

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
ARCO Oil and Gas Company, a Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P. O. Box 1610, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1130' FNL and 330' FEL
At proposed prod. zone
Approximately same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
±9 miles west of Lindrith, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any.) 330'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1265'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6864' (upgraded GL)

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	9-5/8"	53.5#	350'
7-7/8"	5-1/2"	17#	7515'

Pursuant to Onshore Oil and Gas Order No. 1
Certified Location Plat (Exhibit #1)
Drilling Plan w/attachments
Surface Use & Operations Plan w/attachments

This well is proposed to be drilled 7515' and to be completed in the Dakota "A" formation as described in the attached plans.

Please contact Sandy Stash-Zdinak, Drilling Engineer (915) 688-5675 if additional information is required.

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED [Signature] TITLE District Drilling Engineer

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Hold C-104 for [Signature] NMOCC
Cement Bond Log Analysis [Signature]
NSL-2301

See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.
SF-080472-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
NA

8. FARM OR LEASE NAME
Tonkin - ~~XXXXX~~

9. WELL NO.
18-2E 6

10. FIELD AND POOL, OR WILDCAT
West Lindrith Gallup/Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
A Sec. 18, T24N, R3W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

22. APPROX. DATE WORK WILL START*
Late October, 1986
This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

185sx cmt or to Surf
1090sx cmt or to Surf
See attached Sundry

9-23-86
APPROVED
AS AMENDED

NOV 13 1986
[Signature]
AREA MANAGER

1

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

Operator ARCO OIL & GAS COMPANY		Lense TONKIN FEDERAL #2		Well No. 256
Unit Letter A	Section 18	Township 24N	Range 3W	County Rio Arriba
Actual Postage Location of Well: 1130 feet from the North line and 330 feet from the East line				
Ground Level Elev. 6864	Producing Formation WYOMING	Pool W. Lincoln Co. G. & O.	Dedicated Acreage 191.30 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 lense is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lense 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.) _____

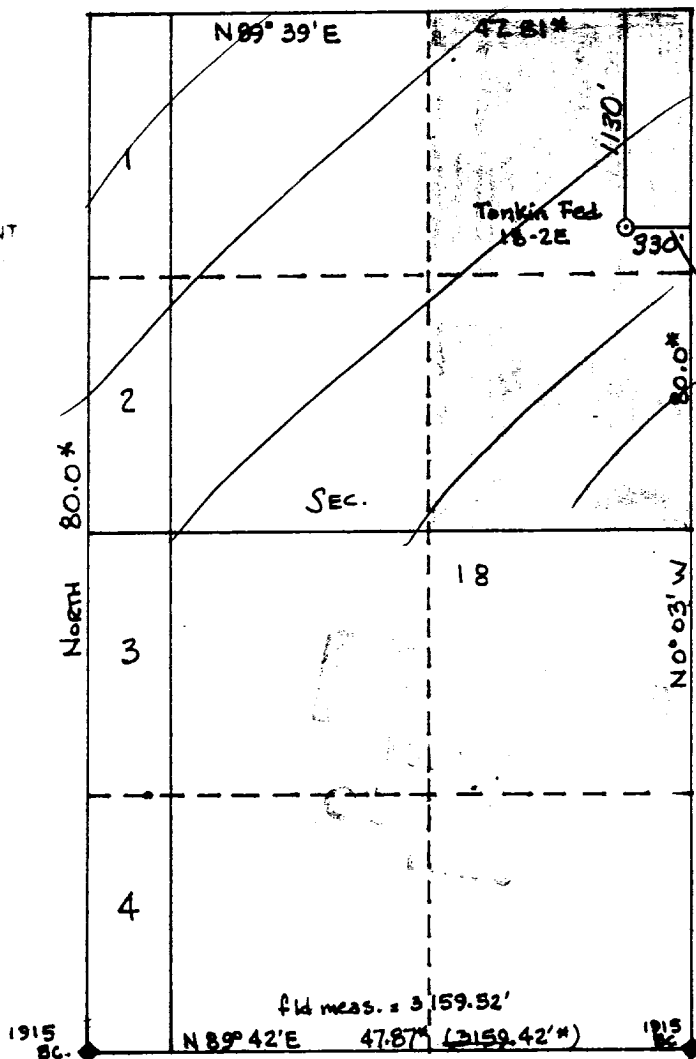
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.

