CASE 7188: BLACKWOOD & NICHOLS CO., LTD.

Case No. 88 Application Transcripts Small Exhibits ETC



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT DIL CONSERVATION DIVISION

BRUCE KING GOVERNOR LARRY KEHOE BEORETARY

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POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (STS) R27,2434

April 9; 1981

Mr. William F. Carr Campbell, Byrd & Black Attorneys at Law Post Office Box 2208 Santa Fe, New Mexico Re: CASE NO. 7188 ORDER NO. R-6636

Applicant:

Blackwood & Nichols Co., ttd.

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Pours very truly, JOE D. RAMEY Director

JDR/fd

Copy of order also sent to:

Hobbs OCD Artesia OCD X Aztec OCD X

Other

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

> CASE NO. 7188 Order No. R-6636

APPLICATION OF BLACKWOOD & NICHOLS CG., LTD. FOR DIRECTIONAL DRILLING, 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 authority to directionally drill its Northeast Blanco Unit Well No. 26-A, the surface location of which is 1160 feet from the North line and 60 feet from the West line of Section 8, Township 30 North, Range 7 West, in such a manner as to bottom it in the Mesaverde formation within 100 feet of a point 1190 feet from the North line and 790 feet from the West line of said Section 8, the W/2 of the section to be dedicated to the well.

(3) That applicant further seeks authority to directionally drill its Northeast Blanco Unit Well No. 32-A, the surface location of which is 1450 fest from the North line and 990 fest from the East line of Section 7, Township 30 North, Range 7 West, in such a manner as to bottom it in the Messverde formation within 100 fest of a point 1850 fest from the South line 4.4 990 fest from the East line of said Section 7, the E/2 of the section to be dedicated to the well. -2-Case No. 7188 Order No. R-6636

(4) That the directional drilling of each of the abovedescribed wells is necessitated by the presence of Navajo Lake which covers most of the surface of said proration units.

(5) That the applicant should be required to determine the subsurface location of the kick-off point on each well prior to directional drilling, and to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said wells are to be completed as producing wells.

IT IS THEREFORE ORDERED:

(1) That the applicant, Blackwood & Nichols Co., Ltd., is hereby authorized to directionally drill its Northeast Blanco Unit Well No. 26-A, the surface location of which shall be 1160 feet from the North line and 60 feet from the West line of Section 8, Township 30 North, Range 7 West, in such a manner as to bottom it in the Mesaverde formation within 100 feet of a point 1190 feet from the North line and 790 feet from the West line of said Section 8, the W/2 of the section to be dedicated to the well.

(2) That applicant is further hereby authorized to directionally drill its Northeast Blanco Unit Well No. 32-A, the surface location of which is 1450 feet from the North line and 990 feet from the East line of Section 7, Township 30 North, Range 7 West, in such a manner as to bottom it in the Mesaverde formation within 130 feet of a point 1850 feet from the South line and 990 feet from the East line of said Section 7, the E/2 of the section to be dedicated to the well.

PROVIDED HOWEVER, that prior to directional drilling of each well, the operator shall determine the subsurface location of the kick-off point; and

<u>PROVIDED FURTHER</u>, that subsequent to the above-described directional drilling, should said wells be producers, a continuous multi-shot directional survey shall be made of the wellbore of each well from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Division's Aztec District Office of the date and time said survey is to be commenced. -3-Case No. 7188 Order No. R-6636

(3) That Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

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

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



STATE OF NEW MEXICO OIL CONSERVATION DIVISION JUE D. RAMEY Director

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1 2 3 4 5	STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION STATE LAND OFFICE BLDG. SANTA FE, NEW MEXICO 11 March 1981 EXAMINER HEARING
6 7 8	IN THE MATTER OF: Application of Blackwood & Nichols Co., Ltd., for directional drilling,) San Juan County, New Mexico, 1 7188
9 10 11) BEFORE: Richard L. Stamets
12 13	TRANSCRIPT OF HEARING
14 15	APPEARANCES
16 17 18	For the Oil Conservation Division: Ernest L. Padilla, Esq. Legal Counsel to the Division State Land Office Bldg. Santa Fe, New Mexico 87501
19 20	For the Applicant: William F. Carr, Esq.
21 22	CAMPBELL, BYRD, & BLACK P.A. Jefferson Place Santa Fe, New Mexico 87501
23 24	
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3 1 MR. STAMETS: Call next Case 7188. 2 MR. PADILLA: Application of Blackwood 3 and Nichols Company, Ltd., for directional drilling, San 4 Juan County, New Mexico. 5 MR. CARR: May it please the Commission, 6 my name is William F. Carr, with the law firm Campbell, Byrd, 7 and Black, Santa Fe, New Mexico, appearing on behalf of the 8 applicant. 9 I would request that the record show 10 that Mr. Loos, who will be testifying, is the same witness 11 who testified in the previous case and that he remains under 12 oath. ĺĴ MR. STAMETS: The record will so show, 14 15 DeLASSO LOOS 16 being called as a witness and being previously sworn upon 17 his oath, testified as follows, to-wit: 18 19 DIRECT EXAMINATION 20 BY MR. CARR: 21 Will you state your full name, please? 22 Q. 23 DeLasso Loos. A. Are you the witness that testified in Q. 24 25 the previous case?

â 1 2 ٨ T am. 3 Are you familiar with the application of Q. 4 Blackwood and Nichols Company, Limited, in Case 7188, and 5 with the subject wells? 6 A. Yes, sir. 7 MR. CARR: Are the witness' qualifications 8 acceptable? 9 MR. STAMETS: They are. 10 Mr. Loos, will you briefly state what Q. 11 Blackwood and Nichols is seeking with this application? 12 We have filed an application to drill A. 13 a Mesaverde well in Section 8, 30 North, 7 West, San Juan 14 County, New Mexico, and I would like to refer to United 15 States Geological Survey map. 16 Is that included in --Q. 17 Exhibit --A. 18 -- your Exhibit Number One? Q. 19 Correct. The normal surface location of A. 20 this proposed well is inundated by the Navajo Lake; there-21 for, we plan to build a location on the available surface 22 land and directionally control -- drill this well out under 23 the lake. 24 The surface location 1190 feet, let's 25 see, which one -- 1160 feet from the north line, 60 feet

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from the west line of Section 8, 30 North, 7 West. The subsurface target location will be 1190 from the north line, 790 from the west line of Section 8, 30 North, 7 West. We propose to drill from the surface on a bearing of south 87 degrees, 39 minutes east, to the target subsurface target.

