

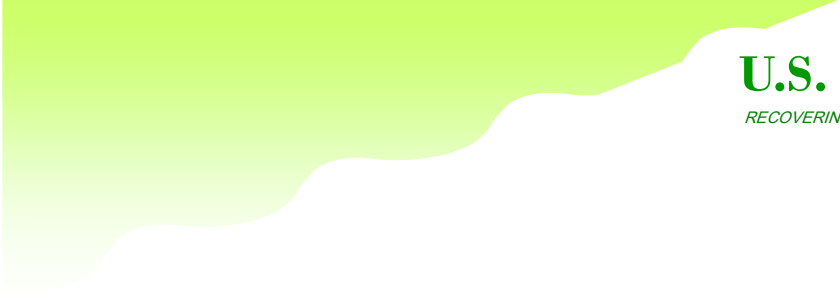
U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

▶ SUPPLY SPECIFICATIONS OF VARIOUS GRADES FUEL OIL, STEAM COAL WASHED AND UNWASHED, BASE OILS AND TRANSFORMER OILS

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net



U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

US-100-ER SPECIFICATIONS

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

型号:US100- ER FUEL SPECIFICATION 燃料油规格表

Mfr.: US Energy Resources , LLC. 生产商 : 美国能源资源股份有限公司

网址Website : www.USEnergyResources.net 电邮 Email : Info@USEnergyResources.net Asia Incl. Australia & New Zealand Exclusive Sales AGENT

亚洲包括澳大利亚和新西兰独家销售总代理 ER-USA Energy & Resources Group (VC) Limited

中美多宝能源及资源集团(风投) 股份有限公司

网址Website : www.erusagroup.com 电邮 Email : usa@erusagroup.com

直线 Direct : +86-139 2288 6718 +86-153 3816 0829 +852-6918 3158 +853-6699 0829

Method方法	Test 测试	Min	Max	Result结果	Units单位
ASTM D4052 美国石化标准	API Gravity @ 60°F(15.56 °C) 重力在华氏度 60°F(15.56 °C)	N/A	29	28.1	API
Reject 拒收	(Greater than 29.00)				
ASTM D4052 美国石化标准	Relative Density, 15.56°C/15.56°C 密度在华氏度 60°F(15.56 °C)	0.75	0.90	0.8865	
Reject 拒收	(Greater than 0.90)				
ASTM D4294 美国石化标准	Sulfur Content 硫磺含量按重量百分率	0.1	0.7	0.542	Wt %
Reject 拒收	(Greater than 0.7)				
ASTM D4809 美国石化标准	Gross Heating 总热值	130,000	N/A	139,471	BTU/Gal.
Reject 拒收	(Less than 9200 Kcal/Liter)				
ASTM D95 美国石化标准	Water Content 水含量按体积百分率	0.13	0.8	0.6	Vol %
Reject 拒收	(Greater Than 0.7)				
ASTM D93 - IP 34 美国石化标准	Pensky-Martens Closed Cup Flash Pt. Procedure Used B Corrected Flash Pt. 闪点	140/60	N/A	319/160	°F/°C
Reject 拒收	(Less than 140/60)				

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

型号:US100- ER FUEL SPECIFICATION 燃料油规格表

<u>Method方法</u>	<u>Test 测试</u>	<u>Min</u>	<u>Max</u>	<u>Result结果</u>	<u>Units单位</u>
ASTM D97 美国石化标准	Pour Point of Petroleum Products 倾倒点Pour Point	-32/-36	-10/-24	-11.2/-24	°F/°C
Reject 拒收	(Greater than -10/-24)				
ASTM D482 美国石化标准	Ash from Petroleum Products 灰份按重量百分率	0.01	0.7	0.228	Wt %
Reject 拒收	(Greater than 0.70)				
ASTM D445 美国石化标准	Viscosity at 50 °C 50 °C 粘度	18	30	20.50	mm²/s
Reject 拒收	(Greater than 30)				
ASTM D1500	Color Index 色系	3.5	8.0	8.0	
Reject 拒收	(Greater than 8.0)				
IP 501 国际石化标准	Determination of Al, Si, V, Ni, Fe, Na, Ca, Zn, P in Fuel Oil -ICPES 测试金属残留量				
Reject 拒收	铝Aluminum (Greater than 200PPM)	50	200	66	mg/kg
Reject 拒收	钠Sodium (Greater than 200PPM)	50	200	49	mg/kg
Reject 拒收	钒Vanadium (Greater than 5)	1	5	3	mg/kg
ASTM D6020A 美国石化标准	Arsenic 砷残留量按重量百万分计量	1	3	<1.0	PPM
Reject 拒收	(Greater than 3.00)				

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

型号:US100- ER FUEL SPECIFICATION 燃料油规格表

Method方法	Test 测试	Min	Max	Result 结果	Units单位
ASTM D6020A 美国石化标准	Cadmium 镉残留量按重量百万分计量	1	3	<1	PPM
Reject 拒收	(Greater than 3.00)				
ASTM D6020A 美国石化标准	Chromium 铬残留量按重量百万分计量	3	30	4.2	PPM
Reject 拒收	(Greater than 30)				
ASTM D6020A 美国石化标准	Lead 铅残留量按重量百万分计量	2	8	6.6	PPM
Reject 拒收	(Greater than 8.0)				
ASTM D6020A 美国石化标准	Total PCB 按重量百万分计量	1	3	1.0	PPM
Reject 拒收	(Greater than 3.0)				
ASTMD9045 美国石化标准	Corrosivity 腐蚀度	5	12.5	5	PH
Reject 拒收	(Less than 5.0)				
ASTM D4755 美国石化标准	Total Halogens 全部卤素	100	4500	3616	
Reject 拒收	(Greater than 4500)				
ASTM D86 美国石化标准	Distillation Recovery IBP 干溜始回收温度	N/A	N/A	370 °C	vol.%
Reject 拒收	(NAR)				
ASTM D86 美国石化标准	Distillation Recovery 5% 干溜回收温度	N/A	N/A	506 °C	vol.%
Reject 拒收	(NAR)				
ASTM D86 美国石化标准	Distillation Recovery 10% 干溜回收温度	N/A	N/A	624 °C	vol.%
Reject 拒收	(NAR)				
ASTM D86 美国石化标准	Distillation Recovery 20% 干溜回收温度	N/A	N/A	668 °C	vol.%
Reject 拒收	(NAR)				
ASTM D86 美国石化标准	Distillation Recovery 30% 干溜回收温度	N/A	N/A	688 °C	vol.%
Reject 拒收	(NAR)				

