



**NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT**

**OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131**

February 10, 2000

ARCO Permian  
P.O. Box 1610  
Midland, Texas 79702

Attention: Laurie Cherry

RE: C-142 Application for New Well Status  
Crooked Canyon Federal Well No. 1, API No. 30-015-30559  
Barclay Federal Well No. 25, API No. 30-015-30597  
Barclay Federal Well No. 11, API No. 30-015-30065

Dear Ms. Cherry:

Pursuant to Division Rule 34.C.(3), the deadline for filing for the New Well Tax Incentive is within sixty (60) days of completion of the well as a producer, therefore your application is hereby denied.

If you have any questions, please contact me at (505) 827-8183.

Sincerely,

A handwritten signature in black ink that reads "Mark Ashley".

Mark Ashley  
Petroleum Engineering Specialist

**District I** - (505) 393-6161  
1625 N. French Dr  
Hobbs, NM 88240  
**District II** - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
**District III** - (505) 334-6178  
1000 Rio Brazos Road  
Aztec, NM 87410  
**District IV** - (505) 827-7131  
2040 S. Pacheco  
Santa Fe, NM 87505

New Mexico  
Energy Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131



**SUBMIT ORIGINAL  
PLUS 2 COPIES  
TO THE SANTA FE  
OFFICE**

APPLICATION FOR NEW WELL STATUS

**I. Operator and Well**

Operator name & address ARCO Permian P. O. Box 1610 Midland, Texas 79702							OGRID Number 000990		
Contact Party LAURIE CHERRY							Phone 915-688-5532		
Property Name CROOKED CANYON FEDERAL					Well Number 1		API Number 30-015-30559		
UL I	Section 35	Township 20S	Range 21E	Feet From The 1650	North/South Line SOUTH	Feet From The 660	East/West Line EAST	County Eddy	

**II. Date/Time Information**

Spud Date 5-28-99	Spud Time	Date Completed 7-27-99	Pool LITTLE BOX CANYON MORROW
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III. Attach copies of Form C-103 or Federal Form 3160-5 showing date/time of drilling commenced and Form C-105 or Federal Form 3160-4 showing well was completed as a producer.

IV. Attach a list of all working interest owners with their percentage interests.

V. AFFIDAVIT:

State of TEXAS )  
County of MIDLAND ) ss.  
LAURIE CHERRY, being first duly sworn, upon oath states:

- I am the Operator, or authorized representative of the Operator, of the above-referenced well.
- To the best of my knowledge, this application is complete and correct.

Signature Laurie Cherry Title Reg./Comp. Asst. Date 1-26-00

SUBSCRIBED AND SWORN TO before me this 26 day of JANUARY, 2000.

Leigh Ann Lane  
Notary Public

My Commission expires: \_\_\_\_\_

**FOR OIL CONSERVATION DIVISION USE ONLY:**

**VI. CERTIFICATION OF APPROVAL:**

This Application is hereby approved and the above-referenced Pool well is designated a New Well. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval.

Signature	Title	Date
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: \_\_\_\_\_

**NOTICE: The operator must notify all working interest owners of this New Well certification.**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires November 30 2000

5. Lease Serial No.  
**NM 25336**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
**CROOKED CANYON 1**  
**FEDERAL**

9. API Well No.  
**30-015-30559**

10. Field and Pool, or Exploratory Area  
**LITTLE BOX**  
**CANYON MORROW**

11. County or Parish, State  
**EDDY NM**

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
**ARCO Permian**

3a. Address  
**P.O. Box 1610, Midland, TX 79702**

3b. Phone No. (include area code)  
**915-688-5570**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SEC. 35, T-20-S, R-21-E, NMPM, EDDY COUNTY, NM**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Fracture Treat
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Alter Casing
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Recombine
	<input type="checkbox"/> Change Plans
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other <b>SPUD AND SET CASING.</b>

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

5/28/99 SPUD 12-1/4 HOLE AND SET 9-5/8" 36# j-55 @1402' W/360 SX CLASS C CMT. TOC @875' W/TEMP. SURV. RUN 1" TBG AND STAGE CMT F/650' BACK TO SURFACE. CIRC. 3 SX CMT TO PIT.

