

RELEASE 3-8-93



OIL CONSERVATION DIVISION
RECEIVED

'93 FEB 16 AM 9 02

Amoco Production Company

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

February 11, 1993

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

File: WF

Gentlemen:

Application to Downhole Commingle
State -G- Well No. 6
Blinebry, Upper and Blinebry, Lower Pools
Lea County, New Mexico

Approval is hereby requested to downhole commingle the State -G- Well No. 6 in accordance with NMOCD Rule 303-C.

Subject well is located 1980' FNL x 1650' FWL, (Unit F) Section 33, T-18-S, R-38-E, Lea County New Mexico and recently deepened to the Hobbs Lower -Blinebry Pool. Authority to deepen to the Lower - Blinebry was granted December 9, 1992, by Administrative Order NSL-3207.

The existing completion in the Hobbs - Paddock was the result of an unsuccessful plug back. Cast iron bridge plugs were set at 5800 feet and 6200 feet in 1990. The Blinebry, Upper perms were left open and isolated by the cast iron bridge plugs. The Paddock and Blinebry, Upper perms were recently squeezed. The Blinebry, Upper squeeze was not successful and economics on the well will not support the cost of additional work. Therefore; we are requesting the downhole commingling of these pools rather than plug the well.

In support of our request, please see the attachments. If additional information is required, please contact me at (713) 584-7213.

Yours very truly,

A handwritten signature in cursive script that reads "H. I. Black".

H. I. Black
Staff Business Analyst

HIB/ms

Attachments

State of New Mexico
Energy and Mineral Department
Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Terry Caldwell - 17.176
B. W. Abbott - Hobbs OC

A:\WELL-6.DOC

Application to Downhole Commingle State G #6:
Upper/Lower Blinebry

1. The latest productivity tests are as follows:

	<u>BOPD</u>	<u>BWPD</u>	<u>MCFD</u>	<u>PERFORATIONS</u>
Lower Blinebry	0	5	180	6138-6222
Upper Blinebry	0	0	0	**

** This horizon was originally open from 5832-6044; however, as part of the recompletion done on this well, the Upper Blinebry was squeezed off. The squeeze did not hold below 5965, but we received approval from the NMOCD in Hobbs to proceed with the recompletion and test the Lower Blinebry.

2. We are requesting that we not resqueeze the Upper Blinebry and produce the Lower Blinebry with the Upper Blinebry remaining open. We are not expecting any production from the Upper Blinebry.

3. Neither zone produces more water than the combined oil limit as determined by Rule 303, Paragraph C.

4. The produced fluids should be compatible and commingling these fluids should not result in precipitates which might damage the reservoir. Both zones produce sour streams.

5. The value of the commingled stream will not be diminished from the value of the separate stream sales.

Individual Streams

Upper Blinebry	0 BOPD x \$18.00 = \$0.00
Lower Blinebry	180 MCFD x 2.39 = <u>\$430.20</u>
	430.20

When commingled, sales will be the same as the individual streams.

5. Expected daily production from the commingled zones are as follows:

	<u>Lower Blinebry</u>	<u>Upper Blinebry</u>
BOPD	0	0
MCFD	180	0
BWPD	5	0

6. Estimated bottomhole pressures:

Lower Blinebry

Middle perf: 6180'

$$\text{BHP} = (6180')(.07) + 40 \text{ psi} = 473 \text{ psi}$$

Upper Blinebry

Middle perf: 5946'

$$\text{BHP} = (5946')(.07) + 60 = 476 \text{ psi}$$

7. Recommended oil and gas allotments are based on current rates as follows:

Lower Blinebry

100% Gas Production

100% Water Production

Upper Blinebry

100% Oil Production (if any)

