

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
N.M. Oil Cons. Division
1625 N. French Dr.
PO BOX 88240
ALBUQUERQUE, NM 87168

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
CONOCO INC
CONOCO INC.

3. Address and Telephone No.
10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424

4. Location of Well (Footage, Sec., T. R. M. or Survey Description)
Section 30, T-20-S, R-38-E, L
1650' FSL & 450' FWL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
LC 031695A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
SEMU #134

9. API Well No.
30-025-34382

10. Field and Pool, or Subsurface Area/
North Hardy Tubb Drinkard/
North Hardy Strawn

11. County or Parish, State

Lea Co., NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Repon
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Downhole Commingle
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracrunng
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

Note: Repon results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Conoco, Inc. proposes to downhole commingle the Strawn and Tubb in this well upon recompletion of Tubb and approval of attached C-107A application.

14. I hereby certify that the foregoing is true and correct

Signed Kay Maddox Title -Regulatory Agent

Date 1/28/2000

(This space for Federal or State office use)
(ORIG. SGD.) ALEXIS C. SWOBODA

Approved by PETROLEUM ENGINEER Title PETROLEUM ENGINEER

Date FEB 6, 2000

BLM(6), NMOCD(1), SHEAR, PONCA, COST ASST, FILE ROOM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241 1980

DISTRICT II
811 South First St. Artesia NM 88210 2835

DISTRICT III
1001 N. 10th St. Aztec, NM 87410 1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-8429

Form C-107-A
New 3-12-98

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc.

10 Desta Dr. Ste 100W, Midland, Tx. 79705-4500

SEMU

#134

Section 30, T-20-S, R-38-E, L

Lea

Lease

Well No

Unit Ltr Sec 12p Rgs

County

OGRIID NO 005073

Property Code

013492

API NO.

30-025-34382

Spacing Unit Lease Types (check 1 or more)

Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	North Hardy Tubbs Drinkard 96356		North Hardy Strawn 96893
2. TOP and Bottom of Pay Section (Perforations)	6350-6550'		7546-7654'
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	2470		2500
Gas Zones - Flowing: Measured Current	b. (Original)	b.	
Estimated Or Measured Original	2470		3200
6. Oil Gravity ("API) or Gas BT Content	38.7		42
7. Producing or Shut-In?	To be completed		Producing
8. Production Marginal? (yes or no)	Expected yes		Yes
• If Shut-In give date and oil/gas/ water rates of last production	Date Rates	Date Rates	Date Rates
Note: For new zones with no production history applicant shall be required to attach production estimates and supporting data.			
• If Producing, date and oil/gas/ water rates of recent test (within 60 days)	Date Rates	Date Rates	Date Rates
	Anticipated 100 BOPD, 425 MCFD, 0 BWPD Allocation based on subtraction. See chart		1/12/00 87 BOPD, 158 MCFD, 0 BWPD
9. Allocation Formula - % for each zone	oil % Gas %	oil % Gas %	oil % Gas %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No

11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each others ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S) _____

16. ATTACHMENTS

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of all offset operators.
- Notification list of working, overriding and royalty interests for uncommon interest cases.
- Any additional statements, data, or documents required to support commingling.

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

SIGNATURE

Kay Maddox

TITLE Regulatory Agent

DATE

1/28/2000

TYPE OR PRINT NAME Kay Maddox

TELEPHONE NO.

(915) 686-5798

SEMUNo.134

Strawn

OIL DECLINE (%/YR)

OIL LOSS RATIO

GAS DECLINE (%/YR)

GAS LOSS RATIO

RESERVES (MBO)

INITIAL RATE (BOPD)

NO MONTHS 1ST YEAR

GOR (MCF/BO)

ECON LIMIT (BOPD)