6/22/99 RUN AND SET 5-1/2" 17# j-55 @8174' W/900 SX CLASS C CMT. 10 CENTRALIZERS TOC 5200' CALC.

**RECEIVED**  
AUG 13 1999  
LAND ADMINISTRATION

ACCEPTED FOR RECORD  
AUG 12 1999  
BLM *acs*

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed) **Laurie Cherry**

Title **REGULATORY/COMPLIANCE**

Date **7/30/99**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Office \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

FORM APPROVED  
OMB NO. 1004-0137

Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

NM 25336

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

CROOKED CANYON 1  
FEDERAL

9. API WELL NO.

30-015-30559

10. FIELD AND POOL, OR WILDCAT

LITTLE BOX  
CANYON MORROW

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

35-20S-21E

12. COUNTY OR PARISH

EDDY

13. STATE

NM

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR

ARCO Permian

3. ADDRESS AND TELEPHONE NO.

P.O. Box 1610, Midland, TX 79702 915-688-5532

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface  
1650' FSL, 660' FEL  
At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

EDDY

13. STATE

NM

15. DATE SPUDDED

5/28/99

16. DATE T.D. REACHED

6/18/99

17. DATE COMPL. (Ready to prod.)

7/27/99

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

4425'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

8200

21. PLUG, BACK T.D., MD & TVD

8160

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*

7984-8012

25. WAS DIRECTIONAL SURVEY MADE

N

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

N

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

CASING SIZE/GRADE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8	36	1402'	12-1/4	CIRC	NA
5-1/2	17	8174'	8-3/4	5200' CALC	NA

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8	8012	7877

31. PERFORATION RECORD (Interval, size and number)

7984-8012 W/4 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7984-8012'	ACID W/7.5% HCl W/730 SCFM: FRAC W/19000# SD

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	WELL STATUS (Producing or shut-in)					
	FLOWING	PRODUCING					
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS - OIL RATIO
7/27/99	24			0	400	0	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY - API (CORR.)	
400							

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

SOLD

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED  Laurie Cherry

TITLE  REGULATORY COMPLIANCE

DATE  8/10/99

\*(See Instructions and Spaces for Additional Data on Reverse Side)

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.

**CROOKED CANYON FEDERAL #1**  
**API #30-015-30559**  
**EDDY COUNTY, NEW MEXICO**  
**WORKING INTEREST OWNERS**

Dennis D. Corkran 1001 Loop 360 South L-100 Austin, TX 78746	2.113636%
David J. Andrews 1001 Loop 360 South, Bldg L, Suite 100 Austin, TX 78746	2.113636%
Sid Cowan 35 Meadow Lane Del Rio, TX 78840	3%
D & D Partnership 830 East Big Briar Way LaCanada, CA 91011	4%
Scott E. Muehlbrad 2511 Terrace Midland, TX 79705	1.056818%
Sutherland Family, LLC 306 West Wall, #700 Midland, TX 79701	10.568182%
Cannon Exploration Company 3608 SCR 1184 Midland, TX 79706	2.113636%
Nadel & Gussman Permian, LLC 3200 First National Tower Tulsa, OK 74103	15.852274%
Reber-Garrett Associates, a Pennsylvania Partnership 4629 State Road Drexel Hill, PA 19026	1.056818%
Atlantic Richfield Company	58.125%



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

OPERATOR'S COPY  
(reverse side)

FORM APPROVED  
OMB NO. 1004-0137  
Expires: February 28, 1995

LEASE DESIGNATION AND SERIAL NO.

NM-22080

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

BARCLAY FEDERAL 25

2. NAME OF OPERATOR

ARCO Permian

3. ADDRESS AND TELEPHONE NO.

P.O. Box 1610, Midland, TX 79702

915-688-5532

9. API WELL NO.

30-015-30597

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface  
660' FNL, 660' FWL  
At top prod. interval reported below

10. FIELD AND POOL, OR WILDCAT

LIVINGSTON RIDGE (DEL)