8. All zones to be commingled have common ownership.

9. All offset operators have been notified by certified mail. Copy of receipts attached.

STATE /G/ WELL NO.6 (948861)
HOBBS BLINEBRY (REVISED 2/93 BY HX)
1980 FNL X 1650 FWL,(F-33-18-38)
LEA COUNTY,NEW MEXICO

WELL SPUD DATE 10/20/69

BOTTOM OF 11.75 IN OD, 42 LB/FT
@ 420, CMT W/540 SKS

@ 3752, CMT W/370 SKS

PADDOCK:
SQUEEZED 5334-5380

UPPER BLINEBRY:
PERF 5832-6062

LOWER BLINEBRY:
PERF 6138-6222

BOTTOM OF 2.375 IN OD TBG AT 5728
TOP OF 4 IN LINER AT 5815
W/75 SX CMT
BOTTOM OF 5.5 IN OD, 14 LB/FT
@ 6009, CMT W/400 SKS

BP AT 6491

DRINKARD PERFS:
6602-6608,6612-6616,6623-6624
6626-6628,6636-6640,6650-6670
6684-6700,6718-6720,6724-6726
6730-6732,6740-6770,W/4SPF
6820-6822,6824-6834,6850-6860
6870-6878,6890-6894,6898-6900
6906-6910,6918-6932,W/2SPF

PBTD AT 7002 FT

TOTAL DEPTH 7041 FT

BOTTOM OF 4 IN OD LINER, 11.6 LB/FT
@ 7041, CMT W/75 SKS

State "G" No. 6-F-33-18-38
Well History

- 10-20-69: Bandera Drilling Company spudded well.
- 10-21-69: 11-3/4", 42#, H-40 csg SA 420' in a 17-1/2" hole. Cmt w/540 sx-circ.
- 10-30-69: 8-5/8", 24#, 32#, H-40 & J-55 csg SA 3752' in 11" hole. Cmt w/370 sxs-tcmt calc at 1831'.
- 11-10-69: 5-1/2", 14#, J-55 csg SA 6009' in 7-7/8" hole. Cmt w/400 sxs-top of cmt @ 3500' per temperature survey.
- 11-15-69: Perf 5930'-34', 5950'-62' w/2 JSPF. Acidize w/2000 gals of 15% LSTNE-HCL. Max: 700#, Min: 0, ISIP: vacuum, AIR: 3 BPM. Swabbed down in 7 hrs.
- 11-17-69: Well completed and treat perms w/4000 gals of lease crude containing 40 gals of Fre Flo surfactant. Max: 700 psi, Min: 0, ISIP: vacuum, AIR: 3.5 BPM. SI for fluid build up.
- 11-19-69: Pumped 134 BO x 6 BLW on 10 hr test (322 BOPD x 14 BWPD calculated). Oil GR - 36° API, gas not measured.
- 05-27-71: Started inhibitor program for calcium sulfate using 833 scale inhibitor - program has been discontinued, but date unknown.
- 08-04-82: Workover well to eliminate pressure and oil flow behind the 5-1/2" csg. Run a CBL from 2500' to 5300'. Perf 3410'-3412' and sq 590 sx between 5-1/2" csg and 8-5/8" csg. Circ 64 sx. Perf 450'-452' and sq 200 sx between 8-5/8" and 11-3/4" csg. Circ 26 sx. Acid Blinbry w/1300 gal 20% NEFE HCl and w/700 gal ASOL. Max prs = zero psi and AIR = 1 bpm. PPWO = 7 BOPD x 1 BWPD x 14 MCFD
PAWO = 7 BOPD x 6 BWPD x 52 MCFD
- 12-08-83: Recompleted from Blinbry to Drinkard. Moved in service unit 7-26-83. Pulled rods and pump. Released tubing anchor and pulled tubing. Set cement retainer at 5801'. Squeeze cemented with 200 sx Class C cement. Circulate out 95 sx. Drill to 5972'. Pressure tested squeeze job. Held OK. Resumed drilling. Reached new TD of 7041' on 8-11-83. Ran 4" 11# liner and set liner at 7041' in 4-3/4" hole. Top of liner at 5815'. Cemented liner with 75 sx Class C. Pressure tested liner. Held OK. Cleaned out hole to 7002'. Perforated 6820'-22', 6824'-34', 6850'-60', 6870'-78',