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The next page is our tentative plan to directionally control this well. At approximately 1000 feet we will conventionally drill with mud, water-based mud, and then go in the hole with -- with our Dyna-drill and begin to build an angle, and by the time -- time we reach where we want to set our 7-inch we will -- let's see, they didn't do that exactly -- this is tentative, tentative plan here, and they've got down here at 1400 feet vertical depth they'll be at 8 degrees, 53 minutes angle, which would be 1443 feet measured depth. But we will set our 7-inch at 3650 feet on a vertical depth, and it hasn't been calculated here what that will be on an angle measured depth; however, at TD to a vertical depth of 5900 feet we will be on a measured depth of 5955.83 feet.

And from the 7-inch we will drill with gas as a circulating medium.

Q. Mr. Loos, does Blackwood and Nichols operate all the offsetting acreage to the lease on which this

1 Ż well is to be drilled? 3 Yes, sir. All, this well, all acreage A. 4 surrounding this well is within the boundary of the Northeast 5 Blanco Unit. 6 Q. And what acreage do you propose to dedi-7 cate to this well? 8 A. The west half of Section 8, consisting 9 of 319.99 acres. 10 Q. Now will the bottom hole location after 11 directionally drilling be at an orthodox location? 12 Correct. We will -- our target, subsur-A. 13 face target will be within 100 feet of our calculated target, 14 except to the west, which we can't -- we will not go back to 15 the west. We'll have to go beyond. 16 Will you run a directional survey on Q. 17 this well? 18 Yes, sir. A. 19 And will you make the results of that Q. 20 survey available to this Commission? 21 Correct. A. 22 Will you now refer to Blackwood and Q. 23 Nichols Exhibit Number Two and review this for Mr. Stamets? 24 A. Incidentally, the subsurface target on 25 the 26-A is Federal royalty.

2 The proposed Northeast Blanco Unit No. 32-A Well, 3 similar, same conditions is the reason we want to drill this 4 well on a controlled basis, is that a normal location will be 5 inundated by the Navajo Lake. 6 The surface location will be 1450 feet 7 from the north line and 990 feet from the east line of Section 8 7, 30 North, 7 West. The target, subsurface target will be ŷ 1850 from the south line and 990 feet from the east line of 10 Section 7, 30 North, 7 West, which will be from a vertical, 11 surface vertical, we will be 1980 feet to the subsurface tar-12 qet. 13 The next page indicates our tentative 14 process for deviating this hole and from a vertical of 5900 15 feet we will have a measured depth TD of 6317 feet and our 16 maximum angle will be 24 degrees, 53 minutes from a vertical. 17 Q. Mr. Loos, does Blackwood and Nichols also 18 control all the areage surrounding this location? 19 Correct, all the acreage is within the A. 20 boundaries of the Northeast Blanco Unit. 21 And what acreage do you propose to dedi-Q. 22 cate to the well? 23 The east half of Section 7, 31 North, A. 24 7 West. 25 Will the bottom hole location of this Q.

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 $\mathbf{2}$ MR. CARR: At this time, Mr. Stamets, we would offer Blackwood and Nichols Exhibits One and Two. MR. STAMETS: These exhibits will be admitted. Any questions of the witness? He may be excused. Anything further in this case? The case will be taken under advisement. (Hearing concluded.)

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CERTIFICATE

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SALLY W. BOYD, C.S.R. kl. 1 Box 193-B Santa Fe, Ivew Merico 17301

505) 455-

I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Bayd C.S.R.

I do hereby certify that the foregoing is a compir ans in 7188. the Erc. hear Examiner

Oll Conservation Division

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SALLY IV. BOYD, C.S.R.

k.. I Box 193-B a Fi, New Mexico 87 Phone (505) 455-7409 I, SALLY W. BOYD, C.S.R., DO HEREPY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

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3. AD	DIACKWOOU G	Nichols Co.,	LLU.					26A		
	P. O. Box 12							10. PIELD AND POOL, O	E WILDCAT	
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		F/NL - 60' F	WL.					11. BEC., T., D., M., OK S AND SUEVEY OF AR		
A	t proposed prod. zone 1190 [†]	F/NL - 790' 1	F/WL					D-8-30N-7	W	
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Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production some. Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239

(continued)

9 5/8" and 7" casing is set and will be tested as to operating condition during each trip while drilling. A rotating blowout preventer will be used while drilling with gas. (See schematic diagram)

- (1)) A water base drilling mud of sufficient weight to control the Fruitland Formation will be used while drilling the 8 3/4" hole.
- (12) Compensated Density Gamma Ray-Neutron logs will be run in open hole. No testing or coring is anticipated.
- (13) Normal Fruitland field pressures are anticipated to be controlled with sufficient weighted mud. No hydrogen sulfide is anticipated.



BLACKWOOD & NICHOLS CO., LTD.

P. 0. 80% 1237 DURANGO, COLORADO 81301

(303) 247-0728

January 2, 1981

United States Geological Survey P.O. Box 959 Farmington, New Mexico 87401

Gentlemen:

Blackwood & Nichols Co., Ltd., as operator of the Northeast Blanco Unit, proposes to drill the Northeast Blanco Unit Well No. 26A as an infill well located in the NW/4, Sec. 8-30N-7W, San Juan County, New Mexico. The well will be completed in the Mesaverde Zone.

Attached are maps and other data pertinent to the Development Plan for Surface Use.

I. Existing roads; See attached U.S.G.S. topographic map.

II, III, IV and IX: See attached maps.

V. Water will be hauled by truck transport from the Navajo Lake, approximately seven miles south of the location.

VII. Waste material will be placed in a reserve pit and later buried or burned.

VIII. Camp or airstrip will not be necessary.

IX. See attached map of well site layout. (Not to scale)

- X. Upon completion the location will be leveled to its original state. The access road will remain. The location will be seeded, as per the Bureau of Land Management requirements.
- IX. The location is relatively level and covered with Cedar and Pinon trees which will be disposed of as per the Bureau of Land Management requirements; an archaeological clearance will be obtained.

XII. DeLasso Loos, 1032¹/₂ Main Street, Durango, Colorado 81301. Telephones: Office: 303-247-0728 Home: 303-247-2345.

XIII.

1. I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statement made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by <u>Blackwood & Nichols Co., Ltd.</u> and its contractors and subcontractors in conformity with this plan and terms and conditions under which it is approved.

