

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised March 17, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Sonat Raton, L.L. C. P.O. Box 190 Raton, NM 87740		² OGRID Number 180514
		³ API Number 30 - 007-20095
³ Property Code 25179	⁵ Property Name Vermejo Park Ranch	⁶ Well No. VPR D-18 (Formerly Castle Rock Q)

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	31	31N	18E		747'	FSL	990'	FWL	Colfax

⁸ Proposed 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

⁹ Proposed Pool 1 Vermejo	¹⁰ Proposed Pool 2 Raton
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¹¹ Work Type Code E	¹² Well Type Code G	¹³ Cable/Rotary Completion Rig	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 8568' (GL)
¹⁶ Multiple No	¹⁷ Proposed Depth 2165'	¹⁸ Formation Vermejo	¹⁹ Contractor Not Available	²⁰ Spud Date January 7, 2000

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
11"	8 5/8"	24#	330'	178 sx.	
7 7/8"	5 1/2"	17#	2033'	343 sx.	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

- RU completion rig. Install BOP, PU and RIH with 4 3/4" bit on 2 7/8" tubing.
- Drill out surface plug 0' to 50' and CIBP's at 1535' and 1774'. Reverse circulate clean with fresh or clean produced water to PBTD at 2001'.
- Perforate and frac according to Raton/Houston offices.
- Clean out to bottom and reverse circulate clean.
- RIH with pumping equipment and place on test.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: *DR Lankford*

Printed name: Donald R. Lankford

Title: Senior Petroleum Engineer

Date: 12/20/99

Phone: (505) 445-4620

OIL CONSERVATION DIVISION

Approved by:

Title: **DISTRICT SUPERVISOR**

Approval Date: **12/27/99**

Expiration Date: **12/27/00**

Conditions of Approval:

Attached ☐

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1240, Hobbs, NM 88240

OIL CONSERVATION DIVISION
P.O. Box 2033

Santa Fe, New Mexico 87504-2033

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

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

WELL API NO.
30-007-20095

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name
Castle Rock Park 3118

1. Type of Well:
OIL WELL ☐ GAS WELL ☐ OTHER Coal Methane

2. Name of Operator
Pennzoil Exploration & Production Company

8. Well No.
311-M

3. Address of Operator
P.O. Box 2967, Houston, TX 77252

9. Pool name or Wildcat
Wildcat

4. Well Location
Unit Letter M : 747 Feet From The South Line and 990 Feet From The West Line
Section 31 Township 31N Range 18E NMPM Colfax County
10. Elevation (Show whether DF, RKB, RT, GR, etc.)
8568 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☒
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

8/26/91 Start of work.

1. Remove surface equipment, pull rods and tubing.
2. Set CIBP @ 1774' w/2 sks (18') class A @ 15.6 ppg.
3. Set CIBP @ 1535" w/12 sks (108') class A @ 15.6 ppg. Fall to surface w/9.2ppg Gel mud.
4. Place 6 sks (50') surface plug w/class A @ 15.6 ppg.
5. Place well marker, fill pits, remove junk and debris from location.
6. Casing left in well: 44.5' of 11 3/4", 42 lb/ft set @ 44.5'
330' of 8 5/8", 24 lb/ft set @ 330'
2033' of 5 1/2", 17 lb/ft set @ 2033'

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

SIGNATURE L. D. Williamson TITLE Operations Superintendent DATE 9/5/91

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. 376-2817

(This space for State Use)

APPROVED BY R. E. Johnson DISTRICT SUPERVISOR DATE 9-20-91

CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1960, 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

WELL API NO. 30-007-20095
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Castle Rock Park 3118
8. Well No. 311-M
9. Pool name or Wildcat Wildcat
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 8568 Gr

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL ☐ GAS WELL ☐ OTHER Coal Methane	
2. Name of Operator Pennzoil EXploration & Production Company	
3. Address of Operator P.O. Box 2967, Houston, TX 77252	
4. Well Location Unit Letter <u>M</u> : <u>747</u> Feet From The <u>South</u> Line and <u>990</u> Feet From The <u>West</u> Line Section <u>31</u> Township <u>31N</u> Range <u>18E</u> NMPM Colfax County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 8568 Gr	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☐
	OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

9/02/91 Estimated start of work.

1. Remove surface equipment, pull rods and tubing.
2. Set CIBP @ 1774' with 2 sks (18') class A @ 15.6 ppg.
3. Set CIBP @ 1530' with 12 sks (108') class A @ 15.6 ppg. Fill to surface with Gel mud.
4. Place 6 sks (50') surface plug with class A @ 15.6 ppg.
5. Place well marker, fill pits, remove junk and debris from location.

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

SIGNATURE L. D. Williamson TITLE Operations Superintendent DATE 7/09/91

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. 376-2817

(This space for State Use)

APPROVED BY R. E. Johnson DISTRICT SUPERVISOR DATE 7-10-91

CONDITIONS OF APPROVAL, IF ANY:

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

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-105

Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL API NO.

