

M. MEINERT

1"=200'

WCMM-1048

418-17.0-92.0  
86.0-332.0-4.5-V

WCMM-1047

419-15.0-105.0  
99.0-320.0-5.0-V

WCMM-1049

426.6-17.0-100.0  
80.0-346.6-33-Vr  
93.0-333.6-4.67-V

WCMM-1045

431.9-23.0-107.0  
101.0-330.9-4.5-V

WCMM-1046

419.4-13.0-112.0  
105.0-314.4-4.5-V

1"=200'

**Warrick County, Indiana drill info**

Thursday, July 16, 2009 4:52 PM

**From:** "Bill Gunn" <bgunn@umillc.com>

**To:** russmeinert@yahoo.com

MeinertDrillMap.pdf (420KB), MMeinert#WCMM-1049.xls (27KB),  
MMeinert#WCMM-1045.xls (27KB), MMeinert#WCMM-1046.xls (27KB),  
MMeinert#WCMM-1047C.xls (27KB), MMeinert#WCMM-1048.xls (27KB)

Russ – I am attaching for your reference the drilling information on the property in Indiana. I will do an estimate of tonnage in the morning and forward to you. For your information, we calculate tonnage by estimating at a rate of 1742 tons/ acre/ foot in place. We then take that total and assign a pit recovery of 95%. A wash recovery factor of 75-80% is then applied to arrive at a final recoverable tonnage. In this case, we didn't complete any washability analysis so I will assume 80% wash recovery when calculating. In a trench mining situation, we generally figure 50% pit recovery and then apply the wash recovery % to that. Obviously, the biggest variable here is if we are fortunate enough to sell the coal on a raw basis(no washing) which usually isn't a high percentage of the total. For this exercise, I will assume that all coal will have to be washed. I'll be back in touch in the AM. Thanks for your patience. Bill

*William D. Gunn*

Mining & Reclamation Specialist  
United Minerals Company, LLC  
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$$\begin{array}{r} 73 \\ \times 4.5 \text{ AVE FT/ACRE} \\ \hline 418.5 \text{ TOTAL FEET OF COAL} \\ \times 1742 \text{ - TONS/ACRE FT.} \\ \hline 729,027 \\ \times .76 \text{ RECOV. \& WASH} \\ \hline 554,060 \text{ TONS OF REC. COAL} \end{array}$$

93 ACRES  
 1742 TONS/ACRE /FOOT in place  
 Pit Recovery 95%  
 TRENCH 50%  
 WASH Recovery X 75-80%  
 TOTAL Pit & WASH TOGETHER 76%

UNITED MINERALS COMPANY, LLC

DATE 4/17/09

LOG OF DRILLING

HOLE NUMBER WCMM-1045					
LANDOWNER M. Meihert					
STATE IN					
COUNTY Warrick					
SEC. 7 TWP. 4S. RNG. 8W					
SURFACE ELEV 431.9000000					
FROM	TO	THICK(ft.)	Firm Code	OVERBURDEN DESCRIPTION/ COMMENTS/NOTES	CORE RECOV.
0.00	2.00	2.00		SOIL & CLAY	
2.00	23.00	21.00		YELLOW CLAY	
23.00	23.10	0.10		TRACE COAL CROP	
23.10	29.00	5.90		LIMESTONE	
29.00	31.00	2.00		GRAY SHALE	
31.00	31.10	0.10		TRACE OF COAL	
31.10	35.00	3.90		LIGHT GRAY SHALE	
35.00	59.00	24.00		LIGHT GRAY SANDY SHALE	
59.00	98.00	39.00		GRAY SHALE	
98.00	100.00	2.00		BLACK SHALE	
100.00	101.00	1.00		LIMESTONE & BLACK SHALE	
<b>101.00</b>	<b>105.50</b>	<b>4.50</b>		<b>COAL V</b>	
105.50	106.00	0.50		UNDERCLAY	
106.00	107.00	1.00		GRAY SHALE	
	<b>107.00</b>			<b>T.D.</b>	

DRILLER - Don Harris  
HELPER - Donnie Schaeffer

UNITED MINERALS COMPANY, LLC

DATE 4/20/09

LOG OF DRILLING

HOLE NUMBER WCOMM-1046					
LANDOWNER M. Meinert					
STATE IN					
COUNTY Warrick					
SEC. 7 TWP 4S RNG. 8W					
SURFACE ELEV 419.4000000					
<b>FROM</b>	<b>TO</b>	<b>THICK(ft.)</b>	<b>Firm Code</b>	<b>OVERBURDEN DESCRIPTION/ COMMENTS/NOTES</b>	<b>CORE RECOV.</b>
0.00	2.00	2.00		SOIL & CLAY	
2.00	10.00	8.00		YELLOW CLAY	
10.00	15.00	5.00		BROWN SHALEY CLAY	
15.00	19.00	4.00		BROWN & GRAY SHALE	
19.00	25.00	6.00		LIMESTONE	
25.00	50.00	25.00		LIGHT GRAY SHALE	
50.00	100.00	50.00		GRAY SHALE	
100.00	102.00	2.00		BLACK SHALE	
102.00	103.00	1.00		LIMEY BLACK SHALE	
103.00	105.00	2.00		BLACK SHALE	
<b>105.00</b>	<b>109.50</b>	<b>4.50</b>		<b>COAL V</b>	
109.50	110.00	0.50		UNDERCLAY	
110.00	112.00	2.00		GRAY SHALE	
	<b>112.00</b>			<b>T.D.</b>	