Date January 2, 1981 Mass Q DeLasso Loos, District Manager

DL:st Attachments NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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Porm C-102 Supersedes C-128 -Elloctive 1-1-65

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BLAC	CKWOOD &	NICHOLS		NORTI	IEAST BLAN	NCO UNIT	W-11 No. 26A
Unit Letter	Section 8	Township	N.	Range 7W., N. M	County	SAN JUAN	
Actual Footage La	1				····		
• •	D feet from the	noi	th line and	790) feel from the	west	line
Surface Lo 6136 U.C	JC • .	g Formation saverde		∞1 Blanco	-Mesavero		ated Acreages 319.99 Acre
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	han one lease ind royalty).	is dedicated	to the well,	outline each a	ad identify the	ownership thereo	f (both as to working
	ind toyatty.	•	•	•			•
3. If more th	an one lease	of different or	wnership is de	dicated to the	well, have the	interests of all c	wners been consoli
dated by	communitizatio	on, unitization	, force-pooling	. etc?			•
X Yes	No No	If answer is *	yes" type of a	onsolidation	Unit	tization	
		II CODINCE 20	Jest offe or a	.ozoonduiton _			· · · · · · · · · · · · · · · · · · ·
If answer	is "no," list	the owners an	id tract descrip	tions which h	ave actually be	cen consolidated.	(Use reverse side o
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forced-poo	oling, or otherw	rise) or until a	non-standard i	mit, eliminatio	ig such interes	its, has been appro	oved by the Commis
8104.	· · ·			•			•
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Preliminary Proposal and Cost Estimate for:

Northeast Blanco San Jaun Co., New Mexico COMPANY Blackwood & Nichols Well Name unit 26-A Location



ALL INFORMATION ON PRELIMINARY PROPOSAL DETERMINED GRAPHICALLY. FINAL WORK PROPOSAL TO BE COMPUTED BY EASTMAN WHIPSTOCK ENGINEERING DEPT.

Eastman Whipstock Representative - Date





BLACKWOOD AND NICHOLS CO., LTD. Northeast Blanco Unit No. 26A 1160' F/NL - 60' F/WL D-8-30N-7W San Juan County, New Mexico



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NO. OF COPIES RECEIVED	1					
DISTRIBUTION	NEW	MEXICO OIL CONSER	VATION COMMISSIO	N F	orm C+101	
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FILE				Γ	SA. Indicate	Type of Lease
U.S.G.S.					NTATE	rtt 🔀
LAND OFFICE					5, State Oil	6 Gus Lease No.
OPERATOR						
······································				k	mm	
APPLICATIO	ON FOR PERMIT TO	DRILL, DEEPEN, O	DR PLUG BACK		MM	
1a. Type of Work	······································				7. Unit Agre	ement Name st Blanco Unit
DRILL X	ר	DEEPEN			Aormt.	#1, Sec. 929
b. Type of Well DRILL 1A	J	DEEPEN [_]	PLUG		8, Farm or L	ease Name
WELL GAS WELL	OTHER		SINGLE MU		Northe	ast Blanco Unit
2. Name of Operator					9. Well No.	dot biddeo dare
Blackwood & Nich	ols Co., Ltd.					32A
3. Address of Operator					10. Field an	d Pool, or Wildcat
P. O. Box 1237,	Durango, Colora	do 81301			Blanco	Mesaverde
4. Location of Well		1850'	LET FROM THE SOU	th LINE	mm	<u>mmmmm</u>
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		MUMIUM.		19A, Formation		20, Rotary or C.T.
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21. Elevations (Show whether Di	F, RT, etc.) 21A. Kind	& Status Plug. Bond 2	1B. Drilling Contractor		22. Approx	. Date Work will start
6132' GL			Unknown		Apri	1 1, 1981
23.						· · · · · · · · · · · · · · · · · · ·
		ROPOSED CASING AND	CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
	0 5 /01	36.00#	300'	250 S	Sacks	Circulate
12 1/4"	9 5/8"	201001				
<u>12 1/4"</u> 8 3/4"	7"	23.00#	3690'	400 \$	Sacks	1000'

Surface Location: 1450' F/NL - 990' F/EL; Well to be Drilled Directionally Controlled to the above target. Well site located on Water & Power Resources Services Controlled Land.

We propose to perforate the Point Lookout and Cliffhouse Zones and sand-water fracture with 200,000 gals water and 200,000 lbs. sand in two stages. Estimated tops: Fruitland 2120', Lewis 3295', Cliffhouse 5190', Point Lookout 5867', Mancos 6017'. A 3000 PSI WP; Series 10" - 900 adapted to Series 10" - 600 and 6" - 600 hydraulic blowout preventer equipped with blind and necessary pipe rams will be used with adequate kill and bleed off lines. A mud of sufficient weight to control the Fruitland Formation will be used, well to be drilled with gas below 7" casing point.

Compensated Density-Neutron logs will be run in open hole below 7" casing point.

Blow out preventers will be tested every trip. Gas is dedicated to Northwest Pipeline Corp.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUE BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCT Tive zone. Give blowdut preventer program, IF any.

thereby certify that the information above is true and complete to the			
side tasso Do Delasso Loos Tile_	District Manager	Date_	January 26, 1981
(This space for State Use)			
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form G=102 Superardra C+128 Effective 1-1-65

Operator RT A	CKWOO	D & NICHOLS		Leose NORT	HEAST BLAN		Well No. 324	
Unit Letter	Sectio		<u>1</u>	Range	County			<u> </u>
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<u>6132 U.</u>		<u>Mesaverde</u>			<u>o-Mesaverd</u>			Actes
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dated by X Yes If answ this for No allow forced-p	y commur	" list the owners a	on, force-poolin "yes;" type of and tract descr well until all	ng. etc? f consolidatior riptions which interests have	have actually be been consolide	tization een consolid ated (by con	ated. (Use reverse munitization, uniti	side of
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ALL INFORMATION ON PRELIMINARY PROPOSAL DETERMINED GRAPHICALLY. FINAL WORK PROPOSAL TO BE COMPUTED BY EASTMAN WHIPSTCCK ENGINEERING DEPT.

