

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

Oil Conservation Division

2040 South Pacheco

Santa Fe, NM 87505

Form C-101

Revised March 17, 1999

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 - 007-20106
⁴ Property Code 24640 25179	⁵ Property Name Vermejo Park Ranch	⁶ Well No. VPR D-21 (Formerly Castle Rock 90-3)

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
I	32	31N	18E		1950'	FSL	1195'	FEL	Colfax

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County

⁹ Proposed Pool 1**Vermejo**¹⁰ Proposed Pool 2**Raton**

¹¹ Work Type Code E	¹² Well Type Code G	¹³ Cable/Rotary Completion Rig Vermejo	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 8593 (GL)
¹⁶ Multiple No	¹⁷ Proposed Depth 2121'	¹⁸ Formation/Vermejo 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
12 1/4"	8 5/8"	24#	329'	215 SX.	
7 7/8"	5 1/2"	17#	1988'	265 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.

1. RU completion rig. Install BOP. PU and RIH with 4 3/4" bit on 2 7/8" tubing.
2. Drill out surface plug 0' to 50' and CIBP at 1528'. Reverse circulate clean with fresh or clean produced water to PBTD at 1945'.
3. Perforate and frac according to Raton/Houston offices.
4. Clean out to bottom and reverse circulate clean.
5. 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: *R. E. Johnson*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
Bureau of Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

DISTRICT I
P.O. Box 1940, Hobbs, NM 88240

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

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

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

WELL API NO.
30-007-20106

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 3118

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

2. Name of Operator
Pennzoil Exploration & Production Company

8. Well No.
321-I

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

9. Pool name or Wildcat
Wildcat

4. Well Location
Unit Letter I : 1195 Feet From The East Line to 1950 Feet From The South Line

Section 32 Township 31 N Range 18 E NMPM Colfax County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
8593 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.

8/22/91 Start of work.

1. Remove surface equipment, pull rods and tubing.
2. Set CIBP @ 1528' w/12 sks (108') class A @ 15.6 ppg.
3. Fill to surface w/9.2 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: 22' of 13 3/8 set @ 22',
329' of 8 5/8, 24 lb/ft set @ 329',
1988' of 5 1/2", 17 lb/ft set @ 1938'.

I hereby certify that the information above is true and accurate 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

CONDITIONS OF APPROVAL, IF ANY:

TITLE DATE 9-20-91

90-3

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 1930, 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. 30-007-20106	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Castle Rock 3118	
8. Well No. 321-I	
9. Pool name or Wildcat Wildcat	

<p align="center">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.)</p>	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> 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>I</u> : <u>1195</u> Feet From The <u>East</u> Line and <u>1950</u> Feet From The <u>South</u> Line Section <u>32</u> Township <u>31N</u> Range <u>18E</u> NMPM Colfax County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) <u>8593 GR</u>	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER: <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/> CASING TEST AND CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>	
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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-Estimated start of work.

1. Remove surface equipment, pull rods and tubing.
2. Set CIBP @ 1535' with 12 sks (108') class A @ 15.6 ppg.
3. 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

(space for State Use)

Ry E Johnson
- ADV -

DISTRICT SUPERVISOR DATE 7-10-91

90-3
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
Department of Minerals and Natural Resources

OIL CONSERVATION DIVISION

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

Form C-105
Revised 1-1-89

WELL AP NO.	30-007-20106
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
Castle Rock
3118

8. Well No.

321 I

9. Pool name or Wildcat

Wildcat

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 I: 1195 Feet From The East Line and 1950 Feet From The South Line

Section 32 Township 31 N Range 18 E NMPM Colfax County

10. Date Spudded 5/01/90	11. Date T.D. Reached 5/04/90	12. Date Compl. (Ready to Prod.) 6/28/90	13. Elevations (DF & RKB, RT, GR, etc.) 8593 GR	14. Elev. Casinghead 8595 GR
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15. Total Depth 2121	16. Plug Back T.D. 1945	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools 0-2121	Cable Tools
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19. Producing Interval(s), of this completion - Top, Bottom, Name
1554-1837 Coal

20. Was Directional Survey Made
Yes

21. Type Electric and Other Logs Run
Mud Log, CBL, Dual Induction, Gamma, Neutron, Density

Directional

22. Was Well Cored
No

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

CASING SIZE	WEIGHT LB/FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8		22	14 1/4	Ready Mix	0
8 5/8	24	329	12 1/4	215 sks class G	0
5 1/2	17	1988	7 7/8	265 sks silicalite	0

