

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS
GOVERNOR

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

August 15, 1989

RECEIVED

AUG 22 1989

OIL CON. DIV.
UNIT 2

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

Attention: William F. Clark,
Operations Manager

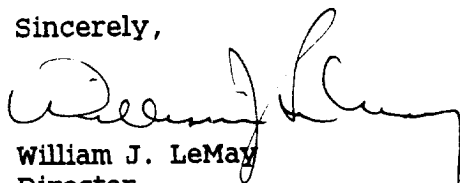
Administrative Order NSL-2686

Dear Mr. Clark:

Reference is made to your application of May 8, 1989 for a non-standard coal gas well location for your Northwest Blanco Unit Well No. 475 to be located 1470 feet from the South line and 1760 feet from the East line (Unit J) of Section 19, Township 30 North, Range 7 West, NMPM, Basin Fruitland Coal Gas Pool, Rio Arriba County, New Mexico. The E/2 equivalent of said Section 19 shall be dedicated to the well forming a standard 320-acre, more or less, gas spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 8 of the Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool as promulgated by Division Order No. R-8768, the above-described unorthodox coal gas well location is hereby approved.

Sincerely,



William J. LeMay
Director

WJL/MES/ag

cc: Oil Conservation Division - Aztec
New Mexico Oil & Gas Engineering Committee - Hobbs
US Bureau of Land Management - Farmington



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

Date: 8-8-89

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

Re: Proposed MC _____
Proposed DHC _____
Proposed NSL X _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated _____
for the Blackwood & Nichols N.E.B.U. #475
Operator Lease & Well No.

J-19-30N-7W and my recommendations are as follows:
Unit, S-T-R

Approve

Yours truly,

E. A. Bush

BLACKWOOD & NICHOLS CO., LTD.
P.O. BOX 1237
DURANGO, COLORADO 81302-1237
(303) 247-0728

RECEIVED

MAY - 8 1989

OIL CONSERVATION DIV.
SANTA FE

April 29, 1989

Letter to E. Boych

5/23/89

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

Re: Unorthodox Gas Well Location
Northeast Blanco Unit No. 475
1470' FSL - 1760' FEL, Sec. 19, T30N, R7W
Rio Arriba Co., New Mexico

RECEIVED

MAY 26 1989

OIL CON. DIV.
DIST 738

Blackwood & Nichols Co., Ltd. requests administrative approval of an exception to the location requirements of Rule 7, for the subject well, located in the Basin Fruitland Coal Pool.

This request is for exception due to topography. A Vicinity Map and C-102 are attached for your reference. As evidenced by the Vicinity Map, the entire northeast quarter is under Navajo Lake. This location was spotted to take advantage of the existing well pad of the Northeast Blanco Unit No. 35. The location does maintain the minimum footage standoff from all existing Fruitland coal wells.

The east half of Section 19, T30N, R7W, will be dedicated to this well. All operators of offset proration units have been supplied a copy of this request by certified mail.

Your prompt consideration of this request is appreciated.

Sincerely,

William F. Clark

William F. Clark
Operations Manager
Blackwood & Nichols
Co., Ltd.

Waiver of Objection

Meridian Oil Co. hereby waives objection to the proposed
unorthodox location of the Northeast Blanco Unit No. 475.
By: _____ Date: _____

OIL CONSERVATION DIVISION

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

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

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

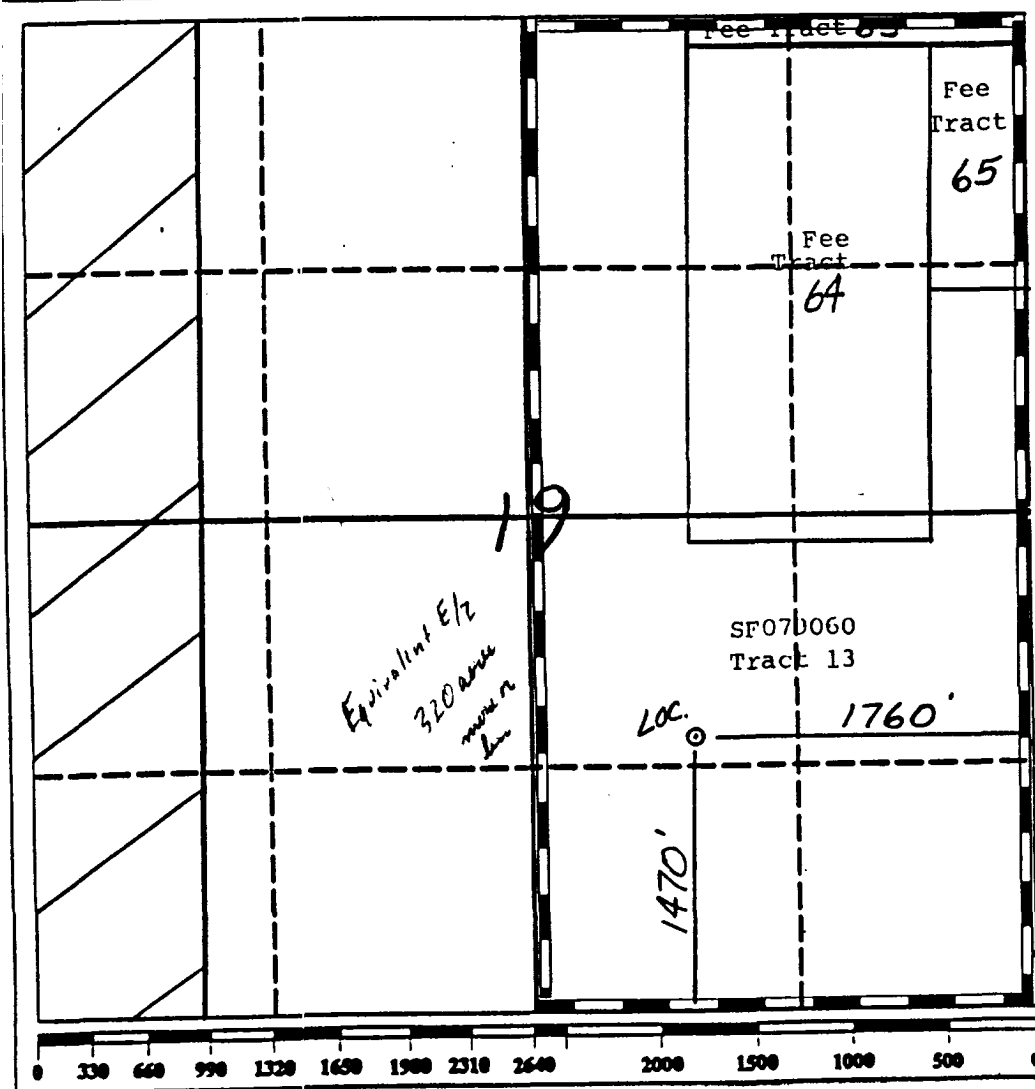
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Blackwood & Nichols Co., LTD.			Lease Northeast Blanco Unit		Well No. 475
Unit Letter J	Section 19	Township 30 North	Range 7 West	County NMPM Rio Arriba	
Actual Footage Location of Well: 1470 feet from the South line and 1760 feet from the East line					
Ground level Elev. 6292'	Producing Formation Fruitland Coal		Pool Basin Fruitland Coal		Dedicated Acreage: 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☒ Yes ☐ No If answer is "yes" type of consolidation Unitization
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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

