

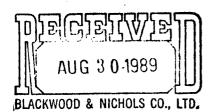
An Archaeological Survey of proposed well location Northeast Blanco Unit 426 on Burnt Mesa, San Juan County, New Mexico

for

Blackwood and Nichols Co., Ltd.

by

Susan K. Moore



Submitted by

Roger A. Moore, Jr. Principal Investigator

August 11, 1989

Moore Anthropological Research...

Technical Report No. 89-41B

M.A.R., P.O. Box 1156, Aztec, New Mexico 87410

#### Project No. 89-41B

Cultural Resource Use Permit No. 77-2920-89-A

## An Archaeological Survey of proposed well location Northeast Blanco Unit 426 on Burnt Mesa, San Juan County, New Mexico

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#### ABSTRACT

On July 26, 1989 Moore Anthropological Research conducted a Class III archaeological survey of a proposed gas well location for Blackwood and Nichols Co. Ltd. The survey area is located on Burnt Mesa, San Juan County, New Mexico (T31N, R6W, Sec. 6) and is under the jurisdiction of the Bureau of Land Management, Farmington Resource Area. A total of 14.90 acres (6.01 hectares) were inventoried.

One previously recorded archaeological site but no isolated loci were discovered during the survey.

Archaeological clearance is recommended with the stipulations that construction near DCA-89-75 be monitored.

#### INTRODUCTION

2

On July 26, 1989 Moore Anthropological Research (M.A.R.) conducted a Class III archaeological survey for Blackwood and Nichols Co., Ltd. of Durango, Colorado. Jim Abbey of Blackwood and Nichols Co., Ltd. requested the survey on July 19, 1989 and administered the project. Roger A. Moore administered the project for M.A.R.

Over the years the people of the United States have become more aware of the nonrenewable nature of their archaeological resources and their cultural As a result of this growing concern federal, state and local heritage. governments have passed laws and enacted ordinances designed to protect and archaeological, historical, and anthropological resources. The conserve legislation affecting federal lands, federally administered projects, principal or federally funded projects includes the Federal Antiquities Act of 1906 (P.L.52-209), the Reservoir Salvage Act of 1960 as amended (16 U.S.C. 469), the National Historic Preservation Act of 1966 (P.L.89-665) as amended in 1980 (P.L.96-515), the National Environmental Policy Act of 1969 (P.L.91-852), No. 11593 of 1971 (36 F.R.8921, 16 U.S.C. 470), the Executive Order<sup>.</sup> Archaeological Resource Protection Act of 1979 (P.L.96-95; P.L.100-555), and the American Indian Religious Freedom Act of 1979 (P.L.95-341). The principal non-federal lands in New Mexico is the Cultural affecting legislation Work conducted in the course of this project is intended to Properties Act. comply with the above-mentioned laws and is governed by the stipulations of Cultural Permit 77-2920-89-A.

Susan K. Moore, Roger A. Moore, and Michael J. Proper, M.A.R. archaeologists, surveyed the project area for cultural remains. The Bureau of Land Management (B.L.M.) Farmington Resource Area was notified of the proposed survey prior to beginning fieldwork. Jim Abbey, Shawn Edwards surveyor and crew accompanied the archaeologist during the fieldwork.

#### METHODS

The project area was surveyed by walking parallel transects across the proposed well location and parallel to the proposed access/pipeline route. A construction zone 40 ft. wide and a buffer zone 100 ft. wide was included in the well survey and a 50 ft. buffer zone was included on both sides of the access/pipeline right of way (ROW). The project area was marked with orange painted lath and orange flagged vegetation prior to conducting the survey. All cultural remains were recorded relative to known points within the project area. Archaeological sites were recorded on the appropriate state site forms, photographed, and a sketch map prepared. Isolated Loci were recorded according to the permitting agency guidelines. Pertinent environmental data were also recorded. Locational information presented in this report is derived from plats or vicinity maps provided by the client.

#### PROJECT AREA

# Northeast Blanco Unit 426

Legal Description: T.31 N, R. 6 W, Section 6, S 1/2 NW 1/4 SW 1/4 T.31 N, R. 7 W, Section 1, S 1/2 NE 1/4 SE 1/4 NE1/4 SW 1/4 SE 1/4 Section 6, 1850' F/SL, 790' F/WL

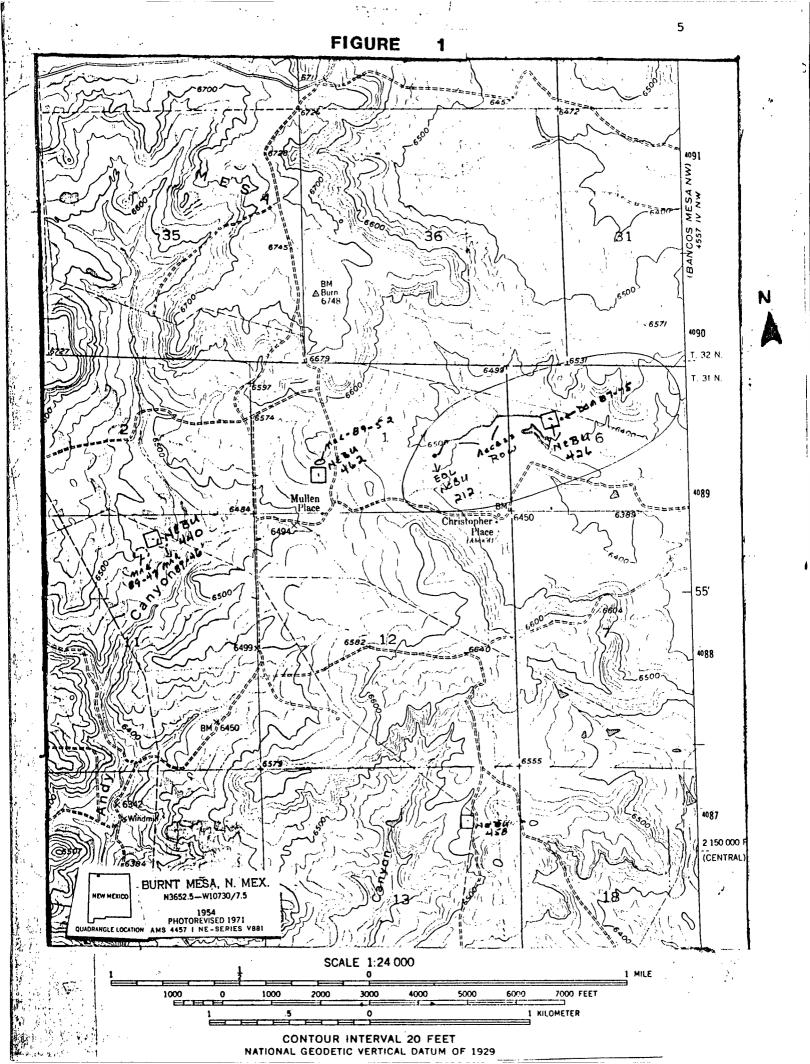
New Mexico Prime Meridian, San Juan County, New Mexico, 6425' Elevation Map Source: U.S.G.S. 7.5' Burnt Mesa, New Mexico 1954 (Photorevised 1971) Land Jurisdiction: Bureau of Land Management, Farmington Resource Area

| Project Area:  | 300' X 250'  | (well pad)                                    |
|----------------|--------------|---|
|                | 380' X 340'  | (well pad with construction zone)             |
|                | 40' x 2400'  | (access/pipeline ROW)                         |
| Surveyed Area: | 580' x 540'  | (well pad with construction and buffer zones) |
|                | 140' x 2400' | (access/pipeline ROW with buffer)             |
|                | 14.90 Acres  |   |

Environment: The proposed well is on a gentle south-facing slope on the north side of a broad gently sloping upland valley (Figure 1). This valley drains eastward into Cottonwood Canyon. An earthen dam has been constructed across the valley a short distance south-southeast of the proposed well pad. The area has a 30% scrubland/woodland mix cover consisting of sagebrush, grassed, snakeweed, annuals, Prickly Pear and Barrel Cactus, juniper and pinyon pine. The woodland is mainly in the north buffer area upslope of the center stake.