24. LINER RECORD					25. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	1903	NA

26. Perforation record (interval, size, and number)			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.			
1725-26	1830		DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED		
1762-63	1833-37		1725-1837	800 gals acid/205,000 sand		
1765-66	1554-61	2-.44" SPF	1554-1664	750 gals acid/138,000 sand		
1803-04	1603-64					

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 7/24/90	Hours Tested 24	Choke Size NA	Prod'n For Test Period	Oil - Bbl. 0	Gas - MCF 28	Water - Bbl. 379	Gas - Oil Ratio NA	
Flow Tubing Press. NA	Casing Pressure 12	Calculated 24-Hour Rate	Oil - Bbl. 0	Gas - MCF 28	Water - Bbl. #&C	Oil Gravity - API - (Corr.) NA		

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

Test Witnessed By

30. List Attachments
Logs 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 L. D. Williamson Printed Name L. D. Williamson Title Operations Supt. 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 1-1-82

DISTRICT I
P.O. Box 1780, Hobbs, NM 88240

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

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

OIL CONSERVATION DIVISION
P.O. Box 2083
Santa Fe, New Mexico 87504-2083

WELL API NO.
30-007-20106

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 3118

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

2. Name of Operator
Pennzoil Exploration & Production Company

8. Well No.
321 I

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

9. Pool name or Wildcat
Wildcat

4. Well Location
Unit Letter I : 1195 Feet From The East Line and 1950 Feet From The South Line

Section 32 Township 31 N Range 18 E NMPM Colfax County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
8593 GR

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK: ☐
TEMPORARILY ABANDON ☐
PULL OR ALTER CASING ☐
OTHER: ☐

PLUG AND ABANDON ☐
CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐
COMMENCE DRILLING OPNS. ☐
CASING TEST AND CEMENT JOB ☐
OTHER: Drilling completed ☒

ALTERING CASING ☐
PLUG AND ABANDONMENT ☐

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.

5/1/90 Spud. Drill 14 1/4" hole to 22 ft. Set 13 3/8" conductor.
5/2/90 Drill 12 1/4" hole to 330'. Set and cement 12 jts (329') 8 5/8", 24 lb, J-55, st&c casing w/215 sks class G w/3% CaCl @ 15.8 ppg. Bump plug w/500 psi @ 0330.
5/3/90 Test casing and BOP w/500 psi for 30 min. No pressure drop.
5/4/90 Drill 7 7/8" hole to TD @ 2121'. Load hole with mud & log.
5/5/90 Set and cement 52 jts (1988') 5 1/2, 17 lb, J-55, lt&c casing w/265 sks silicalite @ 11.5 ppg. Returns to surface. Bump plug w/1100 psi @ 2100 hrs. Well shut in waiting on completion.

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 5/14/90

TYPE OR PRINT NAME L. D. Williamson

TELEPHONE NO. 505-376-2817

(This space for State Use)

APPROVED BY R. E. Johnson DISTRICT SUPERVISOR DATE 5-15-90

CONDITIONS OF APPROVAL, IF ANY:

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)

30-007-20106

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 <input checked="" type="checkbox"/> RE-ENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		7. Lease Name or Unit Agreement Name Castle Rock 3118			
b. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Coal Methane <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		8. Well No. 321 I			
2. Name of Operator Pennzoil Exploration & Production Company		9. Pool name or Wildcat Wildcat			
3. Address of Operator P.O. Box 2967, Houston, TX 77252					
4. Well Location Unit Letter I : 1195 Feet From The East Line and 1950 Feet From The South Line Section 32 Township 31 N Range 18 E NMPM Colfax County					
10. Proposed Depth 1850		11. Formation Vermejo			
12. Rotary or C.T. Rotary					
13. Elevations (Show whether DI, RT, GR, etc.) 8593 GR		14. Kind & Status Plug Bond Blanket			
15. Drilling Contractor Finley		16. Approx. Date Work will start 5/1/90			
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	300	175	Surface
7 7/8	5 1/2	17	1850	450	Surface

1. Drill 12 1/4" hole to 330' with air mist.
2. Set and cement 8 5/8" casing.
3. Log
4. Set and cement 5 1/2" casing with silicalite cement.