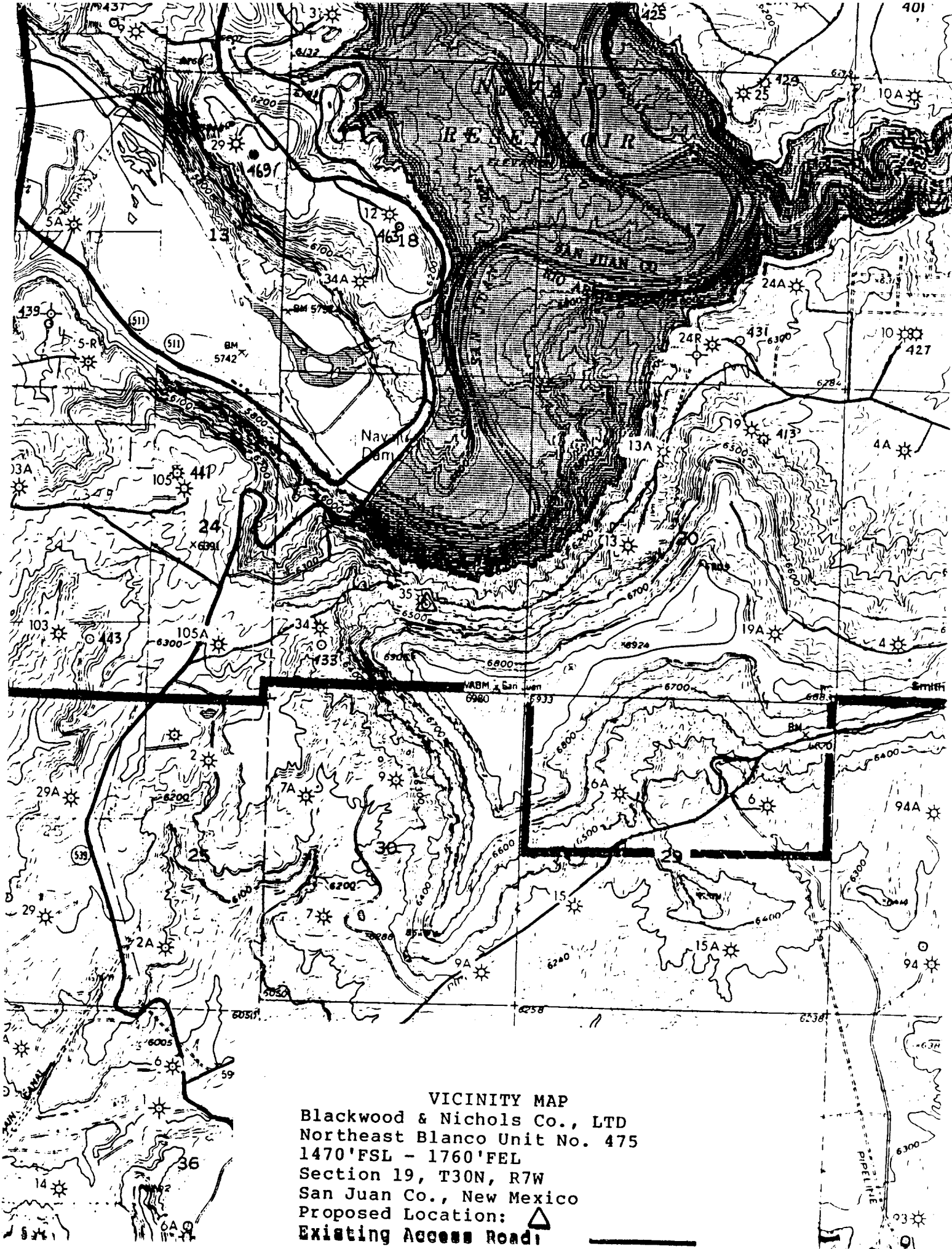
I hereby certify that the information contained herein is true and complete to best of my knowledge and belief.

Signature William F. Clark
Printed Name William F. Clark
Position Operations Manager
Company Blackwood & Nichols Co.
Date May 1, 1989

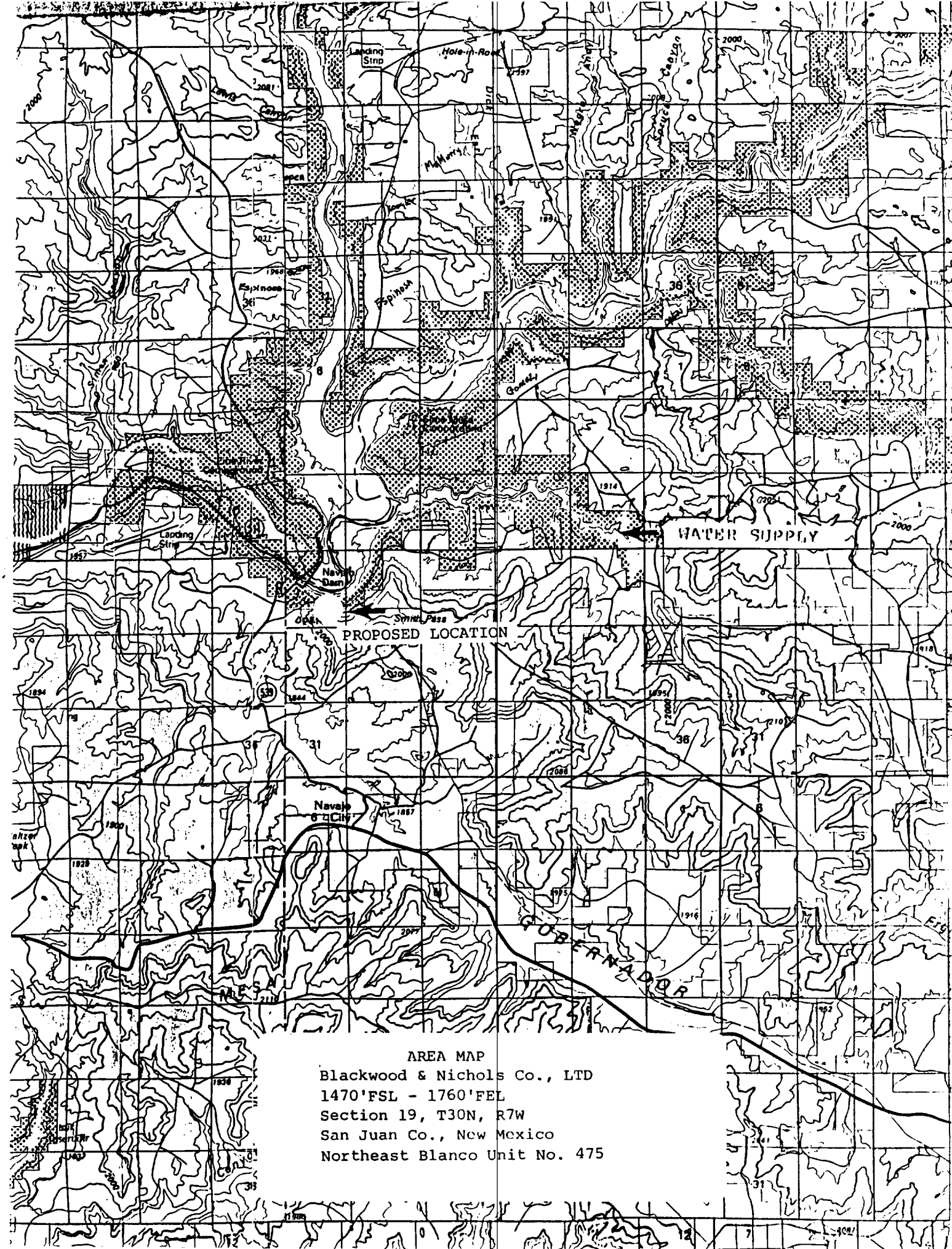
SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes actual surveys made by me or under supervision, and that the same is true correct to the best of my knowledge and belief.