6890'-94', 6898'-6900', 6906'-10', and 6918'-32' with a 2-1/2" casing gun with 2 SPF. Ran 2-7/8" tubing and 5-1/2" packer. Packer set at 5713' and tailpipe landed at 5745'. Pumped 12,000 gal 60% foamed 20% HCL with additives and 140 ball sealers. Flush with 52 bbl N₂. Released packer and pulled tubing. Perforated 6602'-08', 6612'-16', 6620'-24', 6626'-28', 6636'-40', 6650'-70', 6684'-6700', 6718'-20', 6724'-26', 6730'-32', and 6740'-70' with 2-1/2" casing gun with 4 JSPF and 180° phasing. Ran 2-7/8" tubing and packer. Packer set at 5710'. Acidized with 10,000 gals of 20% HCL with additives and 652,600 SCF N₂. Flush with N₂. Flowed well for 24 hrs and recovered 59² BO and 97 BLW. Killed well with 50 bfw with 2% KCL. Released packer and POH. RIH with 2-1/16" tubing, packer and 2-3/8" tubing. Tubing landed at 6537' and packer set at 5749'. Opened well to tank and flowed 53 BO and 75 BLW in 7 hrs, Mosu. When the final report was issued, this well was pumping 5 BOPD x 4 BWPD x 10 MCFD.

02-08-84: Well acidized to remove formation damage. Misu but unable to swab due to paraffin. Pmp 3410 gal acid and 1840 gal ASOL. Flush w/30 bfw with 2% kcl. Rtg to 6936' with seating nipple on bottom. Guiberson tbg anchor at 5738' (2-1/16" 3.25# J-55 10RT tbg below anchor and 2-3/8" 4.7# J-55 8RT tbg above anchor).
PPWO = 6 BOPD x 5 BWPD x 10 MCFD
PAWO = 14 BOPD x 8 BWPD x 12 MCFD

03-19-85 Frac'd x 46,200 gal gel x30,866 gal CO2 x 26019 lb sand.

04-10-87 Co fill. Recomplete to Blinebry x downhole commingle. Perf 5832-44, 5881-5885, 5890-94, 5924-28, 5936-56 x 6044-62. Frac x 14000 gal x-link HPG, 7000 gal CO2 x 45000 # 20/40 Ottawa sand.

05-06-88 Acd x 2000 gal 15 % NEFE HCl.

01-12-90 Unsuccessful recompletion to Paddock. Perf 5334-5380'. Acd x 2000 gal 15% NEFE HCl

11-12-92 MI. RUSU. SET PKR 5285'. TST CSG. OK. RIH X CMT RET X 5252'. SQ PADDOCK X 217 SXS CLASS C CMT X 2% CACL WOC. DO CMT RET X CMT TO 5410'. TEST. DO CIBP X 5801'. RIH X CMT RET X 5785' X SQ UPPER BLINEBRY 5832-6062 X 137 SXS CLASS C. WOC. DO CMT TO 5824. TEST OK. DO CMT 5824-5965'. TST. OK. FELL OUT CMT. DO CMT 6149' TO 6209' X CIBP X 6209'. NO HOLD. CIBP SA 6491'. CAP X 50' CMT. PERF 6138-6148, 6158-6174, 6179-6186, 6204-6222. ACD USING PPI PKR X 2600 GAL 15% HCL RTP.

W MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Superseded C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

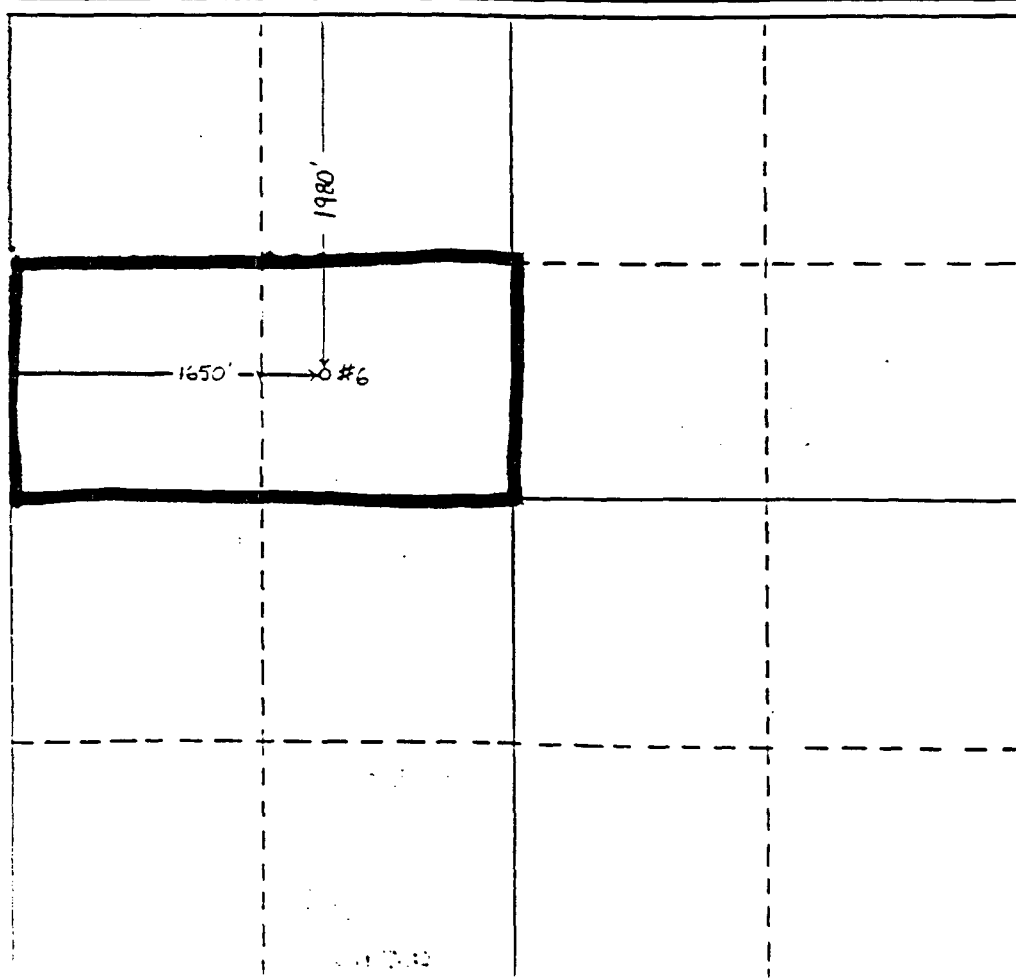
Operator Amoco Production Company			Lease State "G"		Well No. 6
Unit Letter F	Section 33	Township 18 South	Range 38 East	County Lea	
Actual Footage Location of Well:					
1980 feet from the North line and		1650 feet from the West line			
Ground Level Elev. 3660' RDB	Producing Formation Lower Blinberry	Pool Hobbs Lower Blinberry		Dedicated Acreage 80	

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 Commission.



CERTIFICATION

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

Name **H. J. Black**

Position **S&F. Admin. Analyst**

Company **Amoco Production Company**

Date **10-20-92**

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 _____

Registered Professional Engineer and/or Land Surveyor

Certificate No. _____

330 860 80 1920 1880 1840 2910 2940 2000 1500 1000 500 0



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



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

December 9, 1992

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Amoco Production Company
Attention: K. W. Brand
P.O. Box 3092
Houston, TX 77253-3092