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12-T23S-R31E

At total depth

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

EDDY

13. STATE

NM

15. DATE SPUDDED

9/24/99

16. DATE T.D. REACHED

10/10/99

17. DATE COMPL. (Ready to prod.)

10/25/99

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*

3463

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

8377

21. PLUG, BACK T.D., MD & TVD

8324

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*

6553-6849, 7046-7075, 7483-7512, 8136-8156

25. WAS DIRECTIONAL SURVEY MADE

N

26. TYPE ELECTRIC AND OTHER LOGS RUN

GR

27. WAS WELL CORED

N

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	854	17-1/2	CIRC	NA
8-5/8	32	4421	11	CIRC	NA
5-1/2	17	8377	7-7/8	1900' TS	NA

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	7737	

31. PERFORATION RECORD (Interval, size, and number)

6553-6849  
7046-7075  
7483-7512  
8136-8156

ACCEPTED FOR RECORD  
NOV 23 1999  
(ORIG. SGD.) LES BABYAK

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8136-8156	1000 GAL 15% <sub>2</sub> , 24360 GAL NK130; 65000 #50
7483-7512	" " 33000 " " 75000 #20
7046-7075	" " " " " " " "
6553-6843	" " 66,000 " " 30000 #50

33. BLM PRODUCTION

DATE FIRST PRODUCTION 10/25/99  
PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) PUMPING  
WELL STATUS (Producing or shut-in) PRODUCING

DATE OF TEST 11/1/99  
HOURS TESTED 24  
CHOKE SIZE  
PROD'N. FOR TEST PERIOD  
OIL - BBL. 15  
GAS - MCF. 18  
WATER - BBL. 317  
GAS - OIL RATIO 1200

FLOW. TUBING PRESS. 200  
CASING PRESSURE 70  
CALCULATED 24-HOUR RATE  
OIL - BBL.  
GAS - MCF.  
WATER - BBL.  
OIL GRAVITY - API (CORR.) 36.8

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
SOLD

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Laurie Cherry

TITLE REGULATORY COMPLIANCE

DATE 11/15/99

(See Instructions and Spaces for Additional Data on Reverse Side)

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.

orig: Vaughn-411  
cc: G...-E...  
H...-410  
P...

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires November 30 2000

**OPERATOR'S COPY**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

<p>1. Type of Well  <input checked="" type="checkbox"/> Oil Well    <input type="checkbox"/> Gas Well    <input type="checkbox"/> Other</p> <p>2. Name of Operator  <b>ARCO Permian</b></p> <p>3a. Address  <b>P.O. BOX 1610, MIDLAND, TX 79702</b></p> <p>3b. Phone No. (include area code)  <b>915-688-5532</b></p> <p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  <b>660' FNL, 660' FWL SEC 12, T23S, R31E</b></p>	<p>5. Lease Serial No.  <b>NM-22080</b></p> <p>6. If Indian, Allottee or Tribe Name</p> <p>7. If Unit or CA/Agreement, Name and/or No.</p> <p>8. Well Name and No.  <b>BARCLAY FEDERAL                      25</b></p> <p>9. API Well No.  <b>3001530597</b></p> <p>10. Field and Pool, or Exploratory Area  <b>LIVINGSTON RIDGE (DEL)</b></p> <p>11. County or Parish, State  <b>EDDY                      NM</b></p>
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**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>SPUD AND SET</b>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>CASING</b>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

9-24-99 SPUD 17-1/2" HOLE. DRILL F/40' TO 175'.

9-25-99 SET 13-3/8" CSG IN 17-1/2" HOLE WITH 700 SK CLASS C CEMENT @ 854'. CIRC 50 SX CMT TO PIT.

10-2-99 SET 8-5/8" CSG IN 11" HOLE WITH 1400 SX CLASS C CMT @ 4421'. CIRC. 197 SX CMT TO PIT.

10-11-99 SET 5-1/2" CSG IN 7-7/8" HOLE WITH 900 SX CLASS H CMT @8377'. TOC @1900' TEMP. SURVEY.