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

型号:US100- ER FUEL SPECIFICATION 燃料油规格表

Method方法	Test 测试	Min	Max	Result结果	Units单位
ASTM D86 美国石化标准 Reject 拒收	Distillation Recovery 40% 干溜回收温度 (NAR)	N/A	N/A	698 °C	vol.%
ASTM D86 美国石化标准 Reject 拒收	Distillation Recovery 50% 干溜回收温度 (NAR)	N/A	N/A	706 °C	vol.%
ASTM D86 美国石化标准 Reject 拒收	Distillation Recovery 60% 干溜回收温度 (NAR)	N/A	N/A	714 °C	vol.%
ASTM D86 美国石化标准 Reject 拒收	Distillation Recovery 70% 干溜回收温度 (NAR)	N/A	N/A	720 °C	vol.%
ASTM D86 美国石化标准 Reject 拒收	Distillation Recovery 90% 干溜回收温度 (NAR)	N/A	N/A	730 °C	vol.%
ASTM D86 美国石化标准 Reject 拒收	Distillation Recovery 95% 干溜回收温度 (NAR)	N/A	N/A	742 °C	vol.%
ASTM D86 美国石化标准 Reject 拒收	Distillation End Point 干溜回收终结温度 (NAR)	N/A	N/A	758 °C	vol.%
Total Recovery	干溜回收率 (NAR)	N/A	N/A	96%	vol.%
Residue	干溜残留物 (NAR)	N/A	N/A	2%	vol.%
Lost	干溜损耗 (NAR)	N/A	N/A	2%	vol.%
Reject 拒收	(NAR)				

Note*备注

All values are taken on samples of one batch and the specification may vary from batch to batch. Buyers are requested to kindly demand the specifications of the specific batch they will purchase.全部数据是从一次生产量的样品化验所得;建议买方可询问准备采购当次生产量的规格。
The under-captioned data are NOT for standard inspection , but are information for refiner-ies only .

下列的数据并非检验标准,只限提供给石化精炼厂供参考。

Reject 拒收 == NAR (Not Allow to Reject) 不可拒收

N/A == Not Available 不存在

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net



U.S. Energy Resources, LLC

© 2011 Europa Technologies

© 2011 Google

42°20'02.32" N 83°09'33.43" W elev 595 ft

Google

2010

Eye alt 1797 ft

Imagery Date: 5/2/2010

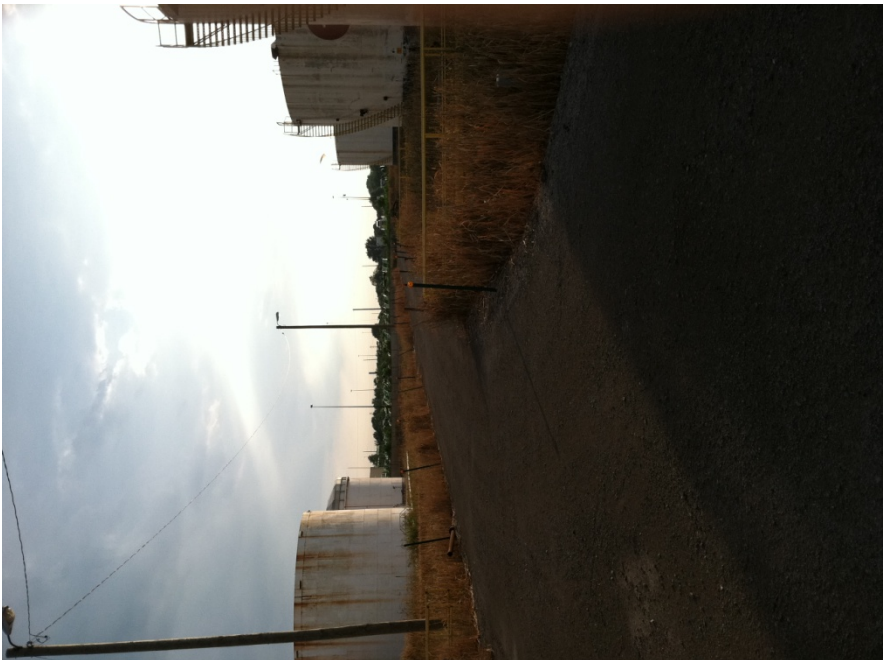
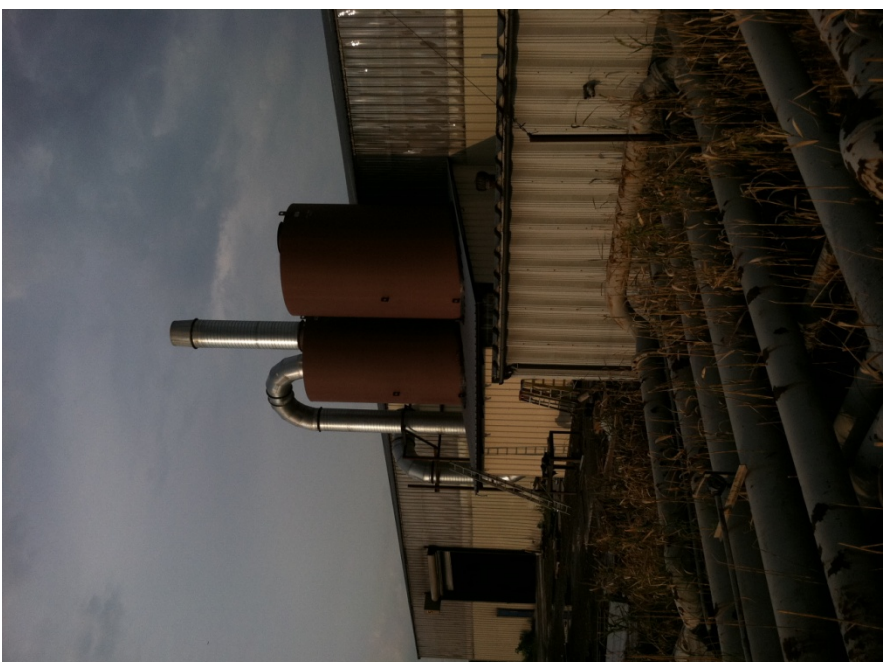




