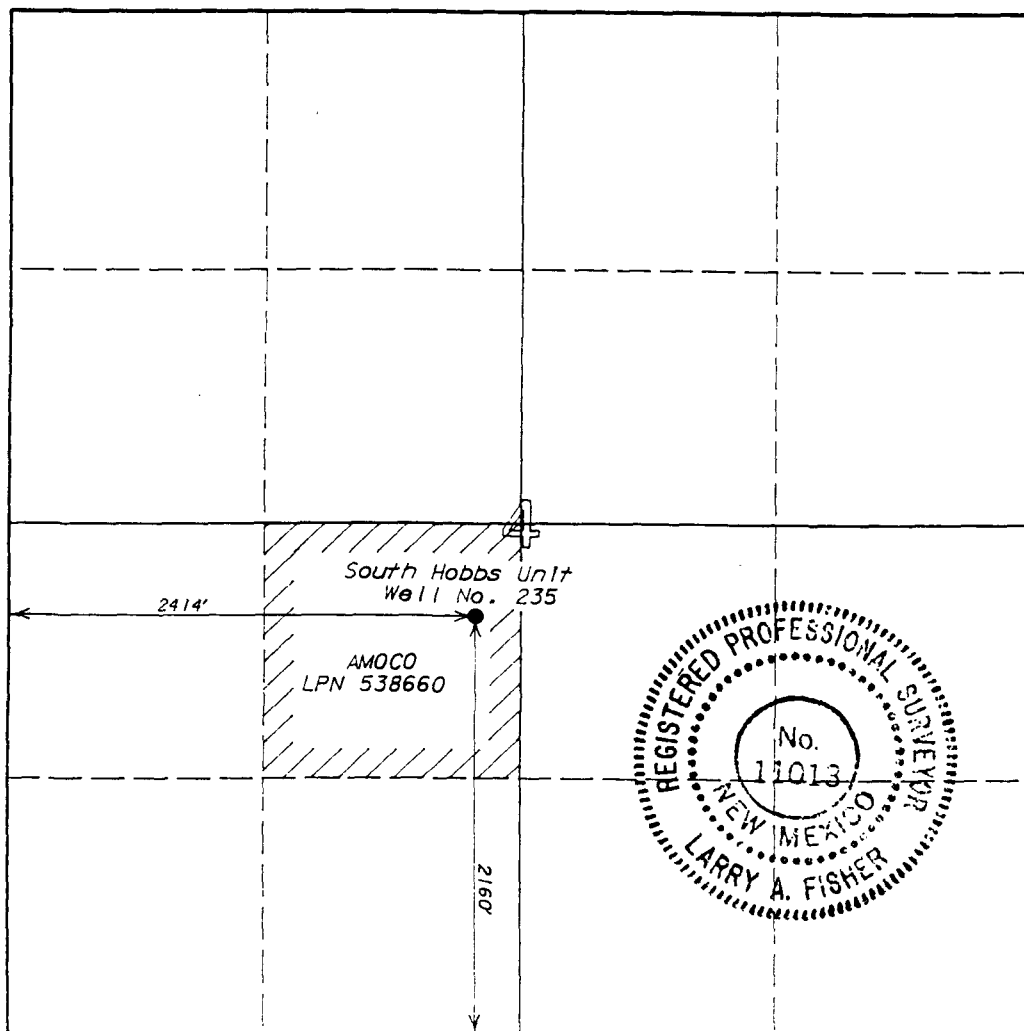
Operator <i>Amoco Production Company</i>		Lease <i>South Hobbs Unit</i>		Well No. <i>235</i>
Unit Letter <i>K</i>	Section <i>4</i>	Township <i>19 South</i>	Range <i>38 East</i>	County <i>Lea</i>
Actual Footage Location of Well: <i>2160'</i> feet from the <i>South</i> line and <i>2414'</i> feet from the <i>West</i> line				
Ground Level Elev. <i>3607.3'</i>	Producing Formation <i>San Andres</i>	Pool <i>Hobbs (G/SA)</i>	Dedicated Acreage <i>40</i> Acres	

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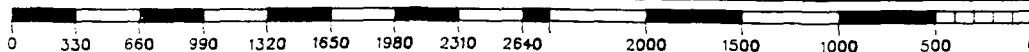
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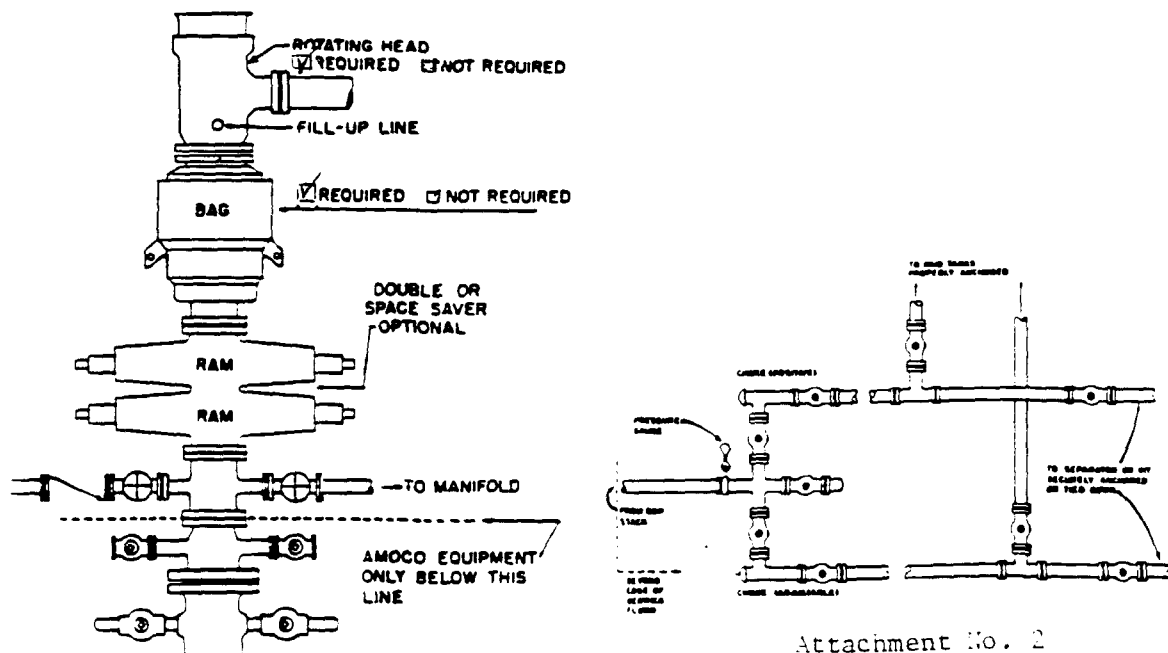
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Energy, Minerals and Natural Resources Department

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7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

238

3. Address of Operator

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9. Pool name or Wildcat

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4. Well Location

Unit Letter 0 : 660 Feet From The South Line and 2610 Feet From The East Line

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10. Proposed Depth

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11. Formation

San Andres

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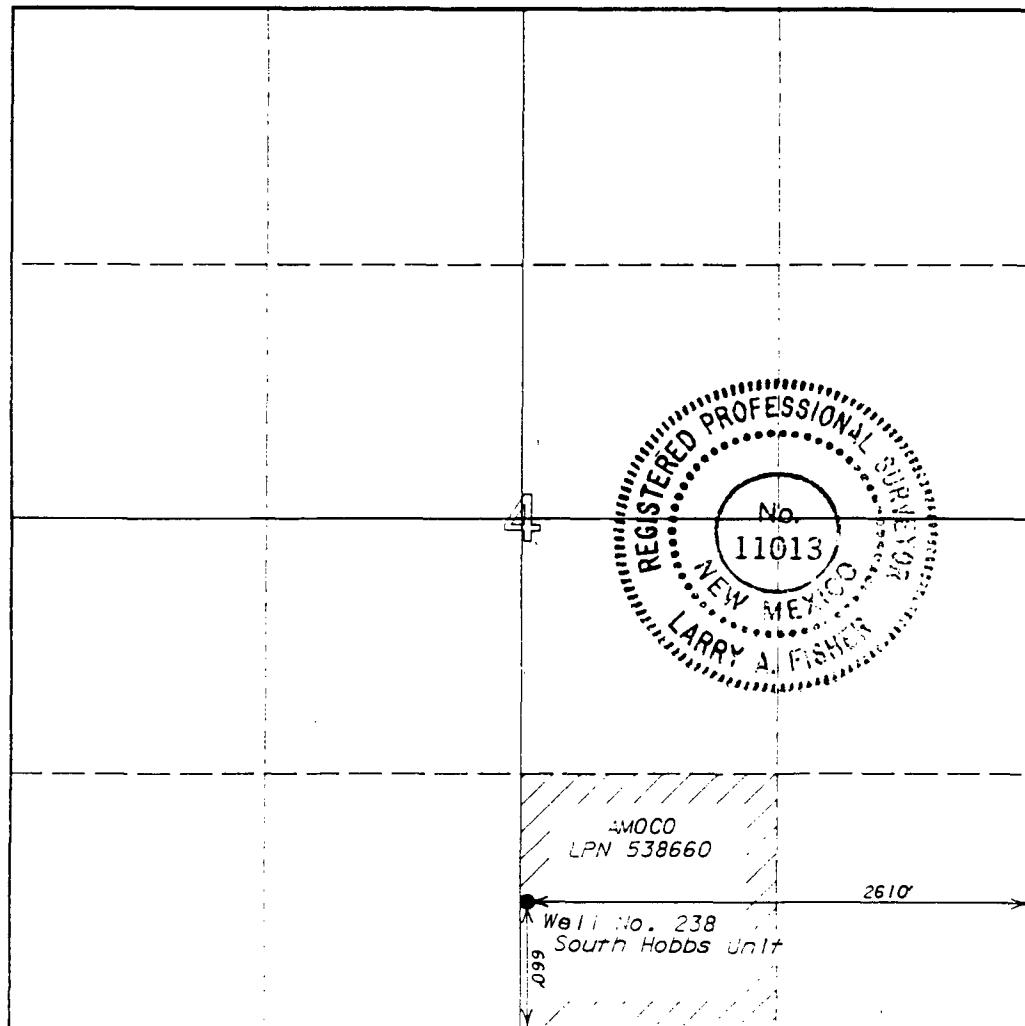
Operator <i>Amoco Production Company</i>			Lease <i>South Hobbs Unit</i>		Well No. <i>238</i>
Unit Letter <i>0</i>	Section <i>4</i>	Township <i>19 South</i>	Range <i>38 East</i>	County <i>Lea</i>	
Actual Footage Location of Well: <i>660'</i> feet from the <i>South</i> line and <i>2610'</i> feet from the <i>East</i> line					
Ground Level Elev. <i>3606.0'</i>	Producing Formation <i>San Andres</i>		Pool <i>Hobbs (G/SA)</i>	Dedicated Acreage <i>40</i> Acres	

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 ownership is dedicated to the well, have the interests of all owners been consolidated 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.

Name *Kim A. Colman*
Position *Asst. Admin. Analyst*
Company *Amoco Production Company*
Date *10-14-91*

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.

Date Surveyed *October 2, 1991*

Registered Land Surveyor
Larry A. Fisher

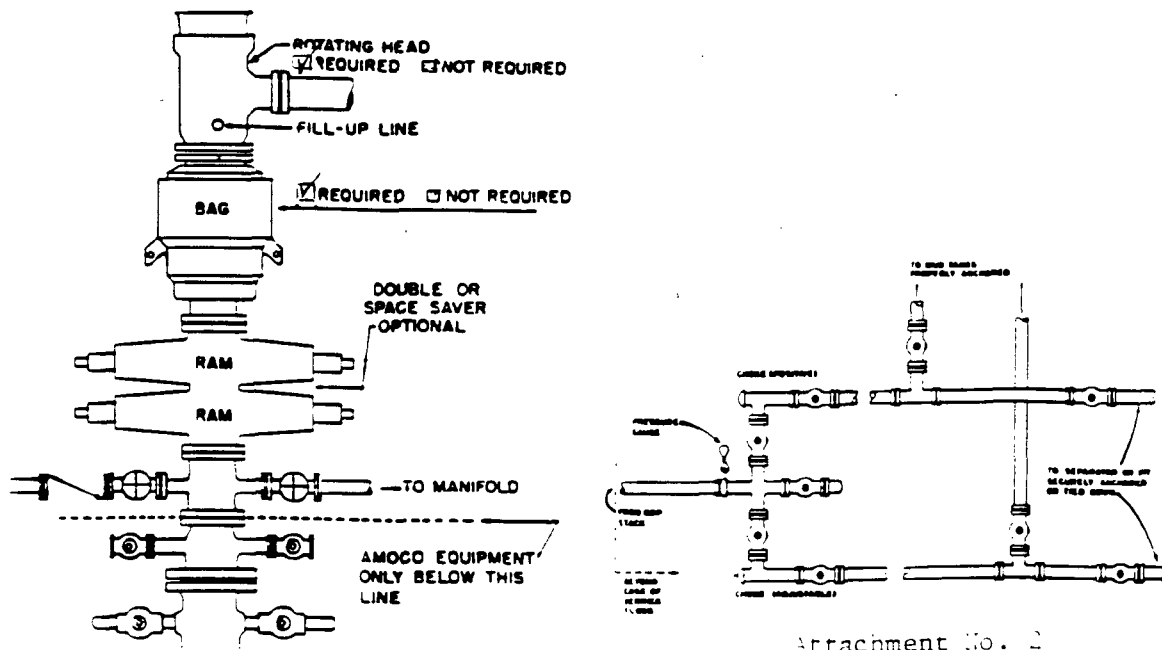
Certificate No. *11013*

**ATTACHMENT
3000# W.P. BOP STACK**

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.
2. 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.
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 nipping 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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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: *

	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

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



Attachment No. 2

**SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR
ALL BOP EQUIPMENT**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☐

GAS
WELL ☐

OTHER

Injector

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

238

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S. Andres

4. Well Location

Unit Letter 0 : 660 Feet From The South Line and 2610 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3606.0' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim. A. Colvin TELEPHONE NO. 713/596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the corner boundaries of the Section.