ACCEPTED FOR RECORD  
**PETER W. CHESTER**  
*Peter W. Chester*  
**NOV 12 1999**  
 BUREAU OF LAND MANAGEMENT  
 ROSWELL RESOURCE AREA

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	Title
<i>Laurie Cherry</i>	<b>REG./COMP. ASSISTANT</b>
	Date <b>10/20/99</b>

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		
Office		

**BARCLAY FEDERAL LEASE  
EDDY COUNTY, NEW MEXICO**

**WORKING INTEREST OWNERS**

Atlantic Richfield Company	100%
P. O. Box 1610	
Midland, Texas 79702	



**OPERATOR'S COPY**  
**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE\*  
(See other instructions on reverse side)

FORM APPROVED  
 OMB NO. 1004-0137  
 Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.  
**NM-22080**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.  
**BARCLAY FEDERAL 11**

9. API WELL NO.  
**30-015-30063 S1**

10. FIELD AND POOL, OR WILDCAT  
**LIVINGSTON RIDGE (DEL)**

11. SEC., T., R., M., OR BLK AND SURVEY OR AREA  
**12-T23S-R31E**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  FLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
**ARCO Permian**

3. ADDRESS AND TELEPHONE NO.  
**P.O. Box 1610, Midland, TX 79702 915-688-5532**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
 At surface  
**760' FNL, 660' FEL**  
 At prod. interval reported below

At total depth

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

12. COUNTY OR PARISH  
**EDDY**

13. STATE  
**NM**

15. DATE SPUDDED **10-13-99**

16. DATE T.D. REACHED **10-27-99**

17. DATE COMPL. (Ready to prod.) **11/9/99**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **3499'**

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **8450'**

21. PLUG, BACK T.D., MD & TVD **8403**

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY **→** ROTARY TOOLS **X** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)\*  
**SEE ATTACHED**

25. WAS DIRECTIONAL SURVEY MADE  
**N**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**GAMMA RAY, CPN**

27. WAS WELL CORED  
**N**

**28. CASING RECORD (Report all strings set in well)**

CASING SIZE/GRADE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	858	17-1/2	CIRC	NA
8-5/8	32	4440	11	CIRC	NA
5-1/2	17	8450	7-7/8		NA

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-7/8	7504	

31. PERFORATION RECORD (Interval, size and number)  
**SEE ATTACHED**

32. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
 DEPTH INTERVAL (MD) **SEE ATTACHED**  
 AMOUNT AND KIND OF MATERIAL USED

**ACCEPTED FOR RECORD**

DEC 28 1999

BLM 1/13/00

33. PRODUCTION

DATE FIRST PRODUCTION **11-9-99**

PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)  
**PUMPING**

WELL STATUS (Producing or shut-in)  
**PRODUCING**

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS - OIL RATIO
11/22/99	24		→	230	130	378	565

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY - API (CORR.)
		→				36.6

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
**SOLD**

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Laurie Cherry TITLE REGULATORY COMPLIANCE DATE 12/10/99

\*(See Instructions and Spaces for Additional Data on Reverse Side)

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**SUNDRY NOTICES AND REPORTS ON WELLS**

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires November 30 2000

5. Lease Serial No.

**NM-22080**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

**BARCLAY FEDERAL 11**

9. API Well No.

**30-015-30063**

10. Field and Pool, or Exploratory Area  
**LIVINGSTON RIDGE (DEL)**

11. County or Parish, State

**EDDY NM**

*SUBMIT IN TRIPLICATE - Other instructions on reverse side*

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

**ARCO Permian**

3a. Address

**P.O. BOX 1610, MIDLAND, TX 79702**

3b. Phone No. (include area code)

**915-688-5532**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**760' FNL, 660' FEL  
SEC 12, T23S, R31E**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other <u>SPUD AND SET CASING</u>
	<input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon <input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> Water Disposal

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

10/13/99 SPUD 17-1/2" HOLE. DRILL 17-1/2" HOLE FROM 40' TO 425'.

10/14/99 SET 13-3/8" 48# H-40 CASING @858 W/700 SX CLASS C CEMENT. CIRC. 75 SX CMT TO SURFACE.

10/20/99 SET 8-5/8" 32# J-55 CASING @4440' W/1400 SX CLASS C CEMENT. CIRC. 167 SX CMT TO SURFACE.

10/28/99 SET 5-1/2" 17# J-55 CASING @8450' W/900 SX CLASS H CEMENT. DID NOT CIRC. CEMENT.

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**LAURIE CHERRY**

Title

**REG./COMP. ASST.**

Date **12/10/99**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on reverse)

**BARCLAY FEDERAL LEASE  
EDDY COUNTY, NEW MEXICO**

**WORKING INTEREST OWNERS**

Atlantic Richfield Company	100%
P. O. Box 1610	
Midland, Texas 79702	