Initial Rate BOPD

Month/Year

Sand

DECLINE CONSTANT

EFFECTIVE CONSTANT

Final Rate BOPD

6 Month Accumulation BBls

Cumulative BBls

Initial Rate MCFD

DECLINE CONSTANT

Final Rate MCFD

6 Month Accumulation MCF

Cumulative MCF

6-month AVG BOPD

6-month AVG MCFD

GC

Downhole Commingle

Subtraction Method

SEMUNo.134

Strawn

0.89

0.41

0.89

0.41

MMCFG

MCFGPD

66

161

0.89

0.41

0.89

0.41

0.59

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15261

15858

10152

6499

4161

2664

1705

1092

699

447

286

183

117

75

15261

31119

41271

47770

51930

54594

56299

57391

58090

58537

58823

59007

59124

59199

161

120

77

49

31

20

13

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65497

65628

65711

125

87

56

36

23

15

9

6

4

2

2

1

1

1

0

139

97

62

40

25

16

10

7

4

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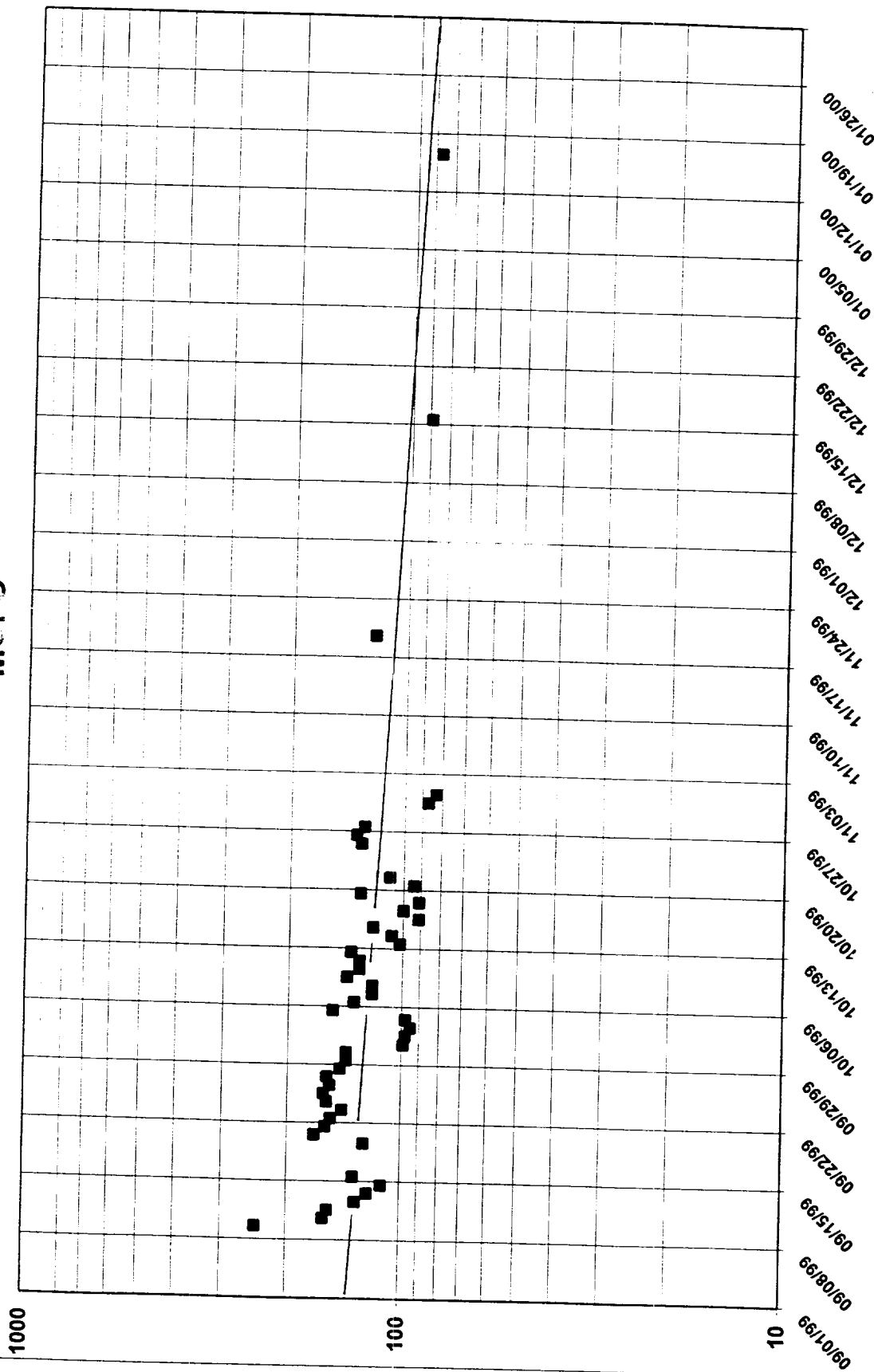
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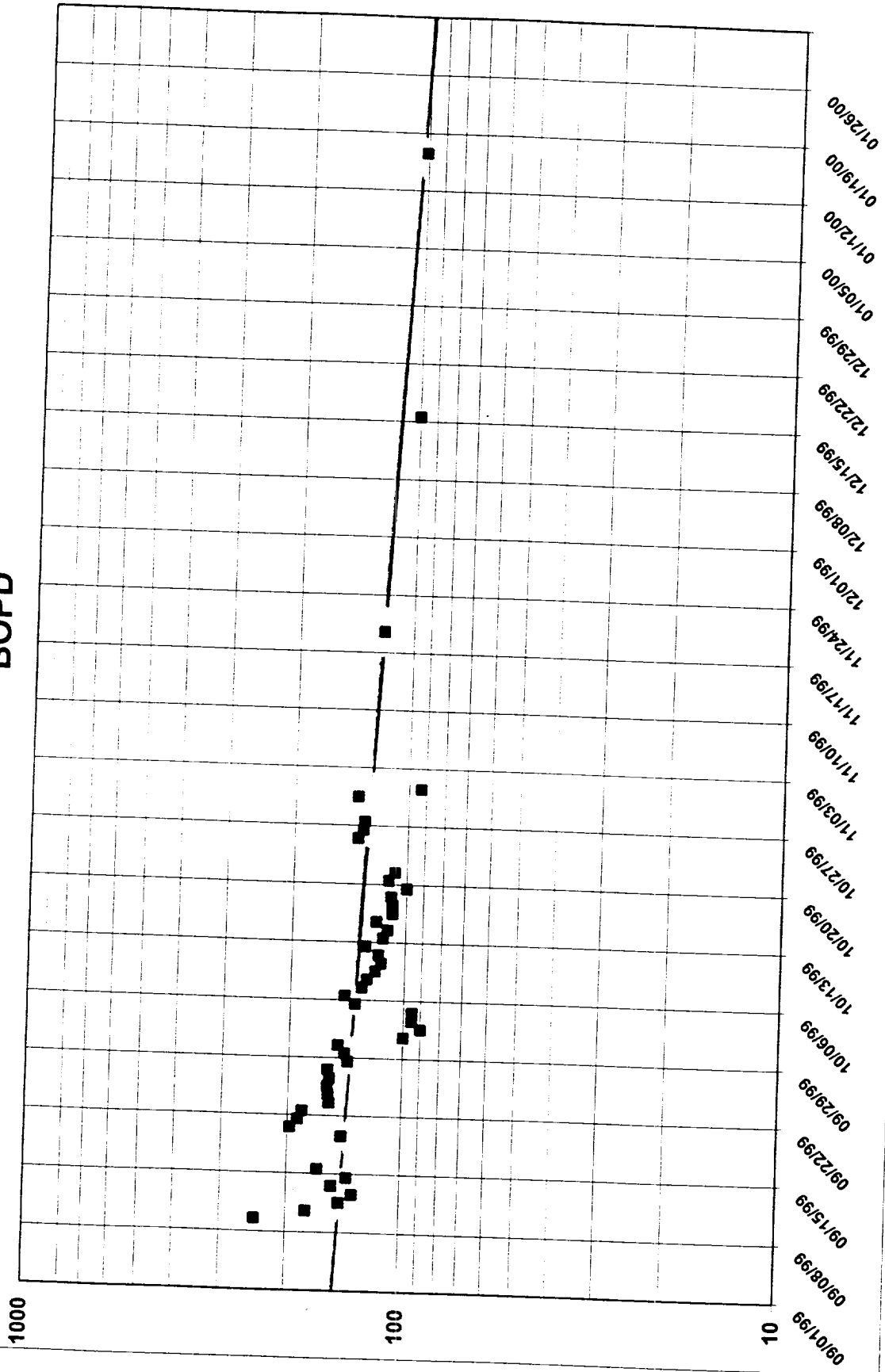
Semu Strawn #104 Production MCFD