Project Description: This is a third staking of a proposed gas well location. The original NEBU 209 was staked at these same footages in 1980 and surveyed by Whitten and Reed (1980), however, the well was never built. In 1987 the area was resurveyed by Moore (1987) again as the NEBU 209 at 1739' F/SL, 749' F/WL and an access road/pipeline right of way was added. At this time site LA64837 (DCA-89-75) was found 125 ft. from the east side of the stake location. This well was also not built. This survey area is at the same footages as Whitten and Reeds survey area for the NEBU 209 but is the well is now called the NEBU 426.

From the west side of the well location the combined access road/pipeline ROW goes west and southwestward across three arroyos. The ROW follows and old two-track road parallel to the south side of the last arroyo to the west for about 200 ft. The route then starts to ascend the north slope of a long eastwest ridge. At the top of the ridge the ROW parallels the north side of a fence line as it continues west along the ridge top to a fence corner. The ROW goes south-southwest about 175 ft. to well Northeast Blanco Unit 212 (T31N, R7W, Sec.1, 990'F/SL, 1650' F/EL).



Cultural Resources: No new sites or isolated loci were found during this survey. LA64837 (NM-01-34755; DCA-87-75) is now within 50 ft. of the northeast corner stake of the proposed location.

6

Site LA64837 is on the west slope of a low north-south ridge. The site is a ceramic/lithic scatter. There are at least 35 Anasazi plain gray ware sherds and two flakes. The larger sherds are on the upper northeast side of the site. It appears that the lower 10-20 ft. of the site (to the west-southwest) has probably washed downslope. The two flakes are green/gray silty chert tertiary core reduction flakes.

An old logging road goes through the northwest edge of the site and four pieces of purple bottle glass were found on the site.

This site has research potential for early Anasazi (BMIII-PI) land use studies and ceramic analysis. It is therefore eligible for nomination to the National Register.

Recommendations: Archaeological clearance is recommended with the stipulation that all well construction and reclamation near site LA64837 be monitored.

#### REFERENCES

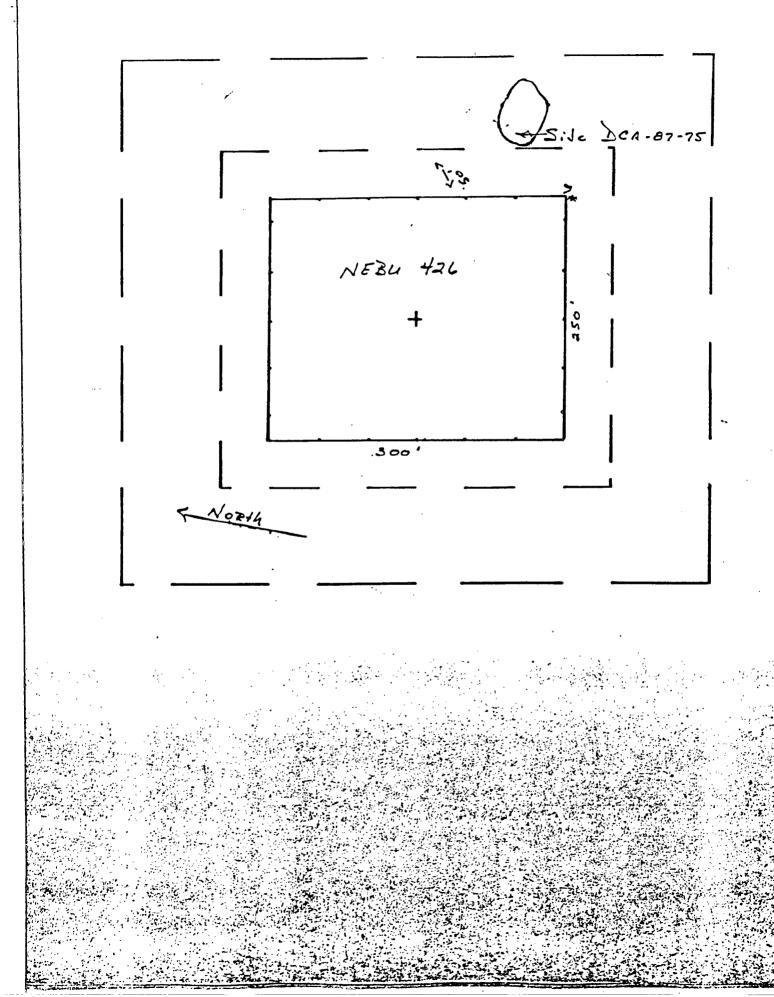
Moore, Roger A.

1987 "An archaeological survey of seven well locations and combined access road/pipeline right of ways around Navajo Reservoir in San Juan and Rio Arriba Counties, New Mexico." Division of Conservation Archaeology Technical Report No. 1211

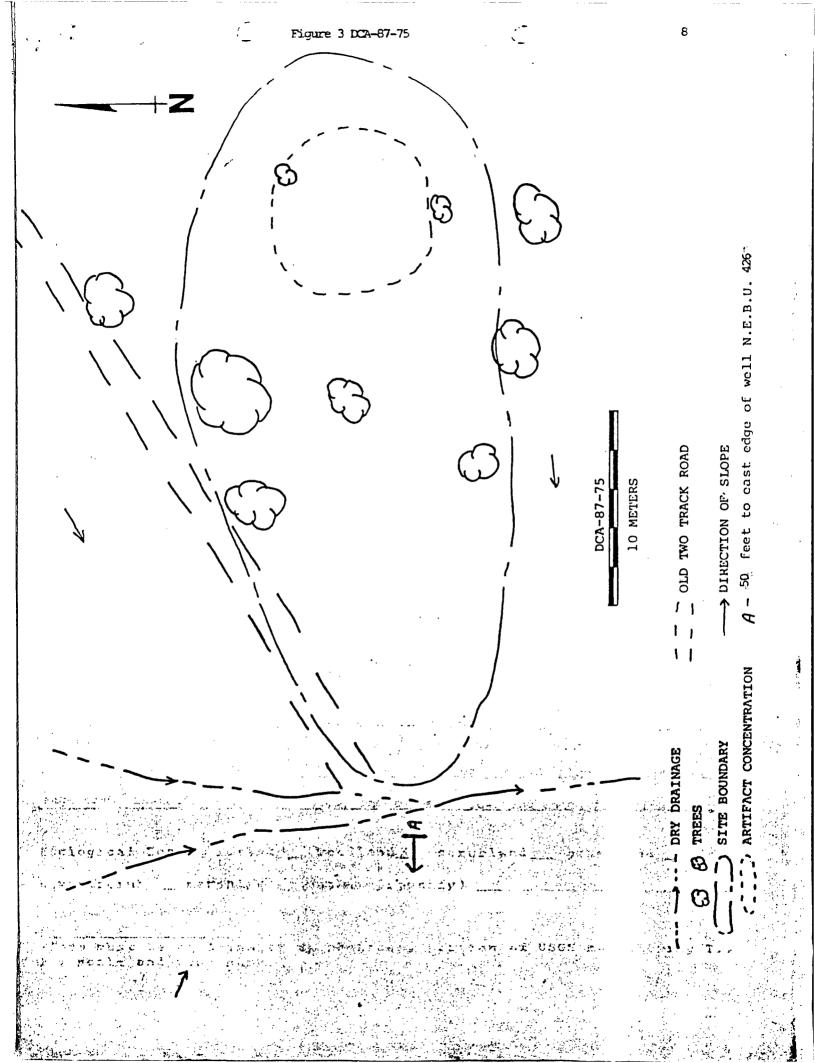
#### Whitten, Penelope and Alan C. Reed

1980 "An archaeological survey of 14 proposed well locations and associated access roads in San Juan County, New Mexico. San Juan County Archaeological Research Center and Library, Division of Conservation Archaeology, Contributions to Anthropology Series No. 313. DCA Project No. 79-80-C. FIGURE 2

