

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Submit in Duplicate*

WELL COMPLETION OR RECOMPLETION AND LOG *

1a. Type of Well: oil well gas well dry RECEIVED SLD
 b. Type of Completion: new well work over deepen BLM
 plug back diff. resvr. other

2. Name of Operator: Blackwood & Nichols Co. A Limited Partnership

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

4. Location of Well: (Report location clearly, in accordance with any State requirements)*
 At surface
 At top prod. interval reported below 555' FSL - 720' FML
 At total depth

Permit No.: 30-045-28222

5. Lease Designation & Serial #: NM-03358
 6. If Indian, Allottee/Tribe Name: 30-045-28553
 7. Unit Agreement Name: Northeast Blanco Unit
 8. Farm or Lease Name: Northeast Blanco Unit
 9. Well No.: NEBU
 Middle Mesa SLD #2
 10. Field and Pool, or Wildcat: Wildcat Morrison/Entrada
 11. Sec., T., M., or Block and Survey or Area: Sec. 11, T31N, R7W
 12. County or Parish: San Juan
 13. State: NM

15. Date Spudded: 09-09-91
 16. Date TD Reached: 12-21-91
 17. Date Compl. (ready to produce): 03-04-92
 18. Elev. (DF, RKB, RT, GR, Etc)*: ' KB
 19. Elev. Csgdh: ' UG

20. Total Depth, MD & TVD: 9240'
 21. Plug Back TD, MD & TVD: 9240'
 22. If Mult. Comp.: How Many* N/A
 23. Intervals Drilled By: Rotary Tools TD
 Cable Tools No

24. Producing Interval(s), of this completion - Top, Bottom, Name (MD and TVD)*: Fruitland Basin Coals, open hole completion. No producing zones; Salt Water Disposal
 25. Was Directional Survey Made? Yes

26. Type Electric and Other Logs Run: Induction, GR, SP, Density, Neutron at Casing point and TD, Mud Log at 2110'-3700' & 8059'-9240'
 27. Was Well Cored? No

28. CASING RECORD (Report all strings set in well)

Casing Size	Weight, LB/FT	Depth Set (MD)	Hole Size	Cementing Record	Amount Pulled
20.000"	94# K55	334'	26.000"	¹⁰⁵⁰⁵ 1097 cf of Class B	10 Bbls Circ. Cement
13.375"	61#/68# K55	3700'	17.500"	1. 1365 cf 65/35 Poz/ 232 cf Class B 2. 2973 cf 65/35 Poz/ 116 cf Class B	30 Bbls Circ. Cement 200 Bbls Circ. Cement <u>2670</u>
7.000"	26#/29#/26# P110/N80/N80	9240'	8.750	380 cf CL H ⁸⁵⁰⁵	

LINER RECORD

TUBING RECORD

Size	Top (MD)	Bottom (MD)	Sacks Cmt*	Screen (MD)	Size	Depth Set (MD)	Packer Set (MD)
9.625	3528'	8059'	1303 ¹⁵⁰³	N/A	3.500"	8192'	8192'

31. Perforation Record (Interval, size and number):

Entrada 8990'-9099'
 Bluff 8690'-8832'
 Morrison 8276'-8648'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Depth Interval (MD)	Amount and Kind of Material Used
See attachment	See attachment

33. PRODUCTION

Date First Production: Never
 Production Method (Flowing, gas lift, pumping-size and type of pump): Injection Well
 Well Status (shut-in): Injection

Date of Test: N/A
 Hours Tested: N/A
 Choke Size: N/A
 Prod'n For Test Period: N/A
 Oil-Bbl: N/A
 Gas-MCF: N/A
 Water-Bbl: N/A
 Gas-Oil Ratio: N/A

Flow. Tubing Press: N/A
 Casing Pressure: N/A
 Calculated 24 HR Rate: N/A
 Oil-Bbl: N/A
 Gas-MCF: N/A
 Water-Bbl: N/A
 Oil Gravity-API: N/A

34. Disposition of Gas (Sold, used for fuel, vented, etc): N/A
 Test Witnessed By:

35. List of Attachments:

36. I hereby certify that the foregoing and attached information in complete and correct as determined from all available records

Signed: Mark S. Manson Mark S. Manson Title: FARMINGTON RESOURCE AREA Engineer Date: 4-7-92

(See Instructions and Spaces for Additional Data on Reverse Side)