Date Surveyed 4-14-89
Signature of Professional Surveyor Neale C. Edwards
Professional Surveyor Seal (857)
Certificate No. 6857



VICINITY MAP
Blackwood & Nichols Co., LTD
Northeast Blanco Unit No. 475
1470'FSL - 1760'FEL
Section 19, T30N, R7W
San Juan Co., New Mexico
Proposed Location:
Existing Access Road:



AREA MAP
Blackwood & Nichols Co., LTD
1470'FSL - 1760'FEL
Section 19, T30N, R7W
San Juan Co., New Mexico
Northeast Blanco Unit No. 475



LTR



Job separation sheet

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990
5. Lease Designation & Serial #:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill, deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well: oil well _____ gas well ☒ other _____

2. Name of Operator: Blackwood & Nichols Co., Ltd.

3. Address of Operator: P.O. Box 1237, Durango, CO 81302-1237

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

1470' FSL, 1760' FEL - Sec. 19, T30N, R7W

SF-079060

6. If Indian, Allottee/Tribe Name

7. If Unit or CA, Agmt. Design.:

NE Blanco Unit

8. Well Name and No.:

NEBU# 475

9. API Well No.:

30-039-24466

10. Field & Pool/Expltry Area:

Basin Fruitland Coal

11. County or Parish, State:

Rio Arriba, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other: Extension request on approved APD
	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection

13. 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.)*

Blackwood & Nichols Co., Ltd. requests a six month extension of the approved Application for Permit to Drill which was approved May 1, 1989. We plan to drill this well during the second or third quarter of 1990.

RECEIVED
MAR 28 1990
OIL CON. DIV.
DIST. 3

THIS APPROVAL EXPIRES Dec 12 1990

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

Signed: William F. Clark WILLIAM F. CLARK Title: OPERATIONS MANAGER

(This space for Federal or State office use)

Approved By _____ Title _____

Conditions of approval, if any: _____

APPROVED

Date: 19 March 90

MAR 26 1990

Ken Townsend

FIELD AREA MANAGER

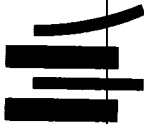
ADMINISTRATIVE RESOURCE AREA

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

[illegible]



LTR



Job separation sheet

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

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

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

OIL CONSERVATION DIVISION

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

WELL API NO. 30-039-24466
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No. Fee
7. Lease Name or Unit Agreement Name Northeast Blanco Unit
8. Well No. 475
9. Pool name or Wildcat Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	
2. Name of Operator Blackwood & Nichols Co. A Limited Partnership	
3. Address of Operator P. O. Box 1237, Durango, Colorado 81302	
4. Well Location Bottom Hole Unit Letter G : 2460±50 Feet From The North Line and 1106±50 Feet From The East Line Surface: Section J 19 1470' FSL - 1760' FEL Township 30N Range 7W NMPM <i>San Juan</i> County <i>Rio Arriba</i>	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 6389'	

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

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
OTHER: <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
	CASING TEST AND CEMENT JOB <input type="checkbox"/>
	OTHER: Correction of Elevation and Direction <input checked="" type="checkbox"/>

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Ground Elevation corrected to 6389'. Altered the direction of the deviated well bore from due North to North 26° East. This places the bottom hole location 2460' ± 50' FNL, 1106' ± 50' FEL, Section 19, T30N, R7W, ~~Rio Arriba~~ *San Juan* County, New Mexico.

RECEIVED
OCT 11 1990
OIL CON. DIV..
DIST. 3

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

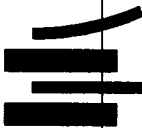
SIGNATURE R.W. Williams TITLE Administrative Manager DATE 10-10-90
TYPE OR PRINT NAME R. W. Williams TELEPHONE NO.

(This space for State Use)

APPROVED BY *Emilio Lopez* DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE OCT 19 1990
CONDITIONS OF APPROVAL, IF ANY:



LTR



Job separation sheet

NE Blanco Unit #475

J-19-30N-7W

BLACKWOOD & NICHOLS CO.,LTD.

NSL-2686F30-039-244666-15-89

2310/N; 1760/E Bottom Hole6389

F. loc. 1470/S; 1760/E surface Elev. 6292 GL Spd. Cu. ft. Cu. ft. Cu. ft.

Casing S. @ W Sx. Int. @ W Sx. Pr. @ W Sx. T. @ T Gas

Csg. Perf. Prod. Stim.

BO/D80/D

MCF/D AfterHrs. SICP PSI After Days GOR1st Del. Gas

I.P.1st Del. Oil

TOPS		NiTD	X	Well Log	TEST DATA								
Ojo Alamo		C-103	//	Plat	X	Schd.	PC	Q	PW	PD	D	Ref.No.	
Kirtland		C-104		Electric Log									
Fruitland				C-122									
Pictured Cliffs		Ditr		Dfa									
Chacra		Dcitr		Dac									
Cliff House		Surface location in RA Bottom Hole in SJ											
Menefee													
Point Lookout													
Mancos													
Gallup													
Greenhorn													
Dakota													
Entrado													
					E/320 Acres								

P

o

o

BasinFrCoalCo. RA s 19 T 30N R 7W UJ Oper. Blackwood & Nichols Lse. NE Blanco Unit No. 475



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LAPLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401



IN REPLY REFER TO:

SF-079060 (WC)
3162.3-1.0 (019)

CERTIFIED--RETURN RECEIPT REQUESTED
P 337 993 566

JAN. 3 1991

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

Gentlemen:

Enclosed is your Application for Permit to Drill (APD) well No. 475 Northeast Blanco Unit, NW/4SE/4 sec. 19, T. 30 N., R. 7 W., Rio Arriba County, New Mexico, lease SF-079060. The subject APD is rescinded and returned due to the resubmittal of a new APD for the 475.

You are required to request surface rehabilitation instructions from this office if construction activities occurred on the referenced drill site. If this office does not receive comment within 30 days, it will presume that no construction occurred and proceed accordingly. Later discovery that construction activities have in fact occurred, may result in assessment of liquidated damages.

Sincerely,

/s/ John L. Keller

FOR
Ron Fellows
Area Manager

RECEIVED
JAN 04 1991
OIL CON DIV
DIS

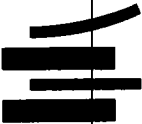
cc:

New Mexico Oil Conservation Division, 1000 Rio Brazos Road, Aztec, NM 87410

ABANDONED LOCATION
ABANDONED LOCATION



LTR



Job separation sheet

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.