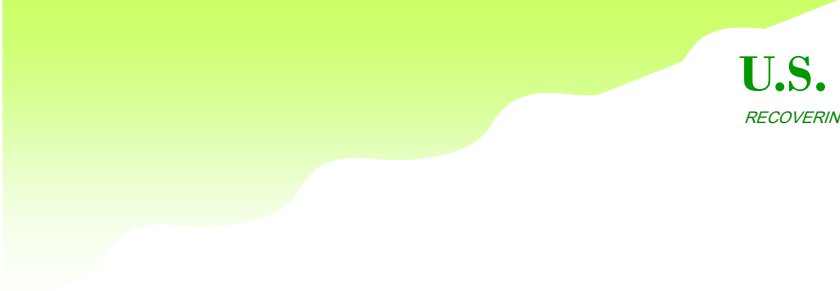












U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

RESIDUAL FUEL OIL #6 SPECIFICATIONS

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

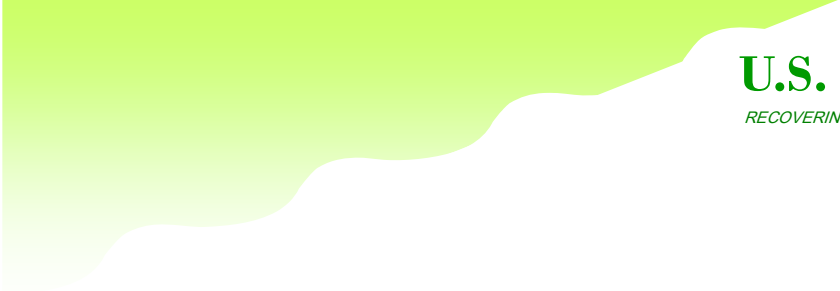
• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

▶ RESIDUAL FUEL OIL # 6 SPECIFICATION SHEET

<u>TEST</u>	<u>RESULTS</u>
API	11.0
Visc CST@50C	326.4
Sulfur	2.4
Flash	230+
Pour Point	15.8F
Sed by Extraction	0.8
Ash	0.37
MCR	15.2
Vanadium	151
Na	10
Sil	14
Al	19

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www.usenergyresources.net



U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

STEAM COAL SPECIFICATIONS WASHED AND UNWASHED

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

SPECIFICATION OF WASHED AND COATED US STEAM COAL

美国已水洗和已封闭动力煤规格表

EXPORTER : 美国出口商US ENERGY & RESOURCES , LLC.美国能源及资源有限公司

WEBSITE:<http://www.USEnergyResources.net> EMAIL :Sales@USEnergyResources.net

ASIAN PACIFIC EXCLUSIVE AGENT : ER-USA ENERGY & RESOURCES GROUP (VC) LTD.

亚太地区独家总代理 : 中美多宝能源及资源集团(风投)股份有限公司

WEBSITE : <http://www.erusagroup.com> EMAIL : usa @erusagroup.com

DIRECT 直线 : +86-139 2288 6718 +852-6918 3158 +853- 6699 0829

ORIGIN 产地 : U.S.A.美国 LOADING PORT 启运港 : ANY PORT/VIRGINIA 维真尼亚

PRE-WASHED & PRE-COATED 已预洗和预封闭处理

PREVENT LOSE OF VOLATILE & ABSORB WATER VAPOUR 有效防御挥发和吸湿

LOADING QTY.: 50,000- 100,000MT PER BULK CARGO VESSEL 发运每船五至十万吨

QUALITY GUARANTEE IN LOADING PORT ONLY 只在启运港确实保证装船品质

PRODUCT CODE商品代码: USSC-201-ER

DATE日期 : JUNE 18,2011

ITEM品名	CONDITION条件	STANDARD标准	REJECT拒收	ASTM METHOD方法
--------	-------------	------------	----------	---------------

TOTAL MOISTURE (ARB) WT. %	<18%			
----------------------------	------	--	--	--

> 20%

D-3173

全水 (收到基) 重量 百分率

INHERENT MOISTURE (ADB) WT. %	<5%			
---------------------------------	-----	--	--	--

N.R.

D-3173

内水 (空干基) 重量 百分率

ITEM品名	CONDITION条件	STANDARD标准	REJECT拒收	ASTM METHOD方法
--------	-------------	------------	----------	---------------

VOLATILE MATTER (ARB) VOL.%	<12%		N.R.	D-3175
-------------------------------	------	--	------	--------

挥发物（收到基）体积百分率

NET CALORIC VALUE.(ARB) Kcal/Kg.	5300-5500	< 5300		D-5865
------------------------------------	-----------	--------	--	--------

低位热值 (收到基) 千卡/千克

GROSS.CALORIC.VALUE.(ADB)Kcal/Kg.	5600-5800	<5600		D-5865
-----------------------------------	-----------	-------	--	--------

高位热值（空干基）千卡/千克

SULFUR CONTENT (ARB) WT.%	<0.8%	> 1%		D-4239
----------------------------	-------	------	--	--------

含硫量 (收到基)

FIXED CARBON (ARB) WT.%	BY DIFFERENT	N.R.		D-3172
--------------------------	--------------	------	--	--------

含碳量 (收到基) 重量百分率

ASH CONTENT (ARB) WT.%	<12%	> 15%		D-3174
-------------------------	------	-------	--	--------

灰份（收到基）重量百分率

FLOW FUSION TEMPERATURE °C	>1420	<1430		D-1857
----------------------------	-------	-------	--	--------

流动熔融摄氏度温度

HGI 哈氏耐磨指数	> 39	N.R.		D-409
------------	------	------	--	-------

SIZE (0-50mm) %	>90	<90		D-4749
-------------------	-----	-----	--	--------

REMARK 备注: N.R.==ITEM NOT COUNT FOR REJECTION不计入拒收

SPECIFICATION OF WASHED AND COATED US STEAM COAL

美国已水洗和已封闭动力煤规格表

EXPORTER : 美国出口商US ENERGY & RESOURCES , LLC.美国[能源及资源有限公司](#)

WEBSITE:<http://www.USEnergyResources.net> EMAIL :Sales@USEnergyResources.net

ASIAN PACIFIC EXCLUSIVE AGENT : ER-USA ENERGY & RESOURCES GROUP (VC) LTD.

亚太地区独家总代理 : 中美多宝能源及资源集团(风投)股份有限公司

WEBSITE : <http://www.erusagroup.com> EMAIL : usa @erusagroup.com

DIRECT 直线 : +86-139 2288 6718 +852-6918 3158 +853- 6699 0829

ORIGIN 产地 : U.S.A.美国 LOADING PORT [启运港](#) : ANY PORT/VIRGINIA 维真尼亚

PRE-WASHED & PRE-COATED 已预洗和预封闭处理

PREVENT LOSE OF VOLATILE & ABSORB WATER VAPOUR 有效防御挥发和吸湿

LOADING QTY.: 50,000- 100,000MT PER BULK CARGO VESSEL 发运每船五至十万吨

QUALITY GUARANTEE IN LOADING PORT ONLY只在启运港确实保证装船品质

PRODUCT CODE商品代码: USSC-202-ER

DATE日期 : JUNE 18,2011

ITEM品名	CONDITION条件	STANDARD标准	REJECT拒收	ASTM METHOD方法
TOTAL MOISTURE (ARB)	WT.%<12%		> 14 %	D-3173
全水	(收到基)	重量 百分率		
INHERENT MOISTURE (ADB)	WT.% <4%		N.R.	D-3173
内水	(空干基)	重量 百分率		