Relationship of Site to well NEBU 426



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Peggy Gaudy Bureau of Land Management 1235 La Plata Highway Farmington, New Mexico 87401 October 2, 1989

Dear Ms. Gaudy:

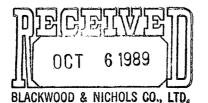
This letter serves as an addendum to Moore Anthropological Report 89-41B, regarding well Northeast Blanco Unit 426. This well has been restaked for the 4th time at the footages 1740' F/SL, 740' F/WL, T31N, R6W, Sec. 6. These are the same footages as the second staking of the proposed location which was then named the Northeast Blanco Unit 209 (D.C.A. Technical Report No. 1211, Roger A. Moore, August 1987). (Please note that these footages as mentioned in M.A.R. Technical Report No. 89-41B were listed incorrectly as 1739' F/SL, 749' F/WL due to a typo.) As this area has now been surveyed twice and site LA64837 (NM-01-34755; DCA-87-75) will be 125 ft. from the newly staked location, archaeological clearance is recommended.

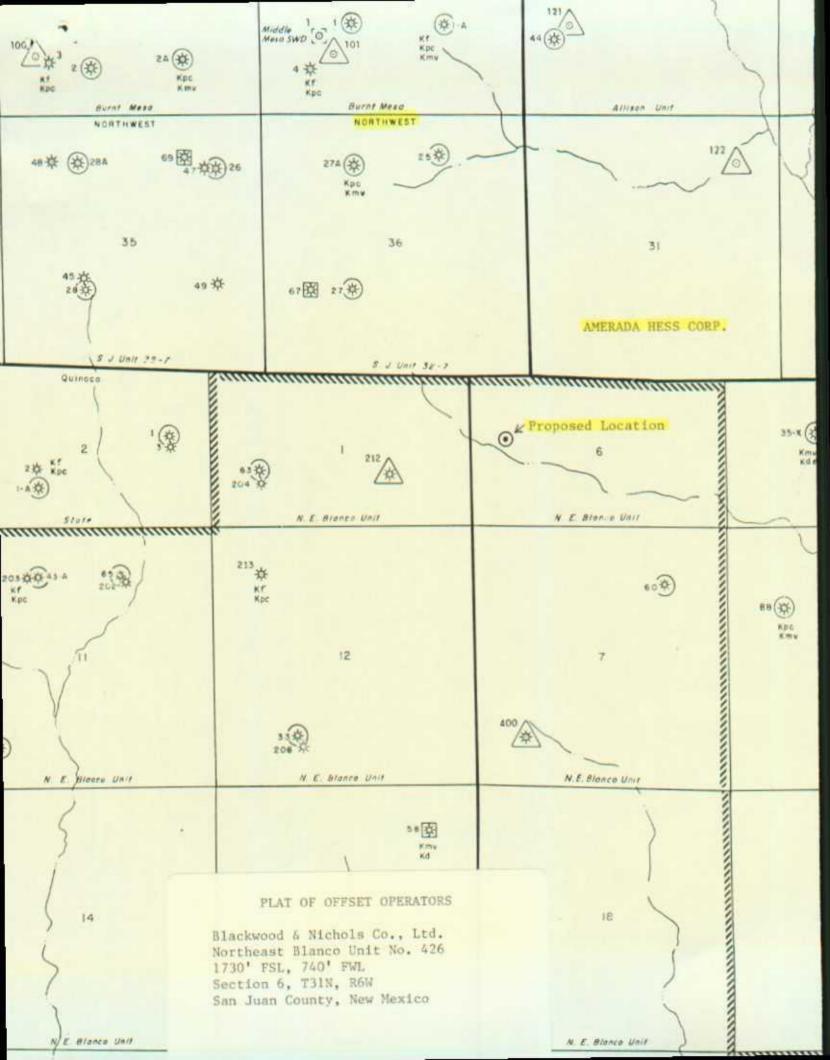
If you have any further questions regarding this well or the reports please feel free to contact us and we will do our best to be of service.

> Sincerely, Duren X. Monry

Susan K. Moore

CC: Jim Abbey, Blackwood and Nichols Co., Ltd.





La CONSD OCT 1 0 1989

OIL CONSERVATION DIV.

SANTA FE

BLACKWOOD & NICHOLS CO., LTD. P.O. BOX 1237 DURANGO, COLORADO 81302-1237

(303) 247-0728

October 4, 1989

Mr. William LeMay New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: Nonstandard Gas Well Location Northeast Blanco Unit Well No. 426 1730' FSL, 740' FWL Section 6, T31N, R6W San Juan County, New Mexico

Dear Mr. LeMay:

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Blackwood & Nichols Co., Ltd. requests administrative approval of an exception to the footage requirements of Rule 7, R-8768, for the subject well located in the Basin Fruitland Coal pool.

This is the third staking of a gas well in this quarter section as explained below. The requested exception for the No. 426 well is 1730' FSL and 740' FWL, Section 6, T31N, R7W, for a nonstandard It is necessary to avoid archaeological sites and location. topography concerns.

In 1980 the Northeast Blanco Unit No. 209, a Fruitland-Pictured Cliffs well, was proposed and staked at 1850' FSL and 790' FWL. This well was not drilled and then in 1987 was restaked at 1730' FSL and 740' FWL to avoid archaeological sites at the original footages. The APD for the No. 209 well was approved by the Bureau of Land Management on September 22, 1987, but then rescinded on November 6, 1987.

Recently the well location was restaked and named the No. 426, a Basin Fruitland Coal well. Attached are copies of C-102, Vicinity map, the archaeological survey, and plat of offset Operators for your review.

A copy of this application is being submitted to the offset Operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection and return one copy to Blackwood & Nichols.

NMOCD, NEBU #426 October 4, 1989

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Please process this application as soon as possible. Thank you for your cooperation in this matter.

Sincerely,

BLACKWOOD & NICHOLS CO., LTD.

William F. Cla

William F. Clark **Operations Manager** 

Attachments

NMOCD, Aztec Office cc: Northwest Pipeline Corp. - Farmington, NM Amerada Hess - Tulsa, OK

WAIVER:

hereby waives objection to Blackwood & Nichols Co., Ltd.'s application for an unorthodox location for their NEBU No. 426 as proposed above.