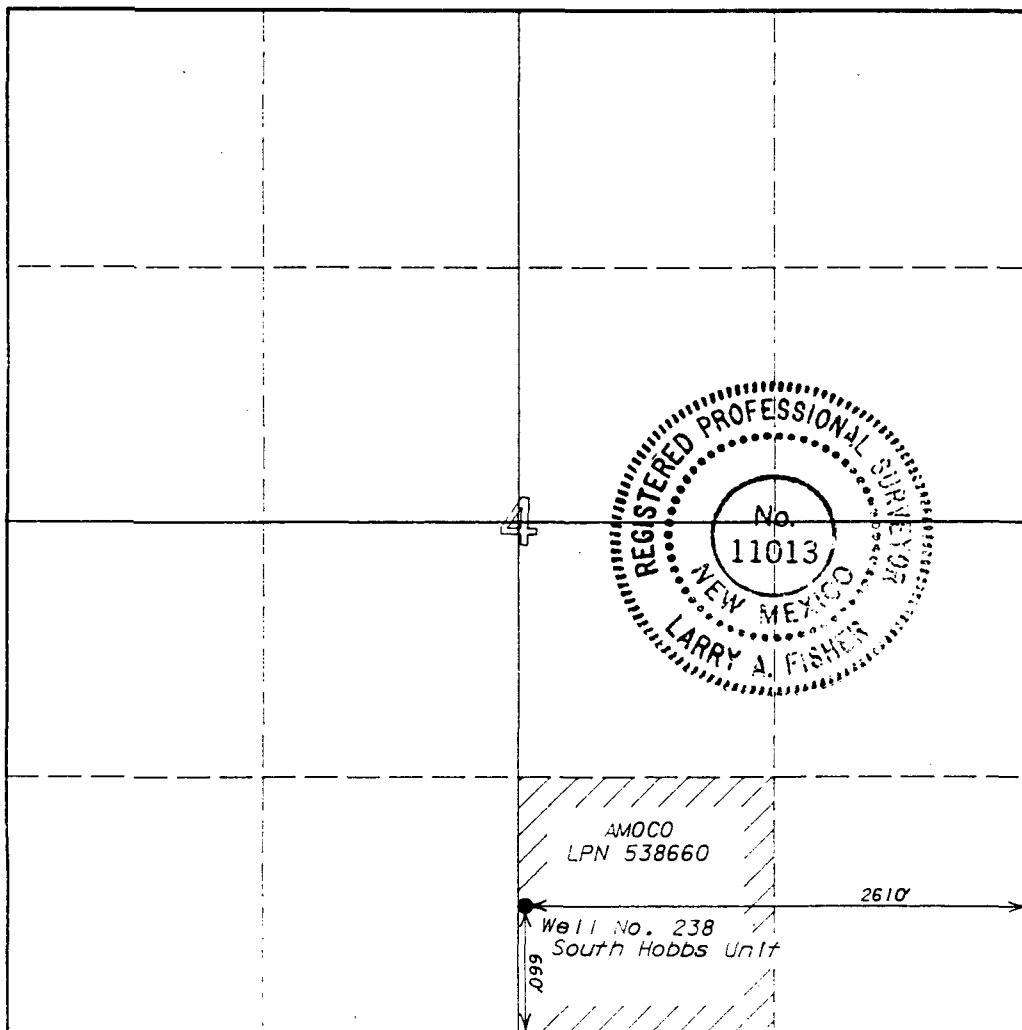
Operator <i>Amoco Production Company</i>			Lease <i>South Hobbs Unit</i>			Well No. <i>238</i>		
Unit Letter <i>0</i>	Section <i>4</i>	Township <i>19 South</i>	Range <i>38 East</i>	County <i>Lea</i>				
Actual Footage Location of Well: <i>660'</i> feet from the <i>South</i> line and <i>2610'</i> feet from the <i>East</i> line								
Ground Level Elev. <i>3606.0'</i>		Producing Formation <i>San Andres</i>		Pool <i>Hobbs (G/SA)</i>			Dedicated Acreage <i>40</i> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
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☐ 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.) _____

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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Kim A. Colman
Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
10-14-91

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.

Date Surveyed
October 2, 1991

Registered Land Surveyor
Larry A. Fisher
Certificate No.
11013

**ATTACHMENT
3000# W.P. BOP STACK**

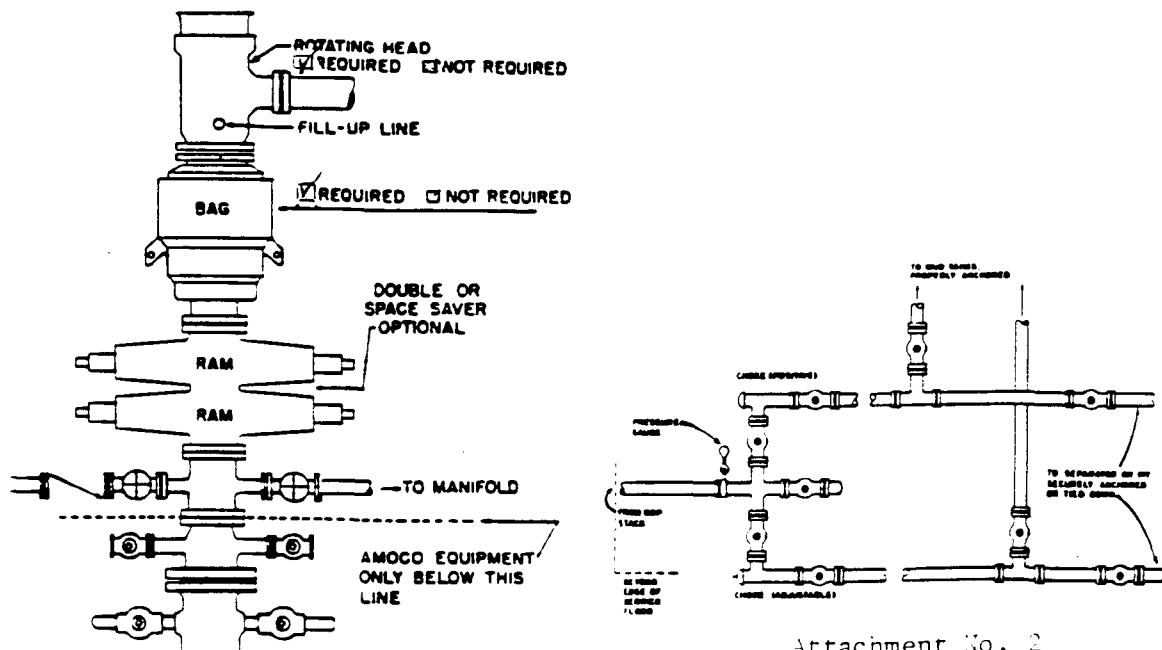
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3. Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly cock is (required)(not required).
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11. Use rams in following positions: *

Upper Ram
Lower Ram

Drilling
Drill Pipe
Blind

Running Casing
Casing
Blind

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



Attachment No. 2

**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, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☐

GAS
WELL ☐

OTHER ☐

Injector

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

238

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S. Andres

4. Well Location

Unit Letter 0 : 660 Feet From The South Line and 2610 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea Country

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3606.0' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
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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

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim. A. Colvin TELEPHONE NO. 713/596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

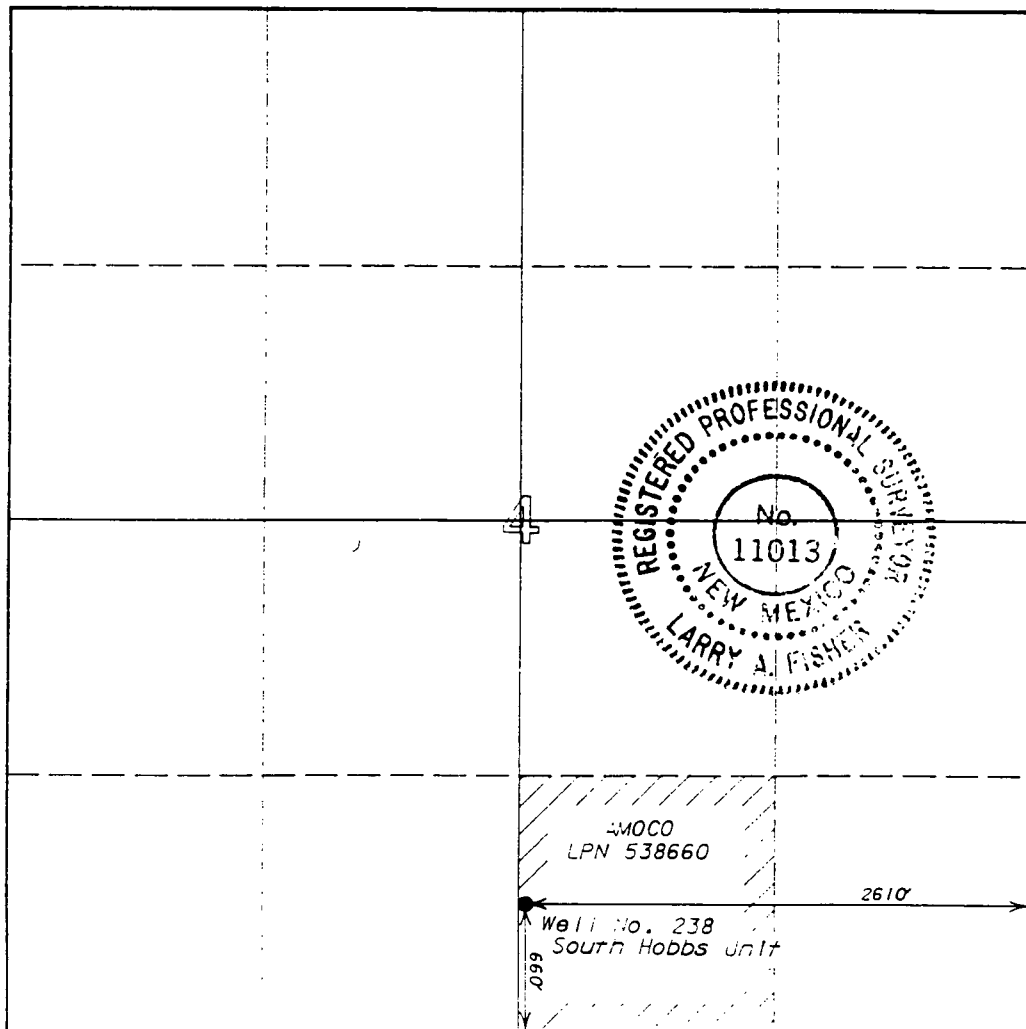
Operator <i>Amoco Production Company</i>		Lease <i>South Hobbs Unit</i>		Well No. <i>238</i>
Unit Letter <i>0</i>	Section <i>4</i>	Township <i>19 South</i>	Range <i>38 East</i>	County <i>Lee</i>
Actual Footage Location of Well: <i>660'</i> feet from the <i>South</i> line and <i>2610'</i> feet from the <i>East</i> line				
Ground Level Elev. <i>3606.0'</i>	Producing Formation <i>San Andres</i>	Pool <i>Hobbs (G/SA)</i>	Dedicated Acreage <i>40</i> Acres	

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CERTIFICATION

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Position *Asst. Admin. Analyst*
Company *Amoco Production Company*
Date *10-14-91*

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.

Date Surveyed *October 2, 1991*

Registered Land Surveyor
Larry A. Fisher
Larry A. Fisher

Certificate No. *11013*

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

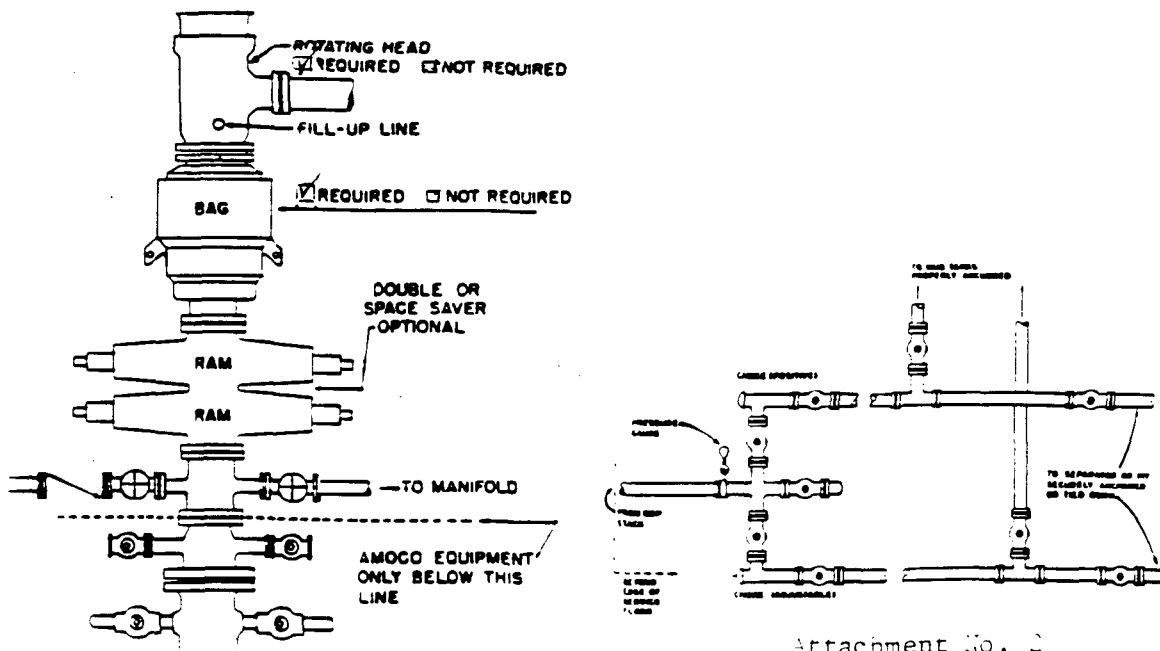
**ATTACHMENT
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11. Use rams in following positions: *

	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

* Amoco District Manager may reverse location of rams.

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



Attachment No. 2



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

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

RECEIVED
OCT 28 1991
OIL CONSERVATION DIVISION

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
HB

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

<u>Well Name</u>	<u>Type of Well</u>	<u>Surface Location</u>	<u>Elevation (Ground Level)</u>
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 Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

Amoco Production Company

8. Well No.

231

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter F : 1562 Feet From The North Line and 2100 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3614.8' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
in attempting commercial production.

Mud Program:

0 - 1600' Native/Spud
1600' - 3800' Saturated/Brine
3800' - TD* Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/ 596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

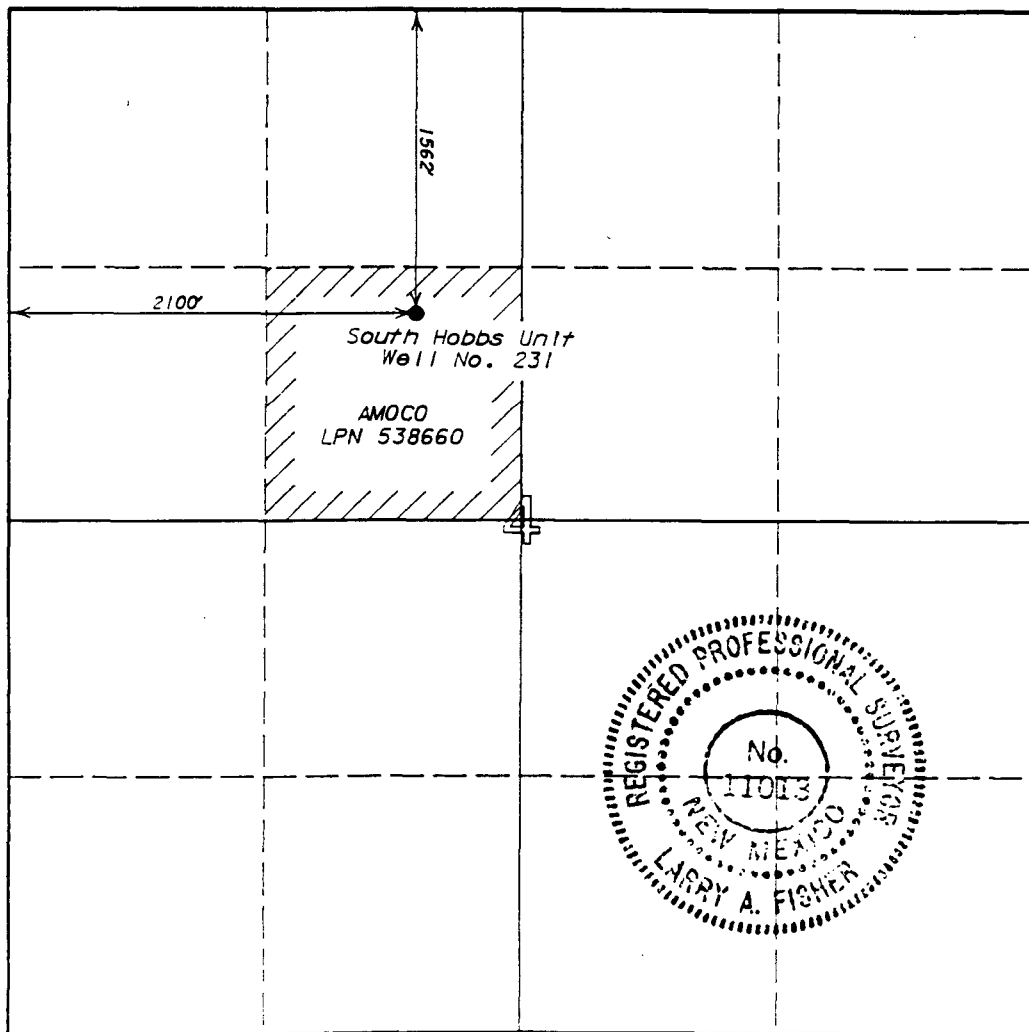
Operator Amoco Production Company		Lease South Hobbs Unit		Well No. 231
Unit Letter F	Section 4	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well 1562' feet from the North line and 2100' feet from the West line				
Ground Level Elev. 3614.8'	Producing Formation San Andres	Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
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☐ 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.) _____

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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Kim A. Colman
Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
10-14-91

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.