ITEM品名	CONDITION条件	STANDARD标准	REJECT拒收	ASTM METHOD方法
VOLATILE MATTER (ARB)	VOL.%	<14%	N.R.	D-3175
挥发物（收到基） 体积百分率				
NET.CALORIC.VALUE.(ARB)	Kcal/Kg.	6100-6200	< 6000	D-5865
<u>低位热值</u> (收到基) 千卡/千克				
GROSS.CALORIC.VALUE.(ADB)	Kcal/Kg.	6400-6500	<6400	D-5865
高位热值（空干基） 千卡/千克				
SULFUR CONTENT (ARB)	WT.%	<0.8%	> 1%	D-4239
含硫量 (收到基)				
FIXED CARBON (ARB)	WT.%	BY DIFFERENT	N.R.	D-3172
含碳量 (收到基) 重量百分率				
ASH CONTENT (ARB)	WT.%	<12%	> 14%	D-3174
灰份（收到基） 重量百分率				
FLOW FUSION TEMPERATURE	℃	>1450	<1400	D-1857
流动熔融摄氏度温度				
HGI 哈氏耐磨指数	>	39	N.R.	D-409
SIZE (0-50mm)	%	>90	<90	D-4749
REMARK 备注: N.R.==ITEM NOT COUNT FOR REJECTION不计入拒收				

SPECIFICATION OF WASHED AND COATED US STEAM COAL

美国已水洗和已封闭动力煤规格表

EXPORTER : 美国出口商US ENERGY & RESOURCES , LLC.美国[能源及资源有限公司](#)

WEBSITE:<http://www.USEnergyResources.net> EMAIL :Sales@USEnergyResources.net

ASIAN PACIFIC EXCLUSIVE AGENT :ER-USA ENERGY & RESOURCES GROUP (VC) LTD.

亚太地区独家总代理 : 中美多宝能源及资源集团(风投)股份有限公司

WEBSITE : <http://www.erusagroup.com> EMAIL : usa @erusagroup.com

DIRECT 直线 : +86-139 2288 6718 +852-6918 3158 +853- 6699 0829

ORIGIN 产地 : U.S.A.美国 LOADING PORT [启运港](#) :ANY PORT/VIRGINIA 维真尼亚

PRE-WASHED & PRE-COATED 已预洗和预封闭处理

PREVENT LOSE OF VOLATILE & ABSORB WATER VAPOUR 有效防御挥发和吸湿

LOADING QTY.: 50,000- 100,000MT PER BULK CARGO VESSEL 发运每船五至十万吨

QUALITY GUARANTEE IN LOADING PORT ONLY只在启运港确实保证装船品质

PRODUCT CODE商品代码: USSC-203-ER

DATE日期 : JUNE 18,2011

ITEM品名	CONDITION条件	STANDARD标准	REJECT拒收	ASTM METHOD方法
TOTAL MOISTURE (ARB)	WT.%<8%		> 10%	D-3173
全水	(收到基)	重量 百分率		
INHERENT MOISTURE (ADB)	WT.% <4%		N.R.	D-3173
内水	(空干基)	重量 百分率		

ITEM品名	CONDITION条件	STANDARD标准	REJECT拒收	ASTM METHOD方法
VOLATILE MATTER (ARB)	VOL.%	<15%	N.R.	D-3175
挥发物（收到基） 体积百分率				
NET.CALORIC.VALUE.(ARB)	Kcal/Kg.	6300-6500	< 6300	D-5865
<u>低位热值</u> (收到基) 千卡/千克				
GROSS.CALORIC.VALUE.(ADB)	Kcal/Kg.	6600-6800	<6600	D-5865
高位热值（空干基） 千卡/千克				
SULFUR CONTENT (ARB)	WT.%	<0.8%	> 1%	D-4239
含硫量 (收到基)				
FIXED CARBON (ARB)	WT.%	BY DIFFERENT	N.R.	D-3172
含碳量 (收到基) 重量百分率				
ASH CONTENT (ARB)	WT.%	<14%	> 15%	D-3174
灰份（收到基） 重量百分率				
FLOW FUSION TEMPERATURE	℃	>1450	<1400	D-1857
流动熔融摄氏度温度				
HGI 哈氏耐磨指数	>	39	N.R.	D-409
SIZE (0-50mm)	%	>90	<90	D-4749
REMARK 备注: N.R.==ITEM NOT COUNT FOR REJECTION不计入拒收				



June 6, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #1

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386219

PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>		
% Moisture	15.63	XXXXXX		
% Ash	33.59	39.81		
% Volatile	20.38	24.16		
% Fixed Carbon	<u>30.40</u>	<u>36.03</u>		
	100.00	100.00		
Btu/lb	7236	8577	MAF	14250
% Sulfur	0.73	0.86		

FUSION TEMPERATURE OF ASH, (°F)

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation (IT)	2548	XXXX
Softening (ST)	2598	XXXX
Hemispherical (HT)	2652	XXXX
Fluid (FT)	2700+	XXXX

GRINDABILITY INDEX = xxx at xxxxx % Moisture

Respectfully submitted,
SGS NORTH AMERICA INC.


Harrogate Laboratory



June 6, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #1

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386219

SIEVE ANALYSIS

<u>Passing</u>	<u>Retained On</u>	<u>% Weight</u>	<u>CUMULATIVE RESULTS</u>	
			<u>% Retained</u>	<u>% Passing</u>
-----	50mm	0.00	0.00	100.00
50mm	0	100.00	100.00	100.00

Respectfully submitted,
SGS NORTH AMERICA INC.


Harrogate Laboratory



June 6, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #2

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386220

PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>		
% Moisture	15.00	XXXXX		
% Ash	34.86	41.01		
% Volatile	19.88	23.39		
% Fixed Carbon	<u>30.26</u>	<u>35.60</u>		
	100.00	100.00		
Btu/lb	7130	8388	MAF	14219
% Sulfur	0.70	0.82		

FUSION TEMPERATURE OF ASH, (°F)

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation (IT)	2521	XXXX
Softening (ST)	2602	XXXX
Hemispherical (HT)	2681	XXXX
Fluid (FT)	2700+	XXXX

GRINDABILITY INDEX = xxx at xxxxx % Moisture

Respectfully submitted,
SGS NORTH AMERICA INC.


Harrogate Laboratory



June 6, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #2

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386220

SIEVE ANALYSIS

<u>Passing</u>	<u>Retained On</u>	<u>% Weight</u>	<u>CUMULATIVE RESULTS</u>	
			<u>% Retained</u>	<u>% Passing</u>
-----	50mm	0.00	0.00	100.00
50mm	0	100.00	100.00	100.00

Respectfully submitted,
SGS NORTH AMERICA INC.