*Record GLO plot 1917

RECEIVED

OCT 20 1986

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA



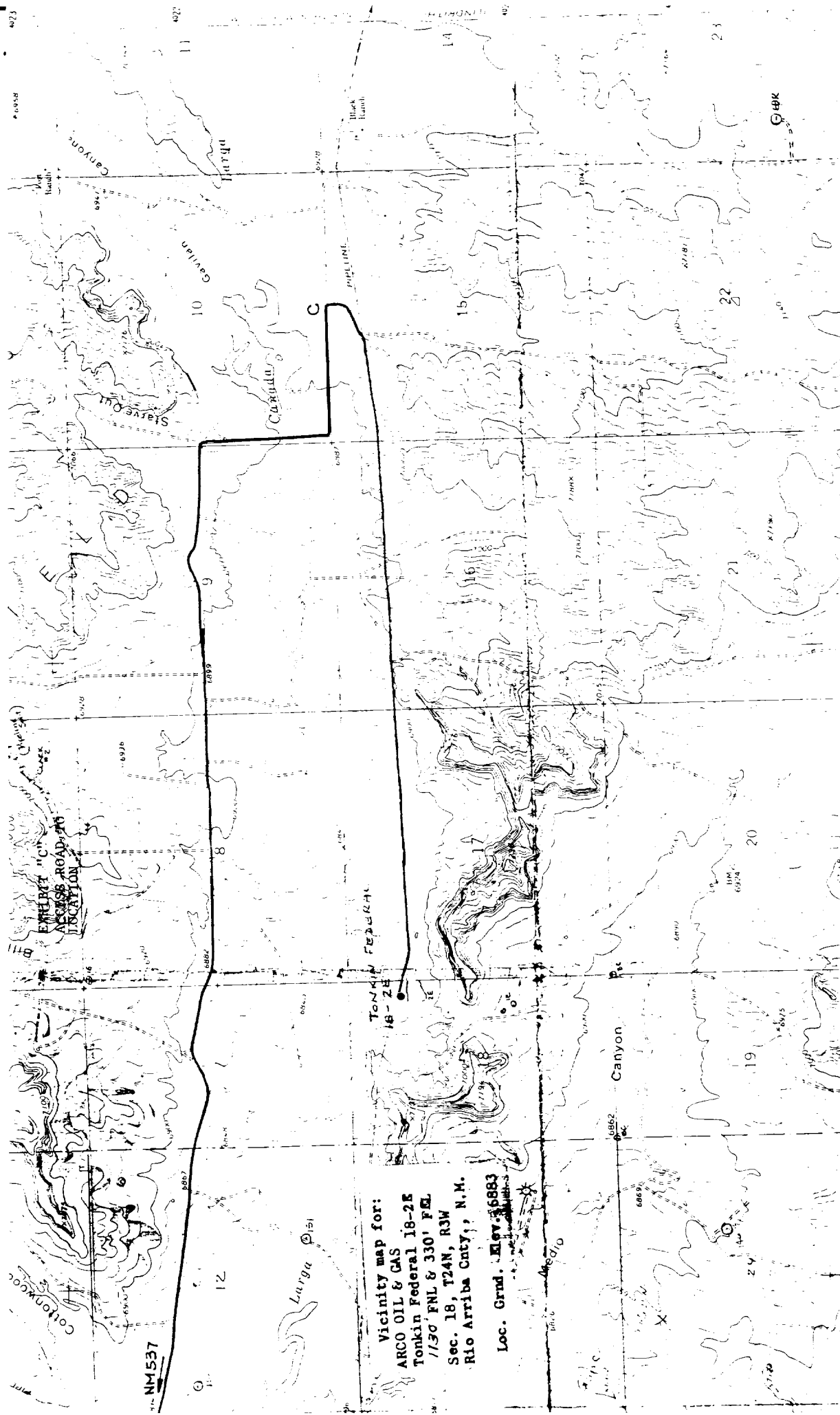
CERTIFICATION

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

Name
Andra Hash-Zelirak
Position
DRILLING ENGINEER
Company
ARCO OIL & GAS
Date
October 16, 1986