$$\text{Nominal Decline Factor } (\alpha) = \ln \left[\frac{130 \text{ MCFD}}{90 \text{ MCFD}} \right] \left[\frac{12 \text{ months}}{5 \text{ months}} \right] = 0.883$$

$$\text{Annual Effective } (D) = 1 - e^{-0.883} = 0.59$$

Semu Strawn #134 Production BOPD



$$\text{Nominal Decline Factor (a)} = \ln \left[\frac{145 \text{ BOPD}}{100 \text{ BOPD}} \right] \left[\frac{12 \text{ months}}{5 \text{ months}} \right] = 0.892$$

$$\text{Annual Effective (D)} = 1 - e^{-0.892} = \underline{\underline{0.59}}$$

District IV
PO Box 2088, Santa Fe. NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-10:

Revised February 21, 1999
instructions on back

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 Well Location		2 Pool Code		3 Pool Name	
30-025-34382		96356		North Hardy Tubb Drinkard	
4 Property Code		5 Property Name			6 Well Number
013492		SEMU			# 134
7 OGRID No		8 Operator Name			9 Elevation
005073		Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500			3511'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	30	20S	38E		1650'	South	450'	West	Lea

11 Bottom Hole Location If Different From Surface

If Bottom Hole Location is Different From Surface									
Drilling No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code		15 Order No.					
40				NSL Ord. # 2054					

NSL Order # 3854

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16

450'

1,050'

O

17 OPERATOR CERTIFICATION

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

Kay Maddox
Signature Kay Maddox

Printed Name _____
Regulatory Agent _____

Title _____
January 12, 2000

Date _____

18 SURVEYOR CERTIFICATION

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 belief.