Harrogate Laboratory



June 6, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #3

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386221

PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>		
% Moisture	12.80	XXXXXX		
% Ash	39.95	45.81		
% Volatile	19.05	21.85		
% Fixed Carbon	<u>28.20</u>	<u>32.34</u>		
	100.00	100.00		
Btu/lb	6917	7932	MAF	14637
% Sulfur	0.65	0.74		

FUSION TEMPERATURE OF ASH, (°F)

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation (IT)	2560	XXXX
Softening (ST)	2608	XXXX
Hemispherical (HT)	2660	XXXX
Fluid (FT)	2700+	XXXX

GRINDABILITY INDEX = XXX at XXXXX % Moisture

Respectfully submitted,
SGS NORTH AMERICA INC.


Harrogate Laboratory



June 6, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #3

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386221

SIEVE ANALYSIS

<u>Passing</u>	<u>Retained On</u>	<u>% Weight</u>	<u>CUMULATIVE RESULTS</u>	
			<u>% Retained</u>	<u>% Passing</u>
-----	50mm	0.50	0.50	100.00
50mm	0	99.50	100.00	99.50

Respectfully submitted,
SGS NORTH AMERICA INC.

Harrogate Laboratory

SGS North America Inc

Minerals Services Division

Box 248 Harrogate Industrial Drive, Harrogate, TN 37752 t (423) 869-5383 f (423) 869-9391 www.us.sgs.com/minerals



June 6, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #4

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386222

PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>		
% Moisture	19.24	XXXXX		
% Ash	32.33	40.03		
% Volatile	20.67	25.60		
% Fixed Carbon	<u>27.76</u>	<u>34.37</u>		
	100.00	100.00		
Btu/lb	6886	8526	MAF	14217
% Sulfur	0.59	0.73		

FUSION TEMPERATURE OF ASH, (°F)

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation (IT)	2588	XXXX
Softening (ST)	2642	XXXX
Hemispherical (HT)	2700+	XXXX
Fluid (FT)	2700+	XXXX

GRINDABILITY INDEX = XXX at XXXXX % Moisture Respectfully submitted,
SGS NORTH AMERICA INC.


Harrogate Laboratory



June 6, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #4

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386222

SIEVE ANALYSIS

<u>Passing</u>	<u>Retained On</u>	<u>% Weight</u>	<u>CUMULATIVE RESULTS</u>	
			<u>% Retained</u>	<u>% Passing</u>
-----	50mm	0.00	0.00	100.00
50mm	0	100.00	100.00	100.00

Respectfully submitted,
SGS NORTH AMERICA INC.

Harrogate Laboratory



June 8, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #2

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386220

PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	15.00	xxxxxx
% Ash	34.86	41.01
% Volatile	19.88	23.39
% Fixed Carbon	<u>30.26</u>	<u>35.60</u>
	100.00	100.00
Btu/lb	7130	8388
% Sulfur	0.70	0.82
MAF Btu		14219

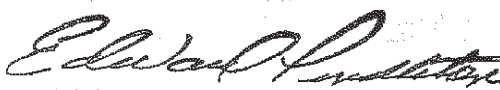
ULTIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	15.00	xxxxxx
% Carbon	39.85	46.88
% Hydrogen	2.89	3.40
% Nitrogen	0.82	0.96
% Sulfur	0.70	0.82
% Ash	34.86	41.01
% Oxygen(diff)	<u>5.88</u>	<u>6.93</u>
	100.00	100.00

FUSION TEMPERATURE OF ASH, (°F)

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation (IT)	2521	XXXX
Softening (ST)	2602	XXXX
Hemispherical (HT)	2681	XXXX
Fluid (FT)	2700+	

Respectfully Submitted,
SGS NORTH AMERICA INC.


Harrogate Laboratory



June 8, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #2

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386220

SIEVE ANALYSIS

<u>Passing</u>	<u>Retained On</u>	<u>% Weight</u>	<u>CUMULATIVE RESULTS</u>	
			<u>% Retained</u>	<u>% Passing</u>
-----	50mm	0.00	0.00	100.00
50mm	0	100.00	100.00	100.00

Respectfully submitted,
SGS NORTH AMERICA INC.

Harrogate Laboratory



June 8, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #2

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis report no. 49-386220

GROSS CALORIFIC VALUE - 7536
NET CALORIFIC VALUE AS DETERMINED - 7148

ASTM METHOD D5865

Respectfully submitted,
SGS NORTH AMERICA INC.

A handwritten signature in cursive script, appearing to read 'Edward R. Smith'.

Harrogate Laboratory



June 9, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #2

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis report no. 49-386220

GROSS CALORIFIC VALUE - 7536
NET CALORIFIC VALUE AS DETERMINED - 7148

ASTM METHOD D5865

INHERENT MOISTURE - 10.16% - ASTM D3173

Respectfully submitted,
SGS NORTH AMERICA INC.

A handwritten signature in black ink, appearing to read 'Edward P. Rasmussen'.

Harrogate Laboratory

SGS North America Inc. Minerals Services Division
248 Harrogate Industrial Drive, Harrogate, TN 37752 t (423) 869-5383 f (423) 869-9391

www.us.sgs.com/minerals



June 8, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #3

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386221

PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	12.80	XXXXXX
% Ash	39.95	45.81
% Volatile	19.05	21.85
% Fixed Carbon	<u>28.20</u>	<u>32.34</u>
	100.00	100.00
Btu/lb	6917	7932
% Sulfur	0.65	0.74
MAF Btu		14637

ULTIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>
% Moisture	12.80	XXXXXX
% Carbon	37.82	43.37
% Hydrogen	2.82	3.23
% Nitrogen	0.73	0.84
% Sulfur	0.65	0.74
% Ash	39.95	45.81
% Oxygen(diff)	<u>5.23</u>	<u>6.01</u>
	100.00	100.00

FUSION TEMPERATURE OF ASH, (°F)

	<u>Reducing</u>	<u>Oxidizing</u>
Initial Deformation (IT)	2560	XXXX
Softening (ST)	2608	XXXX
Hemispherical (HT)	2660	XXXX
Fluid (FT)	2700+	

Respectfully Submitted,
SGS NORTH AMERICA INC.

Edward J. Hunter
Harrogate Laboratory



June 8, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #3

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis Report No. 49-386221

SIEVE ANALYSIS

<u>Passing</u>	<u>Retained On</u>	<u>% Weight</u>	<u>CUMULATIVE RESULTS</u>	
			<u>% Retained</u>	<u>% Passing</u>
-----	50mm	0.50	0.50	100.00
50mm	0	99.50	100.00	99.50

Respectfully submitted,
SGS NORTH AMERICA INC.

Harrogate Laboratory

SGS

June 8, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #3

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis report no. 49-386221

GROSS CALORIFIC VALUE - 7606
NET CALORIFIC VALUE AS DETERMINED - 7278

ASTM METHOD D5865

Respectfully submitted,
SGS NORTH AMERICA INC.