1 us Eastman Whipstock Representative - Date





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2. NAME OF OFERATOR	· · · ·						Northeast Bla	nco Unit
	Nichols Co., I	.td.					9. WELL NO.	
3. ADDRESS OF OPERATOR							26A	
	237, Durango, (·		10. TIELD AND POOL, O	E WILDCAT
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1160'	F/NL - 60' F/W	л.					11. SEC., T., R., M., OR R AND SURVEY OR AR	ILE. Fa
At proposed prod. 202 7 1001	• F/NL - 790' F/	/ LIT					D-8-30N-7	ut.
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PROPERTY OF LEASE I (Also to Dearest drip			1	779.91			319.99	
15. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION®		19. PRO	POSED DEPTE		20. ROTA	T OR CABLE TOOLS	
OR APPLIED POR, ON TH				5955			Rotary	
21. ELEVATIONE (Show wh	ether DF, RT, GR, etc.)						22. APPROL. DATE WO	EX WILL START
6136'	GL						April 1, 1	981
23.		PROPOSED CASIN	NG AND	CEMENTIN	G PROGR	AM		
SIZE OF ROLE	SIZE OF CASING	WEIGHT PER P	T00	BETTING	DEPTH	Τ	QUANTITT OF CEMEN	17
12 1/4"	9 5/8"	36.00# H-	40	350	t	Cir	culate	
<u> </u>	<u>7"</u>	23.00# K-	55	3650	•	Two s	tage circulate	to surfa
6 1/4 ⁿ	4 1/2"	10.50# K-	55	5955	i	Conne	ct to 7"	
C	• •	1	1			I		
-6 (3) San Jose		-						
(-)	10851. Vintin-1	1 2115t. T		001-01-		/000	1. Nomen 5700	• •
(6) Ojo Alamo	1985'; Kirtland							

- (7) Fruitland 3000'; Pictured Cliffs 3240'; Massive Cliffhouse 5180'; Menefee 5220'; Point Lookout 5505'.
- (9) 9 5/8" surface; 300 sacks Class B cement with 2% CaCl₂; circulate to surface. 7" intermediate; 200 sacks Lite cement with 1/4# flocele per sack followed with 100 sacks Class B with 2% CaCl₂ and 1/4# flocele per sack. Second stage; 200 sacks Lite with 1/4# flocele per sack; to circulate to surface.
 - 4 1/2" liner; 300 sacks 50-50 Pozmix with 2% gel, 0.6% FLA, 1/4# flocele per sack and 6 1/4# Gilsonite per sack to circulate to top of liner.
- (10) A 3000 PSI WP; Series 10" 900 adapted to Series 10" 600 and 6" 600 hydraulic blowout preventer equipped with blind and necessary pipe rams will be used with adequate kill and bleed off lines. Blowout preventer will be pressure to sed after

(Over)

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IN ABOVE	SPACE DESCRIT	BE PROPOSED PRO	RAM : If proposal	is to deepen or	plug back, give data	on present productive	sone and proposed i	sew productive
						ns and measured and		
Drevente	r program if a	nv		-			•	

24 Le Lasso Delasso Loos	TITLE District Manager	DATE January 2, 1981
(This space for Federal or State office use)		
PERMIT NO	APPROVAL DATE	· · · · · · · · · · · · · · · · · · ·

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices. Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production sone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

* U.S. GOVERNMENT PRINTING OFFICE: 1974 - 781 -025 /VIII-239

(continued)

9 5/8" and 7" casing is set and will be tested as to operating condition during each trip while drilling. A rotating blowout preventer will be used while drilling with gas. (See schematic diagram)

(11) A water base drilling mud of sufficient weight to control the Fruitland Formation will be used while drilling the 8 3/4" hole.

(12) Compensated Density Gamma Ray-Neutron logs will be run in open hole. No testing or coring is anticipated.
 (13) Normal Fruitland field pressures are anticipated to be controlled with sufficient weighted mud. No hydrogen sulfide is anticipated.

BLACKWOOD & NICHOLS CO., LTD.

P.O. BOX 1237 DURANGO, COLORADO B1301

(303) 247.0728

January 2, 1981

United States Geological Survey P.O. Box 959 Farmington, New Mexico 87401

Gentlemen:

Blackwood & Nichols Co., Ltd., as operator of the Northeast Blanco Unit, proposes to drill the Northeast Blanco Unit Well No. 26A as an infill well located in the NW/4, Sec. 8-30N-7W, San Juan County, New Mexico. The well will be completed in the Mesaverde Zone.

Attached are maps and other data pertinent to the Development Plan for Surface Use.

I. Existing roads; See attached U.S.G.S. topographic map.

II, III, IV and IX: See attached maps.

V. Water will be hauled by truck transport from the Navajo Lake, approximately seven miles south of the location.

VII. Waste material will be placed in a reserve pit and later buried or burned.

VIII. Camp or airstrip will not be necessary.

IX. See attached map of well site layout. (Not to scale)
X. Upon completion the location will be leveled to its original state. The access road will remain. The location will be seeded, as per the Bureau of Land Management requirements.

IX. The location is relatively level and covered with Cedar and Pinon trees which will be disposed of as per the Bureau of Land Management requirements; an archaeological clearance will be obtained.

XII. DeLasso Loos, 1032¹/₂ Main Street, Durango, Colorado 81301. Telephones: Office: 303-247-0728 Home: 303-247-2345.

XIII.

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statement made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by <u>Blackwood & Nichols Co., Ltd.</u> and its contractors and subcontractors in conformity with this plan and terms and conditions under which it is approved.

Date January 2, 1981

nasso

DeLasso Loos, District Manager

DL:st Attachments

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Porm C-102 Supersedes C-128 Ellocitus 1-1-65

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t Letter	Section	Town	ship	· Range	Coun	it y · ·	•
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•						Date	· · · · ·
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							certify that the well location this plat was plotted from field
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Preliminary Proposal and Cost Estimate for:

Northeast Blanco San Jaun Co., New Mexico COMPANY Blackwood & Nichols Well Name Unit 26-A Location



ALL INFORMATION ON PRELIMINARY PROPOSAL DETERMINED GRAPHICALLY. FINAL WORK PROPOSAL TO BE COMPUTED BY EASTMAN WHIPSTOCK ENGINEERING DEPT.

Eastman Whipstock Representative - Date





BLACKWOOD AND NICHOLS CO., LTD. Northeast Blanco Unit No. 26A 1160' F/NL - 60' F/WL D-8-30N-7W San Juan County, New Mexico

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<pre>the above target. Well site located on Water & Power Resources Services Controlled Land. We propose to perforate the Point Lookout and Cliffhouse Zones and sand-water fracture with 200,000 gals water and 200,000 lbs. sand in two stages. Estimated tops: Fruitland 2120', Lewis 3295', Cliffhouse 5190', Point Lookout 5867', Mancos 6017'. A 3000 PSI WP; Series 10' 900 adapted to Series 10" - 600 and 6" - 600 hydraulic blowout preventer equipped with blind and necessary pipe rams will be used with adequate kill and bleed off lines. A mud of sufficient weight to control the Fruitland Formation will be used, well to be drilled with gas below 7" casing point. Compensated Density-Neutron logs will be run in open hole below 7" casing point.</pre>	6132' GL 23. SIZE OF HOLE 12 1/4" 8 3/4"	<u>9 5/8"</u> 7"	WEIGHT PER FO	ND CEMENT PROGRAM OT SETTING DEPTH 300' 3690'	250 S 400 S	CEMENT Sacks Sacks	EsT. TOP Circulate 1000'
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Page 2 of 6 Examiner Hearing - Wednesday - March 11, 1981

Docket No. 8-81

CASE 7185: Application of El Paso Exploration Company for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blanco Mesaverde and Basin-Dakota production in the wellbore of its Turner Hughes Well No. 17 located in Unit H of Section 10, Township 27 North, Range 9 West.