DRILLER - Don Harris  
HELPER - Donnie Schaeffer

UNITED MINERALS COMPANY, LLC

DATE 4/23/09

LOG OF DRILLING

HOLE NUMBER <u>WCMM-1047C</u>					
LANDOWNER <u>M. Meinert</u>					
STATE <u>IN</u>					
COUNTY <u>Warrick</u>					
SEC. <u>7</u> TWP. <u>4S</u> RNG. <u>8W</u>					
SURFACE ELEV. <u>419.0000000</u>					
FROM	TO	THICK(ft.)	Firm Code	OVERBURDEN DESCRIPTION/ COMMENTS/NOTES	CORE RECOV.
0.00	2.00	2.00		SOIL & CLAY	
2.00	8.00	6.00		YELLOW CLAY	
8.00	13.00	5.00		SANDY SHALEY CLAY	
13.00	15.00	2.00		DRIFT & COAL CHIPS	
15.00	19.00	4.00		GRAY SHALE	
19.00	23.00	4.00		LIMESTONE	
23.00	45.00	22.00		LIGHT GRAY SANDY SHALE	
45.00	82.00	37.00		GRAY SHALE	
82.00	91.00	9.00		DARK GRAY SHALE	
91.00	91.50	0.50		HARD LIME ROCK	
91.50	93.00	1.50		BLACK SHALE	
93.00	95.00	2.00		GRAY SHALE	
95.00	97.00	2.00		LIMEY ROCK	
97.00	99.00	2.00		BLACK SHALE	
<b>99.00</b>	<b>104.00</b>	<b>5.00</b>		<b>COAL V(CORED)</b>	<b>5.00</b>
104.00	105.00	1.00		UNDERCLAY & SHALE	
	<b>105.00</b>			<b>T.D.</b>	

DRILLER - Don Harris  
HELPER - Donnie Schaeffer

UNITED MINERALS COMPANY, LLC

DATE 4/23/09

LOG OF DRILLING

HOLE NUMBER WCOMM-1048					
LANDOWNER M. Meihert					
STATE IN					
COUNTY Warrick					
SEC. 7 TWP 4S RING. 8W					
SURFACE ELEV 418.000000					
FROM	TO	THICK(ft.)	Firm Code	OVERBURDEN DESCRIPTION/ COMMENTS/NOTES	CORE RECOV.
0.00	2.00	2.00		SOIL & CLAY	
2.00	14.00	12.00		YELLOW CLAY	
14.00	17.00	3.00		DRIFT, COAL CHIPS & WOOD	
17.00	22.00	5.00		HARD LIGHT GRAY SHALE	
22.00	24.00	2.00		LIMESTONE	
24.00	30.00	6.00		LIGHT GRAY SANDSTONE & SHALE	
30.00	50.00	20.00		GRAY SHALE	
50.00	57.00	7.00		HARD LIGHT GRAY SANDSTONE & SHALE	
57.00	72.00	15.00		GRAY SHALE	
72.00	85.00	13.00		DARK GRAY SHALE	
85.00	86.00	1.00		BLACK SHALEY LIME	
86.00	90.50	4.50		COAL V	
90.50	92.00	1.50		UNDERCLAY & SHALE	
	105.00			T.D.	

DRILLER - Don Harris  
HELPER - Donnie Schaeffer

UNITED MINERALS COMPANY, LLC

DATE 4/23/09

LOG OF DRILLING

HOLE NUMBER_WCMM-1049					
LANDOWNER_M. Meihert					
STATE_IN					
COUNTY_Warrick					
SEC. 7_TWP_4S_RNG. 8W					
SURFACE ELEV_426.6000000					
FROM	TO	THICK(ft.)	Firm Code	OVERBURDEN DESCRIPTION/ COMMENTS/NOTES	CORE RECOV.
0.00	2.00	2.00		SOIL & CLAY	
2.00	10.00	8.00		YELLOW CLAY	
10.00	17.00	7.00		BROWN CLAY W/ SANDSTONE STREAKS	
17.00	24.00	7.00		LIMESTONE	
24.00	29.00	5.00		LIGHT GRAY SANDY SHALE	
29.00	32.00	3.00		LIMESTONE	
32.00	45.00	13.00		HARD LIGHT GRAY SANDSTONE & SHALE	
45.00	62.00	17.00		GRAY SHALE	
62.00	80.00	18.00		DARK GRAY SHALE	
80.00	80.33	0.33		COAL	
80.33	90.00	9.67		GRAY SHALE	
90.00	91.00	1.00		HARD LIMEY ROCK	
91.00	93.00	2.00		BLACK SHALE	
93.00	97.50	4.50		COAL V	
97.50	100.00	2.50		UNDERCLAY & SHALE	
	100.00			T.D.	

DRILLER - Don Harris

HELPER - Donnie Schaeffer