Harrogate Laboratory



June 9, 2011

U S ENERGY RESOURCES LLC
20300 MT. ELLIOT AVENUE
DETROIT MI 48234

Sample identification by
SGS

STOCKPILE SAMPLE
PILE #3

Kind of sample
reported to us COAL

Sample taken by SGS

Date sampled June 1, 2011

Date received June 1, 2011

Analysis report no. 49-386221

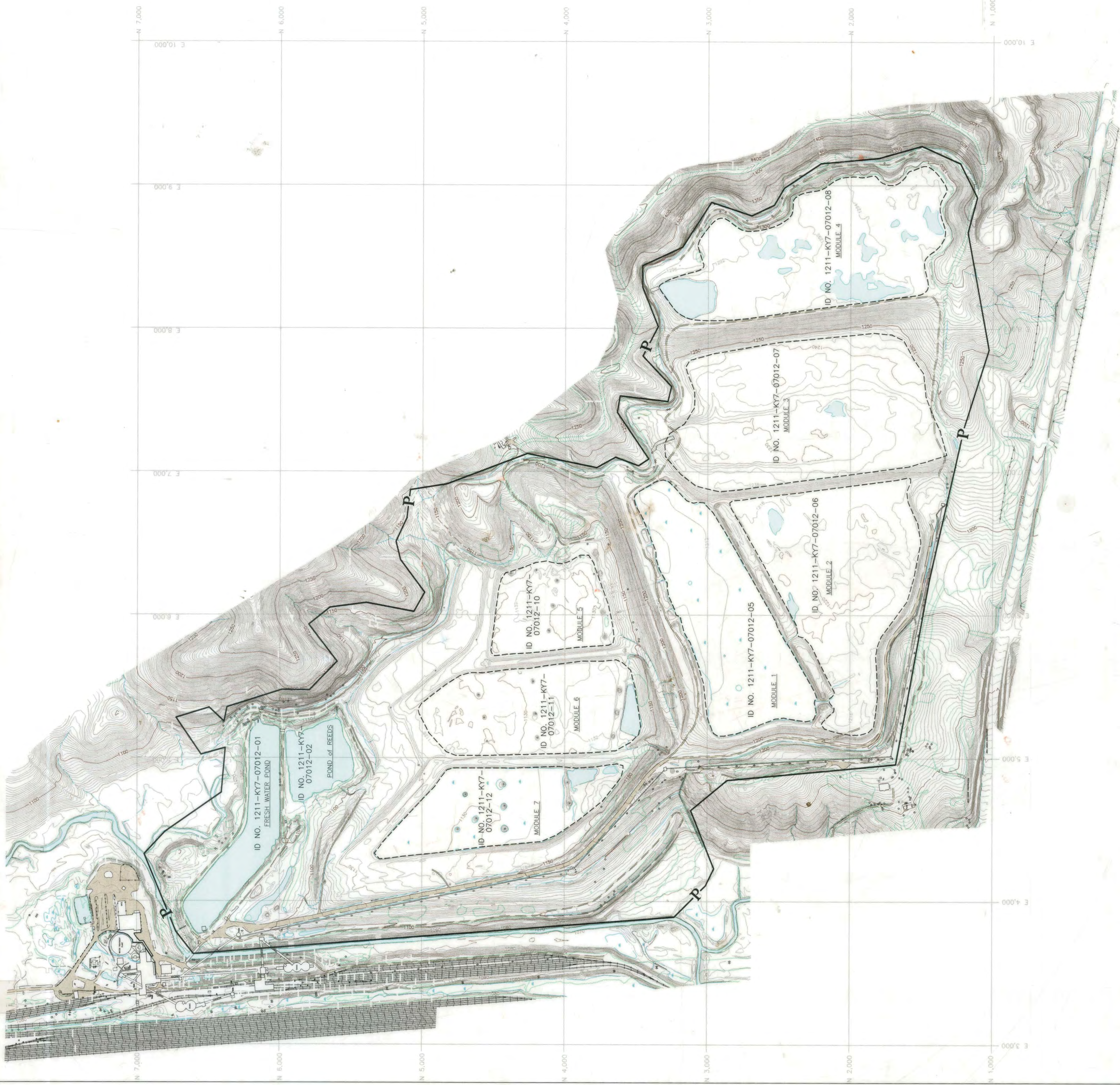
GROSS CALORIFIC VALUE - 7606
NET CALORIFIC VALUE AS DETERMINED - 7278

ASTM METHOD D5865

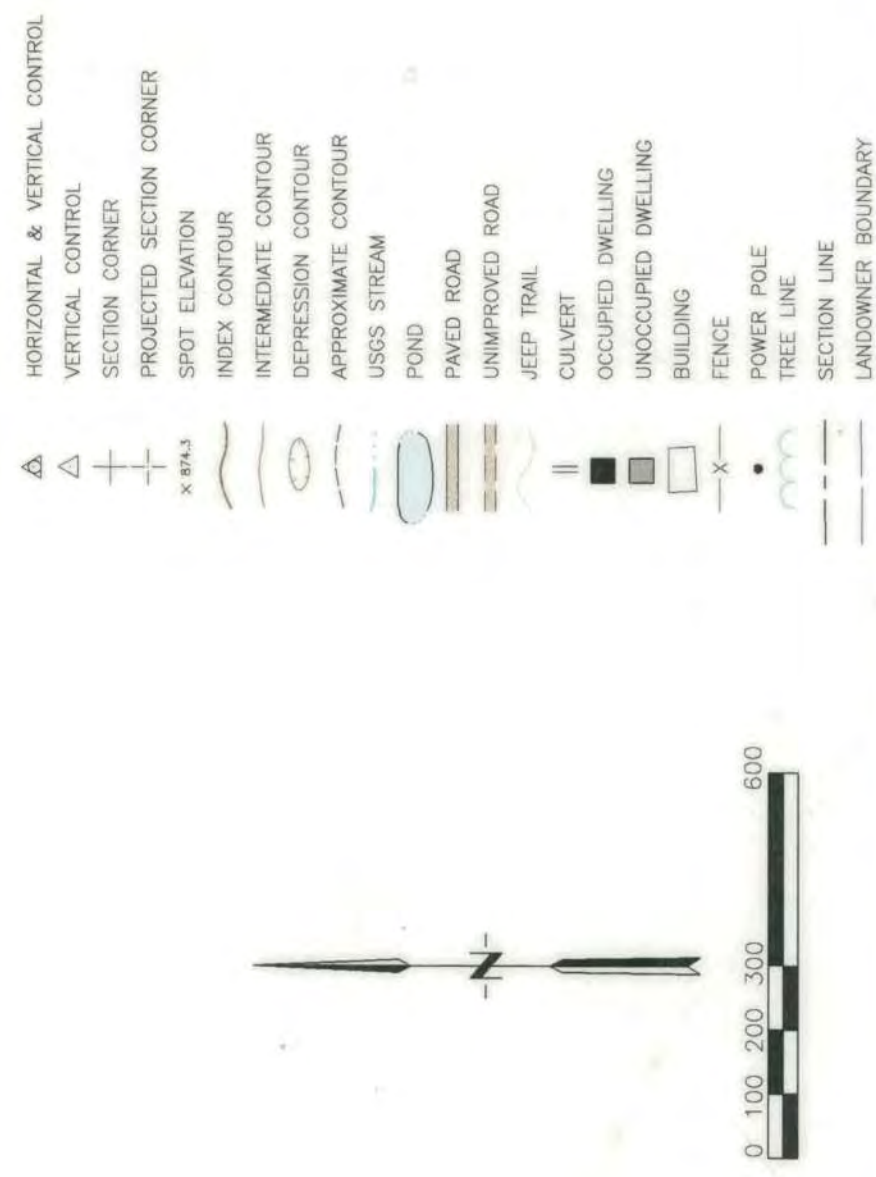
INHERENT MOISTURE - 4.11% - ASTM D3173

Respectfully submitted,
SGS NORTH AMERICA INC.

Harrogate Laboratory



—P— PERMIT BOUNDARY
--- LIMITS OF COAL RECOVERY





MCNIC Pipeline & Processing Company
Detroit, Michigan

CORBIN MINE

MSHA POND ID NUMBERS
KNOX & WHITLEY COUNTY, KENTUCKY

BMc-CONSULTING ENGINEERING
Berne, Oklahoma

SCALE: 1"=300'
CONTOUR INTERVAL: 10'

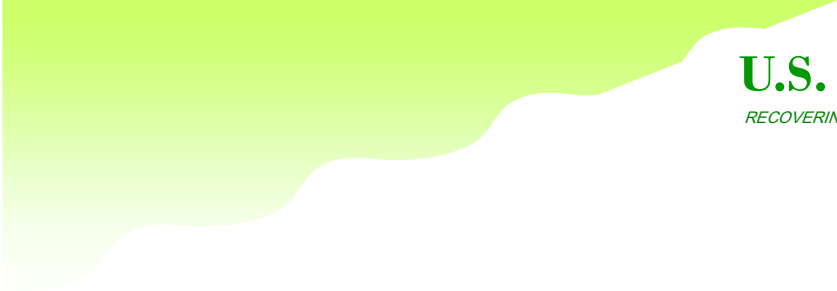
DESIGNED: BMc
DRAWN: JCI
EXHIBIT #1

DATE: _____
REVISION: _____









U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

BASE OIL SPECIFICATIONS

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

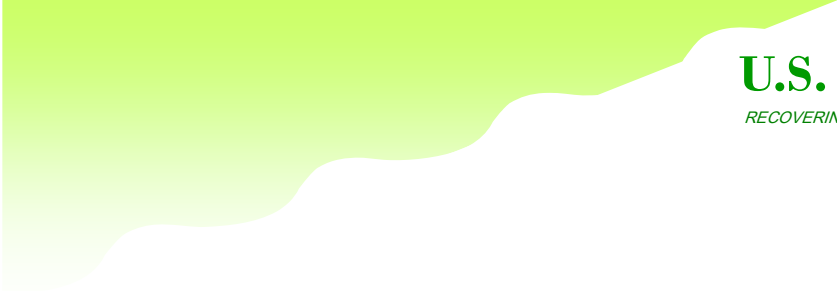
▶ GROUP I BASE OIL 130, 150, 1000

<u>Property</u>	<u>Limit</u>	<u>Method</u>	<u>SN 130</u>	<u>SN 150</u> <u>88 VI</u>	<u>Canthus</u> <u>1000</u>
Appearance		Visual	BandC	BandC	BandC
Color	Max	ASTM D-1500	1.5	1.0	
Flash Point,COC Deg C	Min	ASTM D-92	204	200	298
Kinematic Viscosity@ 40°C mm2/sec	Min Max	ASTM D-445	24.0 26.0	28.8 31.9	900 1000