OIL CONSERVATION COMMISSION TO BE NOTIFIED
WITHIN 24 HOURS OF BEGINNING OPERATIONS

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 L. D. Williamson TITLE Operations Superintendent DATE 4/23/90

TYPE OR PRINT NAME L. D. Williamson

(505)
TELEPHONE NO. 376-2817

(This space for State Use)

APPROVED BY R. E. [Signature] TITLE DATE 4-24-90

CONDITIONS OF APPROVAL, IF ANY:

90
7-24-90

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-123
Effective 1-1-65

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

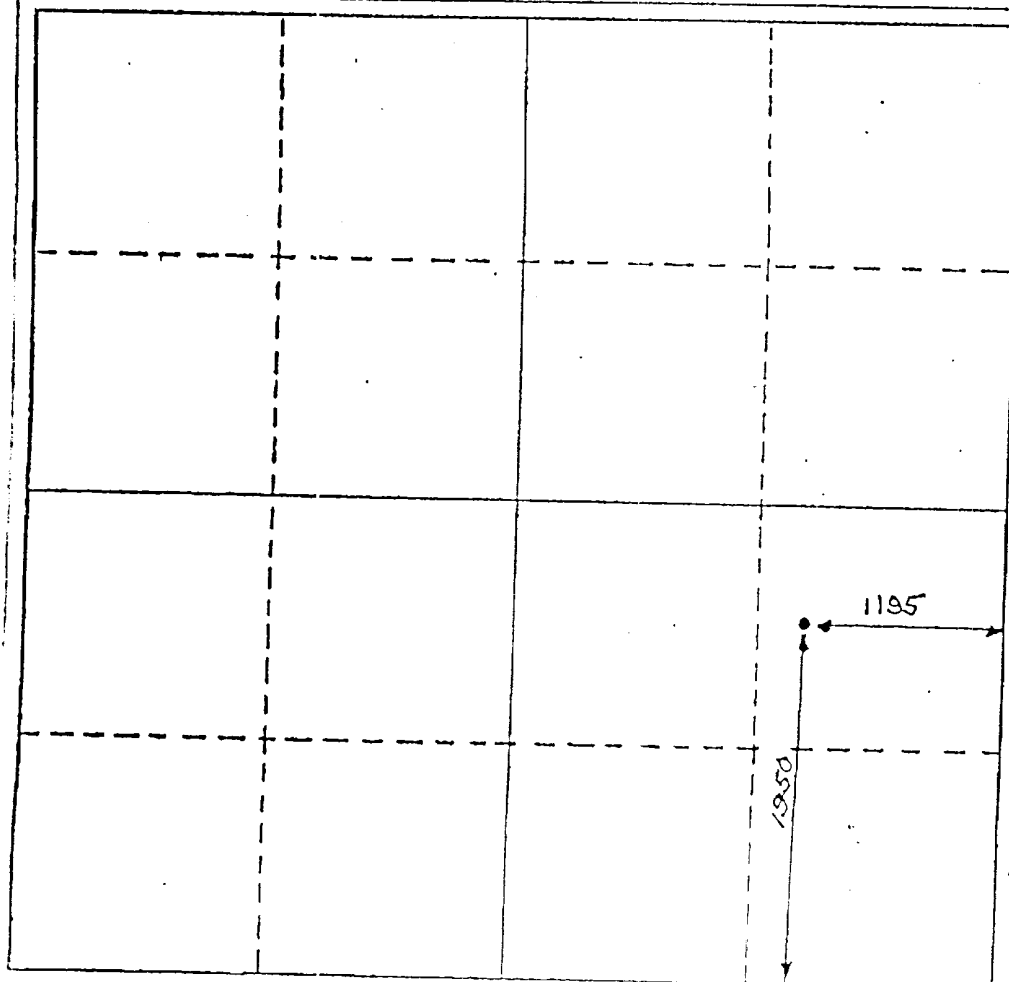
Operator Pennzoil Exploration & Production Co.		Lease Castle Rock		Well No. 321 I
Unit Letter I	Section 32	Township T31N	Range R18E	County COLFAX
Actual Footage Location of Well:				
1195 feet from the EAST line and		1950 feet from the SOUTH line		
Ground Level Elev. 8592.8	Producing Formation Vermejo	Pool Wildcat	Dedicated Acreage 320 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 Commission.



CERTIFICATION.

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

Name
L. D. Williamson
Position
Operations Superintendent
Company
PEPCO
Date
4/23/90

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.

APRIL 23 1990
Date Surveyed
Real Estate Professional Engineer and/or Land Surveyor
N.E. L. 5103
MEXICO
E. SHIELDS