By: \_\_\_\_\_ Date: \_\_\_\_\_

BLACKWOOD & NICHOLS CO., LTD. P.O. BOX 1237 DURANGO, COLORADO 81302-1237

(303) 247-0728

October 4, 1989

Amerada Hess Corporation P. O. Box 2040 Tulsa, Oklahoma 74102

Northwest Pipeline Company P. O. Box 4289 Farmington, New Mexico 87499-4289

> Re: Unorthodox Gas Well Location Northeast Blanco Unit Well No. 426 1730' FSL, 740' FWL Section 6, T31N, R6W San Juan County, New Mexico

Gentlemen:

3

Enclosed is a copy of the referenced request submitted to New Mexico Oil Conservation Division. Please review this material and advise if you have any questions. If the proposed location is of no concern to you, please sign and mail the objection waiver to the Conservation Division and to Blackwood & Nichols' office.

We hope to drill this well in 1989 so your prompt cooperation is greatly appreciated.

Sincerely,

BLACKWOOD & NICHOLS CO., LTD.

William F. Clark Operations Manager

CERTIFIED - RETURN RECEIPT REQUESTED

| Form 3160-3<br>(November 1983)<br>(formerly 9-331C)                      | UNI<br>DEPARTMEN<br>BUREAU OF   | s           | Budget Bureau No. 1004-0136<br>Expires August 31, 1985<br>5. LEARE DESIGNATION AND BERIAL NO.<br>SF078988, NM05058 |           |                |               |   |                 |  |  |
|--|---|-------------|--|-----------|----------------|---------------|---|-----------------|--|--|
| APPLICAT   | ION FOR PERMIT  | TO DRILL,   | DEEPEN, C  | DR PL     | <b>UG BACK</b> | 6             | . IF INDIAN, ALLOTT                                 | E OR TRIBE NAME |  |  |
| 1a. TYPE OF WORK<br>b. TYPE OF WELL                                      | DRILL   | DEEPEN      |  | PLU       |                |               | . UNIT AGREEMENT<br>ortheast Bla                    |                 |  |  |
| OIL WELL   | OAS<br>WELL X OTHER   |             | BINGLE (   | x         |                |               | , FARM ON LEASE N                                   |                 |  |  |
| 2. NAME OF OPERATO   |   | hols Co., I |  | <u> </u>  |                |               | ortheast Bla<br>. WELL NO.                          | nco Unit        |  |  |
| 3. ADDRESS OF OPER   |   |             |  |           |                | -4            | 26  |                 |  |  |
|  | P. O. Box 1237,   | Durango, C  | 0 81302  |           |                | 1             | 0. FIELD AND POOL,                                  | OR WILDCAT      |  |  |
| 4. LOCATION OF WEI<br>At surface   | LL (Report location clearly an  |             | with any State re  | quirement | ts.*)          | B             | Basin Fruitland Coal                                |                 |  |  |
|  | 1730' FSL, 740'   | FWL         |  |           |                | 1             | 11. SEC., T., R., M., OR BLK.<br>AND SUBVEY OR ABEA |                 |  |  |
| At proposed pro  | d. zone   |             |  |           |                | s             | ec. 6, T31N,  | R6W             |  |  |
| 14. DISTANCE IN M  | ILES AND DIRECTION FROM NE  |             |  |           |                | 1             | 2. COUNTY OR PARIS                                  | H 18. STATE     |  |  |
|  | 18 miles SE of  | Ignacio, Co | olorado  |           |                | S             | an Juan   | New Mexico      |  |  |
| 10. DISTANCE FROM<br>LOCATION TO NI<br>PROPERTY OR LI<br>(Also to neares | CAREST  | 910'        | 16. NO. OF A0<br>2591  |           |                |               | ACREH ABBIONED<br>WELL 351.                         | 89              |  |  |
| TO NEAREST WI  | PROFOSED LOCATION <sup>®</sup><br>Ell, drilling, completed,<br>on this lease, ft. | N/A         | 19. PROPOSED<br>3300   |           | 20. 1          | Rotary<br>Rot | OR CABLE TOOLS<br>ary                               |                 |  |  |
| 21. ELEVATIONS (Sho  | w whether DF, RT, GR, etc.)   |             | 22. APPROX. DATE WORK WILL START*<br>November 30, 1989   |           |                |               |   |                 |  |  |
| 23.  |   | PROPOSED CA | SING AND CEM   | ENTING    | PROGRAM        |               | ······································              |                 |  |  |

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| SIZE OF HOLE | SIZE OF CASING | WEIGHT FER FOOT | SETTING DEPTH | QUANTITY OF CEMENT           |
|--------------|----------------|-----------------|---------------|------------------------------|
| 12-1/4"      | 9-5/8"         | 36#             | 300'          | 207 cf/circulate to surface  |
| 8-3/4"       | 7"             | 23#             | 3160'         | 744 cf/circulate to surface  |
| 6-1/4"       | 5-1/20r4-/12"  | 17#11.6#.       | 3060' - 3300' | 30 cf/circulate to liner top |

Formerly the NEBU #209: Location and access road were cleared in August, 1987.

Propose to spud in the San Jose formation. Will drill a 12-1/4"surface hole to a TD of 300'. Surface casing will be run and cemented with cement returns to surface. WOC 12 hours. Test to 600 psi/30 minutes. Drill an 8-3/4" hole to a TD of 3160' using fresh water mud. No poisonous gasses or abnormal pressures are anticipated. Run intermediate casing and cement with cement returns to surface. WOC 12 hours. Test to 1500 psi/30 minutes. Drill a 6-1/4" hole to a TD of 3300', using water and air. Run a mudlogging unit while drilling this interval. Run the production liner. A 4-1/2" liner will be cemented if the well's natural flow capacity indicates the need for fracture stimulation.

Surface ownership is Bureau of Land Management.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive sone 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 William F. Clark                         | TITLE Operations Manager              | DATE <u>September 26, 19</u> 89 |
|---|---------------------------------------|---------------------------------|
| (This space for Federal or State office use)    | · · · · · · · · · · · · · · · · · · · |                                 |
| PERMIT NO                                       | APPROVAL DATE                         |                                 |
| APPROVED BY<br>CONDITIONS OF APPROVAL, IF ANY : | TITLE                                 | DATE                            |

#### \*See Instructions 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 flatitious or fraudulant statements or representations as to any matter within its invisitetion.

Subinit to Appropriate District Office State Lease - 4 conies Foe Lease - 3 copies

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**5**.

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

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

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

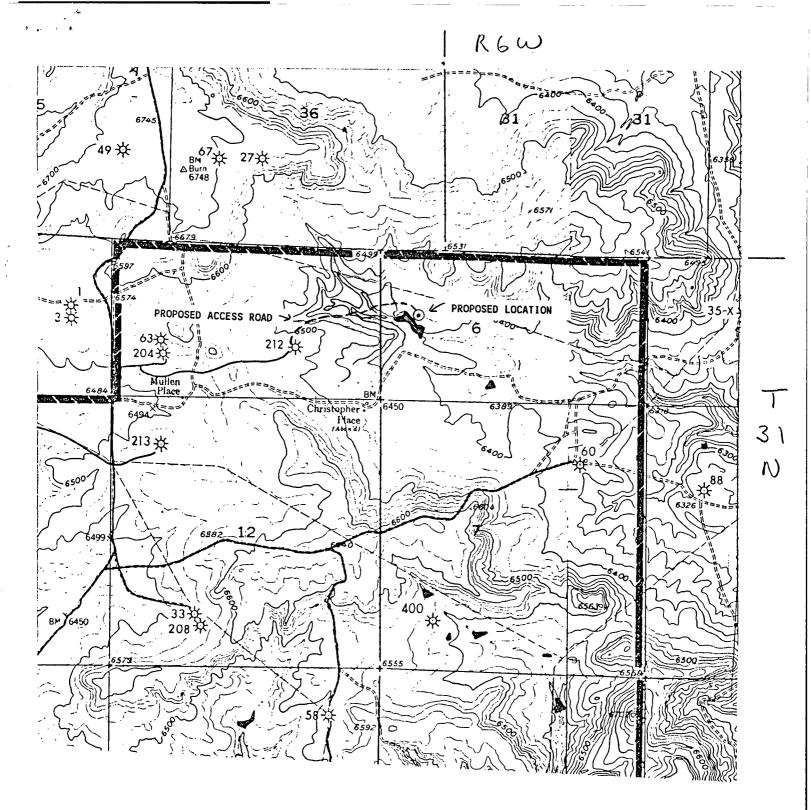
# OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