NOACK Volatility wt%	Max	ASTM D-5800	23		
Pour Point Deg C	Max	ASTM D-97	-9	-9	-3
Viscosity Index	Min	ASTM D-2270	97	88	80

As of 02/01/2011 the only Group I base oil available for sale is SN 150, 88 VI

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www.usenergyResources.net



U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

TRANSFORMER OIL SPECIFICATIONS

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

U.S. Energy Resources LLC, markets and distributes premium quality ASTM mineral based transformer oil. ASTM Mineral oil is a hydrogenation refined naphthenic mineral transformer oil produced to exacting standards under an ISO9001 quality program.

The patented refining technology ensures that the oil products are of the highest quality. ASTM Mineral oil has superior oxidation stability, longevity, chemical purity and stability in service.

When using ASTM mineral oil, our customers can achieve greenhouse savings of 3.7 tonnes or greater CO₂ equivalent emissions per tonne of oil purchased from U.S. Energy Resources LLC.

The refining and production systems are independent of crude oil pricing and availability giving ASTM mineral oil customers the added advantages of:

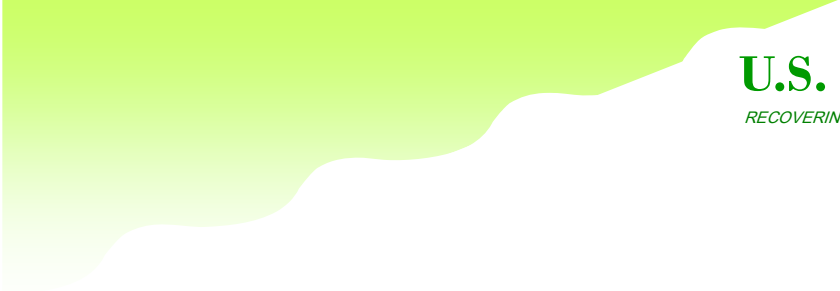
- Security of continuous future supply independent of crude oil availability
- Reduced exchange rate related price variation, and
- Predictable future pricing unrelated to crude oil price escalation and variation

