

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 ☐

O. G. PLUG BACK ☐  
ARTESIA, OFFICE

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

Hondo Oil and Gas Company

D.D. McSwain (505) 872-5531

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

660' FNL & 1980' FWL (Unit letter C)

At proposed prod. zone

Same as above

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

7 miles Southeast of Loco Hills, New Mexico

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

240

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

2640'

19. PROPOSED DEPTH

8700'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 3740.8'

22. APPROX. DATE WORK WILL START\*

As soon as permit is  
approved

23.

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |             |
|--------------|----------------|-----------------|---------------|--------------------|-------------|
| 17-1/2"      | 13-3/8"        | 48# H-40        | 680'          | 650 sx             | Circ        |
| 11"          | 8-5/8"         | 24# K-55        | 2150'         | 800 sx             | Circ        |
| 7-7/8"       | 5-1/2"         | 15.5# K-55      | 8700'         | 1700 sx            | TOC @ 1500' |
|              |                | 17# N-80        |               |                    |             |

Propose to drill a Tamano (Bone Springs) development well and test for commercial production.

Blowout Preventer Program attached.

Posted 10-1  
API, NL  
5-9-86

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.

24.

SIGNED

*James R. ...*

TITLE Drilling Engineer

DATE 4/21/86

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED

Charles S. ...

TITLE

DATE

5-2-86

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

**MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

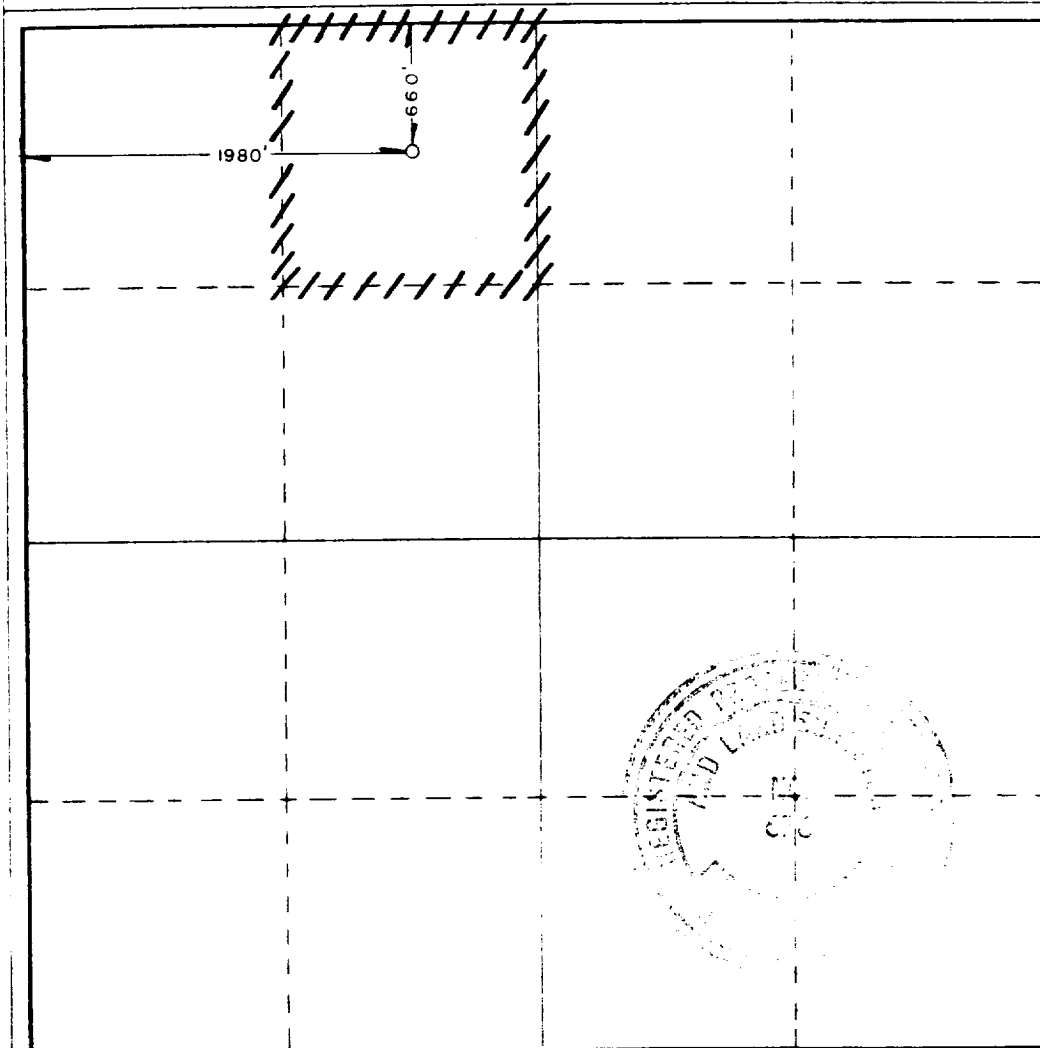
|   |  |                             |                                |                                 |                      |
|---|--|-----------------------------|--------------------------------|---------------------------------|----------------------|
| Operator<br><b>HONDO OIL &amp; GAS COMPANY ✓</b>  |  |                             | Lease<br><b>WILMAR FEDERAL</b> |                                 | Well No.<br><b>4</b> |
| Unit Letter<br><b>C</b>   | Section<br><b>4</b>                        | Township<br><b>18 SOUTH</b> | Range<br><b>31 EAST</b>        | County<br><b>EDDY</b>           |                      |
| Actual Footage Location of Well:<br><b>660</b> feet from the <b>NORTH</b> line and <b>1980</b> feet from the <b>WEST</b> line |  |                             |                                |                                 |                      |
| Ground Level Elev.<br><b>3740.8'</b>  | Producing Formation<br><b>BONE SPRINGS</b> |                             | Pool<br><b>TAMANO</b>          | Dedicated Acreage:<br><b>40</b> |                      |