1. oil well — gas well <input checked="" type="checkbox"/> other
2. NAME OF OPERATOR Blackwood & Nichols Co., Ltd.
3. ADDRESS OF OPERATOR P.O. Box 1237, Durango, Colorado 81302-1237
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) AT SURFACE: 1470' FSL - 1760' FEL AT TOP PROD. INTERVAL: 2310' FNL - 1760' FEL AT TOTAL DEPTH: 2310' FNL - 1760' FEL
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE. REPORT, OR OTHER DATA

5. LEASE Surface: SF079060 Bottom hole: Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME Northeast Blanco
8. FARM OR LEASE NAME Northeast Blanco Unit
9. WELL NO. 475
10. FIELD OR WILDCAT NAME Basin Fruitland Coal
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19, T30N, R7W
12. COUNTY OR PARISH 13. STATE Rio Arriba NM
14. API NO.
15. ELEVATIONS (SHOW DF, KDB, AND WD) 6292' GL

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	
FRACTURE TREAT	
SHOOT OR ACIDIZE	
REPAIR WELL	
PULL OR ALTER CASING	
MULTIPLE COMPLETE	
CHANGE ZONES	
ABANDON*	
(other) Change Bottom Hole location	footage by directional drilling.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*
- The NEBU 475 will be directionally drilled to a Bottom Hole location 1500 horizontal feet due north of the surface location. The surface location remains on Bureau of Reclamation. The Bottom Hole location is now on Fee Mineral. Copies of the State APD and Archaeological Survey are attached. The surface location has been onsite by both the BLM and Bureau of Reclamation. See original 475 APD approved 06-13-89. Your approval of this Sundry as Surface Owner is requested.

RECEIVED

MAR 14 1991

OIL CON. DIV.,

DIST. 3

Subsurface Safety Valve: Manu. and Type

Set @ Ft.

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

SIGNED R. W. McLaughlin TITLE Administrative Mgr. DATE 8/20/90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

NMOCD

*See Instructions on Reverse Side

RECEIVED
JAN 1 1961
U.S. AIR FORCE
OFFICE OF THE
JOINT CHIEFS OF STAFF
WASHINGTON, D.C.

Project No. 89-100

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

An Archaeological Survey of
proposed well location NEBU 475
east of Earl Canyon, San Juan County,
New Mexico.

for

Blackwood and Nichols Co., Ltd.

by

Susan K. Moore

Submitted by

Roger A. Moore, Jr.
Principal Investigator

December 19, 1989

Moore Anthropological Research

Technical Report No. 89-100

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

Rec'd 12/20/89

ABSTRACT

On November 9, 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 east of Earl Canyon (T31N, R7W, Sec. 22, 1200' F/SL, 840' F/WL), San Juan County, New Mexico, and is under the jurisdiction of the Bureau of Land Management, Farmington Resource Area. A total of 11.78 acres (4.75 hectares) were inventoried.

No archaeological sites but three isolated loci were discovered during the survey.

The documentation of the isolates in the field has sufficiently exhausted their research potential for the purpose of this project. Archaeological clearance is recommended.

INTRODUCTION

On November 9, 1989 Moore Anthropological Research (M.A.R.) conducted a Class III archaeological survey for Blackwood and Nichols Co., Ltd. of Durango, Colorado. Ron Thompson of Blackwood and Nichols requested the survey on October 18, 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 heritage. As a result of this growing concern federal, state and local governments have passed laws and enacted ordinances designed to protect and conserve archaeological, historical, and anthropological resources. The principal legislation affecting federal lands, federally administered projects, 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.91-252), Executive Order No. 11593 of 1971 (36 F.R.8921, 16 U.S.C. 470), the 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 legislation affecting non-federal lands in New Mexico is the Cultural Properties Act. Work conducted in the course of this project is intended to comply with the above-mentioned laws and is governed by the stipulations of Cultural Resource Permit 77-2920-89-D.

Susan K. Moore, M.A.R. archaeologist, 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. Ron Thompson; Jack Mackey, dirt contractor; and Al Kroeger, land surveyor accompanied the archaeologist during the fieldwork.

METHODS

The project area was surveyed by walking parallel transects 5 to 7 meters apart across the project area. A construction zone 50 ft. wide and a buffer zone 100 ft. wide around the well pad, and a right of way (ROW) 30 ft. wide with a buffer zone 50 ft. wide on either side of the ROW was included in the survey. The project area was marked with yellow and orange flagged lath for the well pad and red flagged vegetation for the road prior to conducting the survey. All cultural remains were recorded relative to known points within the project area. 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. Sites and isolates are defined according to BLM Manual Handbook H-8100-1: I-14 and BLM Special Conditions for Survey Permits (2920).

RECORDS SEARCH

A records search was conducted prior to field inspection at the B.L.M.. Farmington Area office on October 20, 1989 to determine if any sites had been recorded within a one mile radius of the project area. Projects in this area for which previous cultural resource inspections have been conducted include oil and gas related development projects. The records search showed seven previously recorded sites within one mile of the project. There are no sites within 1000 ft. of the project area.

PROJECT AREA

Northeast Blanco Unit 476

Legal Description: T.31 N. R.7 W. Section 22, SE 1/4 NW 1/4 SW 1/4
NE 1/4 SW 1/4 SW 1/4
Section 22, 1200' F/SL. 840' F/WL

New Mexico Prime Meridian. San Juan County, New Mexico, 6450' 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: 250' x 350' (well pad)
350' x 450' (well pad with construction zone)
30' x 1200' (access road)
Surveyed Area: 550' x 650' (well pad with construction and buffer zones)
130' x 1200' (access road with buffer zone)
11.78 Acres

Environment: The project is on a rolling east to west trending bench east of Earl Canyon (Figure 1). To the east is a sandstone and shale outcrop at least 100' high. The ridge finger drops off steeply in the south and west buffer zones and less steeply in the north buffer zone. The area of the pad itself has been chained, burned, plowed and seeded and has a 35% sageflat cover consisting of minimal small trees (junipers under 3 ft.), sagebrush, rabbitbrush, grasses, forbs, and prickly pear cactus. There is a 20% woodland cover consisting of pinyon pine, juniper, gamble oak, grasses, forbs, squawberry, antelopebrush, and broad leaf yucca in the east and west buffer zones. Sandstone and shale outcrop to the east and west. The access road is in the same chained and burned sageflat environment at the well pad area. The weather was clear and cool. Signs of deer and rabbits were seen.

Project Description: This is a proposed gas well location with 1200 ft. of access road. The access road begins at the west side of the existing well NEBU 75 (approximate footages 2000' F/WL, 1850' F/SL) and follows a west trending mesa bench to the project area.

Cultural Resources: No archaeological sites but 3 isolated loci (IL) were found during the survey. The IL's are described in Table 1, and located on Figure 1.

Recommendations: Documentation of the isolated in the field has sufficiently exhausted their research potential in regards to this project. Archaeological clearance is recommended.