30-007-20095

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well:
OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER Coal Methane

b. Type of Completion:
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐

2. Name of Operator

Pennzoil Exploration & Production Company

3. Address of Operator

P.O. Box 2967, Houston, TX 77252

4. Well Location

Unit Letter M : 747 Feet From The South Line and 990 Feet From The West Line

Section 31 Township 31 N Range 18 E NMPM Colfax County

10. Date Spudded

6/12/90

11. Date T.D. Reached

7/15/90

12. Date Compl. (Ready to Prod.)

6/28/90

13. Elevations (DF & RKB, RT, GR, etc.)

8568 GR

14. Elev. Casinghead

8570 GR

15. Total Depth

2065

16. Plug Back T.D.

2001

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

0-2065

Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name

1794-1900 Coal

20. Was Directional Survey Made

Yes

21. Type Electric and Other Logs Run

Directional

Mud Log, CBL, Dual Induction, Gamma, Neutron, Density

22. Was Well Cored

Yes

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
11 3/4	42	44.5	14 3/4	64 sks	0
8 5/8	24	330	11	178 sks	0
5 1/2	17	2033	7 7/8	343 sks	0

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

25. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	1958	NA

26. Perforation record (interval, size, and number)

1794

1893-1900

1823

2-.44" SPF

1846-1848

1866-1868

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL

AMOUNT AND KIND MATERIAL USED

1794-1900

205,000 sand

1794-1900

800 gals. acid

28. PRODUCTION

Date First Production

6/29/90

Production Method (Flowing, gas lift, pumping - Size and type pump)
Pumping

Well Status (Prod. or Shut-in)
Producing

Date of Test

7/23/90

Hours Tested

24

Choke Size

NA

Prod'n For

Test Period

Oil - Bbl.

0

Gas - MCF

390

Water - Bbl.

342

Gas - Oil Ratio

NA

Flow Tubing Press.

NA

Casing Pressure

30

Calculated 24-

Hour Rate

Oil - Bbl.

0

Gas - MCF

390

Water - Bbl.

342

Oil Gravity - API - (Corr.)

NA

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Flared

Test Witnessed By

30. List Attachments

Log previously submitted

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature

Printed L. D. Williamson

Name

Operations

Title Superintendent Date 7/25/90

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-87

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

WELL API NO.

30-007-20095

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☐

GAS
WELL ☐

OTHER Coal Methane

2. Name of Operator

Pennzoil Exploration and Production Company

3. Address of Operator

P.O. Box 2967, Houston, TX 77252

4. Well Location

Unit Letter M : 747 Feet From The South Line and 990 Feet From The West Line

Section 31

Township 31N

Range 18E

NMPM

Colfax

County

10. Elevation (Show whether DP, RKB, RT, GR, etc.)

8568 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☒ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☒

OTHER: Drilling completed ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

6-12 Spud. Drill 14 3/4" hole to 44.5'. Set and cement 2 jts (44.5') 11 3/4", 42 lb. H-40, ST&C conductor w/64 sks class G w/3% CaCl @ 15.8 ppg.

6-13 Drilled 11" hole to 335'. Set and cement 12 jts (330') 8 5/8", 24 lb. J-55, ST&C casing w/178 sks class G w/2% CaCl and 1/4 lb sk flocele @ 15.8 ppg. Cement to surface. Bumped plug w/500 psi.

6-28 Test casing and BOP w/600 psi for 30 mins. No pressure drop.

7-13 Drill 7 7/8" hole to 2065'. (Multiple rig problems.)

7-15 Set and cement 76 jts (2033.3') 5 1/2", 17 lb. J-55, LT&C casing w/343 sks @ 11 ppg. Cement to surface. Bumped plug w/1000 psi. Shut down waiting on completion equipment.

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

SIGNATURE L. D. Williamson TITLE Operations Superintendent DATE 7-21-89

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. 505-376-2817

(This space for State Use)

APPROVED BY R. E. Johnson TITLE DISTRICT SUPERVISOR DATE 7-25-89

CONDITIONS OF APPROVAL, IF ANY:

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

State of New Mexico
Er 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

RECEIVED Santa Fe, New Mexico 87504-2088

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

JUN 12 1989

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

API NO. (assigned by OCD on New Wells)

30-007-20095

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

coal methane

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

Castle Rock Park
3118

2. Name of Operator

Pennzoil Exploration and Production Company

8. Well No.

311M

3. Address of Operator

P.O. Box 2967, Houston, TX 77252

9. Pool name or Wildcat

wildcat

4. Well Location

Unit Letter M : 747 Feet From The south Line and 990 Feet From The west Line

Section 31 Township 31N Range 18E NMMP Colfax County

10. Proposed Depth
1900'

11. Formation
Vermejo

12. Rotary or C.T.
rotary

13. Elevations (Show whether DF, RT, GR, etc.)
8568 GR

14. Kind & Status Plug. Bond
blanket

15. Drilling Contractor
Finlev

16. Approx. Date Work will start
7/10/89

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	24	350	175	surface
7-7/8	5-1/2	17	1900	310	surface

1. Drill 12-1/4" hole to 350' with air.
2. Set 8-5/8" casing and cement to surface.
3. Drill 7-7/8" hole to TD w/mid.
4. Set 5-1/2" casing to 1900' and cement to surface.