Date Surveyed
October 2, 1991
Registered Land Surveyor
Larry A. Fisher

Certificate No.
11013

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

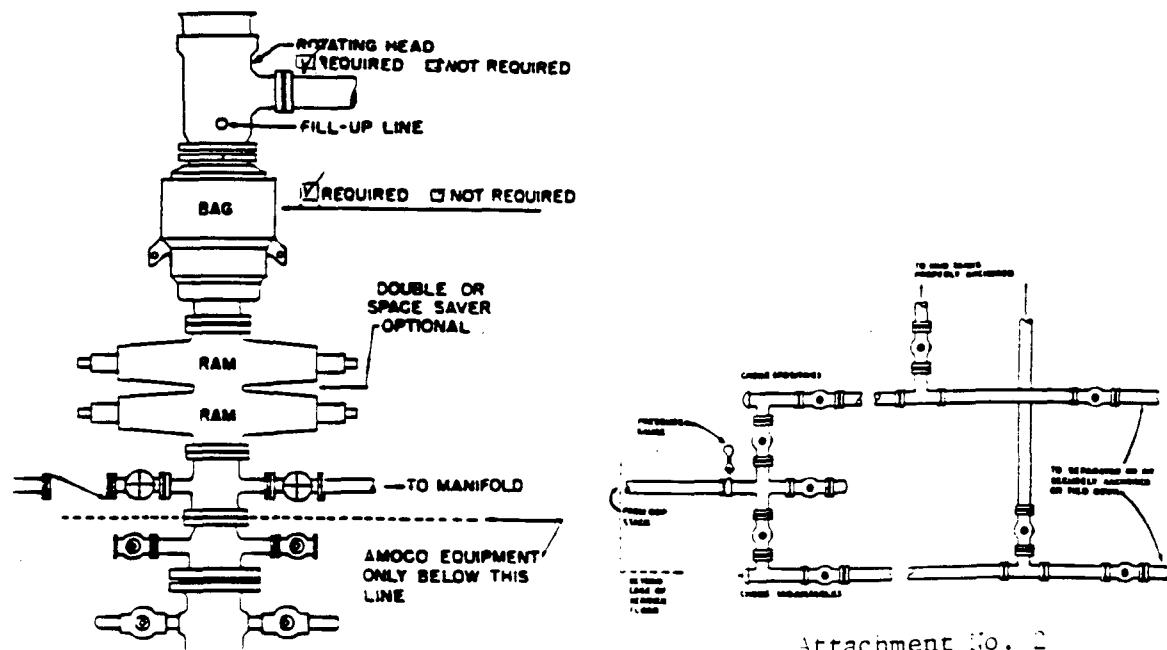
**ATTACHMENT
3000# W.P. BOP STACK**

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.
2. 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.
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 nipping 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: *

	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

* Amoco District Manager may reverse location of rams.

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



Attachment No. 2

**SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR
ALL BOP EQUIPMENT**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

231

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter F : 1562 Feet From The North Line and 2100 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3614.8' GR

14. Kind & Status Plug Bond

15. Drilling Contractor

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
in attempting commercial production.

Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/ 596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

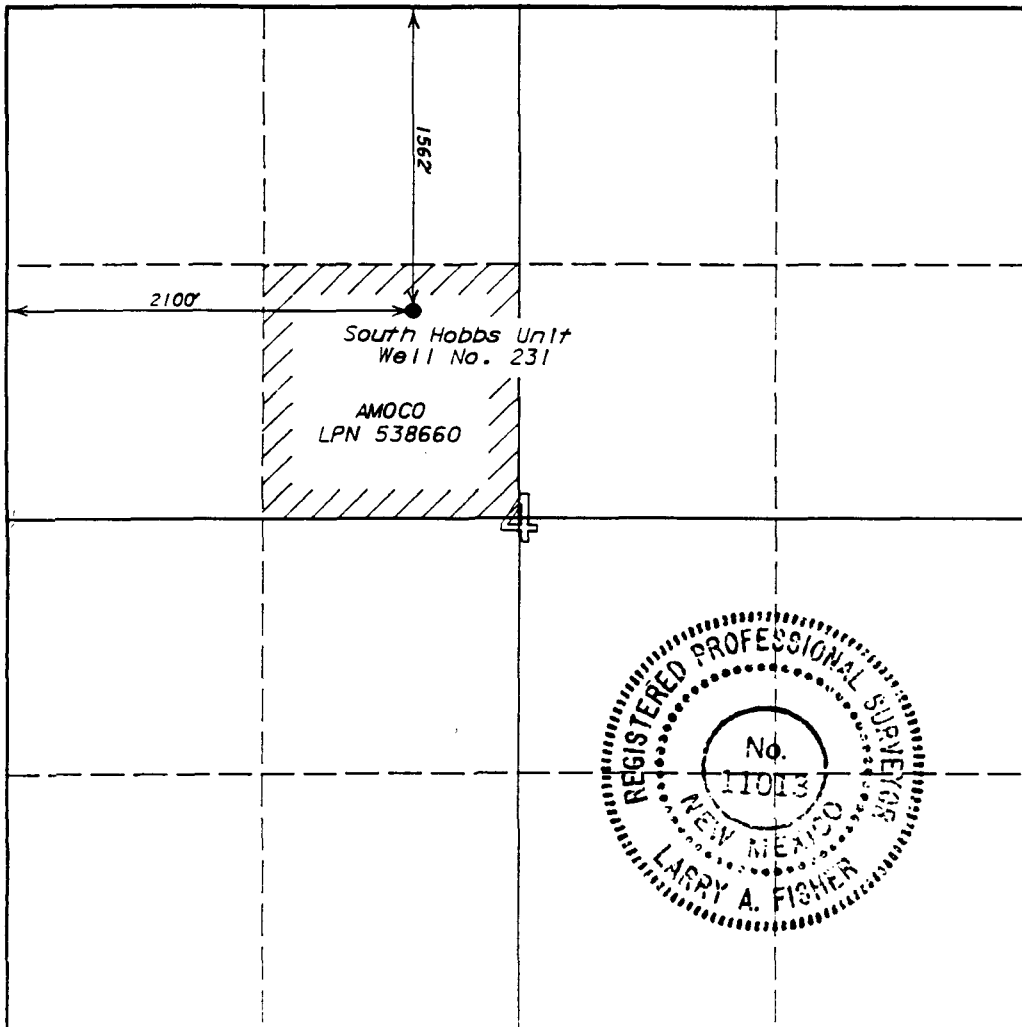
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Unit Letter F	Section 4	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well 1562' feet from the North line and 2100' feet from the West line				
Ground Level Elev. 3614.8'	Producing Formation San Andres	Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
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Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
10-14-91

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.

Date Surveyed
October 2, 1991
Registered Land Surveyor
Larry A. Fisher
Certificate No.
11013

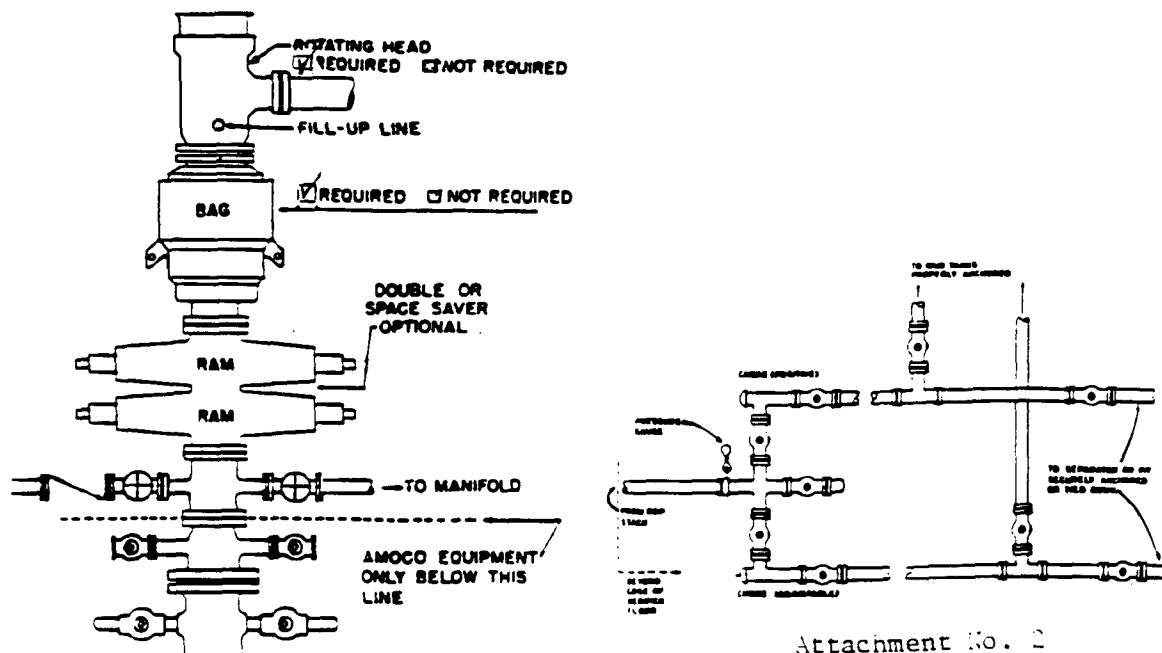
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3. Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly cock is (required)(not required).
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ALL R.O.D. EQUIPMENT**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

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RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

231

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter F : 1562 Feet From The North Line and 2100 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

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13. Elevations (Show whether DF, RT, GR, etc.)

3614.8' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

16. Approx. Date Work will start

11/6/91

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1600' - 3800'

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3800' - TD*

Salt Gel/Starch

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

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SIGNATURE Kim A. Colvin TITLE 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 _____

CONDITIONS OF APPROVAL, IF ANY:

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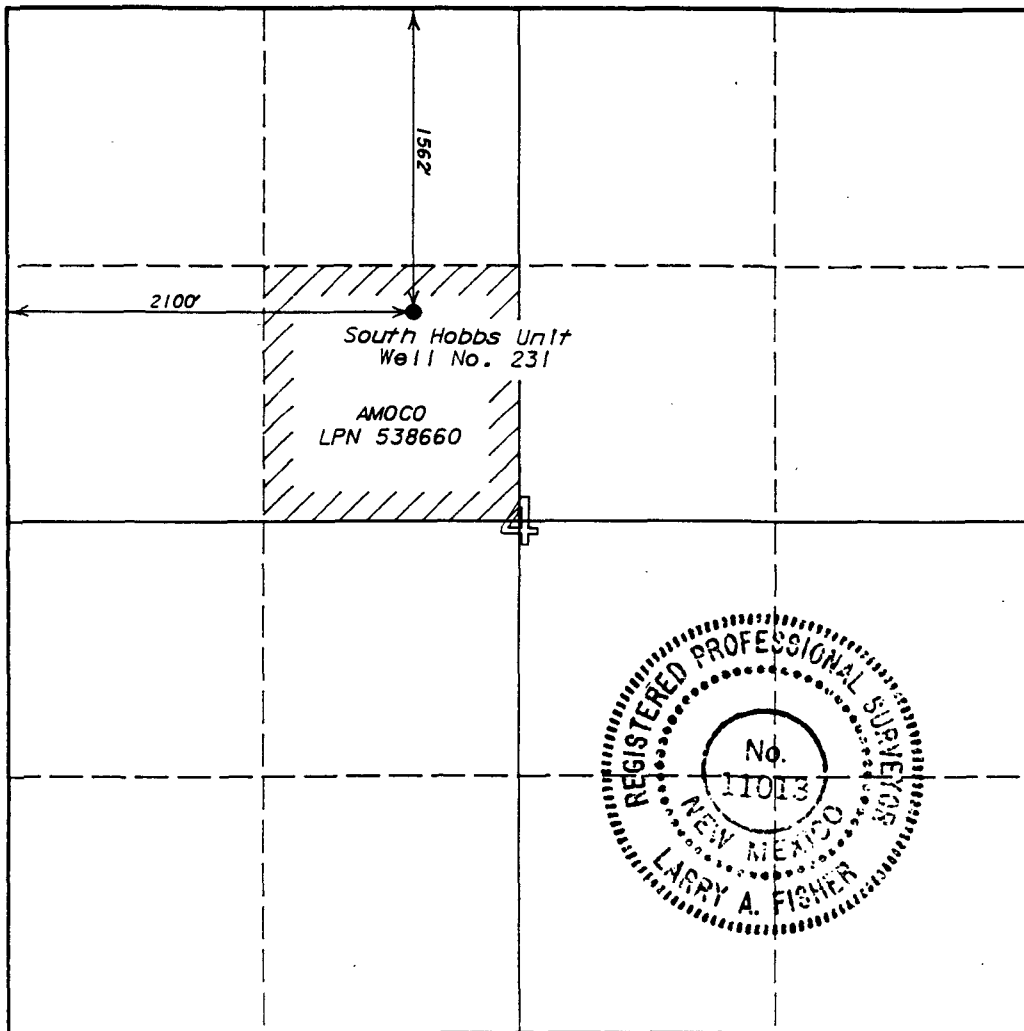
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Unit Letter F	Section 4	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well 1562' feet from the North line and 2100' feet from the West line				
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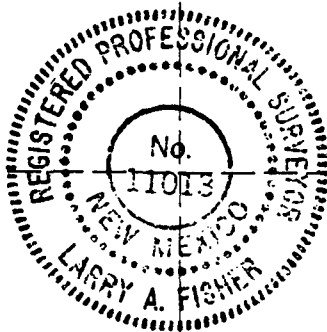
CERTIFICATION

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Name
Kim A. Colman
Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
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Larry A. Fisher
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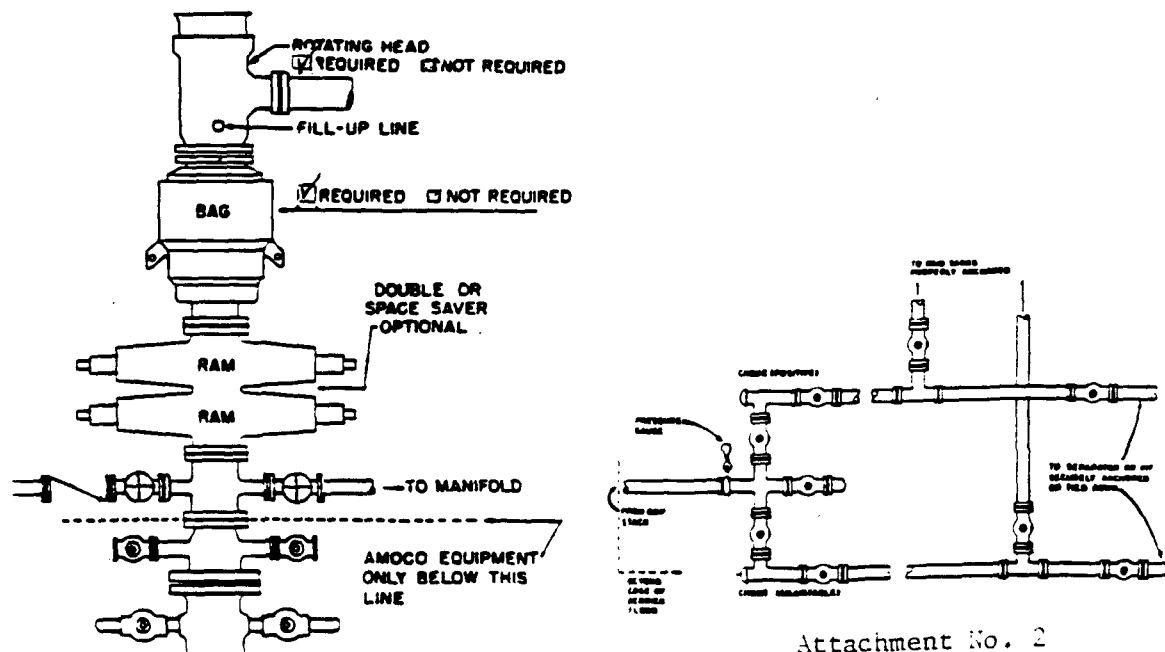


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**SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR
ALL B.O.P. EQUIPMENT**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

Amoco Production Company

8. Well No.

232

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter G : 1710 Feet From The North Line and 1630 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3614.1' GR

14. Kind & Status Plug Bond

15. Drilling Contractor

16. Approx. Date Work will start

11/6/91

17.