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

• • • • •
Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

ASTM USENERGY GRADE A MINERAL OIL

<u>Test Description</u> <i><u>Physical</u></i>	<u>Test Method</u>	<u>Specifications</u>		<u>Marketing Values</u>
		<u>Min</u>	<u>Max</u>	
Viscosity, at 100°C [cSt]	ASTM D445		3.0	2.31
Viscosity, at 40°C [cSt]	ASTM D445		12.0	8.6
Viscosity, at 0°C (cSt)	ASTM D445		76.0	54.48
Pour Point, °C	ASTM D97		-40	-40
Color	ASTM D1500		0.5	0.5
Flash Point, °C	ASTM D92	145		158
Relative Density at 15°C/15°C	ASTM D1298	0.84	0.91	0.87
Interfacial Tension at 25°C	ASTM D971	40		50
<i>Electrical</i>				
Dielectric Breakdown Voltage [kV] 2mm gap	ASTM D1816	35		
Dielectric Breakdown Voltage [kV] 1 mm gap	ASTM D1816	20		39
Dissipation Factor (Power Factor) @ 25°C	ASTM D924		0.05	0.001
Dissipation Factor (Power Factor) @ 100°C	ASTM D924		0.30	0.017
Impulse Breakdown [kV]	ASTM D3300	145		>300
<i>Chemical</i>				
Water Content, mg/l	ASTM D1533		35	8
Oxidation Stability, 72 Hr. sludge, [wt%]	ASTM D2440		0.1	<0.01
Oxidation Stability, 72 Hr. acid number, [mg KOH/g]	ASTM D2440		0.3	<0.01
Oxidation Stability, 164 Hr. sludge, [wt%]	ASTM D2440		0.2	<0.01
Oxidation Stability, 164 Hr acid number, [mg KOH/g]	ASTM D2440		0.4	<0.01
Oxidation Stability, rotating bomb test (min)	ASTM D2112	195		351
Inhibitor Content	ASTM D2668	0.2	0.3	0.275
Corrosive Sulphur	ASTM D1275, CIGRE	Non-corrosive		Non-corrosive
Acid number, [mg KOH/g]	ASTM D974		0.03	0.01
PCB Content, ppm	ASTM D4059	Not detectable		Not detectable



U.S. ENERGY RESOURCES, LLC

RECOVERING MORE OF OUR RESOURCES, PROVIDING TODAY'S ENERGY FOR TOMORROW

U.S. ENERGY RESOURCES LLC TRANSLOADING SERVICES

**1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.**

• • • • •
**Tel: 248.723.6844
Fax; 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net**

Transloading Facility

- ◆ US-Energy facility Located East of I-75 and 8 Mile Road, it is home to 91,000 square foot Warehouse and Storage.
- ◆ The Facility is located on 5.5. Acres site, completely paved in 24" concrete with clay base for environmental safety.
- ◆ Two Rail Spurs from which we can ship and receive material and equipment.
- ◆ The Transloading Facility offers Rail to Truck reloading, Trucking and Storage services allowing non-rail served business to take advantage of long haul cost saving by using rail.
- ◆ Storage for up to 16 Railcars on site.
- ◆ Rail Service is provided by CSX.
- ◆ New state of the art in-ground truck scale, with modern auxiliary equipment. (State certified for an independent truck scale needs as well).
- ◆ We can service customers needs by flatbed trailer, roll-off container, and live loading.
- ◆ 45' ceilings complete with four overhead cranes ranging from 25 -60 tons, as well as electrical hook-up, and heated workspace.
- ◆ Electrical hook-up of 110, 220 & 440 Volts Current.
- ◆ For further information on U.S. Energy Resources, go to www.USEnergyResources.net

Remarks:

THANK YOU FOR YOUR BUSINESS!

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net
www. USEnergyResources.net

U.S. ENERGY RESOURCES, LLC

Rail and Transloading Services

When it comes to freight shipping services and storage services, U.S. Energy brings uniquely broad panoply of capabilities to the table, exemplified by our impressive rail transloading services.

Shipping by rail may provide a substantial cost savings to you compared to shipping your goods and materials via truck. U.S. Energy Resources is one of the area's larger facilities to offer rail transloading services.

With Class A railroad lines (CSX Rail System) connected to our facility on rail siding, your freight can be efficiently transloaded to truck for further shipping or to our warehouse for dry storage based on your needs.

Our rail transloading services include a rail yard featuring two rail spurs on 5.5 acres. U.S. Energy Resources has the ability to store 16 railcars on our grounds, ensuring that throughput through our facility is never an issue. In addition, we have 4 overhead cranes (25-60 Tons) and can also offer the unusual benefit of direct rail offloading.

Our site is designed to accommodate client material storage and receive but not limited to the following railcars:

- ◆ Center-beam
- ◆ Box
- ◆ Refrigerated
- ◆ Bulk
- ◆ Flat
- ◆ Hopper
- ◆ Tank



A new state of the art in ground scale combined with modem auxiliary equipment connected to data collection terminal and ticket printers can be matched to all digital readout units allowing customers to have accurate material weights; whether the load is being transported on the road or is being brought to U.S. Energy Resources for transloading onto rail. U.S. Energy Resources truck scale is also state certified for an independent truck scale service as well.

Both domestic and international business communities are increasingly discovering the cost effective opportunities railroad transportation offers and U.S. Energy Resources LLC invites the opportunity to supply innovative solutions.

1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net

U.S. ENERGY RESOURCES, LLC

Third Party Logistics

At U.S. Energy Resources LLC, we can save you time and money by acting when needed as a transportation services broker, and finding the most efficient way to move your goods and materials from your door to your customer's door.

By offering these kinds of third party logistics services, we can handle all the various aspects of storage and freight shipping services for our customers, including all trucking, transloading and storage. By using us as your transportation services broker, you receive one bill and have one contact, thereby saving time and aggravation and simultaneously maintaining superior control over your supply chain.

Shipping and storing your materials in bulk increases your product-per-load ratio and reduces your costs. Added up, it all provides a spectrum of capabilities that our customers can leverage to their benefit: rail transloading services, bulk handling, storage and third party logistics. The size and scope of U.S. Energy Resources LLC operations ensure that we have the ability to move your products where they need to go, and when they need to go there.

Dry Storage

U.S. Energy Resources LLC offers dry storage as a key feature of our comprehensive public warehousing services. Our facilities include 90,000 feet of dry storage space. All of this dry storage space is sized sufficiently to store high-cube type containers. Every time something is received at our warehouse, a receipt document is generated and a copy provided to our customer. Similarly, each shipment from dry storage generates a bill of lading with which our customer is provided.

U.S. Energy Resources LLC public warehousing services are utilized by a wide range of customers. Industrial customers might store such goods as industrial steel coil, lumber, bricks, or plastic resin. Other customers securely store everything from 55 gallon containers of yellow grease to vegetable cans. Customers achieve great benefits by taking advantage of our large capacity dry storage facilities to better handle and prepare for spikes in business activity and seasonal demands.



1221 Bowers St. # 1432
Birmingham, Michigan 48012-1432
U.S.A.

Tel: 248.723.6844
Fax: 248.282.0520
E-mail: Info@USEnergyResources.net



20300 Mt Elliott St, Detroit, MI 48234

©2011 Europa Technologies
©2011 Google

©2010 Google

Imagery Date: 5/9/2010

42°26'41.16" N 83°02'16.41" W elev: 622 ft

Eyo alt: 1353 ft