

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

OIL CONSERVATION DIVISION

P.O. Box 2088

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

Santa Fe, New Mexico 87504-2088

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

WELL API NO. 30-045-27536
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Northeast Blanco Unit
8. Well No. 462
9. Pool name or Wildcat Basin Fruitland Coal
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 6560' GL

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 GAS WELL OTHER

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

3. Address of Operator
P. O. Box 1237, Durango, Colorado 81302

4. Well Location
Unit Letter N : 805 Feet From The South Line and 1370' Feet From The West Line
Section 1 Township 31N Range 7W NMPM San Juan County

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"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>		CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER: <u>OIL CON. DIV. DIST. 3</u> <input type="checkbox"/>		OTHER: <u>Spud and cement</u> <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.

12-13-89 Spud 12-1/4" surface hole at 1:30 p.m., 12-12-89. Drill to 325'. Run 7 jts (308.26') 9-5/8" 36# J-55 NSS casing, set at 320'; wooden plug at 280'. Cement with 250 sx (295 cf) Class B neat with 2% CaCl₂ + 1/4 #/sk cellophane flake. Circulate 21 Bbls cement to surface. Plug down at 1:45 a.m., 12-13-89.

12-14-89 Pressure test 9-5/8" casing and BOP to 600 psig for 30 minutes after WOC - held OK.

12-16-89 Reach TD of 3200'. Run 73 jts (3188.36') 23# L-80, set at 3200'; insert float at 3156'. Cement with 460 sx (785 cf) Class G with 6% D-20, .6% D-112, and 1/4 #/sk D-29. Tail in with 125 sx (144 cf) Class G neat with 1/4 #/sk D-29. Good circulation throughout. Circulate 33 Bbls cement to surface. Plug down at 1:45 a.m., 12-16-89.

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

SIGNATURE William F. Clark TITLE Operations Manager DATE 8 Jan '90

TYPE OR PRINT NAME William F. Clark TELEPHONE NO. _____

(This space for State Use)

Original Signed by FRANK T. CHAVEZ SUPERVISOR DISTRICT III DATE JAN 10 1990

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

FEB 09 1990

OIL CON. DIV. DIST. 3

BENCH MARK GEOLOGICAL SERVICES

HYDROCARBON WELL LOG

ABBREVIATIONS

- CO --- Circulate Out
- CG --- Connection Gas
- CB --- Core Bit
- DC --- Depth Correction
- DS --- Directional Survey
- DST --- Drill Stem Test
- DTG --- Down Time Gas
- FC --- Filter Cake
- LAT --- Logged After Trip
- NB --- New Bit
- NDR --- No Data Recorded
- NR --- No Returns
- PP --- Pump Pressure
- RPM --- Rotary Speed
- SPM --- Pump Strokes
- TG --- Trip Gas
- TGR --- Trip Gas Recycle
- Vis --- Viscosity
- WI --- Water Loss
- WOB --- Weight on Bit
- WT --- Density Of Drill Fluid

LITHOLOGY MODIFIERS

- /// --- Anhydritic
- B --- Bentonitic
- ⊕ --- Carbonaceous
- --- Carbonaceous, Coaly
- ⊖ --- Dolomitic
- F --- Fossiliferous
- ∇ --- Glauconitic
- ◇ --- Oolitic
- P --- Pyritic
- ∧ --- Siliceous

OPERATOR Blackwood and Nichols

WELL NE Blanco Unit 462

FIELD Basin Fruitland Coal

LOCATION sec 1 T31N R7W

CO. STATE San Juan Co., New Mexico

ELEVATION KB 6571 ft GL 6557 ft

SPUD DATE

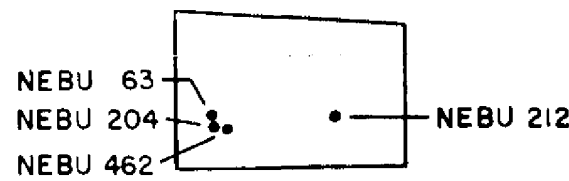
INTERVAL LOGGED 3198 - 3462

DATE LOGGED 1/24 - 1/25/90

LOGGING GEOLOGISTS Randy Laney, Mike Mixer

INSTRUMENTATION FID chromatograph and total gas detector, infrared CO₂ detector

WELL LOCATION



LEGEND—GAS CURVES

TOTAL GAS	T
METHANE	1
ETHANE	2
PROPANE	3
ISO & N-BUTANE	4
OIL INDICATOR $\frac{C_2 + C_3}{C_1}$	0

HYDROCARBON ANALYSIS

TOTAL GAS		Reported in Units	
10	100	10	100
GAS CHROMATOGRAPHY		Reported in PPM	
100	1000	100	1000
OIL INDICATOR		Dimension Less	
0.01	0.1	0.01	0.1