PROPOSED CASING AND CEMENT PROGRAM

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

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SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/ 596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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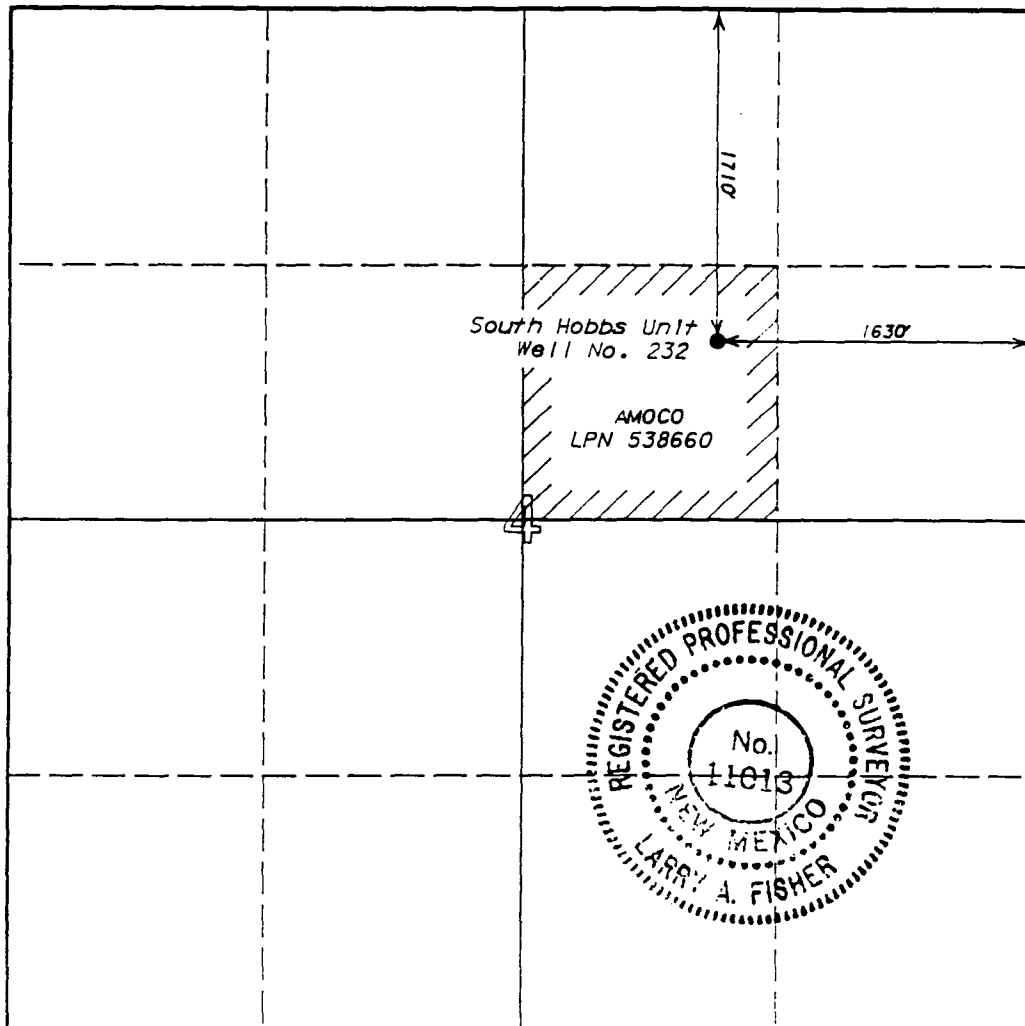
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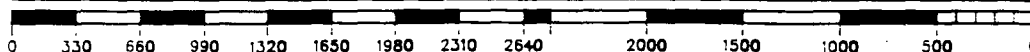
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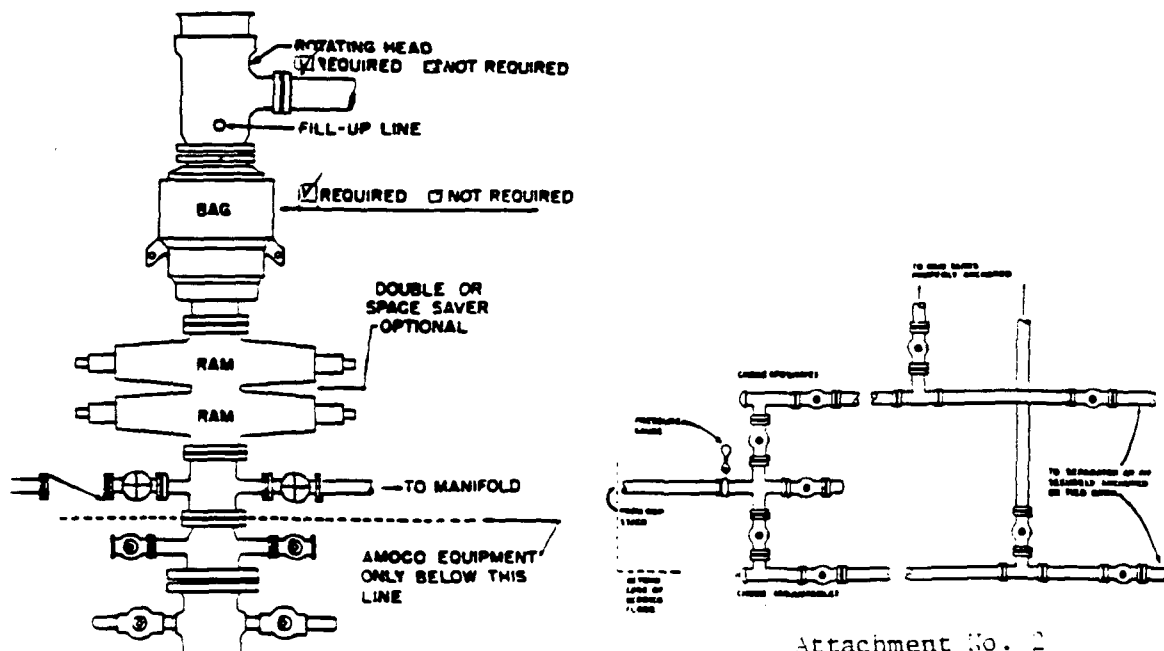


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11. Use rams in following positions: *

	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

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



Attachment No. 2

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

232

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter G : 1710 Feet From The North Line and 1630 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3614.1' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
in attempting commercial production.

Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/ 596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

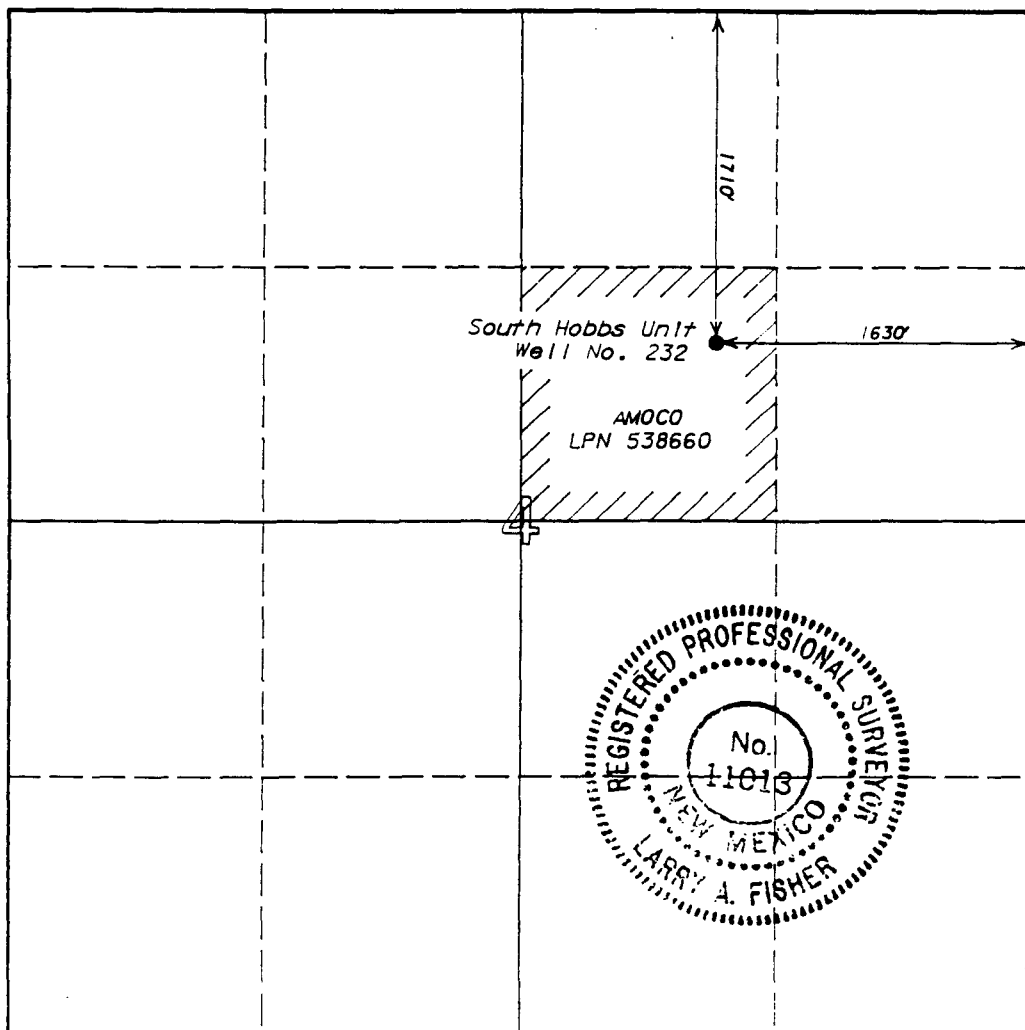
Operator Amoco Production Company		Lease South Hobbs Unit		Well No. 232
Unit Letter G	Section 4	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well 1710' feet from the North line and 1630' feet from the East line				
Ground Level Elev. 3614.1'	Producing Formation San Andres	Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated 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.

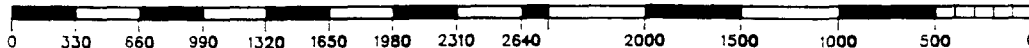
Name Kim A. Colman
Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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.

Date Surveyed October 2, 1991

Registered Land Surveyor
Larry A. Fisher
Larry A. Fisher

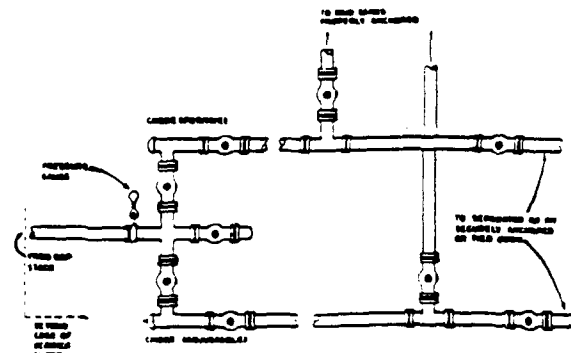
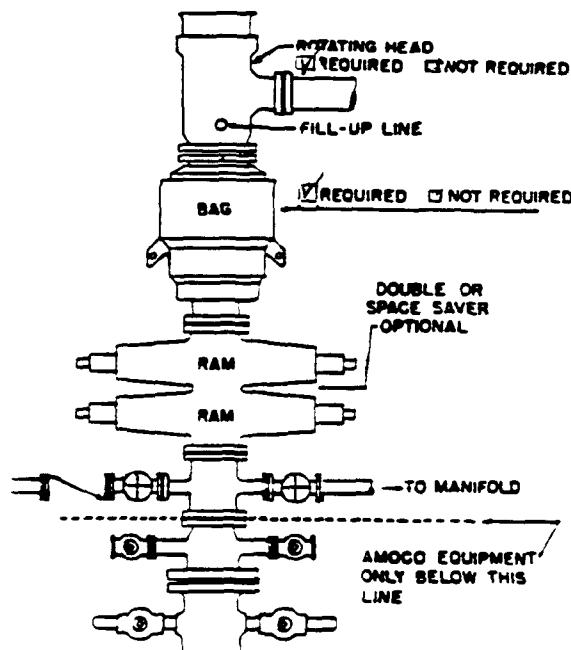
Certificate No. 11013



**ATTACHMENT
3000# W.P. BOP STACK**

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.
2. 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.
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 nipping 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:

	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind
12. * Amoco District Manager may reverse location of rams.



Attachment No. 2

**SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR
ALL BOP EQUIPMENT**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

232

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter G : 1710 Feet From The North Line and 1630 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3614.1' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
in attempting commercial production.

Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Kim A. Colvin

TITLE

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

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

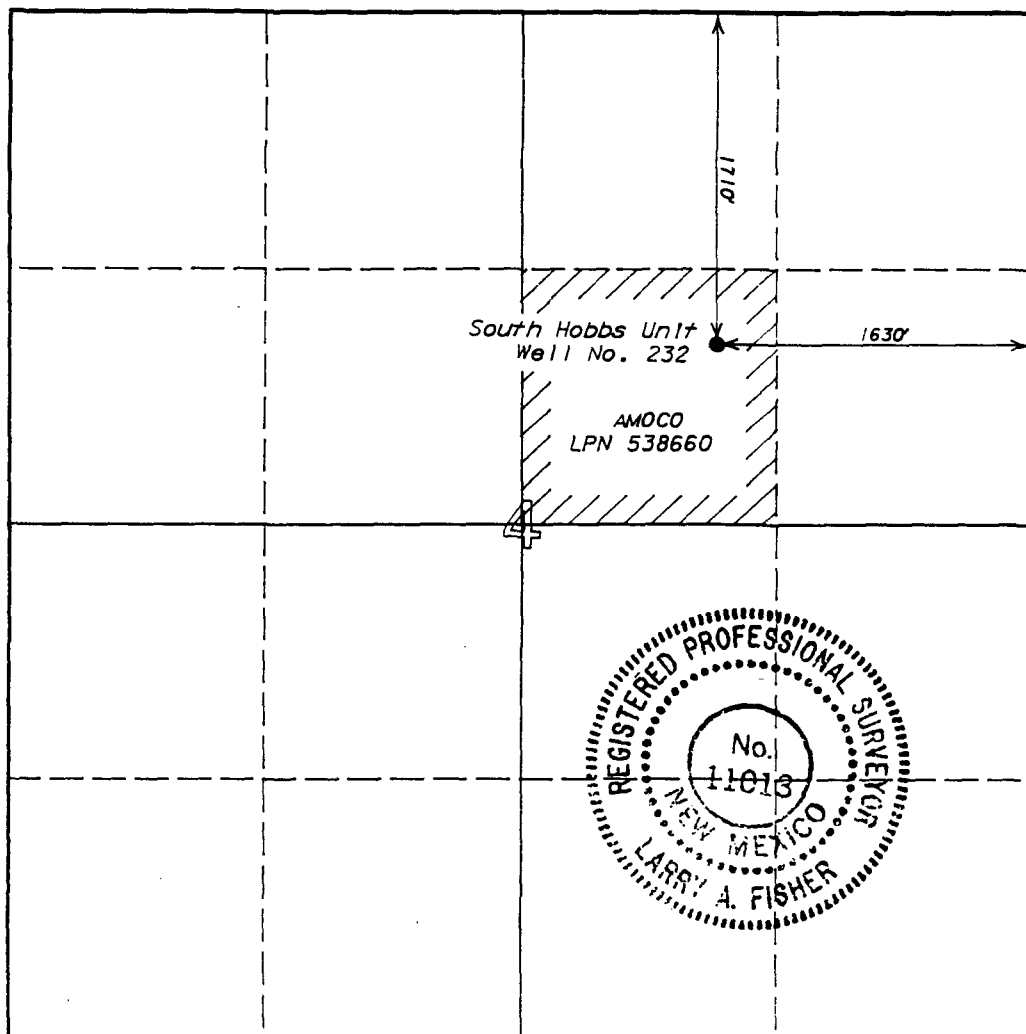
Operator <i>Amoco Production Company</i>		Lease <i>South Hobbs Unit</i>		Well No. <i>232</i>
Unit Letter <i>G</i>	Section <i>4</i>	Township <i>19 South</i>	Range <i>38 East</i>	County <i>Lea</i>
Actual Footage Location of Well <i>1710'</i> feet from the <i>North</i> line and <i>1630'</i> feet from the <i>East</i> line				
Ground Level Elev. <i>3614.1'</i>	Producing Formation <i>San Andres</i>	Pool <i>Hobbs (G/SA)</i>	Dedicated Acreage <i>40</i> Acres	

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 ownership is dedicated to the well, have the interests of all owners been consolidated 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.