| All Distances must be from the outer boundaries o | if the section |
|---|----------------|
|---|----------------|

| Operator                | <u> </u>               |   | Lease                           |                            |                       | Well No.  |
|-------------------------|------------------------|---|---------------------------------|----------------------------|-----------------------|---|
| •                       | od &: Nicho            | ols Co., LTD.                           | ,                               | t Blanco Un                | i t                   | 426   |
|                         | Section                | Township                                | Range                           |                            |                       |   |
| L L                     | 6                      | 31 North                                | 6 West                          | NMPM                       | County<br>San         | Juan  |
| Actual Footage Local    |                        | ~                                       |                                 |                            |                       |   |
| 1730                    |                        | South line                              |                                 | feet from                  | the West              | line  |
| Ground level Elev.      |                        | ng Formation                            | Pool                            |                            | 1                     | Dedicated Acreage:                                      |
| 6419                    |                        | and Coal                                | Basin Fruitl                    |                            |                       | 351.89 Acres  |
| 1. Outline              | me acreage dedicate    | ed to the subject well by colore        | or pencil or inscisure marks on | the plat below.            |                       |   |
| 2. If more              | than one lease is do   | dicated to the well, outline eac        | t and identify the ownership it | hereof (both as to working | ug interest and n     | cyalty).  |
|                         |                        |   |                                 |                            |                       |   |
| J. II MORS<br>Imitianti | ion, force-pooling, et | ifferent ownership is dedicated<br>tc.? | w up well, have the interest (  | or all owners been conno-  | named by comn         | minifization,   |
| XX                      | Yea                    | No if answer is "ye                     | es" type of consolidation       | Unitization                |                       |   |
|                         |                        | ars and tract descriptions which        | have actually been consolidat   |                            | r                     |   |
|                         | if neccessary          | to the well until all interests he      | IVE been consolidated the       | WTERRitive                 | I formed              | ) or otherwise !  |
| or until a r            | non-standard unit, eli | liminating such interest, has be        | ea approved by the Division.    |                            |                       |   |
| [                       |                        |   |                                 |                            |                       | OR CERTIFICATION  |
| Ν                       | $\mathbf{X}$           | $\sim$                                  | $\mathbf{X}$                    |                            |                       | OR CERTIFICATION<br>certify that the information        |
| $  \rangle$             | $\mathbf{N}$           | $\setminus   $                          | , N                             | $\sim$ $\sim$              |                       | certify that the information in true and complete to th |
| $  \rangle$             | X                      | $\sim$ 1                                | $\setminus$ $\land$             | $\mathbf{N}$               | best of my knowl      |   |
|                         |                        | $\mathbf{X}$                            | $\setminus$ $ $                 |                            | William               | 7 Flant   |
|                         | $  \rangle$            | $\sim$                                  | $\langle 1 \rangle$             | $\sim$ 11                  | Signature             |   |
|                         | $  \rangle$            | X                                       | ∖ i                             |                            | William H             | F. Clark  |
|                         | <u>}</u>   `           |   | <u> </u>                        |                            | Printed Name          | ne Managa-  |
|                         |                        | //-                                     |                                 |                            | Operation<br>Pomition | ns Manager  |
| X                       | $\mathbf{X}$           |   | V V                             | $\sim$ 11                  | ·                     | d & Nichols   |
|                         | $\mathbf{N}$           | $\mathbf{X}$                            | $\mathbf{X}$                    |                            | Blackwood<br>Company  |   |
|                         | X                      | $\mathbf{X}$                            | $\lambda$ i $\lambda$           | 1                          | August 9              | , 1989  |
| $1 \times 1$            | +112 2                 | ot 107 Los                              | t 97                            | Lot 87                     | Date                  |   |
|                         | man V -                |   |                                 | 10/87                      |                       |   |
| 87                      | 77<br>NM 05058         | 7.94                                    | 7.64                            | 7,57                       | CLIDVET               | OR CERTIFICATION  |
| Lease                   |                        | A                                       | Tract 21                        |                            | SUKVE                 |   |
|                         | Ì                      | Ϋ́                                      | 1                               |                            | I hereby certit       | fy that the well location sho                           |
| \ { <b>!</b> {          | İ                      |   | · i                             |                            | on this plat w        | vas plotted from field notes                            |
|                         | i i                    |   | i                               |                            |                       | s made by me or under i<br>ad that the same is true a   |
| 740 .                   | L <sup>or</sup> i      | 1                                       | Ì                               |                            | correct to the        | e best of my knowledge a                                |
|                         | 2 i                    | l                                       | i                               |                            |                       | 4.50 EOM  |
|                         | 1 i                    | Lease SF 07                             | 8988                            |                            |                       | THE AND THE AND   |
|                         | L                      | <u>Tract</u> 5                          |                                 |                            | Ndale                 | ( Edwards)  |
|                         | 1                      |   | i                               |                            | Signature & S         | callate (1 (5 (7))                                      |
|                         | io i                   |   | İ                               |                            | Professional          | urveyor -   |
|                         | D<br>m                 |   |                                 |                            | 1.00                  | 181   |
|                         |                        |   | l                               |                            | 7                     | COLUMN SILLY  |
|                         |                        | }                                       | Ì                               |                            |                       |   |
|                         | <u>     i</u>          |   |                                 |                            | Critificate No        | 2 C. Gla  |
|                         | <u> </u>               |   |                                 |                            | Cinnerra No           | 6857  |
|                         |                        |   |                                 | 1                          | <b>├</b>              |   |
| 0 330 660               | 990 1320 165           | 80 1980 2310 2640                       | 2000 1500 100                   | 09 500 0_                  |                       |   |



# VICINITY MAP

Blackwood & Nichols Co., Ltd. Northeast Blanco Unit No. 426 1730'FSL, 740' FWL Section 6, T31N, R6W San Juan County, New Mexico 30 day wouth there with BLACKWOOD & NICHOLS CO., LTD. - Removed 12/14/89 Removed 12/14/89 P.O. BOX 1237 DURANGO, COLORADO 81302-1237

(303) 247-0728 December 11, 1989

Mr. William LeMay New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

> Non-Standard Proration Unit Re: Northeast Blanco Unit Well No. 426 1730' FSL, 740' FWL Section 6, T31N, R6W, San Juan County, NM Dedicated Acreage: 351.89 Acres (S/2)

Dear Mr. LeMay:

Blackwood & Nichols Co., Ltd. requests administrative approval to produce the above referenced well as a non-standard proration unit. The dedicated acreage includes the south half of Section 6 and Lots 8, 9, 10, and 11 (approximately 31.89 acres) as shown on the attached C-102.