1

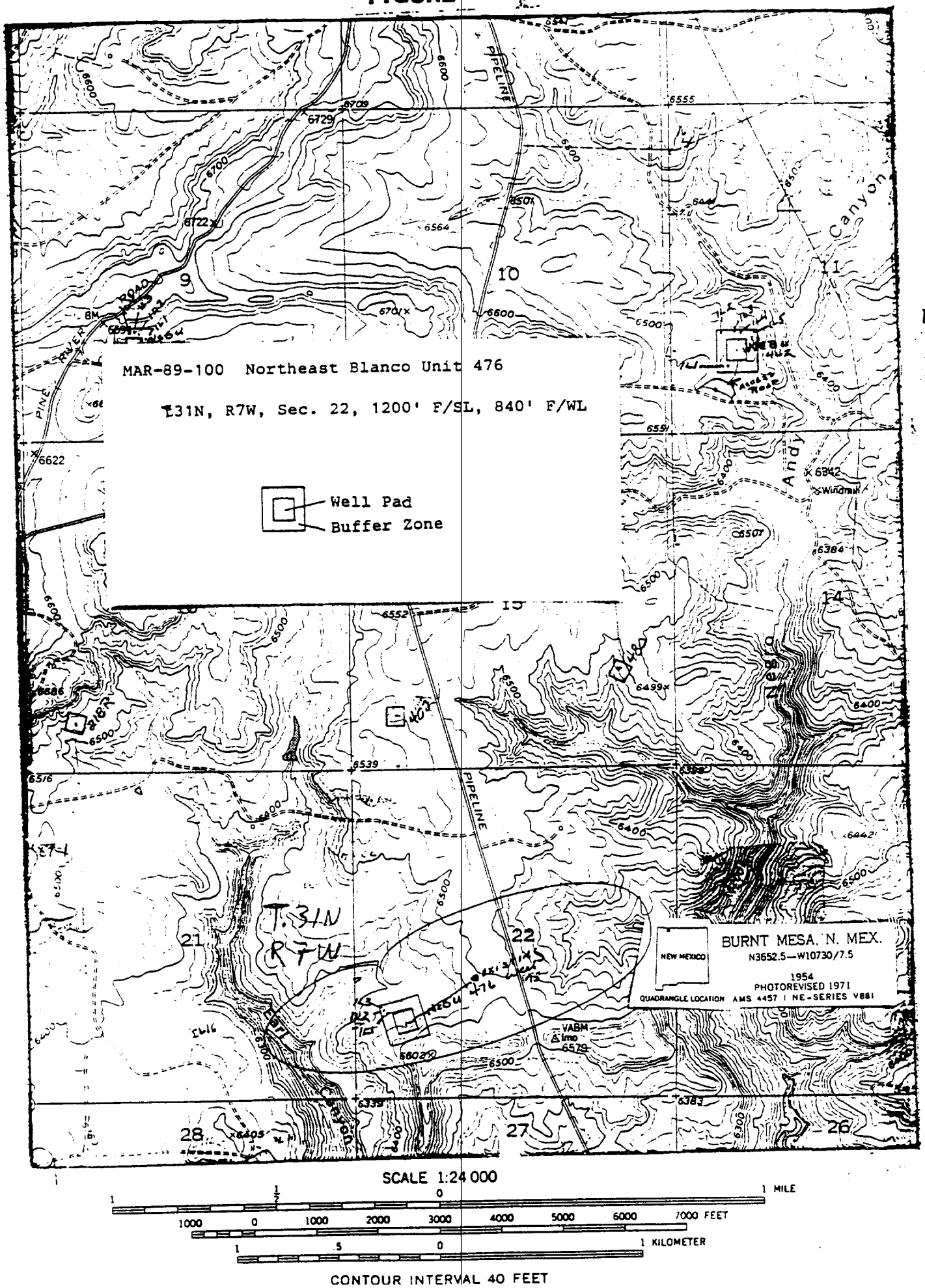


Table 1
Isolated Loci

IL#	U.T.M.		Land	Veg.	Description
	North	East	form	Zone	
1	4084640	271420	Bench	SFLT	One Fossiliferous Chert Tertiary Core Reduction Flake.
2	4084660	271390	Bench	SFLT	One Reddish-brown Very Fine Grained Quartzite Core.
3	4084670	271370	Bench	SFLT	One White Chalcedony Tertiary Core Reduction Flake.

Note: All IL's are in T31N, R7W, Sec. 22, the SW 1/4 NW 1/4 SW 1/4, on the Burnt Mesa 7.5 Quad Map, 1954 (Photorevised 1971).
Key: Veg. Zone: SFLT=Sageflat

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

DISTRICT I
P.O. Box 1980, Hobbs, NM 38240

DISTRICT II
P.O. Drawer DD, Artesia, NM 38210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 37410

API NO. (assigned by OCD on New Wells)

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.
Fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☒

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☐

GAS
WELL ☒

OTHER ☐

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

7. Lease Name or Unit Agreement Name

Northeast Blanco Unit

2. Name of Operator

Blackwood & Nichols Co., Ltd.

3. Well No.

475

3. Address of Operator

P.O. Box 1237, Durango, Colorado 81302-1237

9. Pool name or Wildcat

Basin Fruitland Coal

4. Well Location

Bottom Hole Unit Letter G : 2310' Feet From The North
Surface: J 1470' FSL - 1760' FEL

Line and 1760' Feet From The East Line

Section 19 Township 30 North Range 7 West NMPM Rio Arriba County

10. Proposed Depth

3180' TVD; 3722' MD

11. Formation

Fruitland Coal

12. Rotary or C.T.

Rotary

13. Elevations (Show whether DF, RT, GR, etc.)

6292' GL

14. Kind & Status Plug Bond

Statewide

15. Drilling Contractor

NA

16. Approx. Date Work will start

October 1, 1990

17. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4"	9 5/8"	36#	625' TVD/625' MD	738 cuft/circ to surface	
8 3/4"	7"	23#	2950' TVD/3564' MD	1138 cuft/circ to surface	
6 1/4"	5 1/2"	17#	2850'-3180' TVD	Uncemented	
			3464'-3722' MD		

Propose to spud in the San Jose formation. Will drill a 12 1/4" vertical hole to a TD of 625'. Run and cement 9 5/8" surface casing with cement returns to surface. WOC 12 hours. Test to 1000 psi/30 mins. Drill a 8 3/4" directional hole from under surface with fresh water mud at a build angle of approx. 5°/100' to max. angle of 59°. Hold that angle to a point which will allow a 5°/100' drop angle back to vertical at 2850' with a 1500' horizontal displacement. Drill vertically to 2950' TVD. No abnormal pressures or poisonous gases are anticipated. Run and cement intermediate casing with cement returns to surface. WOC 12 hours. Test to 1500 psi/30 mins. Drill a 6 1/4" vertical hole to a TVD of 3180' using air and water. A mud logging unit will be used while drilling this interval. Run the production liner. The production liner will be cemented if fracture stimulation is necessary.

Surface is Bureau of Reclamation.
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE SLOWOUT PREVENTER PROGRAM, IF ANY.

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

SIGNATURE

R.W. Williams

TITLE

Administrative Manager

DATE

8/20/90

TYPE OR PRINT NAME

R.W. Williams

TELEPHONE NO.