Name
Kim A. Colvin
Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
10-14-91

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.

Date Surveyed *October 2, 1991*

Registered Land Surveyor
Larry A. Fisher
Larry A. Fisher

Certificate No. *11013*

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

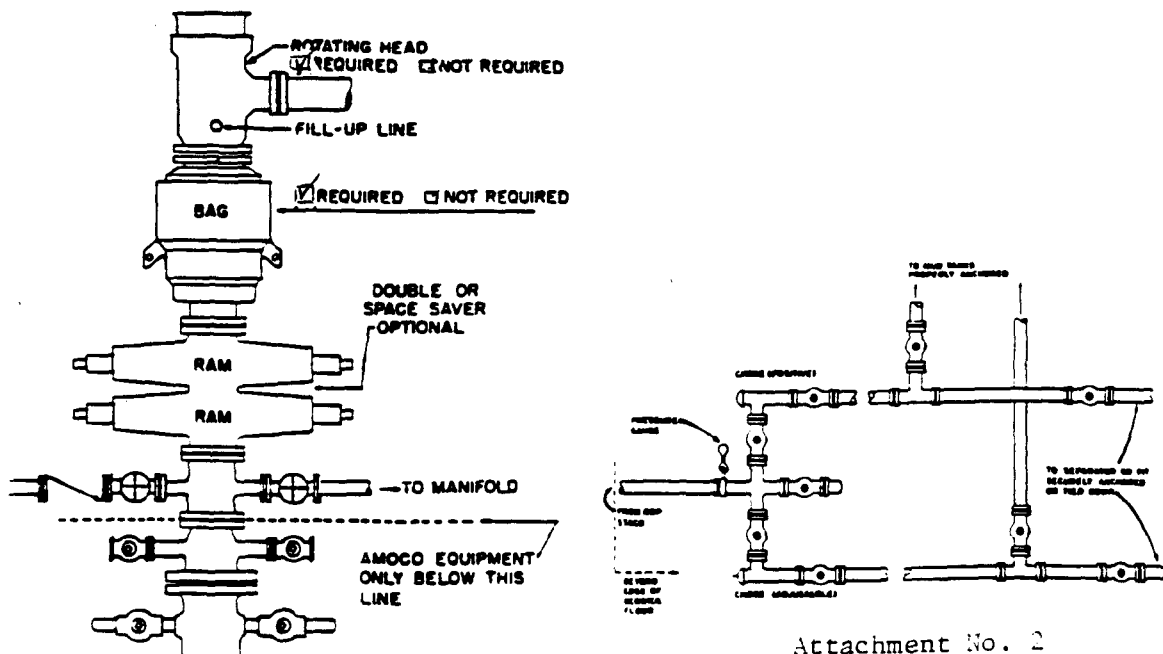
ATTACHMENT
3000# W.P. BOP STACK

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.
2. 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.
5. Hydril or equivalent drill pipe back pressure valve 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 nipping 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).
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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
Drill Pipe
Blind

Running Casing
Casing
Blind

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



Attachment No. 2

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, Minerals and Natural Resources Department

Form C-101
Revised 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 II
P.O. Drawer DD, Artesia, NM 88210

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

234

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter F : 2480 Feet From The North Line and 1800 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3607.4' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
in attempting commercial production.

Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the corner boundaries of the Section.

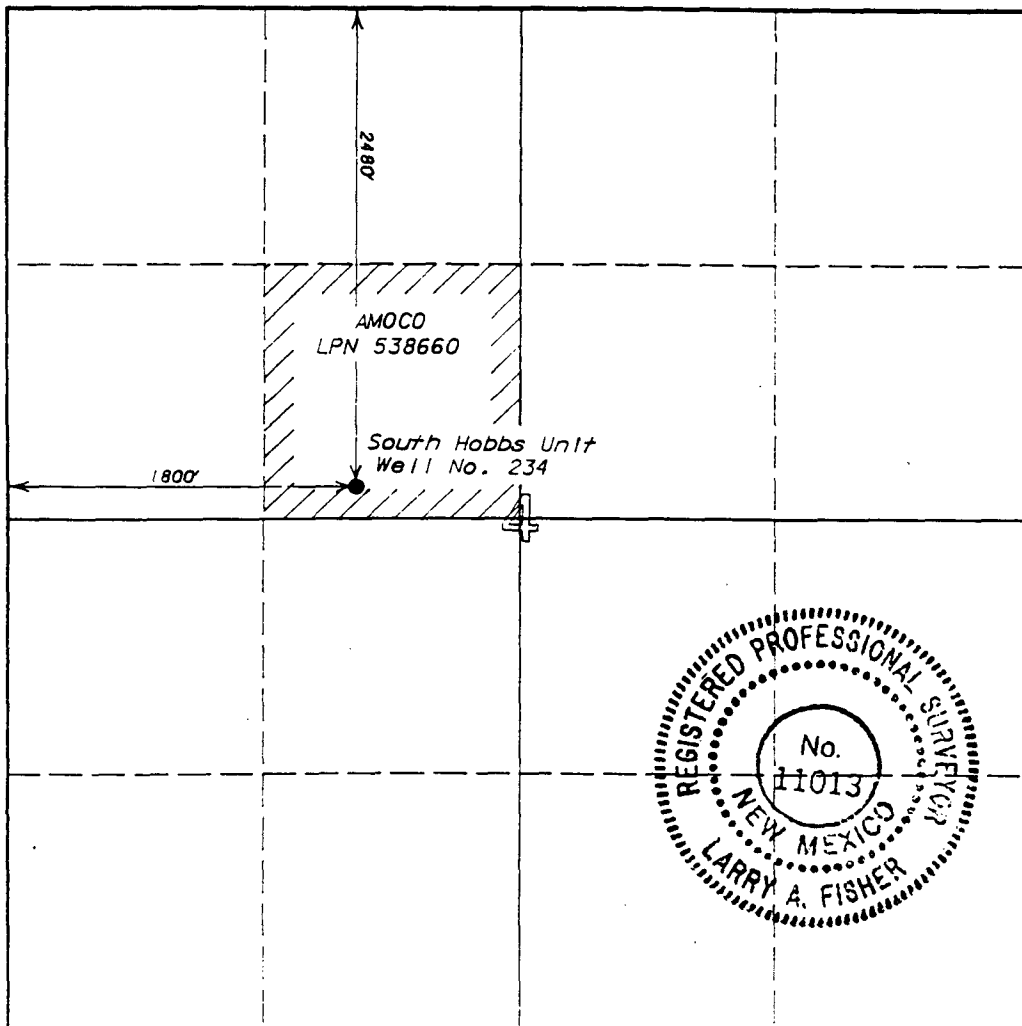
Operator Amoco Production Company		Lease South Hobbs Unit		Well No. 234	
Unit Letter F	Section 4	Township 19 South	Range 38 East	County Lea	
Actual Footage Location of Well: 2480' feet from the North line and 1800' feet from the West line					
Ground Level Elev. 3607.4'	Producing Formation San Andres		Pool Hobbs (G/SA)	Dedicated Acreage 40	Acreage

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communization, 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 communization, 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.

Name **Kim A. Colvin**
Position **Asst. Admin. Analyst**
Company **Amoco Production Company**
Date **10-14-91**

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.

Date Surveyed **September 25, 1991**
Registered Land Surveyor **Larry A. Fisher**
Certificate No. **11013**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

ATTACHMENT
30004 W.P. BOP STACK

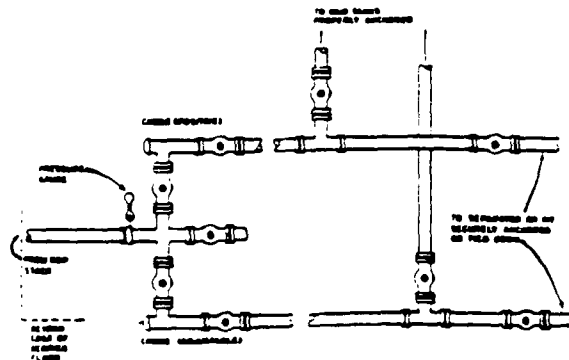
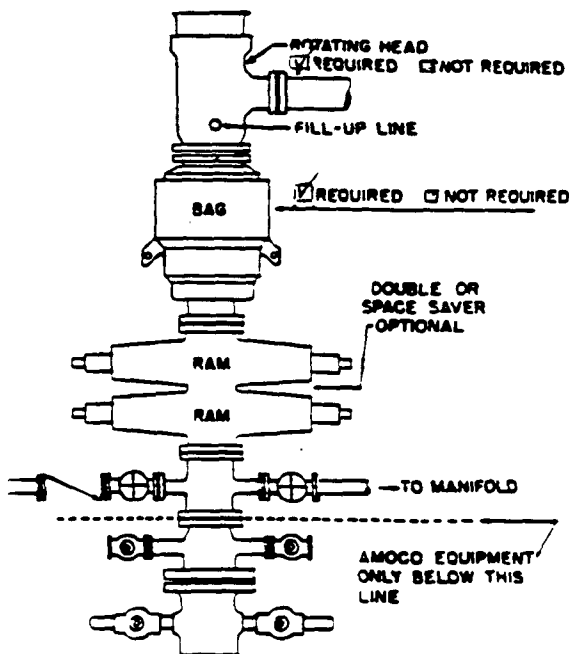
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11. Use rams in following positions: *

Upper Ram
Lower Ram

Drilling
Drill Pipe
Blind

Running Casing
Casing
Blind

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



Attachment No. 2

SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 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 II
P.O. Drawer DD, Artesia, NM 88210

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

234

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter F : 2480 Feet From The North Line and 1800 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3607.4' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
in attempting commercial production.

Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/ 596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the corner boundaries of the Section.

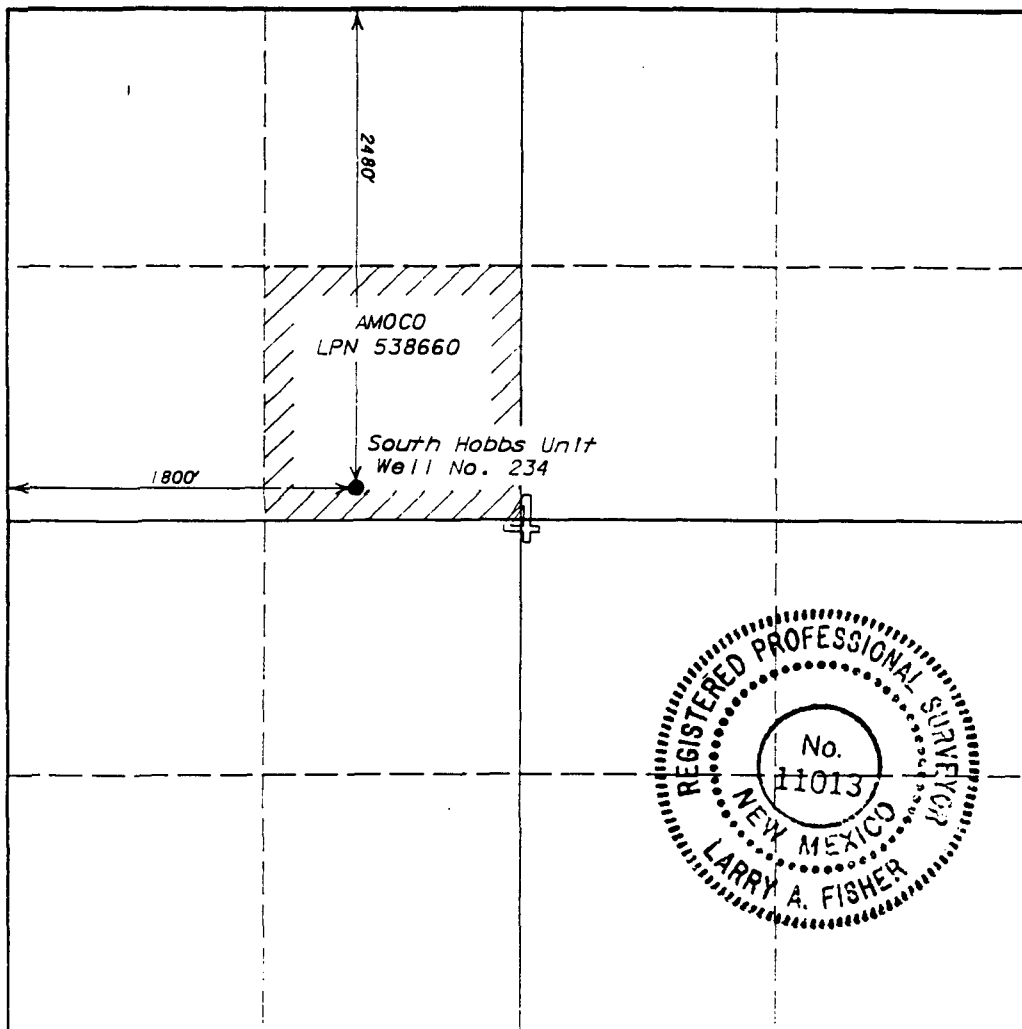
Operator Amoco Production Company		Lease South Hobbs Unit		Well No. 234
Unit Letter F	Section 4	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well: 2480' feet from the North line and 1800' feet from the West line				
Ground Level Elev. 3607.4'	Producing Formation San Andres	Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

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☐ 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.) _____

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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Kim A. Colman
Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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.

Date Surveyed September 25, 1991
Registered Land Surveyor Larry A. Fisher
Certificate No. 11013

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

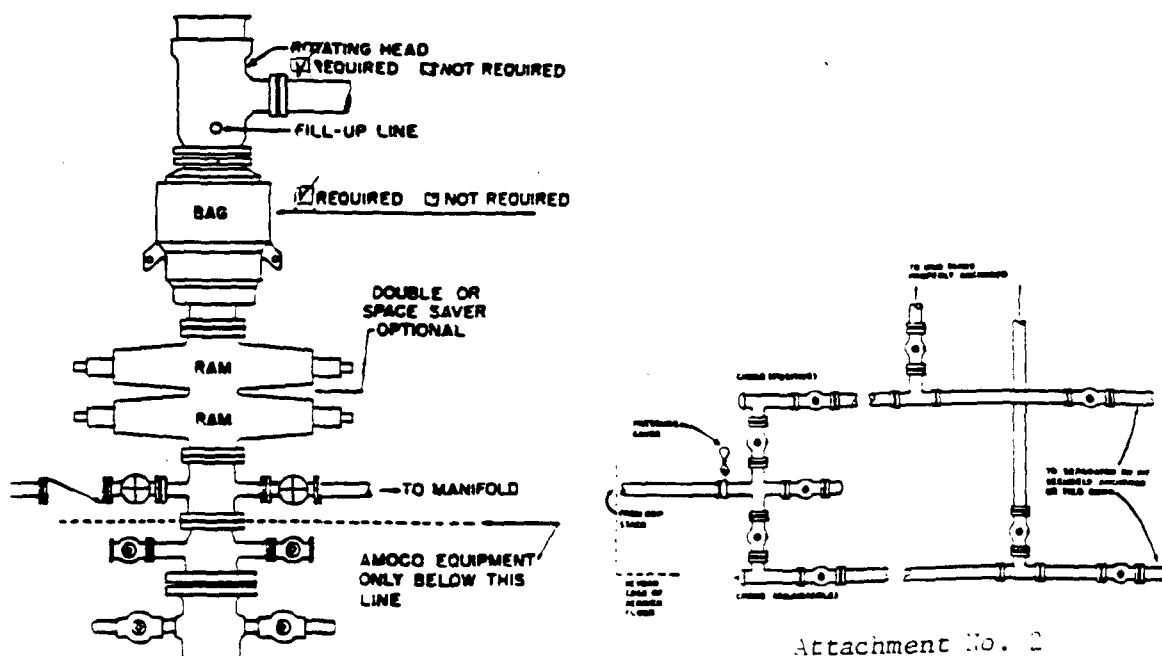
**ATTACHMENT
3000# W.P. BOP STACK**

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.
2. 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.
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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	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

* Amoco District Manager may reverse location of rams.

