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

State of New Mexico Energy, Minerals and Natural Resources I

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

MAR2 8 1989

Form C-101 Revised 1-1-89

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 COLLEGE by OCD on New Wells)

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

30-045-71257 5. Indicate Type of Lease STATE X

6. State Oil & Gas Lease No. B 11125

a. Type of Work:				7. Lease Name or Unit Agreement Name
DRIL b. Type of Well: OIL GAS WELL WELL	L X RE-ENTER	SINGLE	PLUG BACK MULTIPLE ZONE	Northeast Blanco Unit
Name of Operator Blackwood	& Nichols Co	., LTD.		8. <b>Weil No.</b> 450
Address of Operator P.O. BOX	1237, Durango	, CO 81302-	1237	9. Pool name or Wildcat Basin Fruitland Coal
Well Location N. Unit Letter	795 Feet Fr	om The South	Line and 20	10 Feet From The West Line
Section 32	Townst	ip 31 North Ran	7 West	NMPM San Juan County
		10. Proposed Depth 3432	11. F Fr	ornstion 12 Rotary or C.T. uitland Coal Rotary
3. Elevations (Show wheth	er DF, RT, GR, etc.)	4. Kind & Status Plug. Bond State Wide	15. Drilling Contractor	16. Approx. Date Work will start April 1, 1989
17.	PR	OPOSED CASING AN	ID CEMENT PROGE	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT EST. TOP 207 cuft to circulate
12 1/4"	9 5/8"	36 #	300	20, 000
8 3/4"	7"	23 #	3432'	910 cuft to circulate
to a TD returns 8 3/4" hare anti Logs will with cem a comple be run.	of 300'. Surf to surface. We ole to a TD of cipated. Weight be run at The ent returns to tion unit move	Tace casing wind the control of 3432' using the control of the con	Il be run an Test to 600 fresh water be used to casing will de drilling range hole correla	l drill a 12 1/4" hole d cemented with cement psi/ 30 mins. Drill an mud. No poisonous gases drill the Fruitland coals. be run and cemented, ig will be released and tion and bond logs will and frac'd with a fresh APPROVAL EXPIRES OF THE SPUD NOTICE MUST BE SUBMITTED

Operations Manager TELEPHONE NO. 303/247-072 William F. Clark TYPE OR PRINT NAME (This space for State Use)

WITHIN 10 DAYS.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE

of my knowledge and belief.

APPROVED BY

DEPUTY OIL & GAS INSPECTOR, DIST. #3

CONDITIONS OF AFPROVAL, IF ANY:

ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

## STATE OF NEW MEXICO

# OIL CONSERVATION DIVISION

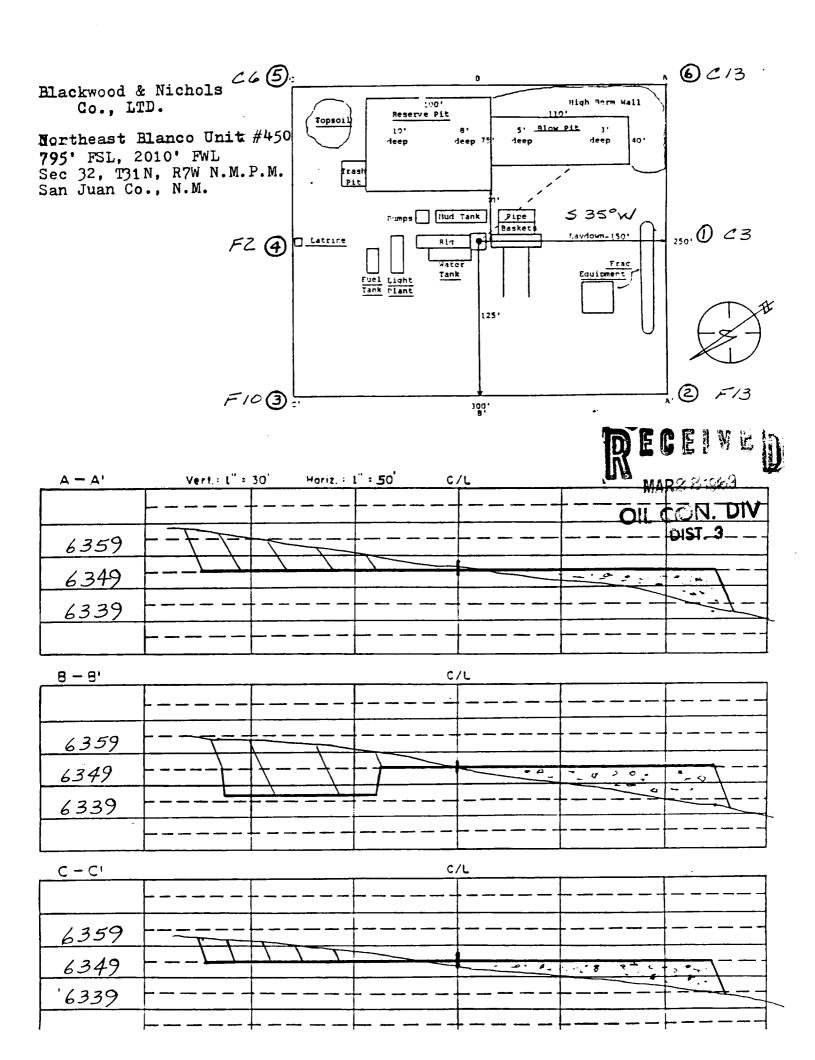
Form C-102 Revised 10-1-7E

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501 MAINICUAL C DEDARTMENT

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peretor	0. Ninh-7-	תם דישה	• <del>-</del> -	Blanco Unit	450
		Co., LTD.	Range	County	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
all Lotter	Section	Township		San Juan	
N	32	31 North	7 West	Jan vaan	
civel Fostage Local	ion of Wells	44	. 2010	. West	
795	feet from the S	outh time	and T	cet from the	Ifne Dedicated Acreage:
round Level Elev.	Producing Fo	rmatios	Pool		220 11
6349 <b>*</b>	Fruitla	and Coal	Basin Fruitl		<del></del>
2. If more that interest and 3. If more than	in one lease is i royalty). I one lease of ommunitization,	dedicated to the different ownership unitization, force-	o is dedicated to the well pooling. etc?	dentify the ownership t	hereof (both as to working
this form if	"no;" list the	owners and tract	il all interests have been	actually been consolid	ated. (Use reverse side o munitization, unitization approved by the Division
			1		CERTIFICATION
E 453-4 Tract 31	E 394 Tract		   	teined he	certify that the information con erein is true and complete to th ny knowledge and belief.
FEE Tract 56	E 292 Tract	· 2-9 - 30 3 2		Position Onerat Company Blacky	cions Manager  roodaNichols Co.
FEE Tract 54	B 11	125 t 32	RECEIV	shawn of notes of under six true knowled	THE CHAPTER OF THE PARTY OF THE
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1300



Blackwood & Nichols Co., Ltd. Northeast Blanco Unit No. 450 795' FSL - 2010' FWL Section 32, T31N, R7W San Juan Co., New Mexico

Field: Basin Fruitland Coal

Elevation: 6349'GL

### Geology:

Formation Tops: San Jose - Surface Ojo Alamo - 2188'

Kirtland - 2288' Fruitland - 2930'

Pictured Cliffs - 3232'
Total Depth - 3432'

Logging Program: Dual Induction/SFL from TD to surface casing shoe. Compensated Density/Nuetron

from TD to 24321.

#### Drilling:

Contractor:

Toolpusher:

Operator's Representative:

Mud Program: 0 - 300': Spud mud of lime and gel.

300'- 2830':Benex and water with 5 sack gel sweeps every 500' or less if hole

conditions dictate.

2830'- 3432': Fresh water, low solids mud. Mud wt.-10.0 to 10.5 ppg, as necessary to control well. 40-50 sec./qt.

viscosity. 6-8 cc water loss.

Start mud up 100' above Fruitland

Weight up to 10.0 ppg prior to 3055'.

#### Materials:

Casing Pro-	gram: Depth Set	Casing Size	Wt. & Grade
12 1/4"	3001	9 5/8"	36# , K-55
8 3/4"	3432'	7"	23# , K-55



#### Materials: Cont'd

Float Equipment:

- 9 5/8" surface casing Texas Pattern Guide Shoe. Threadlock guide shoe.
- 7" Production Casing Texas Pattern Guide Shoe. Self fill insert float valve run one joint above shoe. DV tool run 200' above top coal. Ten(10) bow spring centralizers run every other joint above shoe.

Wellhead Equipment:
9 5/8"X 10" 3000 casing head with 7" automatic slips.
10" 3000 X 6" 3000 tubing head with a 2 7/8" EUE Tubing hanger.

Cement Program:

- 9 5/8" surface casing- 175 sacks(207 cuft) of Class B w/ 2%

  CaCl and 1/4# flocele per sack. 100 %

  excess to circulate to surface. WOC 12

  hours Prossure test to 600 psi for 30
- hours. Pressure test to 600 psi for 30 minutes prior to drilling surface shoe.

  7" Production casing Stage 1: 150 sacks(197 cuft) of
- 7" Production casing Stage 1: 150 sacks(197 cuft) of
  Class B with 2% retarder, 1% CaCl,
  1.3% fluid loss additive, and 6 1/4 #
  gilsonite/sack. 70 % excess to
  circulate to the DV tool.
  WOC and circulate between stages for
  4 hours.

Stage 2: 325 sacks(598 cuft) of 65/35 Poz with 6% gel, 1/4# celloflake/sack, and 0.6% fluid loss additive. Tail in with 100 sacks(115 cuft) of Class B with 1/4 # celloflake/sack.
70 % excess to circulate to surface. Run temperature survey at eight(8) hrs. if cement does not circulate.

Miscellaneous:

Operate pipe rams dailly and record in tour reports.

Operate Blind rams on each trip and record in tour reports.

7" casing rams are to be installed prior to running the production casing.