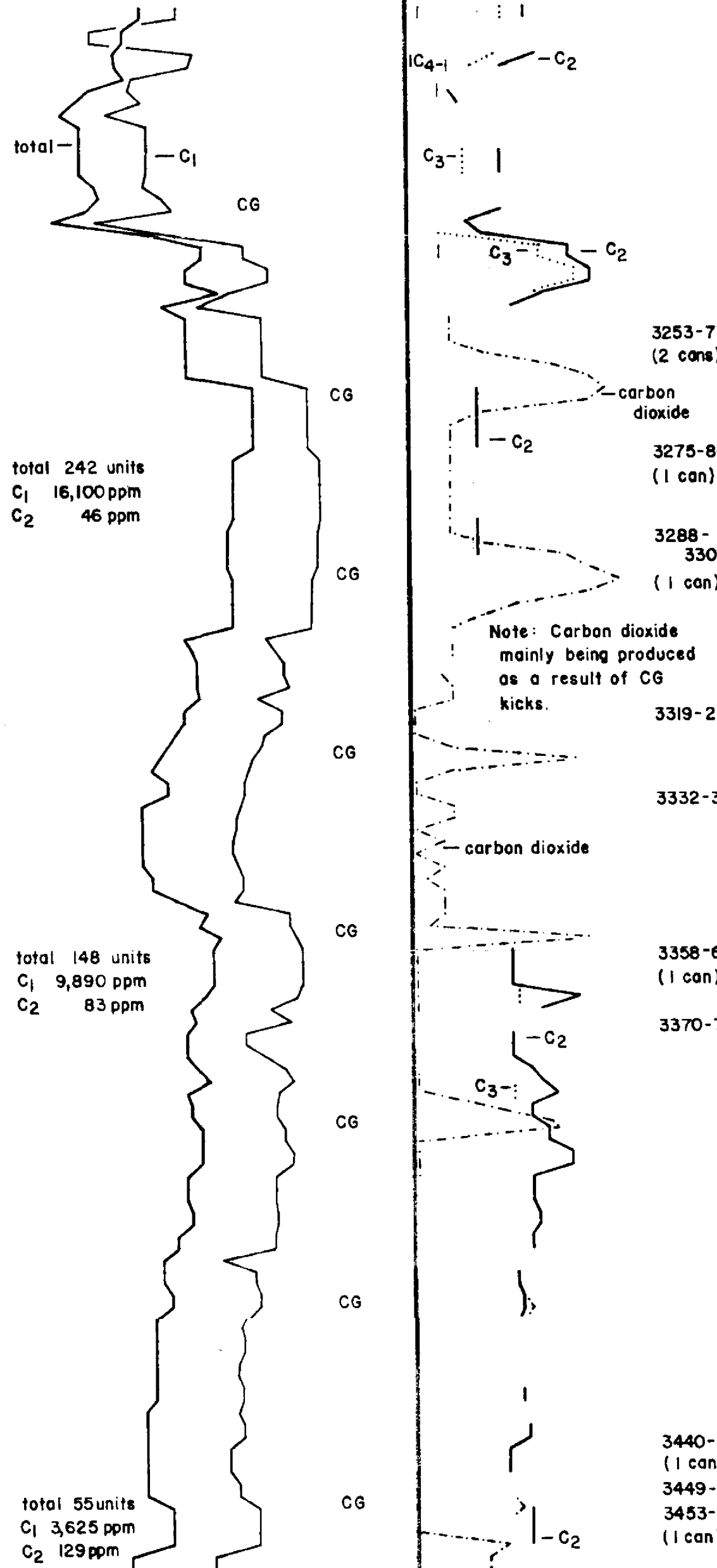
7" casing set at 3198'

5 ft. sample interval
Drilling with fresh water

Depth of Coal Intervals
(# of canistered samples)

100 units Total Gas = 1% methane
 10 100 1000 units
 100 1000 10,000ppm

heavies 100 1000ppm
 CO₂ 1000 10,000ppm



Visual Show

Lithology

Lithology Descriptions and Remarks

Ss lt brn gy,lt brn, vf-f gr, sb ang, gen p srt, fros, v calc cmt, some wh calc clyst, occ carb gr-some brn mica flks, tt, NS

Sh v dk brn, blk brn, plty-some finely fis, mod frm, earthy-silky-res luster, vv carb w/ blk, vit coaly partings and laminae

Coal upper part brn-blk to blk brn, pred sb plty-sb blk, res to some sb vit-v rarely vit luster, v carb & argill-grd to carb & coaly sh, abnt access. grs-lt gy wh sec calc & orng brn opaque resinous material; lower coal brn blk, sb blk, sb vit-res-v rare vit, v carb & less argill. than above, less calc veins, some resin, basal coal best-still overall poor quality

Sltst m-dk gy brn, sb blk, frm, mod-v argill-grd to silty sh, v abnt lt-m brn semi-tr nsit calc vein fill

Ss m brn, brn gy, vf-f gr, sb ang, p srt, sli-mod calc, v silty & argillaceous w/ carb laminae, tt, NS

Coal blk & brn blk, pred sb blk, sb vit-res-rare vit luster, mod-v carb, sli argill. some resin, some brn calc vein fill, marginally better than above thick coal

T/ P.C. Tongue 3379'
Ss v lt gy wh S&P, f gr, cl, sb ang, mod w srt, smpl disagg, sli calc, glauc & carb grs, no stain, unif med vei flor, tr pale vel ring cut

Ss gen aa, lt gy wh S&P, f-some vf gr, sli fros, sb ang, becoming sli more calc, sli more carb grs, some lt brn mica flks, NSOFC

Coal brn blk, sb blk, sb plty, sb vit-res-no vit material, v carb & argill, no resin, poor-fair quality coal

Coal blk & brn blk, sb blk-blky, 10-20% vit-rest sb vit, less carb than above, abnt tan sb waxy sli calc sh, some lt brn calc vein fill, no resin, fair quality coal-best of well

T/ Main P.C. 3459'
TD Sample- Ss lt brn gy wh S&P, f gr, sb ang, sli fros, fair srt, smpl disagg, sli calc, glauc & carb grs, NFOSC

RATE OF PENETRATION

Min. Ft.

STC FDT 6 1/4"
3-20's

2.5 5 7.5 10

WOB 10
RPM 88
PP 1000

TD 3462'

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