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
October 16, 1986
Professional Land Surveyor
ROY A. RUSH
Certificate No.
8894



NM537

Vicinity map for:
ARCO OIL & GAS
Tonkin Federal 18-2E
1/30' FNL & 330' FEL
Sec. 18, T24N, R3W
Rio Arriba Cnty., N.M.

Loc. Grnd. Elev. 36883

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-01
Expires August 31, 1985

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" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR
ARCO Oil and Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 1610, Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
1130' FNL and 330' FEL

14. PERMIT NO.
6864' GR

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6864' GR

5. LEASE DESIGNATION AND SERIAL NO.
SF-080472-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
NA

8. FARM OR LEASE NAME
Tonkin

9. WELL NO.
#18-2E

10. FIELD AND POOL OR WILDCAT
West Lindrith Gallup/Dakota

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 18-T24N-R3W

12. COUNTY OR PARISH
Rio Arriba

13. STATE
NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☒	(Other)	☐		

(Other)

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

17. 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.) *

We propose to change the cementing design previously submitted. The new design is as follows:

Lead: 650 sacks Lite Weight w/4 lb/sk HiSeal and 1.0% CF-2 foamed w/250 scf/bbl nitrogen.

Tail: 280 sacks C1 "H" 50/50 Poz w/2% gel.

Cap: 75 sx C1 "H" w/10% gypseal and 3% CaCl₂.

Plan to circulate cement to surface in one stage. Will run Halliburton "FO" tool immediately above Pictured Cliffs at a depth of ±3,050' as contingency for remedial isolation of the Ojo Alamo should cement job fail to provide satisfactory coverage.

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

SIGNED *Jan Lowe*

915-688-5672
TITLE Engr. Tech. Spec.

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE NOV 19 1986

John Skille
FOR AREA MANAGER

*See Instructions on Reverse Side

NMOCG

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well shut conditioned for final inspection looking to approval of the abandonment.

PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES: (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations. (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2). (3) Analyze future applications to drill or modify operations in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

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—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐		2. NAME OF OPERATOR ARCO Oil and Gas, a Division of the Atlantic Richfield Co.		3. ADDRESS OF OPERATOR RECEIVED NOV 19 1986		4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1130' FNL and 330' FEL		5. BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA		6. PERMIT NO. 6864' GL (ungraded)		7. ELEVATIONS (Show whether of, FT., OR M.) 6864' GL (ungraded)		8. NAME OR LEASE NAME Tonkin Permit		9. WELL NO. #18-2E		10. FIELD AND POOL, OR WILDCAT West Lindrith Gallup/ Dakota		11. SEC., T., R., N., OR S.E., AND SURVEY OR AREA Section 18, T24N, R3W		12. COUNTY OR PARISH Rio Arriba		13. STATE N. Mexico	
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Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	□	PULL OR ALTER CASING	□
FRACTURE TREAT	□	MULTIPLE COMPLETE	□
SHOOT OR ACIDIZE	□	ABANDON*	□
REPAIR WELL	□	CHANGE PLANS	□
(Other)		NAME CHANGE	X

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

17 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.) *

We propose to change the name of the subject well from the Tonkin Federal #18-2E to the Tonkin Federal #6 to conform to State well designation rules.

Please make the necessary changes to the documents filed under the previous name.

ACCEPTED FOR RECORD

NOV 19 1986

FARMINGTON RESOURCE AREA

BY 6-17-5

NOV 23 1966
C-1 GEN. DIV.
DIST. 3

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

SIGNED Wandy Hash TITLE Drilling Engineer DATE 11/17/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL IF ANY:

***See Instructions on Reverse Side**

97MOCC