Special Rule for the Basin Fruitland Coal Gas Pool, number 4, allows the spacing unit to be made up of two quarter sections. The referenced well, to insure complete and reasonable acreage utilization, includes the four lots which make up the North 1/2 of Section 6. Currently there are no wells in Section 6, T31N, R6W. However, in April, 1981, the Oil Conservation Division issued Order R-6635 which approved the SW and SE of Section 6 as non-standard units for the Fruitland-Pictured Cliff Pool, see attached. Hopefully this matter can be handled administratively.

Our records show Northwest Pipeline Corp. and Amerada Hess to be offset operators. A copy of this application is being submitted to the them by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection and return one copy to Blackwood & Nichols within thirty days.

Please process this application as soon as possible. Thank you for your cooperation in this matter.

William Fla

William F. Clark **Operations Manager** 

Attachments

NMOCD, Aztec Office cc: Northwest Pipeline Corp. - Farmington, NM Amerada Hess - Tulsa, OK

WAIVER:

hereby waives objection to Blackwood & Nichols Co., Ltd.'s application for a non-standard proration unit for the Northeast Blanco Unit #426 as proposed above.

By:

Date:

Justi to Appropriate Distinct Office State Lease - 4 copies Foo Lesse - 3 copies

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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

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

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

#### WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

| Operator                              |   |  | Leans  |                         | i  | Well No.                                 |               |
|---------------------------------------|---|--|--|-------------------------|--|--|---------------|
| Blackwood                             | &: Nichols Co.,   | LTD.   | Northeast  | Blanco Ur               |  | 426                                      |               |
| Unit Lotter Section                   | 5 Township<br>5 31 No   | orth   | Range<br>6. West                                     | NMPM                    | County<br>San  | Juan                                     | . <u></u>     |
| Actual Footage Location of            | -   |  | 1  | NMP                     |  |  | <u></u>       |
|                                       | rom the South   | line and                                     | 740  | leet from               | the Wes  | t line                                   |               |
| Ground level Elev.                    | Producing Formation   |  | Pool   |                         |  | Dedicated Acreage:                       |               |
| 6419'                                 | Fruitland Coal  |  | Basin Fruitla  |                         |  | 351.89 A                                 | cres          |
| 1. Outline the ac                     | reage dedicated to the subject  | well by colored per                          | icul or hachura marks on th                          | e plat bolow.           |  |  |               |
| 2. If more than                       | one ionse is dodicated to the we                                      | oll, outline each and                        | l identify the ownership the                         | reof (both as to work   | ing interest and r   | oyalty).                                 |               |
|                                       | one lease of different ownership<br>res-pooling, etc.?                | p is dedicated to th                         | e well, have the interest of                         | all owners been cons    | dated by comm  | munitization,                            |               |
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| if answer is "no<br>this form if nece | " list the owners and tract desc<br>resary.                           | npuons which have                            | actually been consolidated                           | L (Use reverse ade o    | 4  |  |               |
| No allowable w                        | ill be assigned to the well until<br>andard unit, eliminating such is | all interests have b<br>sterest, has been ap | cen consolidated (by comm<br>proved by the Division. | unitization, unitizatio | n, forced-poolin;  | g, or otherwise)                         |               |
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|                                       |   |  | $\setminus$ $\mid$ $\setminus$                       | N                       | Signature  |  |               |
|                                       |   | N  |  | $\setminus$             | William  | F. Clark                                 |               |
|                                       |   |  |  | $\mathbf{X}$            | Printed Name   |  |               |
| <u> </u>                              |   |  | <u>_</u>   |                         | and the second sec | ns Manager                               |               |
|                                       |   |  | N  |                         | Pontion  |  |               |
|                                       | i   |  | N  |                         | BLACKWOO<br>Company  | d & Nichols                              |               |
|                                       | X X   |  | $\langle i \rangle$                                  |                         | August 9   | . 1989                                   |               |
| Loti                                  | 12 20+107   | Lot 9  |  | Lot 87                  | Date   |  |               |
|                                       |   |  |  |                         |  |  |               |
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|                                       | Trac  | <u>st 5</u>                                  |  |                         | Ndale  |  | (e'b)         |
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## STATE OF NEW MEXICO E' RGY AND MINERALS DEPARTME OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 7187 Order No. R-6635

APPLICATION OF BLACKWOOD & NICHOLS CO., LTD. FOR FOUR NON-STANDARD PRORATION UNITS, SAN JUAN COUNTY, NEW MEXICO.

## ORDER OF THE DIVISION

## BY THE DIVISION:

This cause came on for hearing at 9 a.m. on March 11, 1981, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>7th</u> day of April, 1981, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Blackwood & Nichols Co., Ltd., seeks approval of the following four Fruitland and Pictured Cliffs non-standard gas proration units:

a 185.68-acre unit comprising the SW/4 of Section 1, Township 31 North, Range 7 West; a 181.4-acre unit comprising the SE/4 of said Section 1; a 176.68-acre unit comprising the SW/4 of Section 6, Township 31 North, Range 6 West; and a 175.21-acre unit comprising the SE/4 of said Section 6, all of said units to be dedicated to wells to be drilled at standard locations thereon.

(3) That the entire non-standard proration units may reasonably be presumed productive of gas from the Fruitland and Pictured Cliffs formations and that each non-standard gas -2-Case No. 7187 Order No. R-6635

proration unit can be efficiently and economically drained and developed by the aforesaid wells.

(4) That approval of the subject application will afford the applicant the opportunity to produce his just and equitable share of the gas in the Fruitland and Pictured Cliffs formations under each of the proposed non-standard proration units, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

#### IT IS THEREFORE ORDERED:

(1) That four Fruitland and Pictured Cliffs non-standard gas proration units in San Juan County, New Mexico, are hereby established and dedicated for the applicant, Blackwood & Nichols Co., Ltd., as follows:

a 185.68-acre unit comprising the SW/4 of Section 1, Township 31 North, Range 7 West; a 181.4-acre unit comprising the SE/4 of said Section 1; a 176.68-acre unit comprising the SW/4 of Section 6, Township 31 North, Range 6 West; and a 175.21-acre unit comprising the SE/4 of said Section 6, all of said units to be dedicated to wells to be drilled at standard locations thereon.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