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



Attachment No. 2

SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

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

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

234

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter F : 2480 Feet From The North Line and 1800 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3607.4' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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.

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1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

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SIGNATURE

Kim A. Colvin

TITLE

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

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

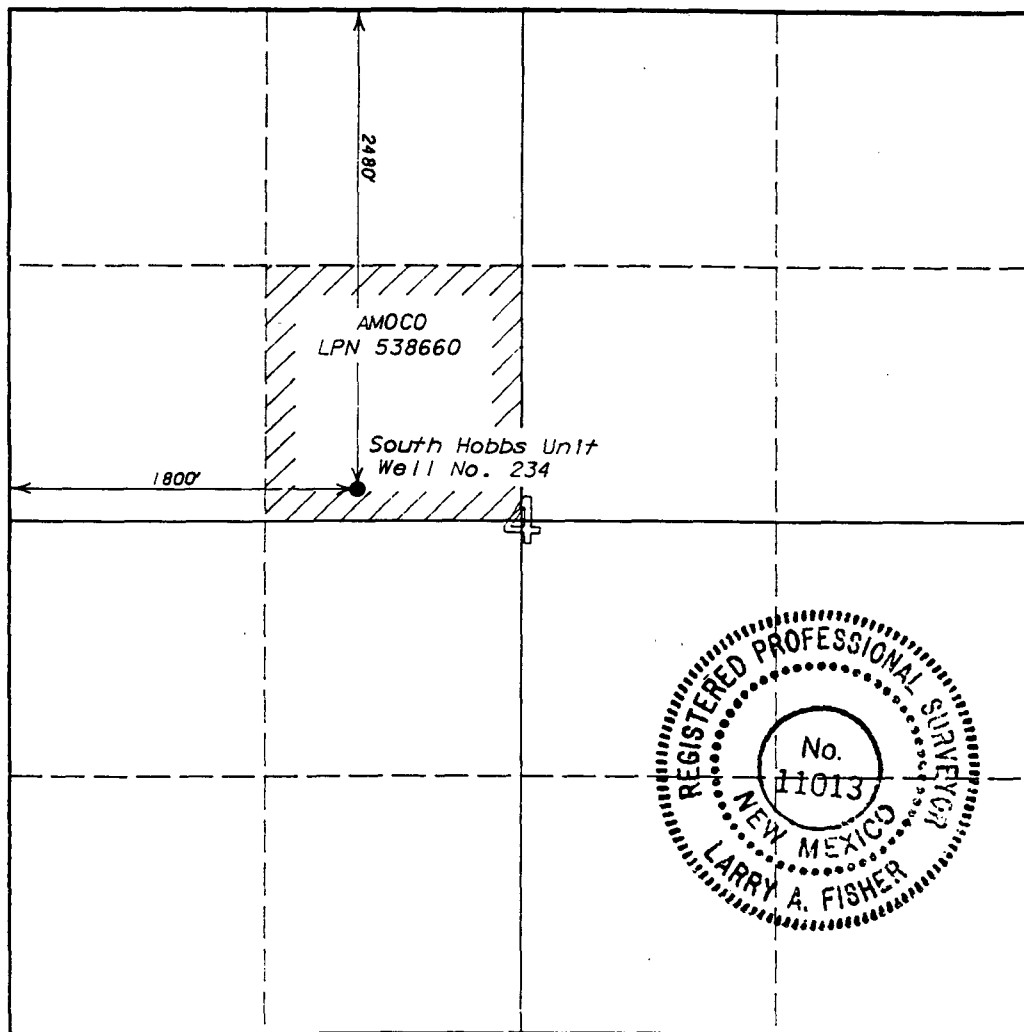
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Unit Letter F	Section 4	Township 19 South	Range 38 East	County Lea	
Actual Footage Location of Well: 2480' feet from the North line and 1800' feet from the West line					
Ground Level Elev. 3607.4'	Producing Formation San Andres		Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Kim A. Colvin
Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
10-14-91

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.

Date Surveyed
September 25, 1991
Registered Land Surveyor
Larry A. Fisher

Certificate No. **11013**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

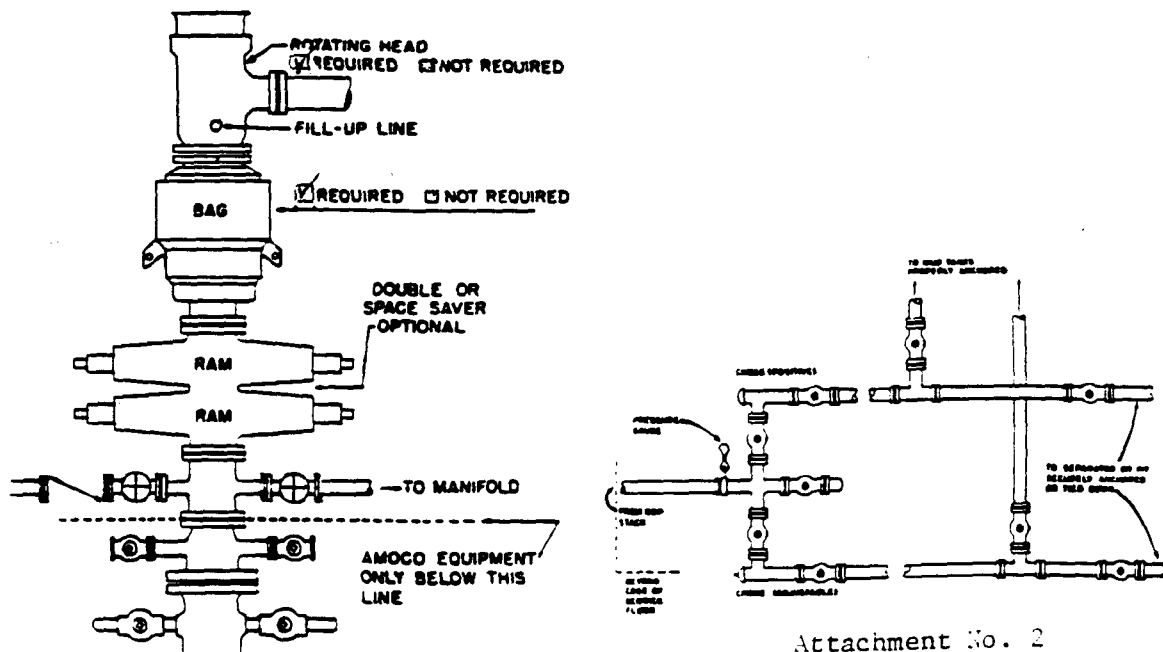
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Attachment No. 2

**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, Minerals and Natural Resources Department

Form C-101
Revised 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 II
P.O. Drawer DD, Artesia, NM 88210

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

236

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter K : 1403 Feet From The South Line and 1746 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3603.5' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

16. Approx. Date Work will start

11/6/91

17.

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SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
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1600' - 3800'

Saturated/Brine

3800' - TD*

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SIGNATURE

Kim A. Colvin

TITLE

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

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

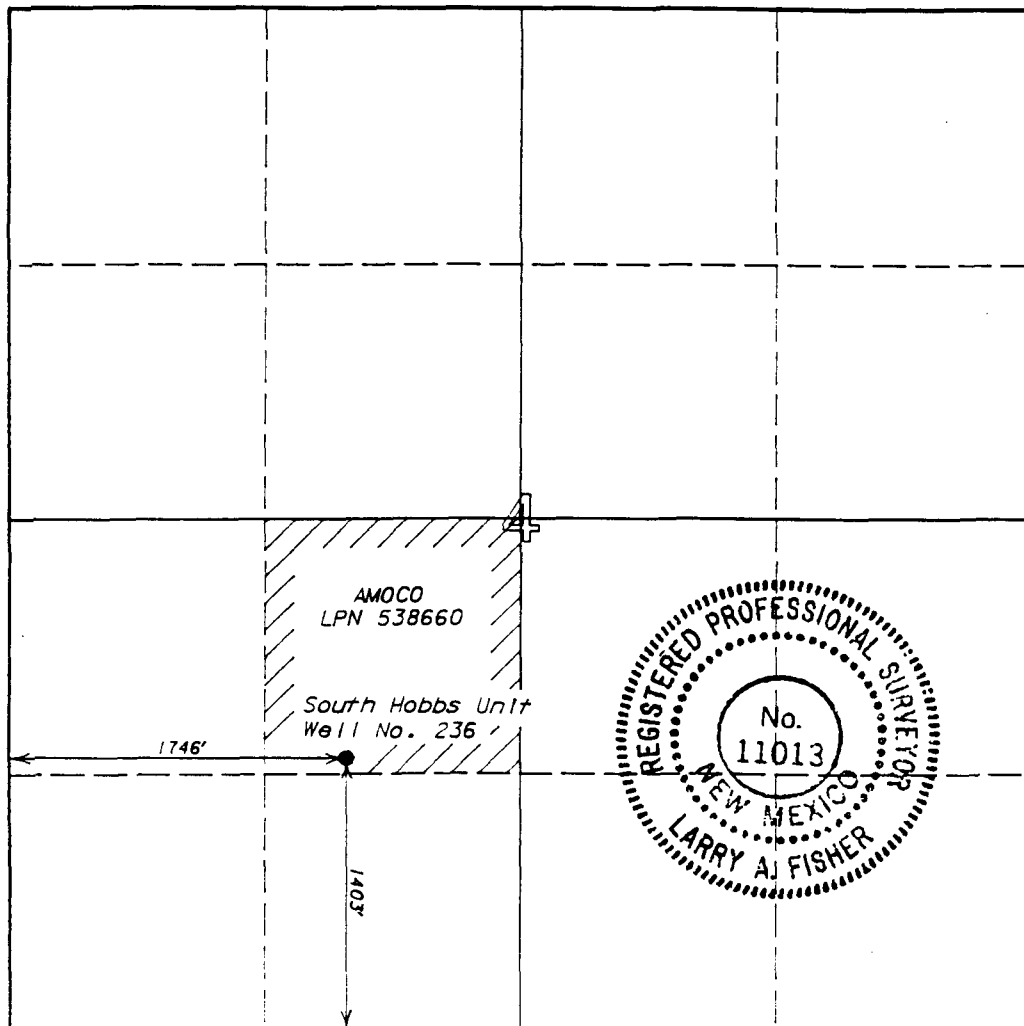
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Ground Level Elev. 3603.5'	Producing Formation San Andres	Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

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CERTIFICATION

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Name Kim A. Colvin
Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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.

Date Surveyed October 2, 1991

Registered Land Surveyor
Larry A. Fisher
Larry A. Fisher

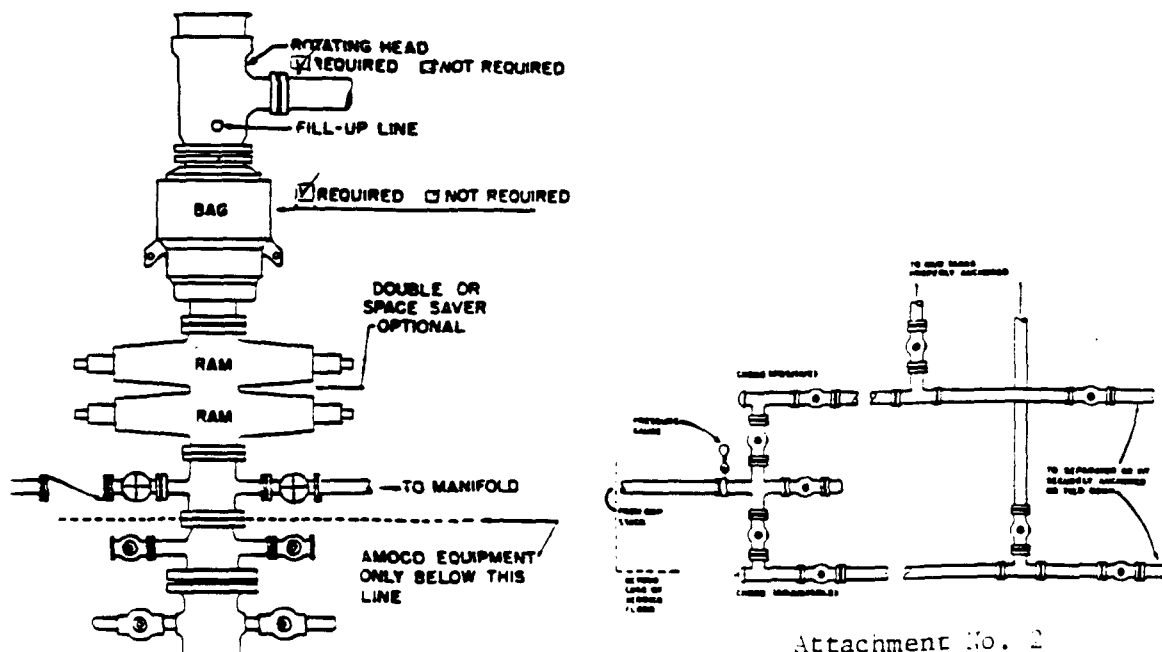
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Submit to Appropriate
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State Lease - 6 copies
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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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

DISTRICT II
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API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

Amoco Production Company

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

8. Well No.

236

9. Pool name or Wildcat

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4. Well Location

Unit Letter K : 1403 Feet From The South Line and 1746 Feet From The West Line

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4350'

11. Formation

San Andres

12. Rotary or C.T.

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13. Elevations (Show whether DF, RT, GR, etc.)