APPROVAL VALID FOR 90 DAYS
PERMIT # 9-7-89
UNLESS DRILLING UNDERWAY

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

TITLE

Project Manager

DATE 6/6/89

713

TYPE OR PRINT NAME R.D. Ousterhout

TELEPHONE NO 546-4774

(This space for State Use)

DISTRICT SUPERVISOR

APPROVED BY

TITLE

DATE

6-7-89

CONDITIONS OF APPROVAL, IF ANY

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLATForm C-102
Supersedes C-128
Effective 1-1-85

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

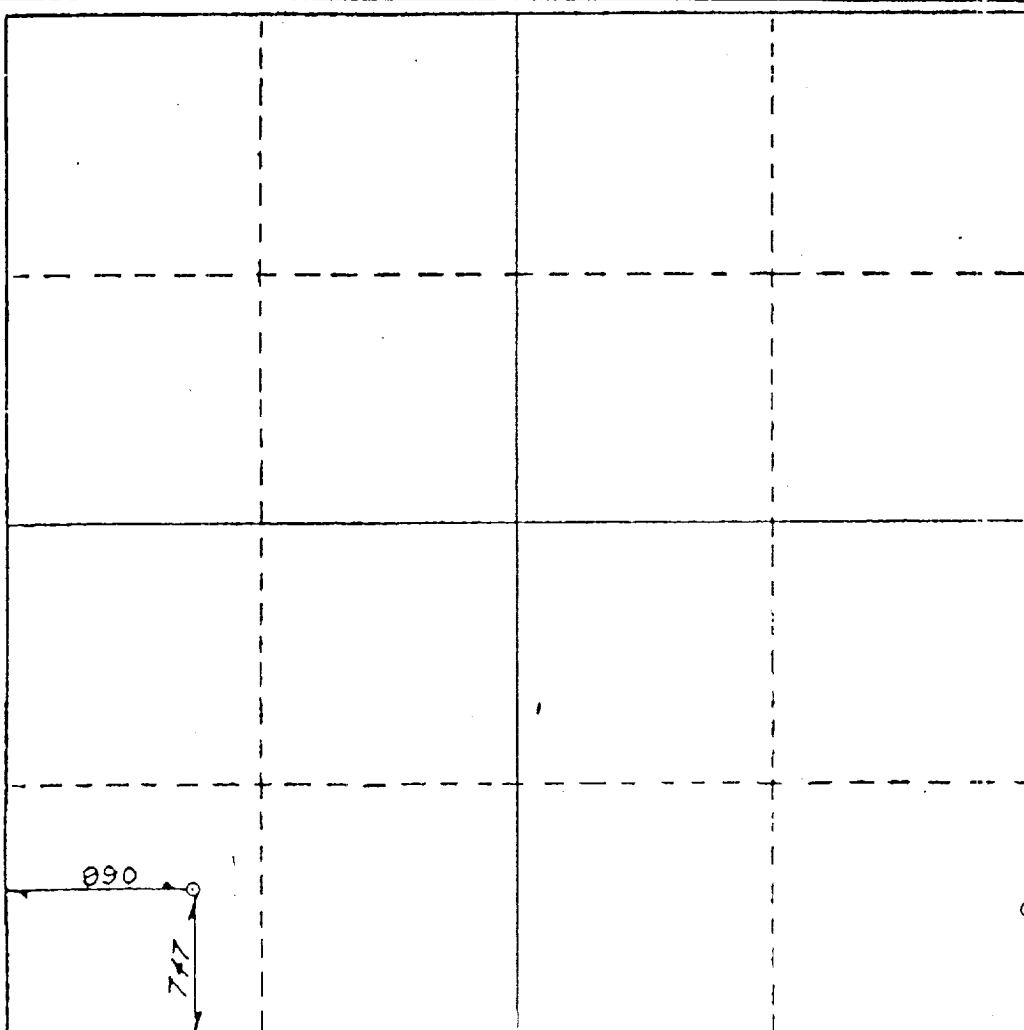
Operator Pennzoil Exploration & Production Co.		Lease Castle Rock Park		Well No. 311M
Unit Letter M	Section 31	Township T31N	Range R18E	County COLFAX
Actual Footage Location of Well: 747 feet from the SOUTH line and 990 feet from the WEST line				
Ground Level Elev. 8568	Producing Formation Vermejo	Pool	Dedicated Acreage: 320 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 Commission.



CERTIFICATION

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

Name
R. D. OsterhoutPosition
Project ManagerCompany
PEPCODate
June 6, 1989

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.

JUNE 6 1989

Date Signed

Required Professional Engineer and/or Land Surveyor

N. M. L. S. NO. 5103

Certificate No. 5103

E. SKIFF