(This space for State Use)

APPROVED BY

TITLE

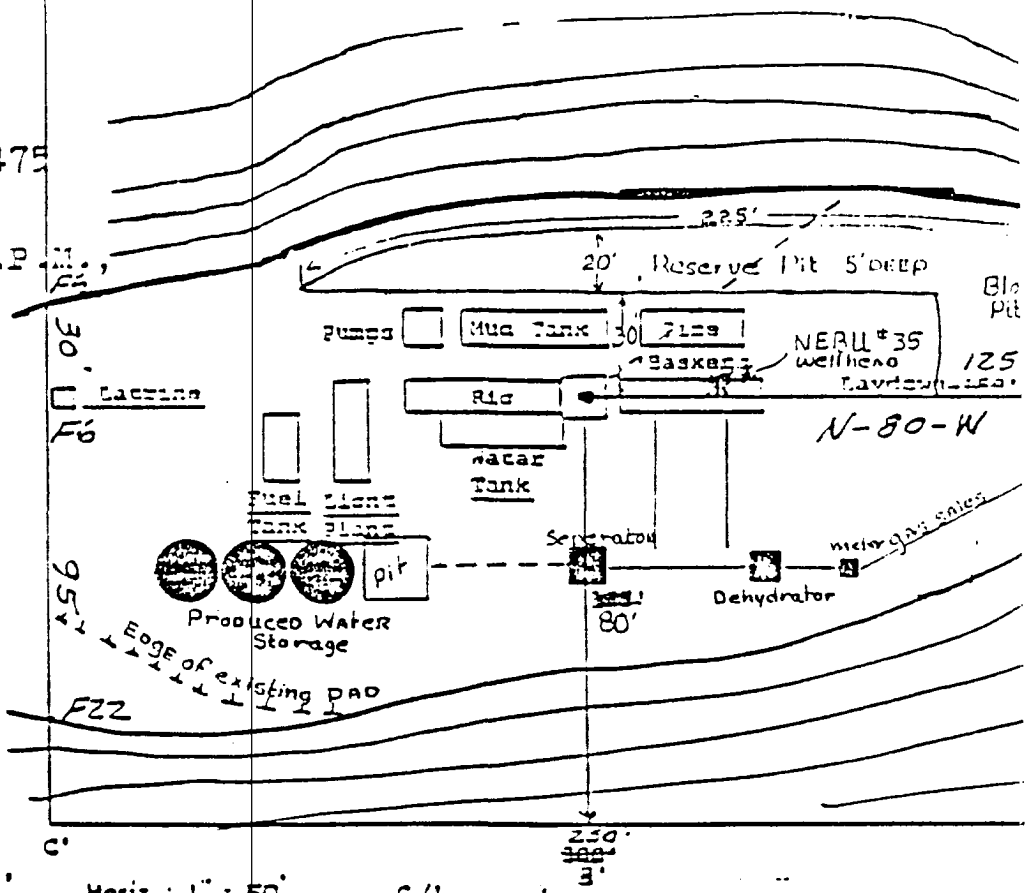
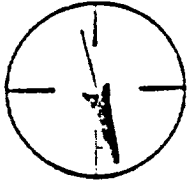
DATE

CONDITIONS OF APPROVAL, IF ANY:

Blackwood & Nichols
Co., LTD.

Northeast Blanco Unit #475

1470' FSL. 1760' FEL,
Sec.19, T30N, R7W, N.M.P.,
Rio Arriba Co., N.M.

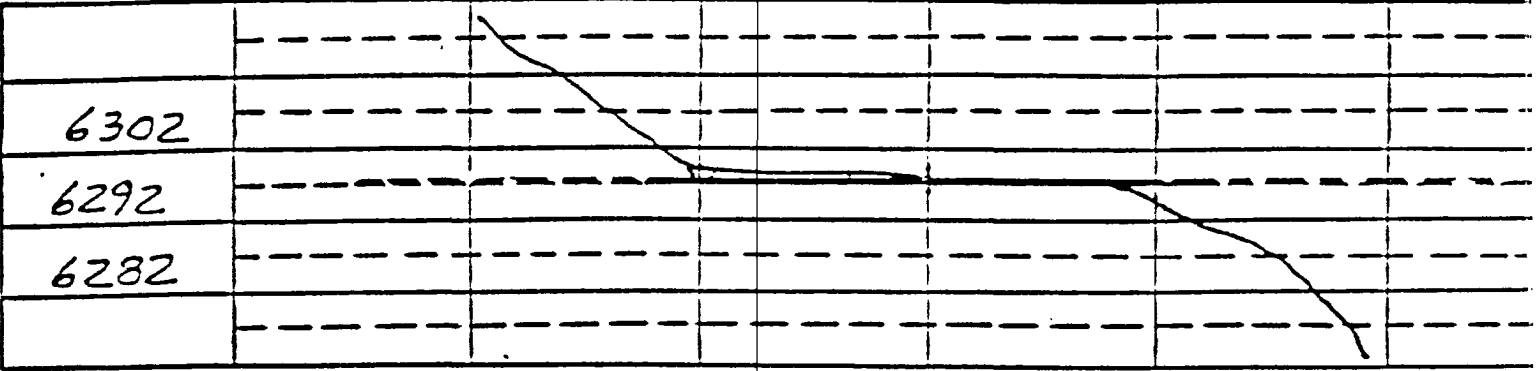


A - A'

Vert. : 1" = 10'

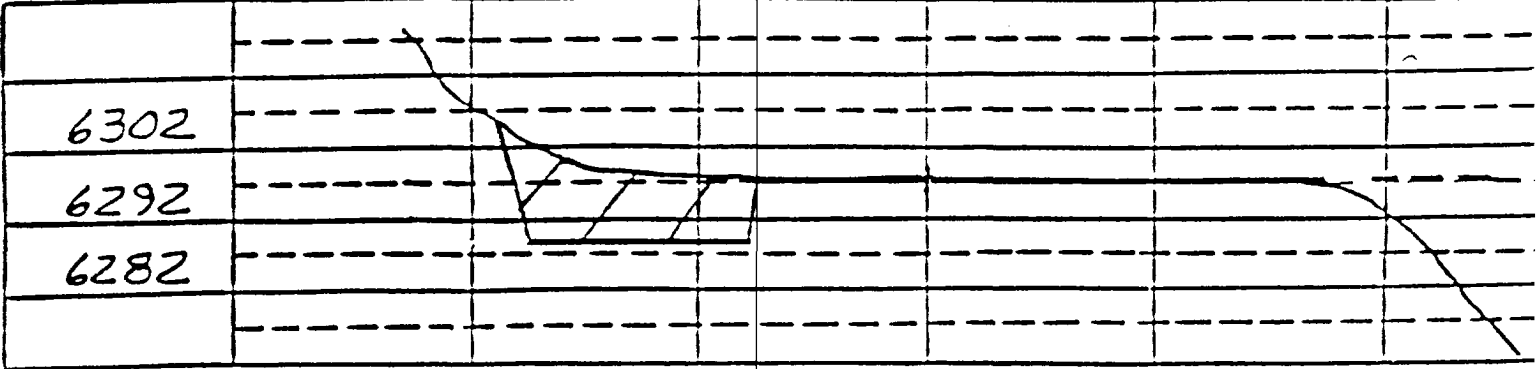
Horiz. : 1" = 50'