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15. Drilling Contractor

16. Approx. Date Work will start

11/6/91

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1600' - 3800' Saturated/Brine
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SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/ 596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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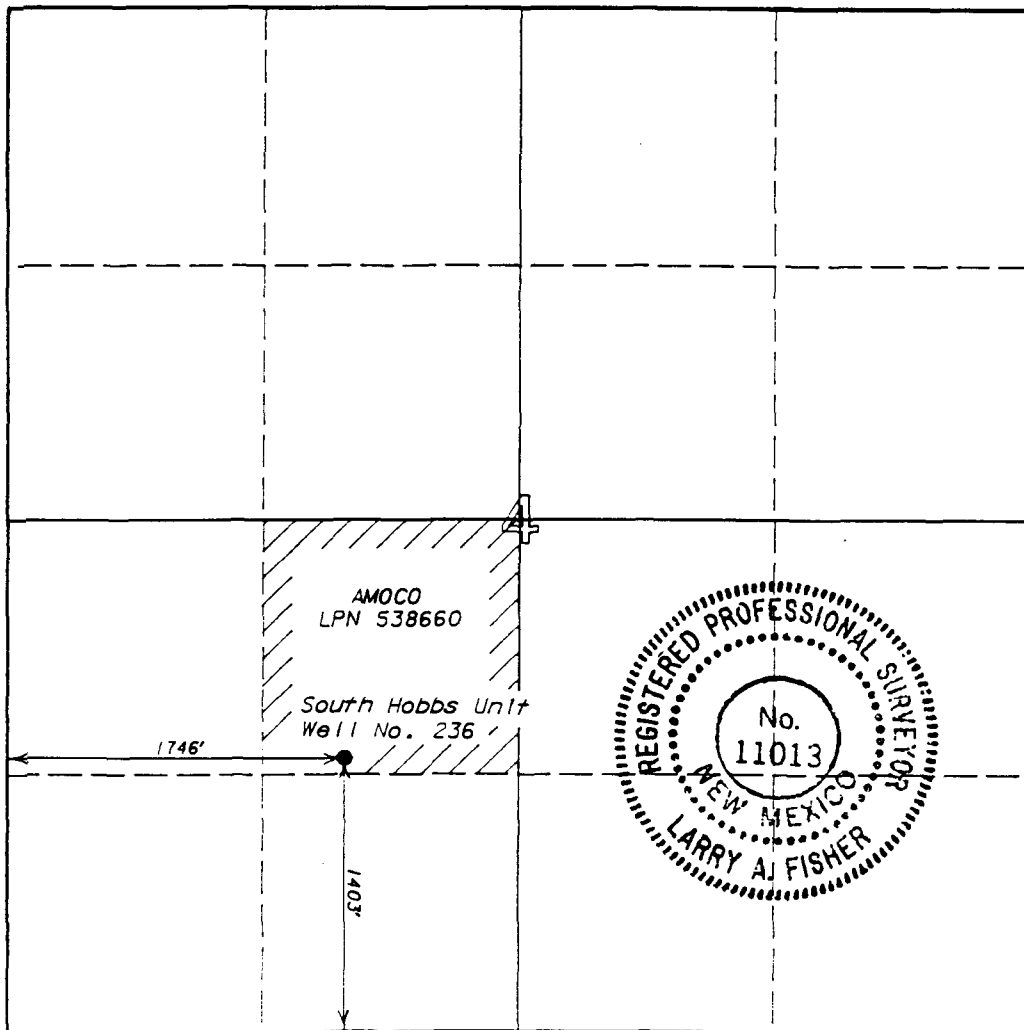
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Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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Date Surveyed October 2, 1991

Registered Land Surveyor
Larry A. Fisher
Larry A. Fisher

Certificate No. 11013

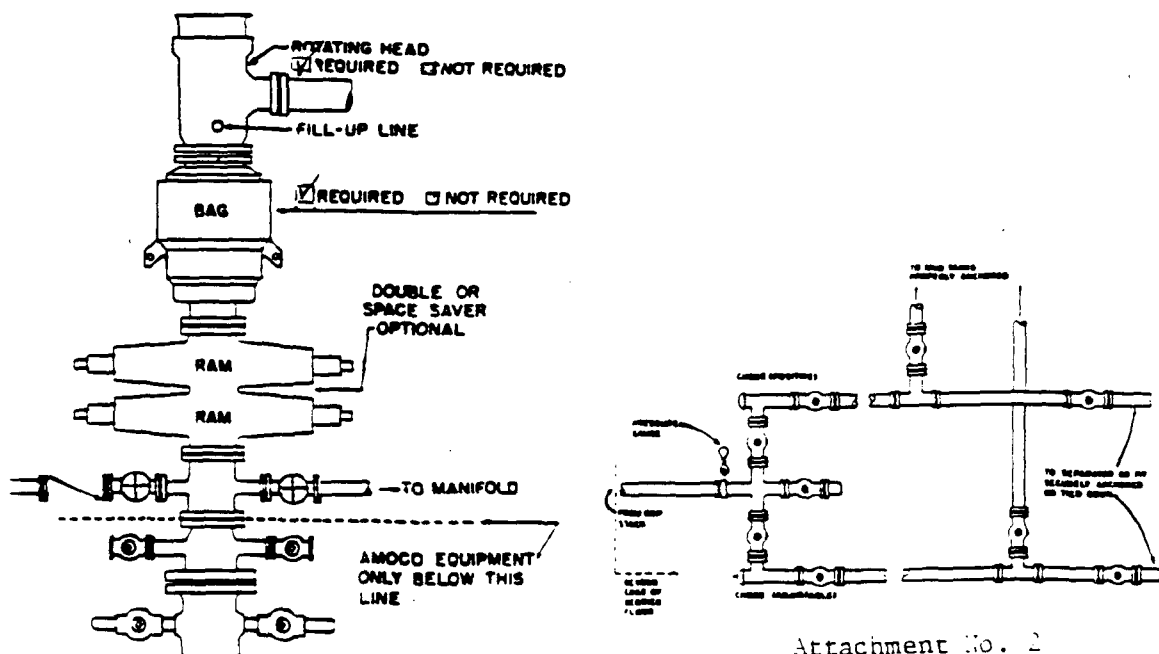
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6. All equipment upstream of chokes, including kill line equipment shall be flanged or clamped and of a test pressure no less than that of the blowout preventer. All valves upstream of choke shall be 3" or 4" gate valves Cameron Type "F" or equivalent. 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 nipping 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: *

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

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



Attachment No. 2

**SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR
ALL BOP EQUIPMENT**

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

236

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter K : 1403 Feet From The South Line and 1746 Feet From The West Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3603.5' GR

14. Kind & Status Plug, Bond

15. Drilling Contractor

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
in attempting commercial production.

Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

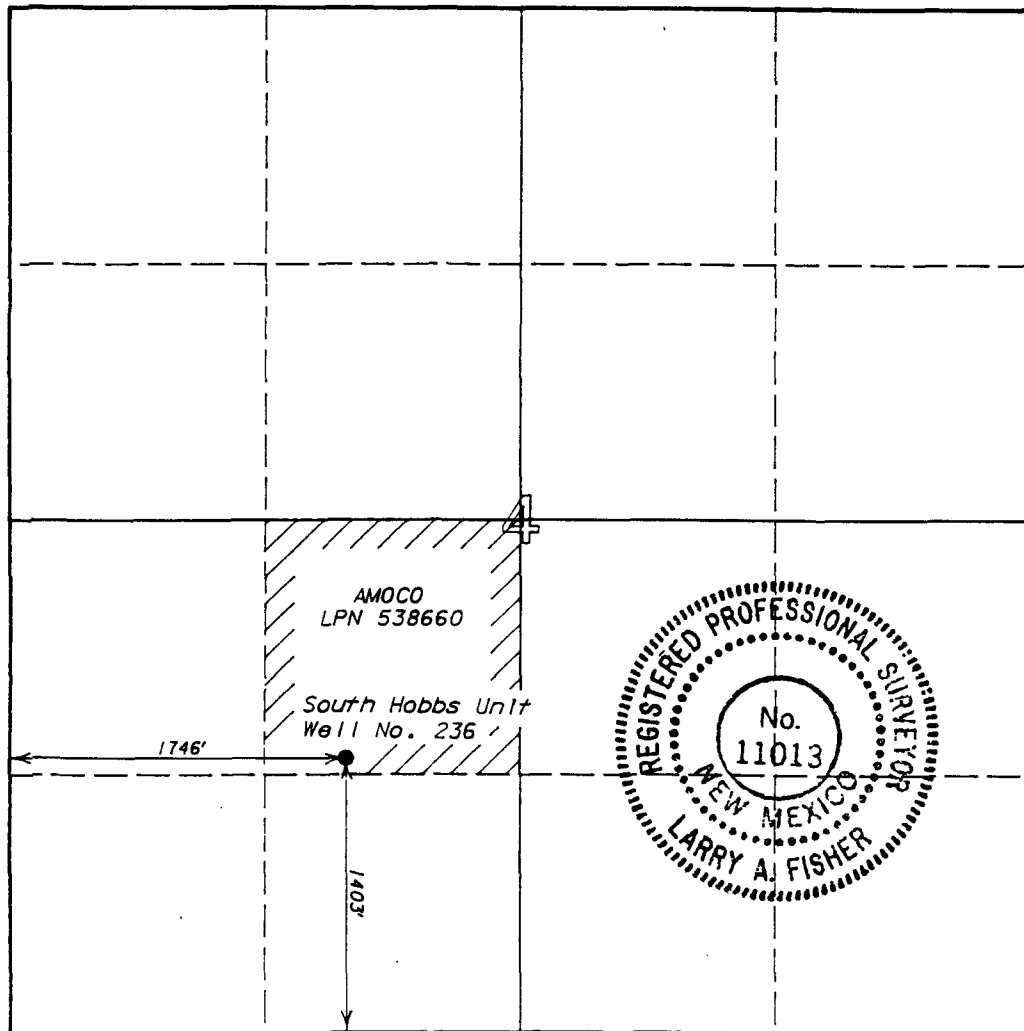
Operator Amoco Production Company			Lease South Hobbs Unit			Well No. 236		
Unit Letter K	Section 4	Township 19 South		Range 38 East	County Lea			
Actual Footage Location of Well: 1403' feet from the South line and 1746' feet from the West line								
Ground Level Elev. 3603.5'		Producing Formation San Andres		Pool Hobbs (G/SA)		Dedicated Acreage 40 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communization, 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 communization, 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.

Name
Kim A. Colvin
Position
Asst. Admin. Analyst
Company
Amoco Production Company
Date
10-14-91

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.

Date Surveyed
October 2, 1991
Registered Land Surveyor
Larry A. Fisher
Certificate No.
11013

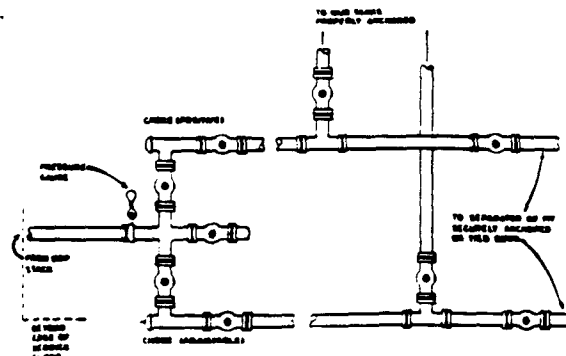
0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

ATTACHMENT
3000# W.P. BOP STACK

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.
2. 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.
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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: *

Running Casing
Casing
Blind

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



Attachment No. 2

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, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

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

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

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

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

237

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter 0 : 1300 Feet From The South Line and 1910 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3610.2' GR

14. Kind & Status Plug Bond

15. Drilling Contractor

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
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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
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Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin

TITLE 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 _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

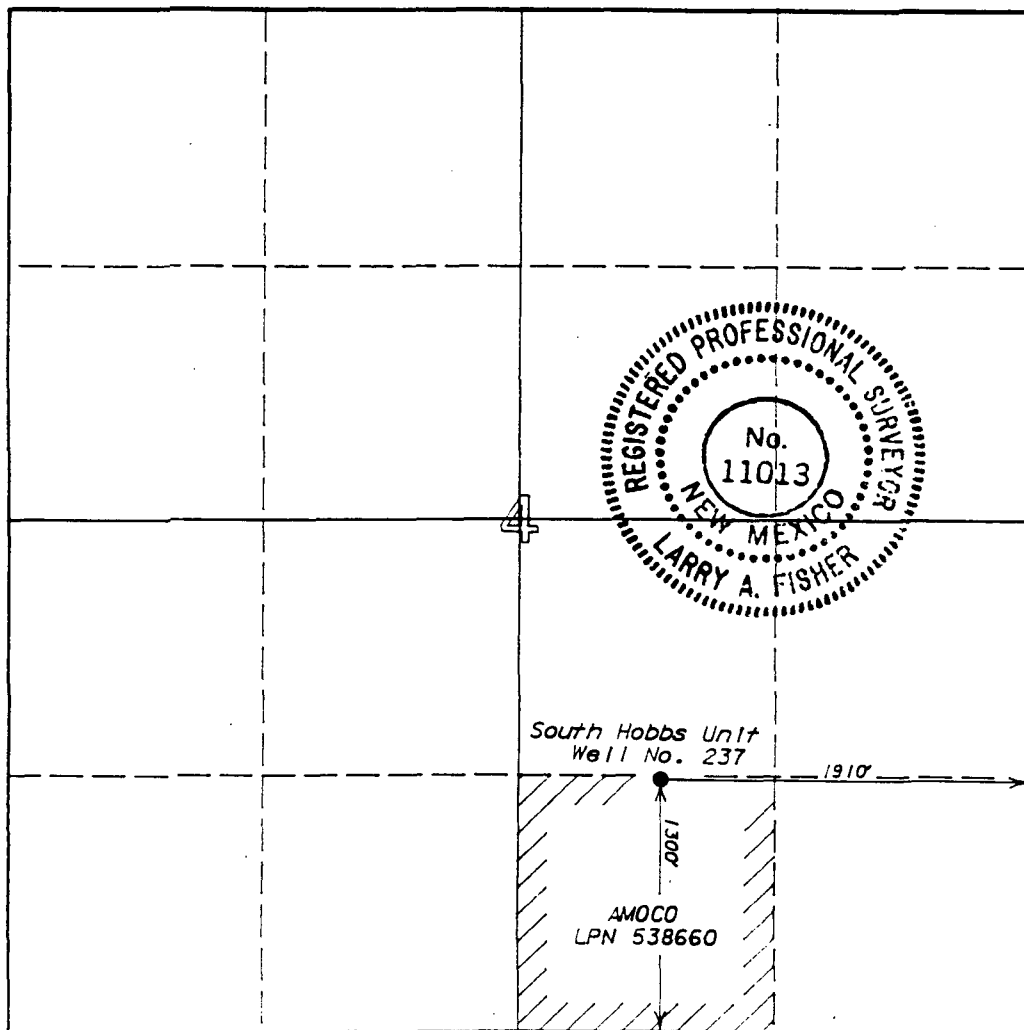
Operator Amoco Production Company		Lease South Hobbs Unit		Well No. 237
Unit Letter 0	Section 4	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well 1300' feet from the South line and 1910' feet from the East line				
Ground Level Elev. 3610.2'	Producing Formation San Andres	Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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).
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☐ Yes ☐ No If answer is "yes," type of consolidation _____

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CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name Kim A. Colman
Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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.

Date Surveyed October 2, 1991

Registered Land Surveyor
Larry A. Fisher
Larry A. Fisher

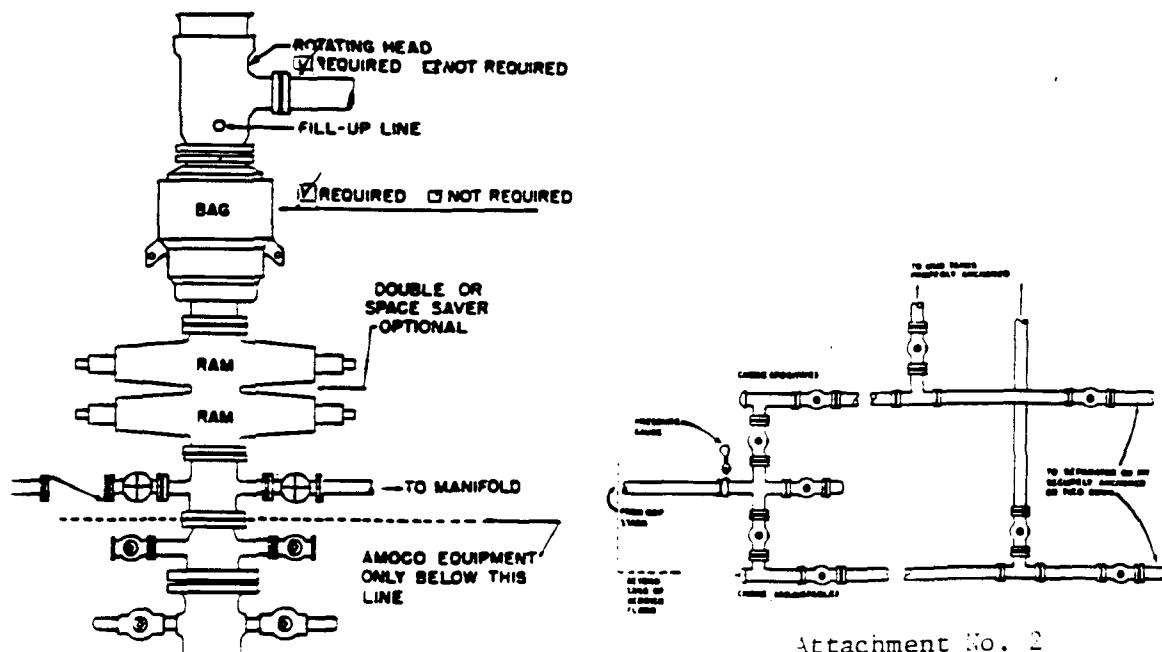
Certificate No. 11013

**ATTACHMENT
3000# W.P. BOP STACK**

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Upper Ram	Drill Pipe	Casing
Lower Ram	Blind	Blind

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



Attachment No. 2

SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 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 II
P.O. Drawer DD, Artesia, NM 88210

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

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

South Hobbs (GSA) Unit

2. Name of Operator

Amoco Production Company

8. Well No.

237

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter 0 : 1300 Feet From The South Line and 1910 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

4350'

11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

3610.2' GR

14. Kind & Status Plug. Bond

15. Drilling Contractor

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
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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.