Administrative Order NSL-3207

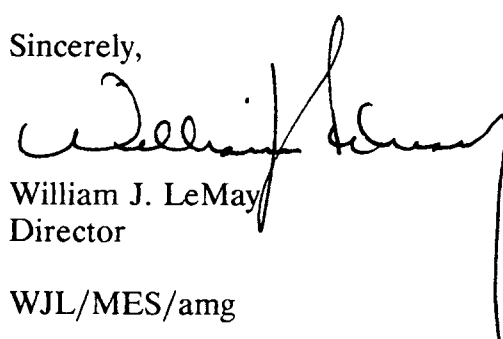
Dear Mr. Brand:

Reference is made to your application dated November 9, 1992 for a non-standard Hobbs Lower-Blinebry oil well location for your existing State "G" Well No. 6 which was drilled in 1969, ultimately drilled to a depth of 7041 feet and currently completed in the Hobbs Paddock Pool at a standard oil well location 1980 feet from the North line and 1650 feet from the West line (Unit F) of Section 33, Township 18 South, Range 38 East, NMPM, Lea County, New Mexico.

It is my understanding that the Paddock zone will be properly plugged back and said well will be recompleted to the Hobbs Lower-Blinebry Pool, which pursuant to the Special Rules and Regulations for the Hobbs Lower-Blinebry Pool as promulgated by Division Order No. R-9696, is unorthodox. Further, the S/2 NW/4 of said Section 33 shall be dedicated to the well forming a standard 80-acre oil spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 5 of said Division Order No. R-9696, the above-described unorthodox oil well location is hereby approved.

Sincerely,


William J. LeMay
Director

WJL/MES/amg

cc: Oil Conservation Division - Hobbs
NM State Land Office - Santa Fe

OFFSET OPERATORS

Amerada Hess Corporation
1201 Louisiana #700
Houston, Texas 77002

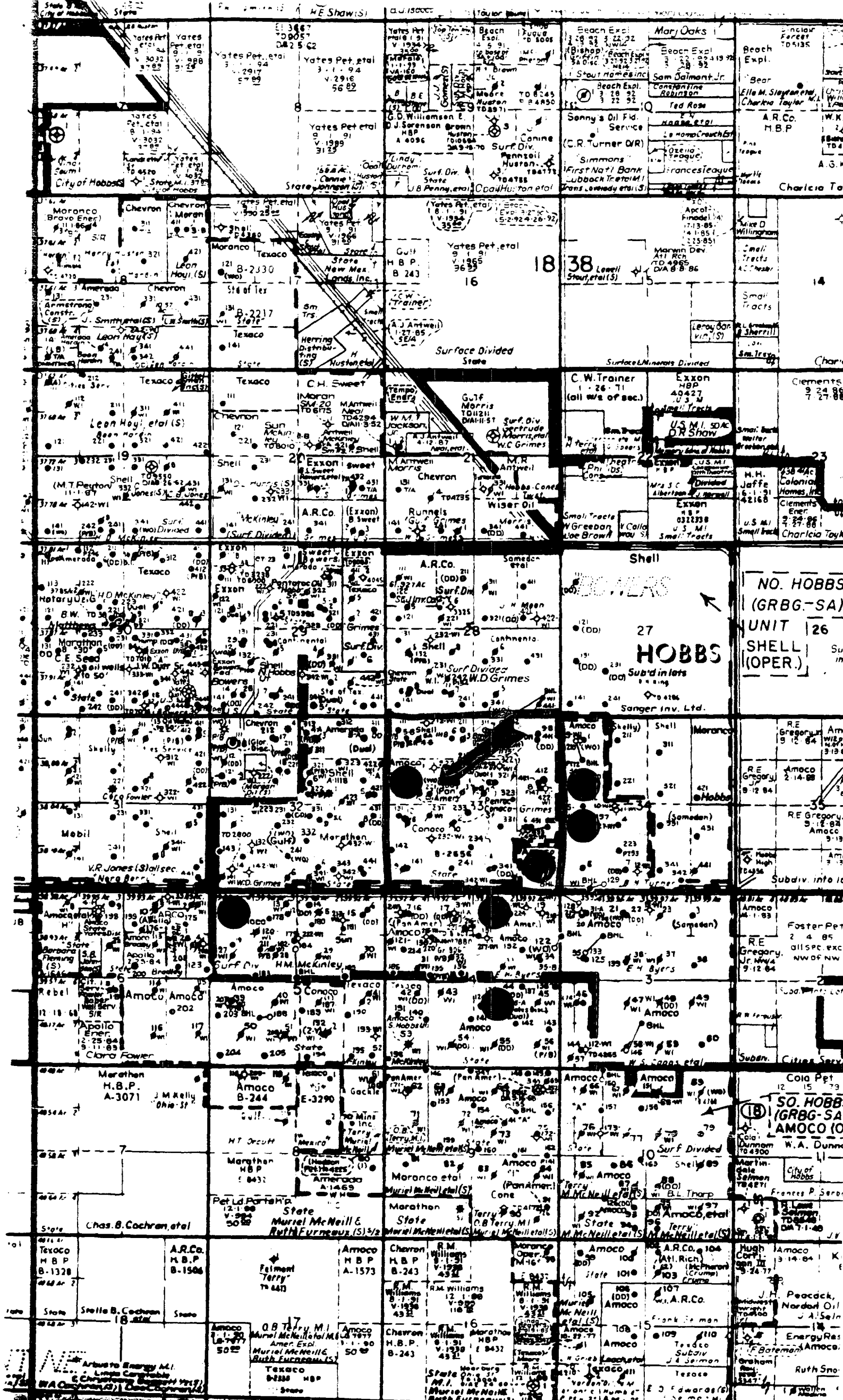
Chevron
P.O. Box 1150
Midland, Texas 79702