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 *Robert Day*  
Drilling Engineer  
Company ARCO Oil & Gas Co.  
Div of Atlantic Richfield Co.

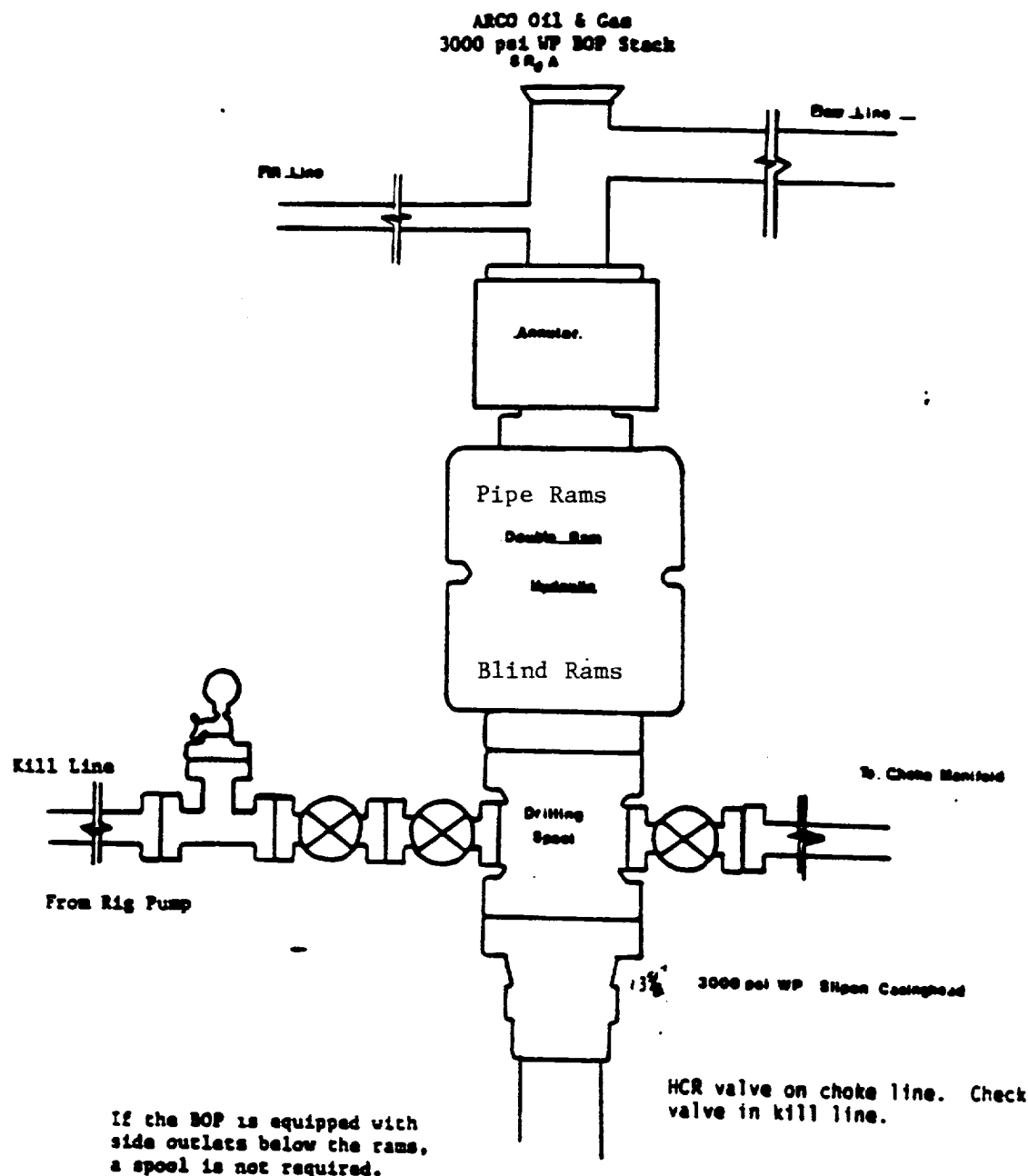
Date 4/18/86

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 JANUARY 22, 1986

Registered Professional Engineer and/or Land Surveyor