CASE 7161: (Continued from February 25, 1981, Examiner Hearing)

Application of John Yuronka for four compulsory poolings, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Langlie Mattix Pool underlying the four 40-acre proration units comprising the SW/4 of Section 31, Township 22 South, Range 37 Fast, to be dedicated to wells to be drilled at standard locations thereon. Also to be considered will be the cost of drilling and completing said wells and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the wells, and a charge for risk involved in drilling said wells.

CASE 7164: (Continued from February 25, 1981, Examiner Hearing)

Application of ARCO Oil and Gas Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Devonian and Ellenburger formations, Custer Field, underlying the N/2 of Section 6, Township 25 South, Range 37 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7165: (Continued from February 25, 1981, Examiner Hearing)

Application of ARCO Oil and Gas Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Langley-Ellenburger Pool underlying the N/2 of Section 33, Township 22 South, Range 36 East, to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7175: (Continued from February 25, 1981, Examiner Hearing)

Application of Conoco Inc. for compulsory pooling and a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp-Ellenburger formations underlying the S/2 of Section 19, Township 25 South, Range 37 East, to be dedicated to a well to be drilled at a standard location and dually completed in the Devonian and Ellenburger formations. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for risk involved in drilling said well.

CASE 7186:

86: Application of Sun Texas Company for said water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Devonian formation in the interval from 10,856 feet to 11,370 feet in its State C Account 1 Well No. 3 in Unit L of Section 2, Township 12 South, Range 33 East, Bagley Siluro-Devonian Pool.

CASE 7187: Application of Blackwood & Nichols Co., Ltd. for four non-standard proration units, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of the following four Fruitland and Pictured Cliffs non-standard gas proration units: a 185.68-acre unit comprising the SW/4 cf 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 units are to be dedicated to wells drilled at standard locations thereon.

CASE 7188: Application of Blackwood & Nichols Co., Ltd. for directional drilling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to directionally drill its Northeast Blanco Unit Well No. 26-A, the surface location of which is 1160 feet from the North line and 60 feet from the West line of Section 8, Township 30 North, Range 7 West, and directionally drill said well in such a manner as to bottom it in the Mesaverde formation within 100 feet of a point 1190 feet from the North line and 790 feet from the West line of said Section 8, the W/2 of the section to be dedicated to the well; applicant further seeks authority to drill its Northeast Blanco Unit Well No. 32-A, the surface location of which is 1450 feet from the North line and 990 feet from the East line of Section 7, Township 30 North, Range 7 West, and directionally drill said well in such a manner as to bottom it in the Mesaverde formation within 100 feet of a point 1850 feet from the South line and 990 feet from the East line of said Section 7, the E/2 of the section to be dedicated to the well.

CAMPBELL. BYRD & BLACK, P.A.

LAVIYERS

JACK M, CAMPBELL HARL D, BYRD BRUCE D, BLACK MICHAEL B, CAMPBELL WILLIAM F, CARR BRADFORD C, BERGE WILLIAM G, WARDLE

JEFFERSON PLACE SUITE I - HO NORTH GUADALUPE POST OFFICE BOX 2208 SANTA FE. NEW MEXICO 87501 TELEPHONE: (505) 988-442(TELECOPIER, (505) 983-6043

February 19, 1981

Mr. Joe D. Ramey Director Oil Conservation Division New Mexico Department of Energy and Minerals Post Office Box 2088 Santa Fe, New Mexico 87501

Cuse 7/88

Re: Application of Blackwood & Nichols Co., Ltd. for Directional Drilling, San Juan County, New Mexico

Dear Mr. Ramey:

Enclosed in triplicate is the application of Blackwood & Nichols Co., Ltd. in the above-referenced matter.

The applicant requests that this matter be included on the docket for the examiner hearing scheduled to be held on March 11, 1981.

Very truly yours

William F. Carr

WFC:lr

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Enclosures

cc: Mr. Charles Blackwood Mr. DeLasso Loos

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION OF BLACKWOOD & NICHOLS CO., LTD. FOR DIRECTIONAL DRILLING, SAN JUAN COUNTY, CASE <u>7/88</u> NEW MEXICO.

APPLICATION

Comes now Blackwood & Nichols Co., Ltd., by and through its undersigned attorneys, and hereby makes application pursuant to Oil Conservation Division Rule 111 to directionally drill its Northeast Blanco Unit Wells No. 26A and 32A, Blanco Mesaverde Pool, and in support thereof would show the Division:

 Applicant is the operator of the Blanco Mesaverde Pool underlying the E/2 of Section 7 and the W/2 Section 8, Township
 North, Range 7 West, N.M.P.M., San Juan County, New Mexico.

?. Applicant proposes to directionally drill its Northeast Blanco Unit Well No. 26A from a surface location of 1160 feet from the north line and 60 feet from the west line to a bottom hole location of 1190 feet from the north line and 790 feet from the west line of Section 8, Township 30 North, Range 7 West, N.M.P.M., San Juan County, New Mexico with the intent of testing the Blanco Mesaverde Pool at an approximate depth of 5955 feet.

3. Applicant further proposes to directionally drill its Northeast Blanco Unit Well No. 32A from a surface location 1450 feet from the north line and 990 feet from the east line to a bottom hole location 1850 feet from the south line and 990 feet from the east line in Section 7, Township 30 North, Range 7 West, N.M.P.M., San Juan County, New Mexico with the intent of testing the Blanco Mesaverde Pool at an approximate depth of 6317 feet.

4. Applicant proposes to dedicate to the Northeast Blanco Unit Well No. 26A a standard proration unit comprised of the W/2of said Section 8 and further propsoses to dedicate to its northeast Blanco Unit Well No. 32A a standard proration unit to be comprised of the E/2 of said Section 7.

5. Both of the subject wells lie in close proximity to Navajo Lake and both wells must be directionally drilled to enable the applicant to produce the reserves which underlie the above-referenced proration units.

6. Attached hereto and incorporated herein are copies of applications for permit to drill each of the subject wells, OCD Forms C-102 showing the proposed surface and bottom hole locations for each of the subject wells, a plat showing the general topography of the proposed proration units and a preliminary proposal from Eastman Wipstock showing the proposed deviation of the hole for each of the subject wells.

