

LUMAN'S LABORATORIES

P.O. Box 326 • Chetopa, KS 67336
(620) 236-7874



September 9, 2005

Layne Energy, Inc.
1900 Shawnee Mission Parkway
Mission Woods, KS 66205

Attn: Brent Nattrass

Please find listed below analysis on the following sample.

Lab ID. 90605 Sample ID. Layne-Christensen #16-1 Pierce; NE SE SW
16-T.31S.-R.17E., Montgomery County, KS: Lexington "B" Coal 471.0'-471.8'.

	As Received	Moisture Free	MAF
Moisture	1.42%		
Ash	18.82%	19.10%	
Volatile Matter	33.09%	33.57%	
Fixed Carbon	46.67%	47.33%	
BTU/lb	12,024	12,198	15,078
Sulfur	3.28%	3.33%	

Respectfully,



Carol Luman

CGL:pdj
c: K. David Newell

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Attn: Brent Natrass

Please find listed below analysis on the following sample.
Note: This sample required the use of an accelerant.

Lab ID. 90606 Sample ID. Layne-Christensen #16-1 Pierce; NE SE SW
16-T.31S.-R.17E., Montgomery County, KS: Excello Shale 569.0'-570.0'.

	As Received	Moisture Free	MAF
Moisture	0.97%		
Ash	72.10%	72.81%	
Volatile Matter	13.73%	13.86%	
Fixed Carbon	13.20%	13.33%	
BTU/lb	5.286	5.338	19,632
Sulfur	2.44%	2.46%	

Respectfully,

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ANALYTICAL
AND
PHYSICAL
TESTING

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Please find listed below analysis on the following sample.
Note: This sample required the use of an accelerant.

Lab ID. 90608 Sample ID. Layne-Christensen #16-1 Pierce: NE SE SW
16-T.31S.-R.17E., Montgomery County, KS: Aw(?) Coal 875.5'-875.4'.

	As Received	Moisture Free	MAF
Moisture	2.69%		
Ash	25.21%	25.90%	
Volatile Matter	29.10%	29.90%	
Fixed Carbon	43.00%	44.20%	
BTU/lb	10,577	10,868	14,668
Sulfur	4.63%	4.76%	

Respectfully,

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CGL:pdI
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Please find listed below analysis on the following sample.

Lab ID. 90609 Sample ID. Layne-Christensen #16-1 Pierce; NE SE SW
16-T.31S.-R.17E., Montgomery County, KS; Neutral (?) Coal 910.7'-911.4'.

	As Received	Moisture Free	MAF
Moisture	2.61%		
Ash	30.31%	31.13%	
Volatile Matter	26.44%	27.15%	
Fixed Carbon	40.64%	41.72%	
BTU/lb	9,739	10,001	14,520
Sulfur	4.82%	4.95%	

Respectfully,

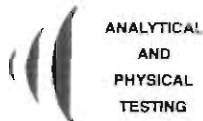
Carrol Luman

CGL:pd1
c: K. David Newell

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Please find listed below analysis on the following sample.

Lab ID: 90610 Sample ID: Layne-Christensen #16-1 Pierce; NE SE SW
16-T.31S.-R.17E., Montgomery County, KS; Riverton Coal 982.0'-983.0'

	As Received	Moisture Free	MAF
Moisture	1.41%		
Ash	8.86%	8.99%	
Volatile Matter	35.13%	35.64%	
Fixed Carbon	54.60%	55.37%	
BTU/lb	13,792	13,990	15,372
Sulfur	3.93%	3.98%	

Respectfully,

Carrol Luman

CGL:pdI
c: K. David Newell

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Please find listed below analysis on the following sample.

Lab ID. 90611 Sample ID. Layne-Christensen #16-1 Pierce; NE SE SW
16-T.31S.-R.17E., Montgomery County, KS: Riverton Coal 983.0'-984.0'

	As Received	Moisture Free	MAF
Moisture	1.84%		
Ash	41.64%	42.42%	
Volatile Matter	22.56%	22.99%	
Fixed Carbon	33.96%	34.59%	
BTU/lb	8,235	8,390	14,571
Sulfur	4.48%	4.56%	

Respectfully,

Carol Luman

CGL:pdl
c: K. David Newell

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