*John W. West*  
Certificate No. JOHN W. WEST, 676  
RONALD J. EIDSON, 3239



ARCO Oil & Gas Company  
Division of Atlantic Richfield Company  
Blow Out Preventer Program

Lease Name Wilmar Federal

Well No. 4

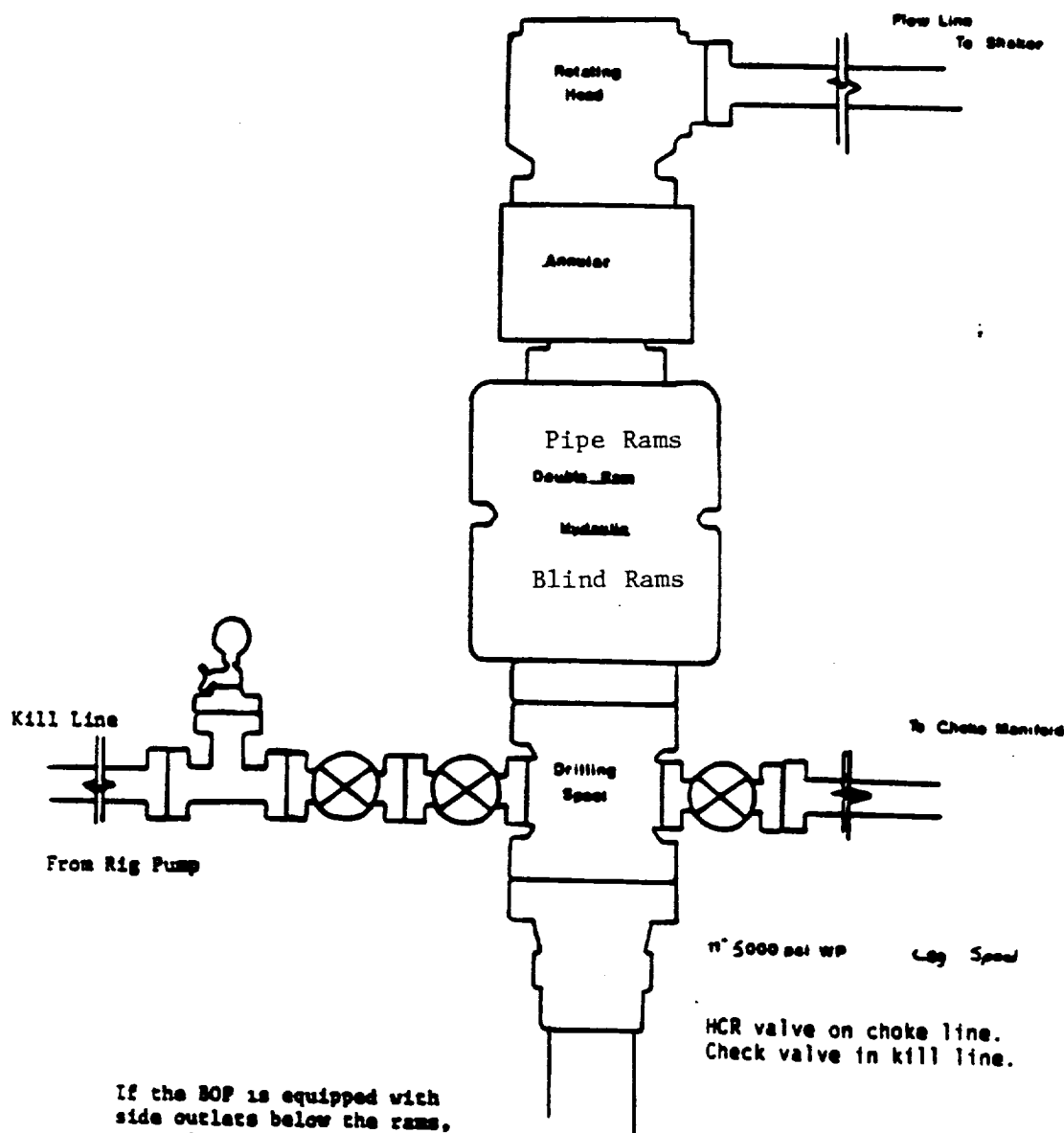
Location 660' FNL & 1980' FWL Sec 4,  
T-18-S, R-31-E, Eddy County, NM