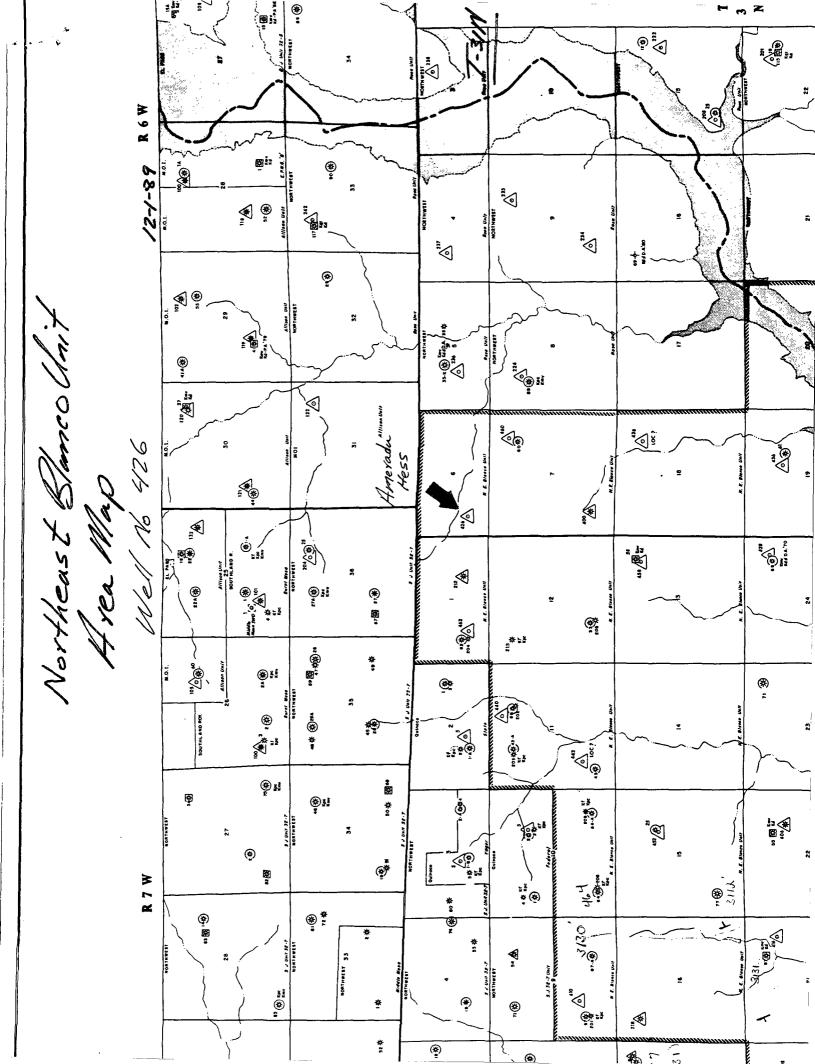
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

Director

STATE OF NEW MEXICO

JOE D. RAMEY

SEAL fd/





STATE OF THEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION OFFICE

GARREY CARRUTHERS GOVERNOR

'89 DEC 15 AM 8 31

1000 PIO UPAZOS POAD AZTEC, NEW MEXICO 87410 (505) 334-0178

Date: 12-13-87

MITTN: Amilko Stagne

Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088

Re: Proposed MC\_\_\_\_\_ Proposed DHC\_\_\_\_\_ Proposed NSL\_\_\_\_\_ Proposed SWD\_\_\_\_\_ Proposed WFX\_\_\_\_\_ Proposed PMX\_\_\_\_\_ NSP\_X

Gentlemen:

| I have examined the application dated <u>12-13-89</u>                                    |
|--|
| for the Blichwood + Nichols Co. Ltd N-E. B.16. #4726<br>Operator Lease & Well No.        |
| Operator Lease & Well No.  |
| $\frac{2-6\cdot 31N\cdot 6u}{\text{Unit. S-T-R}}$ and my recommendations are as follows: |
|  |
| Approve administratively if possible   |
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|  |

Yours truly,

Boach vere-

OIL CONSERVATION DIVISION RECEIVED

BLACKWOOD & NICHOLS CO., LTD. P.O. BOX 1237

'89 DEC 21 AM 10 28

DURANGO, COLORADO 81302-1237

(303) 247-0728

December 11, 1989

Mr. William LeMay New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: Non-Standard Proration Unit Northeast Blanco Unit Well No. 426 1730' FSL, 740' FWL Section 6, T31N, R6W, San Juan County, NM Dedicated Acreage: 351.89 Acres (S/2)

Dear Mr. LeMay:

Blackwood & Nichols Co., Ltd. requests administrative approval to produce the above referenced well as a non-standard proration unit. The dedicated acreage includes the south half of Section 6 and Lots 8, 9, 10, and 11 (approximately 31.89 acres) as shown on the attached C-102.

Special Rule for the Basin Fruitland Coal Gas Pool, number 4, allows the spacing unit to be made up of two quarter sections. The referenced well, to insure complete and reasonable acreage utilization, includes the four lots which make up the North 1/2 of Section 6. Currently there are no wells in Section 6, T31N, R6W. However, in April, 1981, the Oil Conservation Division issued Order R-6635 which approved the SW and SE of Section 6 as non-standard units for the Fruitland-Pictured Cliff Pool, see attached. Hopefully this matter can be handled administratively.

Our records show Northwest Pipeline Corp. and Amerada Hess to be offset operators. A copy of this application is being submitted to the them by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection and return one copy to Blackwood & Nichols within thirty days.

Please process this application as soon as possible. Thank you for your cooperation in this matter.

Sincerely, William Fla

William F. Clark Operations Manager

Attachments

cc: NMOCD, Aztec Office Northwest Pipeline Corp. - Farmington, NM Amerada Hess - Tulsa, OK

WAIVER: ,

<u>Morthwest</u> <u>Precure</u> hereby waives objection to Blackwood & Nichols Co., Ltd.'s application for a non-standard proration unit for the Northeast Blanco Unit #426 as proposed above.

By: VanIC. Thompson

\_\_\_\_\_ Date: <u>12/19/79</u>

Prull NSP- 1590(L)

BLACKWOOD & NICHOLS CO., LTD. P.O. BOX 1237 DURANGO, COLORADO 81302-1237

(303) 247-0728

November 22, 1989

Mr. Michael E. Stogner Oil Conservation Division State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87504

> Re: Unorthodox Coal Gas Well Location Northeast Blanco Unit No. 426 1730' FNL, 740' FWL L, Section 6, T31N, R6W Basin Fruitland Coal Pool San Juan County, New Mexico

Dear Mr. Stogner:

.

The discrepancy you noted between the requested footages and the archaeological report had been addressed by the report provider in an addendum letter to the Bureau of Land Management archaeologist. A copy is attached.

If you have any additional question, please advise.

1 1

Sincerely,

BLACKWOOD & NICHOLS CO., LTD.

William F. Clark Operations Manager

WFC:1k1

Attachment

ې . . . .



Peggy Gaudy Bureau of Land Management 1235 La Plata Highway Farmington, New Mexico 87401 October 2, 1989

Dear Ms. Gaudy:

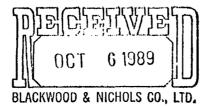
This letter serves as an addendum to Moore Anthropological Report 89-41B, regarding well Northeast Blanco Unit 426. This well has been restaked for the 4th time at the footages 1740' F/SL, 740' F/WL, T31N, R6W, Sec. 6. These are the same footages as the second staking of the proposed location which was then named the Northeast Blanco Unit 209 (D.C.A. Technical Report No. 1211, Roger A. Moore, August 1987). (Please note that these footages as mentioned in M.A.R. Technical Report No. 89-41B were listed incorrectly as 1739' F/SL, 749' F/WL due to a typo.) As this area has now been surveyed twice and site LA64837 (NM-01-34755; DCA-87-75) will be 125 ft. from the newly staked location, archaeological clearance is recommended.

If you have any further questions regarding this well or the reports please feel free to contact us and we will do our best to be of service.

Sincerely, suit.1

Susan K. Moore

CC: Jim Abbey, Blackwood and Nichols Co., Ltd.



STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS

December 8, 1989

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Blackwood & Nichols Co. P.O. Box 1237 Durango, CO 81302

Attention: Al Rector

RE: Application for an Unorthodox Coal Gas Well Location, N.E. Blanco Unit Well No. 426; 1730' FSL - 740' FWL, L-6-T31N-R6W, Basin Fruitland Coal Gas Pool, San Juan County, New Mexico.

Dear Mr. Rector:

Per your letter dated November 22, 1989 with attachments which were faxed to me on December 7, 1989, it appears that there is adequate information to support the unorthodox coal gas well location. However, further review of this filing shows that pursuant to Rules 4, 5, and 6 of Division Order No. R-8768, the proposed dedicated acreage for this well is non-standard and will require authorization as such. Please supplement this filing with a proper application for a non-standard proration unit pursuant to Rule 6 of said Division Order R-8768.