7. That approval of this Application will enable the applicant to produce hydrocarbons that otherwise would not be produced and will otherwise be in the best interest of conservation, the prevention of waste and the protection of correlative rights.

WHEREFORE, Applicant requests that this matter be set for hearing before a duly appointed examiner of the Oil Conservation Division on March 11, 1981, that notice be given as required by law and the rules of the Rules of the Division, and that the Division enter its order granting the applicant permission to directionally drill its Northeast Blanco Unit Wells No. 26A and 32A and granting such other and further relief as is appropriate.

Respectfully submitted,

CAMPBELL, BYRD AND BLACK, P.A.

By Thilliam F. Carr William F. Carr P.O. Box 2208 Santa Fe, New Mexico 87501 Attorneys for Applicant

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Instructions

General: This form is designed for submitting proposals to perform contain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production sone. Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

U.S. GOVERNMENT PRINTING OFFICE: 1974-781-025/VIII-239

(continued)

9 5/8" and 7" casing is set and will be tested as to operating condition during each trip while drilling. A rotating blowout preventer will be used while drilling with gas. (See schematic diagram)

(11) A water base drilling mud of sufficient weight to control the Fruitland Formation will be used while drilling the 8 3/4" hole.

(12) Compensated Density Gamma Ray-Neutron logs will be run in open hole. No testing or coring is anticipated.

(13) Normal Fruitland field pressures are anticipated to be controlled with sufficient weighted mud. No hydrogen sulfide is anticipated.

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Porm C-102 Supersedes C-138 Effective 1-1 65

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Init Letier	Section	Township	ł	Range	County	· · · · · · · · · · · · · · · · · · ·	L
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Preliminary Proposal and Cost Estimate for:

Northeast Blanco San Jaun Co., New Mexico COMPANY Blackwood & Nichols Well Name unit 26-A Location



ALL INFORMATION ON PRELIMINARY PROPOSAL DETERMINED GRAPHICALLY. FINAL WORK PROPOSAL TO BE COMPUTED BY EASTMAN WHIPSTOCK ENGINEERING DEPT.

Eastman Whipstock Representative - Date

	· j					
DISTRIBUTION						
SANTA FE	NET NET	MEXICO OIL CONSE	RVATION COMMISSION		Form C-101 Revised 1-1-6	5
FILE	-+]	5A. Indicate	Type of Lease
U.S.C.S.					STATE	
LAND OFFICE					5. State Oll	6 Gos Lease No.
OPERATOR						
					uuu	MMMMMM
APPLICATIO	N FOR PERMIT TO	DRILL, DEEPEN,	OR PLUG BACK			
1a. Type of Work					7. Unit Agre	ement Name st Blanco Unit
DRILL X	ו		PLUG		Agrmt.	71. Sec. 929
b. Type of Well					8, Farm or L	ease Name
WELL GAS WELL	OTHER		ZONE	ZONE		ast Blanco Unit
2. Name of Operator					9, Well No.	
Blackwood & Nich	ols Co., Ltd.					32A
3. Address of Operator						d Pool, or Wildcat
P. O. Box 1237,					Blanco	Mesaverde
4. Location of Well UNIT LETT	ERI	DCATED 1850	EET FROM THE SOUT	thune		
0001	V ant	7	2011 71		///////	
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<i>{}}}}}}}</i>	*********		19. Proposed Depth	9A. Formation	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20. Rotory or C.T.
			6317'	Mesaver		Rotary
21. Elevations (Show whether Di	F. RT. etc.) 21A. Kin	id & Stotus Plug. Bond	21B. Drilling Contractor			. Date Work will start
6132' GL			Unknown			1 1, 1981
23.	k			·	<u> </u>	
		PROPOSED CASING AND	D CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF	CEMENT	EST. TOP
12 1/4"	9 5/8"	36.00#	300'	250	Sacks	Circulate
8 3/4"	7"	23.00#	3690'	400	Sacks	1000'
6 1/4"	4 1/2"	11.6#	6317'	350	Sacks	3500'
Surface Location:		get. Well site			-	

We propose to perforate the Point Lookout and Cliffhouse Zones and sand-water fracture with 200,000 gals water and 200,000 lbs. sand in two stages. Estimated tops: Fruitland 2120', Lewis 3295', Cliffhouse 5190', Point Lookout 5867', Mancos 6017'. A 3000 PSI WP; Series 10" - 900 adapted to Series 10" - 600 and 6" - 600 hydraulic blowout preventer equipped with blind and necessary pipe rams will be used with adequate kill and bleed off lines. A mud of sufficient weight to control the Fruitland Formation will be used, well to be drilled with gas below 7" casing point.

Compensated Density-Neutron logs will be run in open hole below 7" casing point.

Blow out preventers will be tested every trip. Gas is dedicated to Northwest Pipeline Corp.

IN A BOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUC TIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

signed e Lasso Coloras		best of my knowledge a District Man	Dcie	January 26, 1981
(This space for State Use)	<u> </u>		-	
APPROVED BY			DATE	
CONDITIONS OF APPROVAL, IF ANY:		·		
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and a second				1. No. 1 1.

NEW ________ OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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Dim C+102 Superaedra C+128 Ethective 1-1-53

Deviator BLA	CKWOO	DD & NIC	HOLS	. •	Lease	NORTH	HEAST BLAN	NCO UNTI	T Well	No. 32A	
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ALL INFORMATION ON PRELIMINARY PROPOSAL DETERMINED GRAPHICALLY. FINAL WORK PROPOSAL TO BE COMPUTED BY EASTMAN WHIPSTOCK ENGINEERING DEPT.

LA Eastman Whipstock Representative - Date

BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION OF BLACKWOOD & NICHOLS CO., LTD. FOR DIRECTIONAL DRILLING, SAN JUAN COUNTY, NEW MEXICO.

CASE __________

APPLICATION

Comes now Blackwood & Nichols Co., Ltd., by and through its undersigned attorneys, and hereby makes application pursuant to Oil Conservation Division Rule 111 to directionally drill its Northeast Blanco Unit Wells No. 26A and 32A, Blanco Mesaverde Pool, and in support thereof would show the Division:

 Applicant is the operator of the Blanco Mesaverde Pool underlying the E/2 of Section 7 and the W/2 Section 8, Township
 North, Range 7 West, N.M.P.M., San Juan County, New Mexico.

2. Applicant proposes to directionally drill its Northeast Blanco Unit Well No. 26A from a surface location of 1160 feet from the north line and 60 feet from the west line to a bottom hole location of 1190 feet from the north line and 790 feet from the west line of Section 8, Township 30 North, Range 7 West, N.M.P.M., San Juan County, New Mexico with the intent of testing the Blanco Mesaverde Pool at an approximate depth of 5955 feet.