BOP to be tested when installed on well and will be maintained in good working condition during drilling. All wellhead fittings to be of sufficient pressure to operate in a safe manner.

MEK 1/85

c

ARCO Oil & Gas  
5000 psi WP BOP Stack  
SR<sub>1</sub> AS



If the BOP is equipped with  
side outlets below the rams,  
a spool is not required.

ARCO Oil & Gas Company

Division of Atlantic Richfield Company

Blow Out Preventer Program

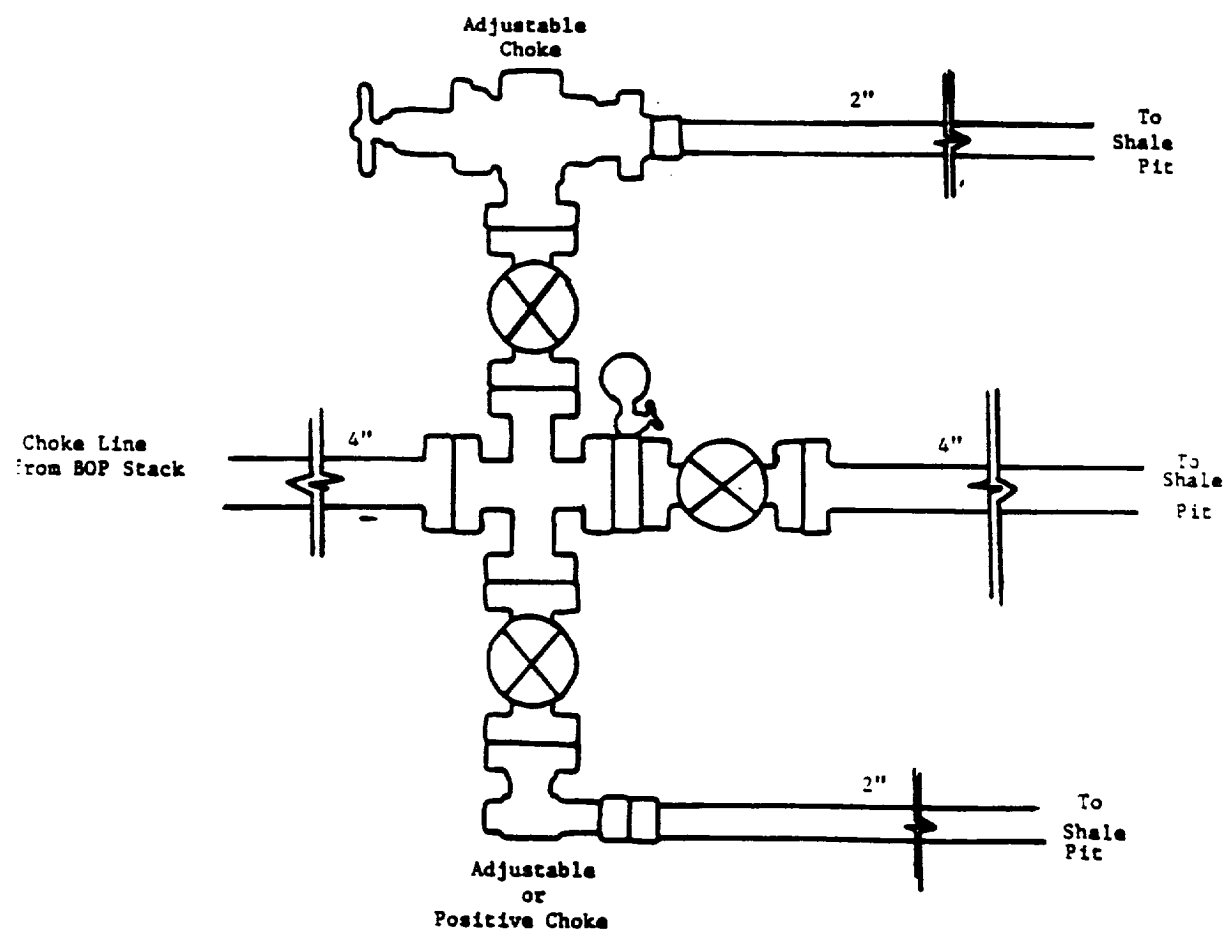
Lease Name Wilmar Federal

Well No. 4

Location 660' FNL & 1980' FWL Sec. 4,  
T-18-S, R-31-E, Eddy Co., NM

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well and will be maintained in good  
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wellhead fittings to be of sufficient  
pressure to operate in a safe manner.

ARCO Oil & Gas  
5000psi WP Choke Manifold



To supplement USGS Form 3160-3 " Application for Permit to Drill, Deepen or Plugback", the following additional information is submitted to comply with USGS Order NTL-6.

Operator: Hondo Oil and Gas Company

Lease & Well No: Wilmar Federal #4

Location: Unit Letter C  
Section 4 - 18S - 31E

Eddy County, New Mexico

Lease, New Mexico LC-029389- b

Development well   X   Exploratory well           

1. See Well Location and Acreage Dedication Plat Form C-102.
2. See Form 3160-3 for elevation above sea level of unprepared location.
3. The geologic name of the surface formation is: Querecho Plains Aeolian material with loose sandy loams and commonly harbor calcareous gravels.
4. The type of drilling tools and associated equipment to be utilized will be: Rotary
5. The proposed drilling depth will be   8700'  .
6. The estimated tops of important geologic markers are:

|       |       |              |       |
|-------|-------|--------------|-------|
| Yates | 2100' | San Andres   | 4010' |
| Queen | 3160' | Bone Springs | 5200' |
7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are:

|              |       |     |
|--------------|-------|-----|
| Bone Springs | 8200' | Oil |
|--------------|-------|-----|
8. The proposed casing program including the size, grade and weight-per-foot of each string has been indicated on Form 3160-3. All strings of casing will be: New   X   Used           .
9. See Form 3160-3 for amount of cement.



# General Purpose Worksheet

|         |                                    |          |        |      |          |
|---------|------------------------------------|----------|--------|------|----------|
| Subject | Wilmar Federal # 4                 | Page No. | 1      | Of   | 1        |
| File    | Sec 4, T-18-S, R-31-E, Eddy Co, NM | By       | T. DAY | Date | 03/25/86 |

## EXHIBIT "B" AND "C"