C/L



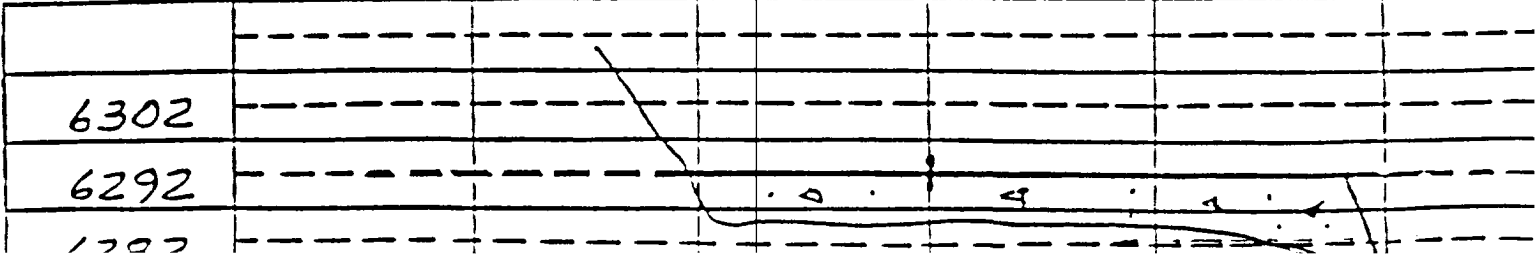
B - B'

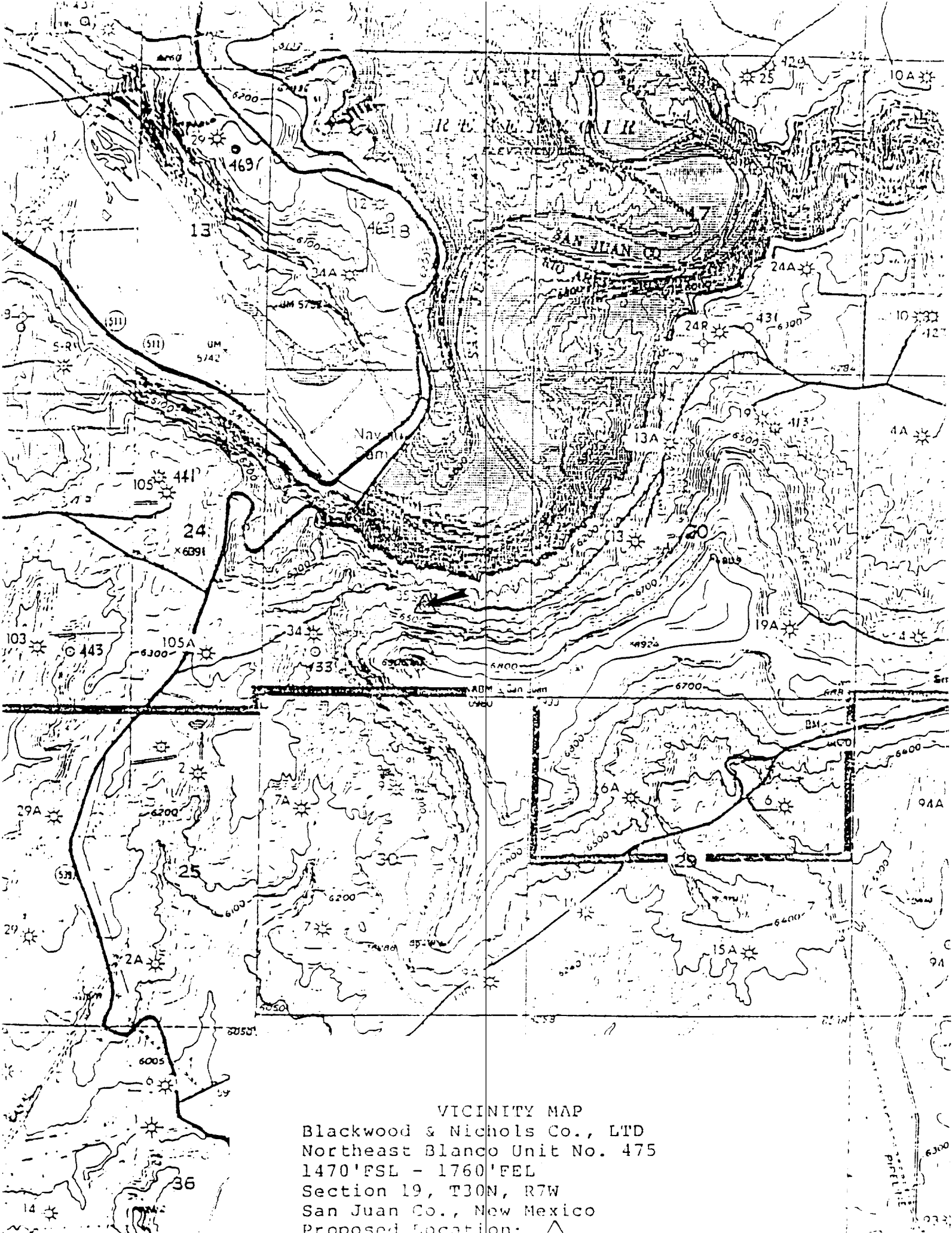
C/L



C - C'

C/L





VICINITY MAP
Blackwood & Nichols Co., LTD
Northeast Blanco Unit No. 475
1470'FSL - 1760'FEL
Section 19, T30N, R7W
San Juan Co., New Mexico
Proposed Location: ^

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

DISTRICT II
P.O. Drawer 80, Artesia, NM 88210

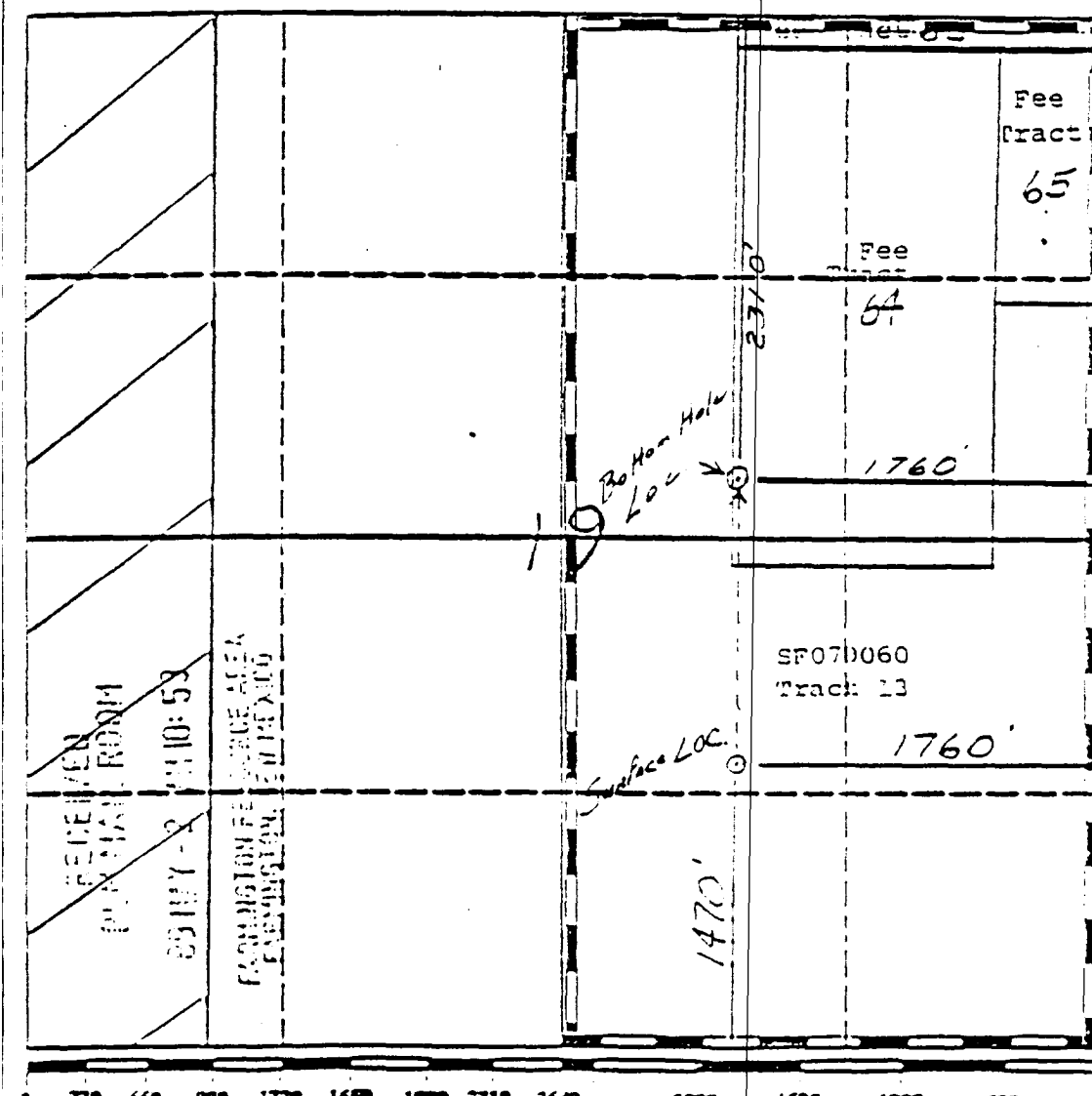
DISTRICT III
1000 Rio Arriba Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator		Location	
Blackwood & Nichols Co., LTD.		Northeast Blance Unit	
Unit Letter	Section	Township	Range
J	19	30 North	7 West
County		NM/PM	
Rio Arriba			
Actual Footage Location of Well: Bottom Hole; 2310' FNL - 1760' FEL			
Surface: 1470' feet from the South line and 1760' feet from the East line			
Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5292'	Fruitland Coal	Basin Fruitland Coal	3.00