3. Applicant further proposes to directionally drill its Northeast Blanco Unit Well No. 32A from a surface location 1450 feet from the north line and 990 feet from the east line to a bottom hole location 1850 feet from the south line and 990 feet

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from the east line in Section 7, Township 30 North, Range 7 West, N.M.P.M., San Juan County, New Mexico with the intent of testing the Blanco Mesaverde Pool at an approximate depth of 6317 feet.

4. Applicant proposes to dedicate to the Northeast Blanco Unit Well No. 26A a standard proration unit comprised of the W/2of said Section 8 and further propsoses to dedicate to its northeast Blanco Unit Well No. 32A a standard proration unit to be comprised of the E/2 of said Section 7.

5. Both of the subject wells lie in close proximity to Navajo Lake and both wells must'be directionally drilled to enable the applicant to produce the reserves which underlie the above-referenced proration units.

6. Attached hereto and incorporated herein are copies of applications for permit to drill each of the subject wells, OCD Forms C-102 showing the proposed surface and bottom hole locations for each of the subject wells, a plat showing the general topography of the proposed proration units and a preliminary proposal from Eastman Wipstock showing the proposed deviation of the hole for each of the subject wells.

7. That approval of this Application will enable the applicant to produce hydrocarbons that otherwise would not be produced and will otherwise be in the best interest of conservation, the prevention of waste and the protection of correlative rights.

WHEREFORE, Applicant requests that this matter be set for hearing before a duly appointed examiner of the Oil Conservation Division on March 11, 1981, that notice be given as required by law and the rules of the Rules of the Division, and that the Division enter its order granting the applicant permission to directionally drill its Northeast Blanco Unit Wells No. 26A and 32A and granting such other and further relief as is appropriate.



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Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by ether a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

Item 14: Needed only when location of well cannot rendily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, show-ing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices. Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of nole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

+ U.S. COVERNMENT PRINTING OFFICE: 1974-781-025/VIII-209

(continued)

(11) A water base drilling mud of sufficient weight to control the Fruitland Formation will be used while drilling rotating blowout preventer will be used while drilling with gas. (See schematic diagram) 9 5/8" and 7" casing is set and will be tested as to operating condition during each trip while drilling. >

(12) Compensated Density Gamma Ray-Neutron logs will be run in open hole. the 8 3/2" hole.

(i3) Normal Fruitland field pressures are anticipated to be controlled with sufficient weighted mud. No hydropical sulfide is anticipated. No testing or coring is anticipated.

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Northeast Blanco San Jaun Co., New Mexico



ALL INFORMATION ON PRELIMINARY PROPOSAL DETERMINED GRAPHICALLY. FINAL WORK PROPOSAL TO BE COMPUTED BY EASTMAN WHIPSTOCK ENGINEERING DEPT.

leur Eastman Whipstock Representative - Date

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BEFORE THE

OIL CONSERVATION DIVISION

NEW MEXICO DEPARTMENT OF ENERGY AND MINERALS

IN THE MATTER OF THE APPLICATION OF BLACKWOOD & NICHOLS CO., LTD. FOR DIRECTIONAL DRILLING, SAN JUAN COUNTY, NEW MEXICO.

CASE 7188

APPLICATION

Comes now Blackwood & Nichols Co., Ltd., by and through its undersigned attorneys, and hereby makes application pursuant to Oil Conservation Division Rule 111 to directionally drill its Northeast Blanco Unit Wells No. 26A and 32A, Blanco Mesaverde Fool, and in support thereof would show the Division:

 Applicant is the operator of the Blanco Mesaverde Pool underlying the E/2 of Section 7 and the W/2 Section 8, Township
 North, Range 7 West, N.M.P.M., San Juan County, New Mexico.

2. Applicant proposes to directionally drill its Northeast Blanco Unit Well No. 26A from a surface location of 1160 feet from the north line and 60 feet from the west line to a bottom hole location of 1190 feet from the north line and 790 feet from the west line of Section 8, Township 30 North, Range 7 West, N.M.P.M., San Juan County, New Mexico with the intent of testing the Blanco Mesaverde Pool at an approximate depth of 5955 feet.

3. Applicant further proposes to directionally drill its Northeast Blanco Unit Well No. 32A from a surface location 1450 feet from the north line and 990 feet from the east line to a bottom hole location 1850 feet from the south line and 990 feet from the east line in Section 7, Township 30 North, Range 7 West, N.M.P.M., San Juan County, New Mexico with the intent of testing the Blanco Mesaverde Pool at an approximate depth of 6317 feet.

4. Applicant proposes to dedicate to the Northeast Blanco Unit Well No. 26A a standard promation unit comprised of the W/2of said Section 8 and further propsoses to dedicate to its northeast Blanco Unit Well No. 32A a standard promation unit to be comprised of the E/2 of said Section 7.

5. Both of the subject wells lie in close proximity to Navajo Lake and both wells must be directionally drilled to enable the applicant to produce the reserves which underlie the above-referenced proration units.

6. Attached hereto and incorporated herein are copies of applications for permit to drill each of the subject wells, OCD Forms C-102 showing the proposed surface and bottom hole locations for each of the subject wells, a plat showing the general topography of the proposed proration units and a preliminary proposal from Eastman Wipstock showing the proposed deviation of the hole for each of the subject wells.

7. That approval of this Application will enable the applicant to produce hydrocarbons that otherwise would not be produced and will otherwise be in the best interest of conservation, the prevention of waste and the protection of correlative rights.

WHEREFORE, Applicant requests that this matter be set for hearing before a duly appointed examiner of the Oil Conservation Division on March 11, 1981, that notice be given as required by law and the rules of the Rules of the Division, and that the Division enter its order granting the applicant permission to directionally drill its Northeast Blanco Unit Wells No. 26A and 32A and granting such other and further relief as is appropriate.

Respectfully submitted,

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CAMPBELL, BYRD AND BLACK, P.A.