Mud Program:

0 - 1600'

Native/Spud

1600' - 3800'

Saturated/Brine

3800' - TD*

Salt Gel/Starch

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I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/ 596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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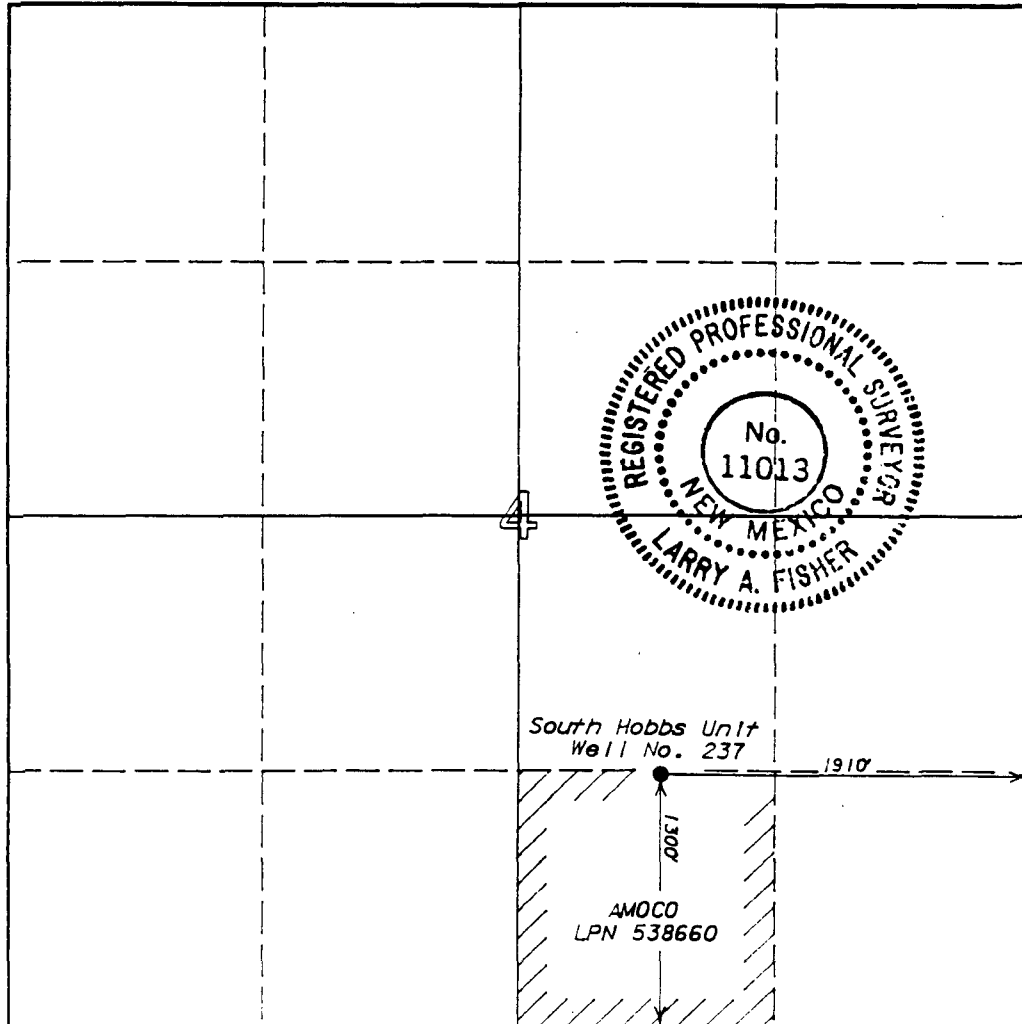
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Unit Letter 0	Section 4	Township 19 South	Range 38 East	County Lea
Actual Footage Location of Well 1300' feet from the South line and 1910' feet from the East line				
Ground Level Elev. 3610.2'	Producing Formation San Andres	Pool Hobbs (G/SA)	Dedicated Acreage 40 Acres	

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Name Kim A. Colman
Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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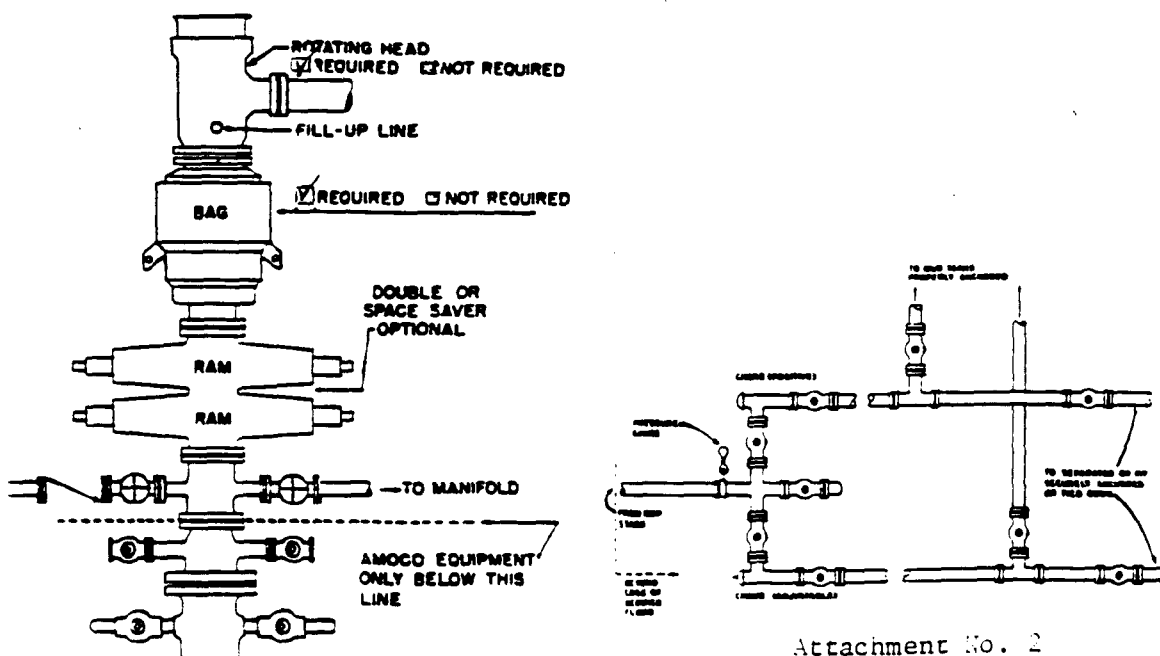
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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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API NO. (assigned by OCD on New Wells)

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STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒ RE-ENTER ☐ DEEPEN ☐ PLUG BACK ☐

b. Type of Well:

OIL WELL ☒ GAS WELL ☐ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. Name of Operator

Amoco Production Company

8. Well No.

237

3. Address of Operator

P. O. Box 3092, Houston, TX 77253

9. Pool name or Wildcat

Hobbs Grayburg S-Andres

4. Well Location

Unit Letter 0 : 1300 Feet From The South Line and 1910 Feet From The East Line

Section 4 Township 19-S Range 38-E NMPM Lea County

10. Proposed Depth

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11. Formation

San Andres

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

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14. Kind & Status Plug. Bond

15. Drilling Contractor

16. Approx. Date Work will start

11/6/91

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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.

Mud Program:

0 - 1600' Native/Spud
1600' - 3800' Saturated/Brine
3800' - TD* Salt Gel/Starch

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN 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 information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kim A. Colvin TITLE Asst. Admin. Analyst DATE 10/15/91

TYPE OR PRINT NAME Kim A. Colvin TELEPHONE NO. 713/596-7686

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

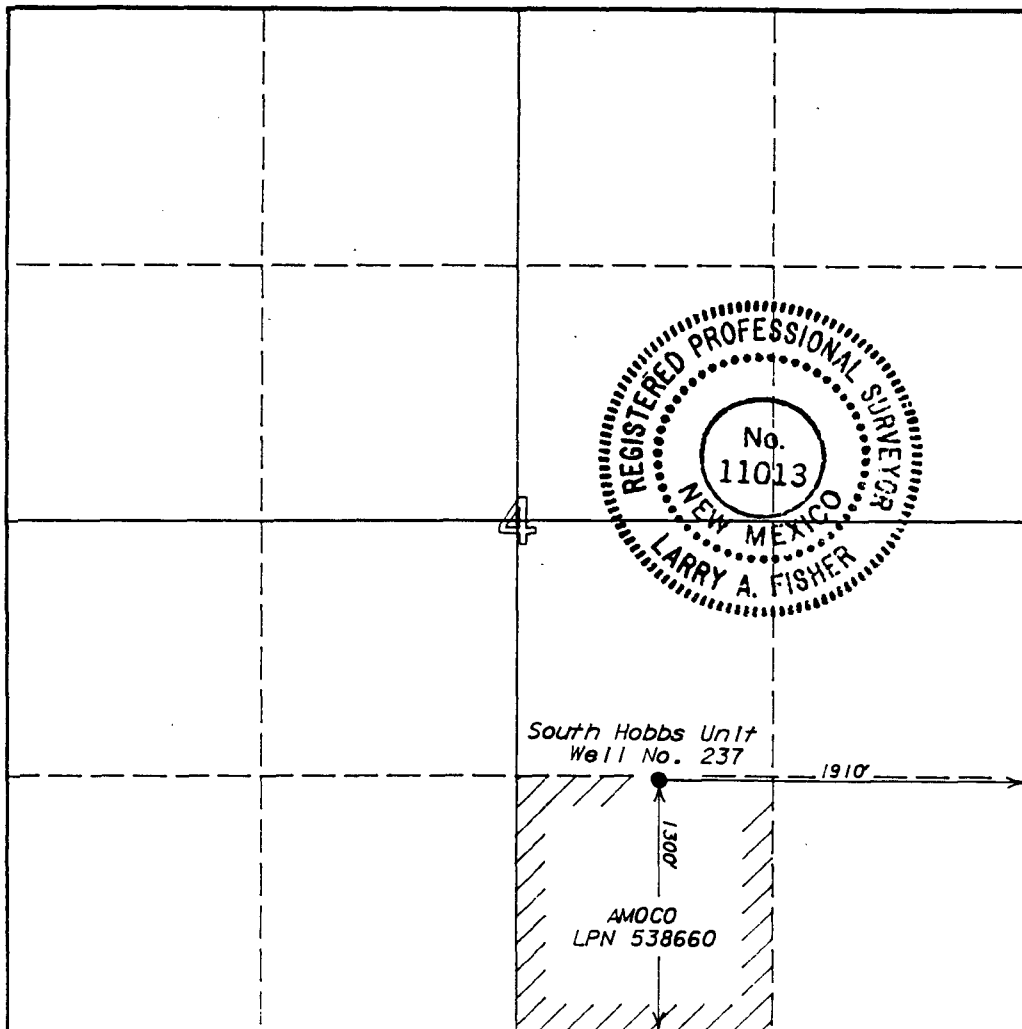
Operator Amoco Production Company			Lease South Hobbs Unit		Well No. 237
Unit Letter 0	Section 4	Township 19 South	Range 38 East	County Lea	
Actual Footage Location of Well 1300' feet from the South line and 1910' feet from the East line					
Ground Level Elev. 3610.2'	Producing Formation San Andres		Pool Hobbs (G/SA)		Dedicated Acreage 40 Acres

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 ownership is dedicated to the well, have the interests of all owners been consolidated by communization, 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 communization, 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.

Name Kim A. Colson
Position Asst. Admin. Analyst
Company Amoco Production Company
Date 10-14-91

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.

Date Surveyed October 2, 1991

Registered Land Surveyor
Larry A. Fisher
Larry A. Fisher

Certificate No. 11013

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

**ATTACHMENT
3000# W.P. BOP STACK**

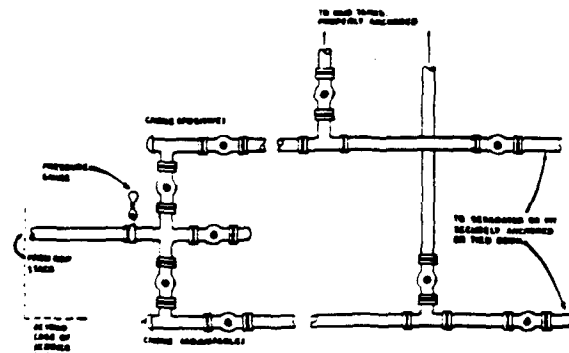
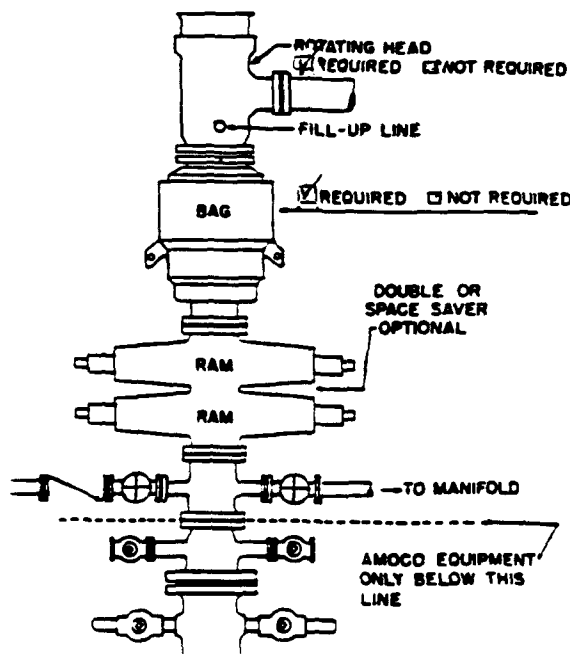
1. BOP's to be fluid operated. BOP's and all fittings must be in good condition and rated at 3,000 psi w.p. minimum.
2. Equipment through which bit must pass shall be at least as large as casing size being drilled through.
3. Upper kelly cock is required and shall be 3,000 psi w.p. minimum. Lower kelly 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.
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 nipping 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
Lower Ram

Drilling
Drill Pipe
Blind

Running Casing
Casing
Blind

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



Attachment No. 2

SUBSTRUCTURE HEIGHT OF RIG TO HAVE ADEQUATE CLEARANCE FOR



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION
RECEIVED
91 NOV 12 AM 10 28

BRUCE KING
GOVERNOR

11-1-91

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

NSL-3073

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

RE: Proposed:

MC _____
DHC _____
NSL X _____
NSP _____
SWD _____
WFX _____
PMX X _____

229-C 4-19-38
230-B 4-19-38
233-D 4-19-38
235-K 4-19-38
238-O 4-19-38

Gentlemen:

I have examined the application for the:

Amoco Production Co. South Hobbs GB-SA Unit
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK JS

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/ed



STATE OF NEW MEXICO

CONSERVATION DIVISION
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
RECEIVED

'91 NOV 12 AM 10 28

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

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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 X _____
NSP _____
SWD _____
WFX _____
PMX _____

231-F 4-19-38
232-G 4-19-38
234-F 4-19-38
236-K 4-19-38
237-O 4-19-38

Gentlemen:

I have examined the application for the:

Amoco Production Co. South Hobbs GB/BA Unit
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK JS

Yours very truly,

Jerry Sexton

Jerry Sexton
Supervisor, District 1

/ed