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

ACCEPTED FOR RECORD

APR 23 1992

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Middle Mesa SUD #2	3121'	3124'		Top Main PC	3407'	
Fruitland Coal Zones:	3125'	3134'		PC Tongue	3303'	
	3170'	3177'				
	3230'	3238'				
	3249'	3251'				
	3258'	3259'				
	3283'	3287'				
	3290'	3291'				
	3298'	3300'				
	3392'					
	3397'					

38. GEOLOGICAL MARKERS

RECEIVED
 APR 24 1992
 OIL CON. DIV.
 DIST. 3

ATTACHMENT TO FORM 3160-4 FOR NORTHEAST BLANCO UNIT
MIDDLE MESA SALT WATER DISPOSAL #2

Item 32 - Acid, Shot, Fracture, Cement Squeeze, Etc.

DEPTH INTERVAL	AMOUNT AND KIND OF MATERIAL USED
8990'-9099' (Frac)	155 Bbls H ₂ O plus 2 gal./1000 gal. Clay Fix II @ 44 BPM, Stabilized pressure 3342 psig.
8690'-8832' (Frac)	700 Gal. 7.5% Fe HCL ahead of a 10,000 gal. 10# HPG gel pad. Frac with 70,000 Lbs. 20/40 sand. Average treating pressure 2420 psi @ 41 BPM.
8276'-8648' (Frac)	180,000# 20/40 sand and 137,400 gal. of 30 + 40 LGC. Average treating pressure 3640 psi @ 71 BPM.

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BUREAU OF LAND MANAGEMENT

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Resubmitted - Page 2 Corrected

5. Lease Designation & Serial #: NM-03358
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7. Unit Agreement Name: Northeast Blanco Unit
8. Farm or Lease Name: Northeast Blanco Unit
9. Well No.: <i>NEBU</i> Middle Mesa SWD #2
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12. County or Parish: San Juan
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1a. Type of Well: oil well gas well dry other SWD

b. Type of Completion: new well work over deepen
plug back diff. resvr. other

2. Name of Operator: Blackwood & Nichols Co. A Limited Partnership

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20. Total Depth, MD & TVD: 9240'	21. Plug Back TD, MD & TVD: 9240'	22. If Mult. Comp.: How Many* N/A	23. Intervals Drilled By:	Rotary Tools TD Cable Tools No
24. Producing Interval(s), of this completion - Top, Bottom, Name (MD and TVD)*: Fruitland Basin Coals, open hole completion. No producing zones; Salt Water Disposal				25. Was Directional Survey Made? Yes
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31. Perforation Record (Interval, size and number):

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Bluff 8690'-8832'	
Morrison 8276'-8648'	

Depth Interval (MD)	Amount and Kind of Material Used
See attachment	See attachment

33. **PRODUCTION**

Date First Production: Never	Production Method (Flowing, gas lift, pumping-size and type of pump): Injection Well	Well Status (shut-in): Injection					
Date of Test: N/A	Hours Tested: N/A	Choke Size: N/A	Prod'n For Test Period:	Oil-Bbl N/A	Gas-MCF N/A	Water-Bbl N/A	Gas-Oil Ratio N/A
Flow. Tubing Press: N/A	Casing Pressure: N/A	Calculated 24 HR Rate:	Oil-Bbl N/A	Gas-MCF N/A	Water-Bbl N/A	Oil Gravity-API N/A	

34. Disposition of Gas (Sold, used for fuel, vented, etc): N/A

35. List of Attachments:

36. I hereby certify that the foregoing and attached information in complete and correct as determined from all available records

Signed: Mark S. Manson Mark S. Manson Title: Operations Engineer Date: _____

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MOON

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38. GEOLOGICAL MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Middle Mesa SMD #2						
San Jose	Surface					
Ojo Alamo	2120'					
Kirtland	2445'					
Fruitland	2998'					
P.C. Tongue	3295'					
Pictured Cliffs	3400'					
Lewis	3537'					
Cliff House	5298'					
Menefee	5449'					
Point Lookout	5701'					
Mancos	5998'					
Dakota	7906'					
Burro Canyon	8085'					
Morrison	8172'					
Bluff	8696'					
Summerville	8850'					
Todilto Ls	8934'					
Entrada	8985'					
Chinle	9198'					

FORM APPROVED
 Budget Bureau No. 1004-0137
 Expires August 31, 1985

ATTACHMENT TO FORM 3160-4 FOR NORTHEAST BLANCO UNIT
MIDDLE MESA SALT WATER DISPOSAL #2

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