By William F. Carr P.O. Box 2208 Santa Fe, New Mexico 87501 Attorneys for Applicant

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THEADY	(6) Ojo Alamo(7) FruitlandPoint Looke	3000'; Pictured out 5505'. face; 300 sacks	Cliffs 3240'; Class B cement ite cement with	Massive Cliffho with 2% CaCl ₂ ; 1/4# flocele p	ouse 51 circu er sac	80'; Menefee 5220'; late to surface. 7" k followed with 100
(This space for Federal or State office use)	intermediat sacks Class with 1/4# 4 1/2" line 6 1/4# Gils (10) A 3000 PSI blowout pre- sr) adequate k: IN ABOVE SFACE DESCRIPT roope. If proposal is to preventer program. If an 24 A MARCE DESCRIPTION	flocele per sach er; 300 sacks 50 sonite per sack WP; Series 10" eventer equipped ill and bleed of drill or deepen directions y. Delasse	c; to circulate D-50 Pozmix wit to circulate t - 900 - adapte d with blind an ef lines. Blow proposal is to deepen or My, give pertinent data	e to surface. h 2% gel, 0.6% to top of liner. ed to Series 10' ad necessary pip bout preventer w plug back, give data on p on subsurface locations an District Manager	FLA, 1 - 600 e rams fill be resent prod d measure	/4# flocele per sack and and 6" - 600 hydraulic will be used with pressure tested after Huctive zone and proposed new productive d wird true vertical depths. Give blowout

*See Instructions On Reverse Side

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Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by wher a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of the treated the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse wide, above ing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices. Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. COVERNMENT PRINTING OFFICE: 1974-781-025/VII1-239

(continued)

rotating blowout preventer will be used while drilling with gas. 9 5/8" and 7" casing is set and will be tested as to operating condition during each trip while drilling. (See schematic diagram) >

(11) A water base drilling mud of sufficient weight to control the Fruitland Formation will be used while driling the 8 3/4" hole.

(13)(12)Normal Fruitland field pressures are anticipated to be controlled with sufficient weighted mud. Compensated Density Gamma Ray-Neutron logs will be run in open hole. No testing or coring is anticipated. sulfide is anticipated. No hydrogen

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

ibim C-102 Superardes C-128 -Filocitivo 1-1-65

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Profile Lary Proposal and Cost Estimate for

Northeast Blanco San Jaun Co., New Mexico Company Blackwood & Nichols Well Name unit 26-A Location



ALL INFORMATION ON PRELIMINARY PROPOSAL DETERMINED GRAPHICALLY. FINAL WORK PROPOSAL TO BE COMPUTED BY EASTMAN WHIPSTOCK ENGINEERING DEPT.

leur Eastman Whipstock Representative - Date

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b. Type of Well DRILL X	-	DEEPEN			8, Farm of L	1, Sec. 929
OIL CAS X			SINGLE X MU	TIPLE	and the second s	ast Blanco Un
2. Name of Operator					9. Well No.	204
Blackwood & Nich	ols Co., Ltd.			11 11 11 11 1 10 10 10 10 10 10 10 10 10	1	32A Pool, or Wildcat
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			63171	Mesave	rðe	Rotary
21. Elevetions (Show whether D.	F, RT, etc.) 21A. Kind	& Status Plug. Sond	21B. Drilling Contractor			. Date Work will start
6132" GL			Unknown		Apri	1 1, 1981
23.	F	PROPOSED CASING AN	ND CEMENT PROGRAM			
SIZE OF HOLE	SIZE DE CASING	WEIGHT PER FOO	T SETTING DEPTH	I SACKS C		CST. TOP
12 1/4"	9 5/8"	36.00#	300'		Sacks	Circulate
8 3/4"	7"	23.00#	3690'		Sacks	1000'
6 1/4"	4 1/2"	11.6#	6317'	350	Sacks	3500"
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Surface Location:	1450' F/NL - 9	990'F/EL; We	II to be Drilled	1 Direct	lonarry C	ontrolled to
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We propose to per	forate the Point	t Lookout and	Cliffhouse Zones	s and sa	nd-water	fracture with
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200 000 eals wate	r and 200,000 lt	os. sand in tw	U SLABES. LOLLI	nated to	p3. 1101	tiano 2120°,
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NEW LEXICO OIL CONSERVATION COMMISSION WILL LOCATION AND ACREAGE DEDICATION PLAT

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

CASE NO. 7188

Order No. R-6636

APPLICATION OF BLACKWOOD & NICHOLS CO., LTD. FOR DIRECTIONAL DRILLING, 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

19<u>81</u>, at Santa Fe, New Mexico, before Examiner <u>Richard L. Stamets</u> NOW, on this <u>day of March</u>, 19<u>81</u>, 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 authority to directionally drill its Northeast Blanco Unit Well No. 26-A, the surface location of which is 1160 feet from the North line and 60 feet from the West line of Section 8, Township 30 North, Range 7 West, a directionally drill said Rell in such a manner as to bottom it in the Mesaverde formation within 100 feet of a point 1190 feet from the North line and 790 feet from the West line of said Section 8, the W/2 of the section to be dedicated to the well. (3) That applicant further seeks authority to drill its Northeast Blanco Unit Well No. 32-A, the surface location of which is 1450 feet from the North line and 990 feet from the East line of Section 7, Township 30 North, Range 7 West, and directionally drill said well in such a manner as to bottom it in the Mesaverde formation within 100 feet of a point 1850 feet from the South line and 990 feet from the East line of said Section 7, the E/2 of the section to be dedicated to the well.

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(4) That the directional drilling of each of the abovedescribed wells is necessitated in order to by the presence in Navejo here which covers most of the sarface of said provers with

(5) That the applicant should be required to determine the subsurface location of the kick-off point on each well prior to directional drilling, and to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said wells are to be completed as producing wells.

IT IS THEREFORE ORDERED:

(1) That the applicant, Blackwood & Nichols Co., Ltd., is hereby authorized to directionally drill its Northeast Blanco Shifts. Unit Well No. 26-A, the surface location of which is 1160 feet from the North line and 60 feet from the West line of Section 8, Township 30 North, Range 7 West, and directionally drill said well in such a manner as to bottom it in the Mesaverde formation within 100 feet of a point 1190 feet from the North line and 790 feet from the West line of said Section 8, the W/2 of the section to be dedicated to the well.

directions ly (2) That applicant is further hereby authorized to drill its Northeast Blanco Unit Well No. 32-A, the surface location of which is 1450 feet from the North line and 990 feet from the East line of Section 7, Township 30 North, Range 7 West, and directionally drill said well in such a manner as to bottom it in the Mesaverde formation within 100 feet of a point 1850 feet from the South line and 990 feet from the East line of said Section 7, the E/2 of the section to be dedicated to the well.

PROVIDED HOWEVER, that prior to directional drilling of each well, the operator shall determine the subsurface location of the kick-off point; and

PROVIDED FURTHER, that subsequent to the above-described directional drilling, should said wells be a producers, a continuous multi-shot directional survey shall be made of the wellbore of each well from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico, and that the operator shall notify the Division's Aztec District Office of the date and time said survey is to be commenced.

(3) That Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.

(4) 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.

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