Conoco, Inc.
10 Desta Drive West
Midland, Texas 79705

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

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

Penroc Oil Corporation
P.O. Box 5970
Hobbs, New Mexico 88241



NO. HOBBS
(GRBG-SA)
UNIT 26
SHELL
(OPER.)

HOBBS

BOULERS

27

Subd in lots
Sanger Inv. Ltd.

A.R.Co.

Surf. Div.

W.D. Grimes

Exxon

Surf. Div.

W.D. Grimes

Texaco

Surf. Div.

W.D. Grimes

SO. HOBBS
(GRBG-SA)
AMOCO (O)

Surf. Div.

Surf. Div.

Surf. Div.

Surf. Div.

P 387 143 608

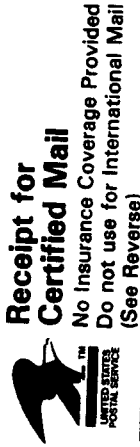


Shell Western E & P, Inc.
P.O. Box 576
Houston, Texas 77001-0576

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

P 387 143 610

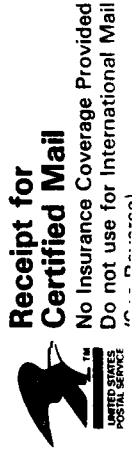


Chevron
P.O. Box 1150
Midland, Texas 79702

Postage	\$
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Restricted Delivery Fee	
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TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

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Amerada Hess Corporation
1201 Louisiana #700
Houston, Texas 77002

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Restricted Delivery Fee	
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TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

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**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

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

Postage	\$
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Restricted Delivery Fee	
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TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, June 1991

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**Receipt for
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Do not use for International Mail
(See Reverse)

Penroc Oil Corporation
P.O. Box 5970
Hobbs, New Mexico 88241

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Restricted Delivery Fee	
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TOTAL Postage & Fees	\$
Postmark or Date	

orm 3800, June 1991

P 387 143 609



**Receipt for
Certified Mail**

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Conoco, Inc.
10 Desta Drive West
Midland, Texas 79705

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Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

S Form 3800, June 1991



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

OIL CONSERVATION DIVISION
RECEIVED
'93 FEB 26 AM 9 42

2-22-93

BRUCE KING
GOVERNOR

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

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

RE: Proposed:

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

Gentlemen:

I have examined the application for the:

Ameco Production Co. State L #6-F 33-18-38
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/ed