- Outline the acreage dedicated to the subject well by colored pencil or markers on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc?
☒ Yes ☐ No If answer is "yes" type of consolidation Unitization
If answer is "no" list the owners and their descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowance will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, encompassing such interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

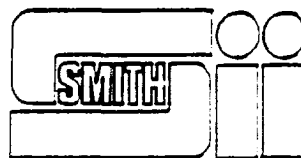
Signature R.W. Williams
Printed Name R.W. Williams
Position Administrative Manager
Company Blackwood & Nichols Co.
Date 8/20/90

SURVEYOR CERTIFICATION

I hereby certify that the well location on this plat was plotted from field actual surveys made by me or in my supervision, and that the same is correct to the best of my knowledge and belief.

Date Surveyed 8/14/90
Signature of Surveyor Neale O. Edwards
Professional Surveyor
Certificate No. 6857

2 AUG 1990 @ 15:35



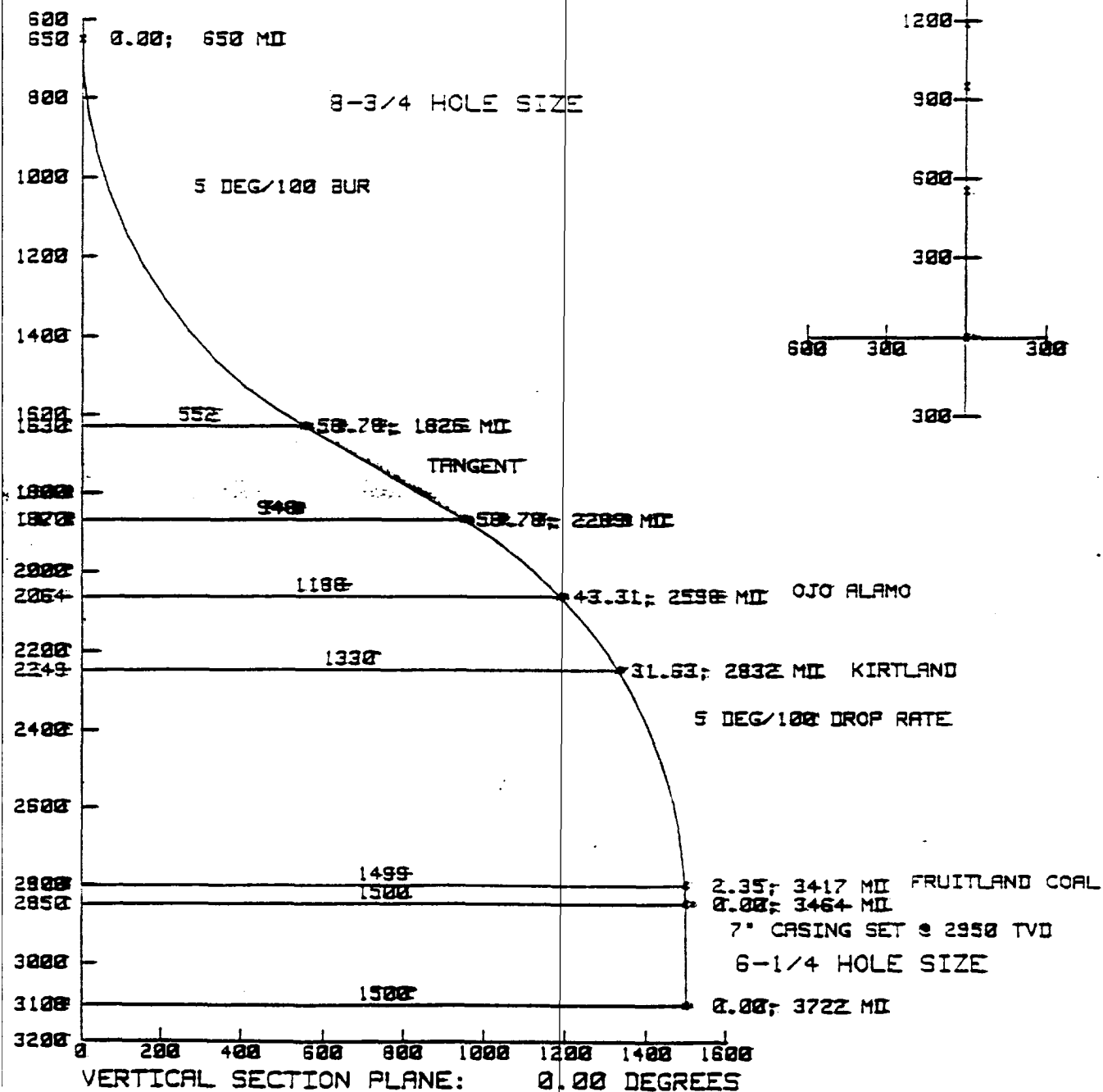
BLACKWOOD AND NICHOLS
N.E. BIANCO UNIT #475
SECTION-19-T30N-R7W
RIO ARriba COUNTY NEW MEXICO

VERTICAL PLAN
SCALE: 200 FEET/DIVISION

HORIZONTAL PLAN
SCALE: 300 FEET/DIVISION

SURFACE = SAN JOSE

9-5/8 CASING SET @ 625 MD



Going thru this file
I found this copy
which I think
should have been
sent to you.
Alice