Thank you for your cooperation in this matter.

Sincerely, Cartur

Michael E. Stogner Petroleum Engineer

MES/ag

cc: Oil Conservation Division - Aztec US Bureau of Land Management - Farmington

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Ganci Uffice Sine Lesse - 4 copies For Lesse - 3 copies

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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

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

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

### WELL LOCATION AND ACREAGE DEDICATION PLAT All Distances must be from the outer boundaries of the section

| Operator            |                     |                |  | ·                  | Lean                                  |              |                  |               |           |             | ell No.                                |  |
|---------------------|---------------------|----------------|--|--------------------|---------------------------------------|--------------|------------------|---------------|-----------|-------------|--|--|
| -                   | od &:               | Nicho          | ols Co.,                                   | LTD.               | 1                                     | east         | Blanco           | Un            | it        | <b>*</b>    | ell 140.<br>42                         | 6                                      |
| Unit Lotter         | Section             | <u></u>        | Township'                                  |                    | Range                                 |              |                  |               |           | !           |  | -                                      |
| $\mathbf{L}$        | 6                   |                | 31 Nor                                     | th                 | 6. Wes                                | et           | N                | (MPM          | · · · ·   | Jan J       | uan                                    |  |
| Actual Footage Loc  | ation of W          | /ell:          |  |                    |                                       |              | A                |               |           |             |  |  |
| 1730                | foot from           | n the          | South                                      | line and           | 740                                   |              | fee              | t from t      | ha        | West        | line                                   |  |
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| 6419 <b>'</b>       |                     | Fruitl         | and Coal                                   |                    | Basin F                               | cuitla       | nd Coal          |               |           |             | 51.89                                  | -                                      |
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| $  \rangle \rangle$ | ot 117              | $1 \ge 2$      | ot 107                                     | Lot 9              | 7-1                                   | $  \rangle$  | Lot 87           | הן (          | Date      | ·····       |  |  |
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STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT **OIL CONSERVATION DIVISION** 

GARREY CARRUTHERS GOVERNOR

November 14, 1989

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Blackwood & Nichols Co., Ltd. P.O. Box 1237 Durango, CO 81302-1237

Attention: William F. Clark, **Operation** Manager

> RE: Application of an Unorthodox Coal Gas Well Location; N.E. Blanco Unit Well No. 426; 1730' FSL - 740' FWL, L-6-T31N-R6W, Basin Fruitland Coal Gas Pool. San Juan County. New Mexico.

Dear Mr. Clark:

It appears that the information in the archeological survey does not correspond to your application's cover letter dated October 4, 1989. On page 4 of the archeological survey, the legal description of the subject well for this report shows to be 1850' FSL - 790' FWL of Section 6. The second to last paragraph on that same page indicates that the original well site for the No. 209 well in 1980 was at the same aforementioned location; in 1987 a second location was surveyed at 1739' FSL - 749' FWL. The last sentence in that paragraph shows that this survey is for the same location as the original. On page 6 of the archeologicl report it is recommended that the 1850' FSL - 790' FWL site be cleared.

Therefore, I am somewhat confused with your application for an unorthodox 1730' FSL -740' FWL. Please submit any additional information that you feel would serve to help me understand this filing.

Sincerely,

Michael E. Stogner Chief Hearing Officer/Engineer

Oil Conservation Division - Aztec cc: US Bureau of Land Management - Farmington William J. LeMay

#### PROJECT AREA

## Northeast Blanco Unit 426

### Legal Description: T.31 N, R. 6 W, Section 6, S 1/2 NW 1/4 SW 1/4 T.31 N, R. 7 W, Section 1, S 1/2 NE 1/4 SE 1/4 NE1/4 SW 1/4 SE 1/4 Section 6, 1850' F/SL, 790' F/WL

New Mexico Prime Meridian, San Juan County, New Mexico, 6425' Elevation Map Source: U.S.G.S. 7.5' Burnt Mesa, New Mexico 1954 (Photorevised 1971) Land Jurisdiction: Bureau of Land Management, Farmington Resource Area

Project Area: 300' X 250' (well pad) 380' X 340' (well pad with construction zone) 40' x 2400' (access/pipeline ROW) Surveyed Area: 580' x 540' (well pad with construction and buffer zones) 140' x 2400' (access/pipeline ROW with buffer) 14.90 Acres

Environment: The proposed well is on a gentle south-facing slope on the north side of a broad gently sloping upland valley (Figure 1). This valley drains eastward into Cottonwood Canyon. An earthen dam has been constructed across the valley a short distance south-southeast of the proposed well pad. The area has a 30% scrubland/woodland mix cover consisting of sagebrush, grassed, snakeweed, annuals, Prickly Pear and Barrel Cactus, juniper and pinyon pine. The woodland is mainly in the north buffer area upslope of the center stake.

Project Description: This is a third staking of a proposed gas well location. The original NEBU 209 was staked at these same footages in 1980 and surveyed by Whitten and Reed (1980), however, the well was never built. In 1987 the area was resurveyed by Moore (1987) again as the NEBU 209 at 1739' F/SL, 749' F/WL and an access road/pipeline right of way was added. At this time site LA64837 (DCA-89-75) was found 125 ft. from the east side of the stake location. This well was also not built. This survey area is at the same footages as Whitten and Reeds survey area for the NEBU 209 but is the well is now called the NEBU 426.

From the west side of the well location the combined access road/pipeline ROW goes west and southwestward across three arroyos. The ROW follows and old two-track road parallel to the south side of the last arroyo to the west for about 200 ft. The route then starts to ascend the north slope of a long eastwest ridge. At the top of the ridge the ROW parallels the north side of a fence line as it continues west along the ridge top to a fence corner. The ROW goes south-southwest about 175 ft. to well Northeast Blanco Unit 212 (T31N, R7W, Sec.1, 990'F/SL, 1650' F/EL).

OCT 1 0 1989 OL CONSERVATION DIV.

BLACKWOOD & NICHOLS CO., LTD. P.O. BOX 1237 DURANGO, COLORADO 81302-1237

(303) 247-0728

October 4, 1989

Mr. William LeMay New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

> Re: Nonstandard Gas Well Location Northeast Blanco Unit Well No. 426 1730' FSL, 740' FWL Section 6, T31N, R6W San Juan County, New Mexico

Dear Mr. LeMay:

Blackwood & Nichols Co., Ltd. requests administrative approval of an exception to the footage requirements of Rule 7, R-8768, for the subject well located in the Basin Fruitland Coal pool.

This is the third staking of a gas well in this quarter section as explained below. The requested exception for the No. 426 well is 1730' FSL and 740' FWL, Section 6, T31N, R7W, for a nonstandard location. It is necessary to avoid archaeological sites and topography concerns.

In 1980 the Northeast Blanco Unit No. 209, a Fruitland-Pictured Cliffs well, was proposed and staked at 1850' FSL and 790' FWL. This well was not drilled and then in 1987 was restaked at 1730' FSL and 740' FWL to avoid archaeological sites at the original footages. THe APD for the No. 209 well was approved by the Bureau of Land Management on September 22, 1987, but then rescinded on November 6, 1987.

Recently the well location was restaked and named the No. 426, a Basin Fruitland Coal well. Attached are copies of C-102, Vicinity map, the archaeological survey, and plat of offset Operators for your review.

A copy of this application is being submitted to the offset Operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection and return one copy to Blackwood & Nichols.