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

District I
PO Box 1980, Hobbs, NM 88241-198

District II
PO Drawer DD, Artesia, NM 88211-071

District III
1000 Rio Brazos Rd. Aztec, NM 8741

District IV
PO Box 2088, Santa Fe, NM 87504-208

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-10

Revised February 21, 1995
Instructions on back

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☒ AMENDED REPORT

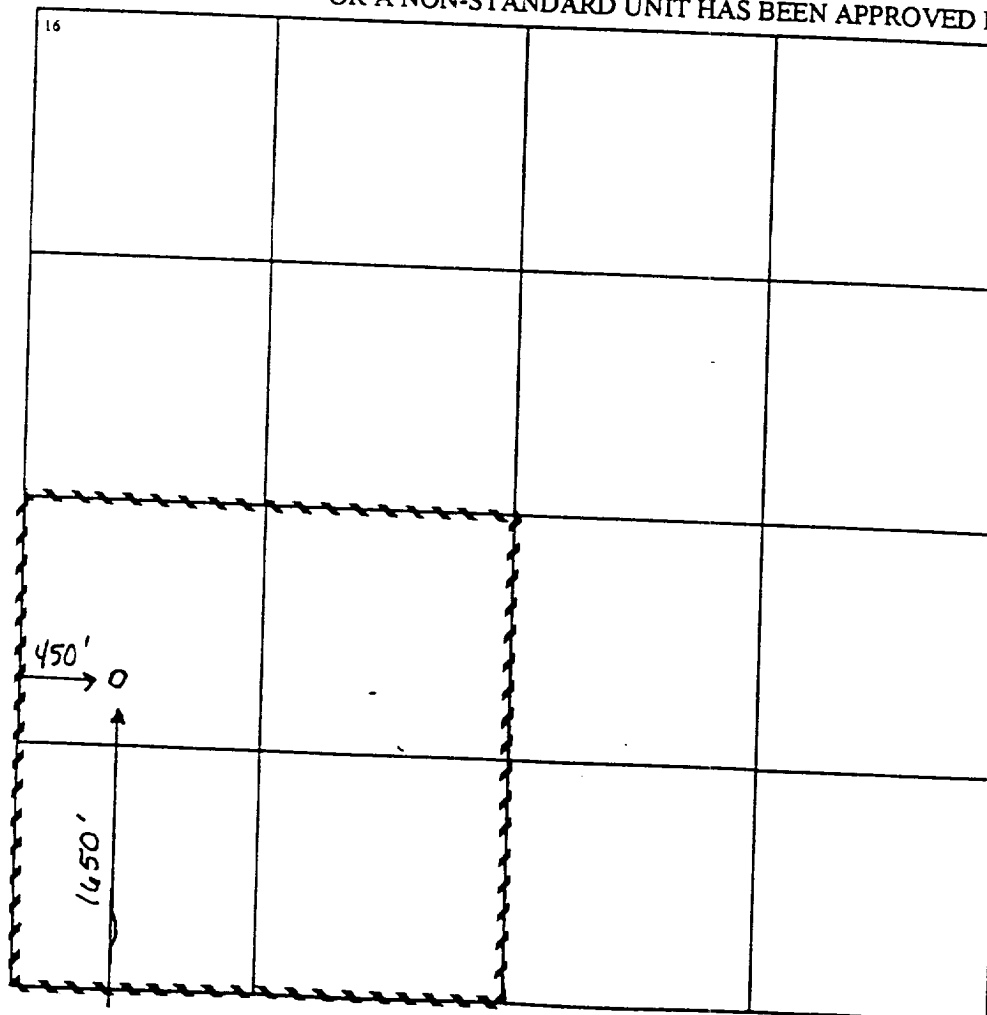
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34382		2 Pool Code 96893		3 Pool Name North Hardy Strawn	
4 Property Code 13492		5 Property Name SEMU			
7 OGRID No. 005073		8 Operator Name Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500			
				6 Well Number # 134	
				9 Elevation 5511'	

10 Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	30	20S	38E		1650'	South	450'	West	Lea

11 Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres 160		13 Joint or Infill		14 Consolidation Code		15 Order No. NSL # 4332			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

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

Kay Maddox
Signature
Kay Maddox
Printed Name

Regulatory Agent
Title

July 20, 1999
Date

18 SURVEYOR CERTIFICATION

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 belief.

Date of Survey
Signature and Seal of Professional Surveyor:

Certificate Number

Downhole Commingle Application C-107A

SEMU # 134
Section 30, T-20-S, R-38-E, L
1650' FSL & 450' FWL
API # 30-025-34382
Lea County, NM

Offset Operator Notification:

Conoco, Inc. is the only offset operator