

FILE No. \uss\platfile\\*. \*  
 DRAWING No. \hricane1.dwg  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 : 2500  
 PROVEN SOURCE OF ELEVATION USC&GS BM F-44  
 WV Rt. 16 Hurricane & White Oak - at 1545.39

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES

(SIGNED) *[Signature]*  
 R.P.E. 2430 R.P.S.

Date: April 13, 1995  
 Operator's Well No. USM-10

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS  
 NITRO, WV

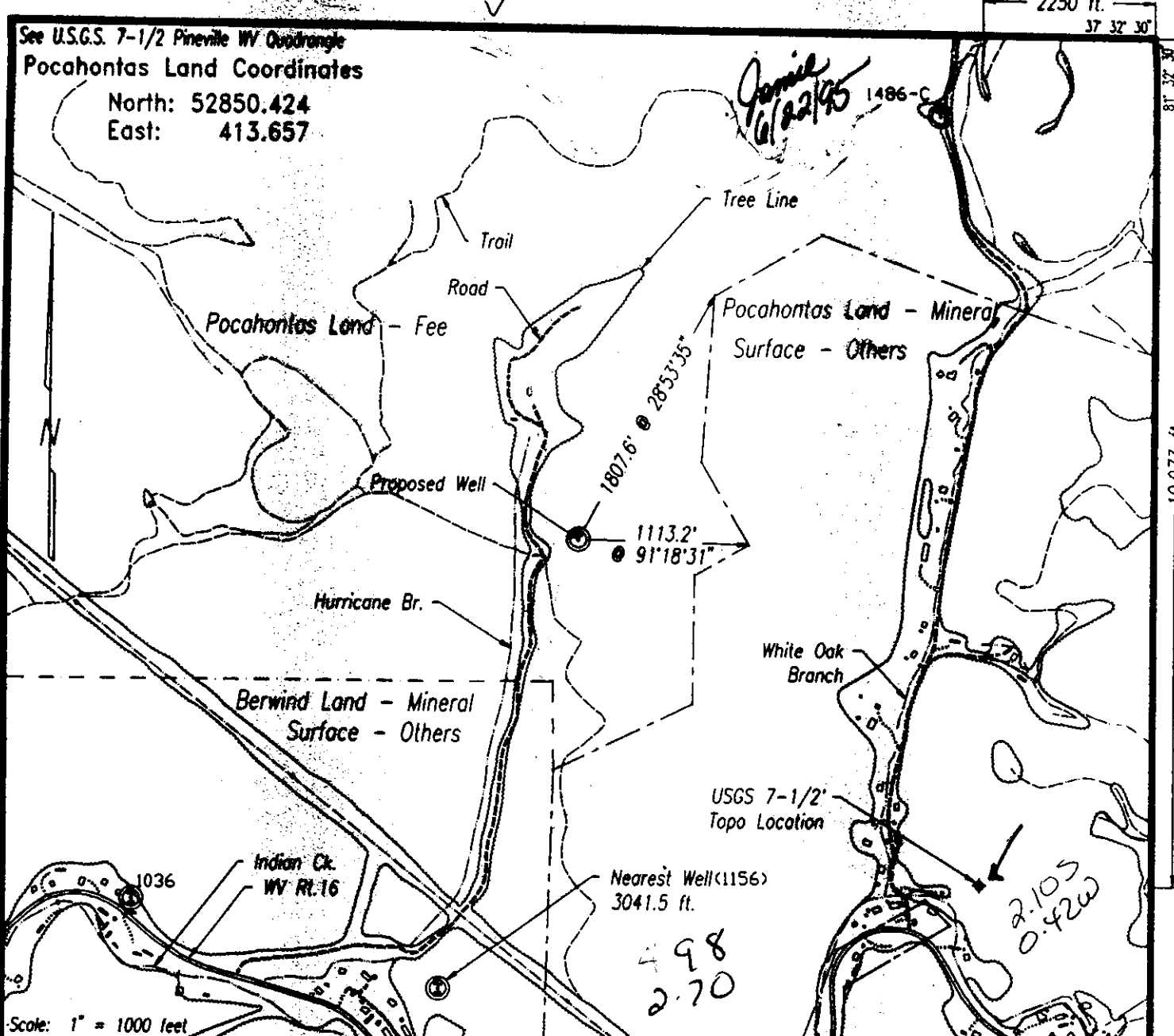


WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  *APR well no. 47-109-015210*  
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  CBM   
 LOCATION: ELEVATION: 1816.6 WATERSHED: Hurricane Br. of Indian Cr. off Guyandotte  
 DISTRICT: Center COUNTY: Wyoming  
 QUADRANGLE: USGS 7-1/2' Pineville Quadrangle  
 SURFACE OWNER Pocahontas Land Corporation ACREAGE 43,000 +/-  
 OIL & GAS ROYALTY OWNER Pocahontas Land Corporation LEASE ACREAGE 43,000 +/-  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEANOUT AND REPLUG   
 TARGET FORMATION Pocahontas 3 and 4 Seams ESTIMATED DEPTH 818 ft  
 WELL OPERATOR U.S. Steel Mining Co., Inc. DESIGNATED AGENT J. A. Zupanick  
 ADDRESS PO Box 338 Pineville WV 24874 ADDRESS PO Box 338 Pineville WV 24874

1521P  
 JUN 08 1995

COUNTY NAME WYO PERMIT 1521P



FILE No. \uss\platfile\\*\*  
 DRAWING No. \hricane1.dwg  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 : 2500  
 PROVEN SOURCE OF ELEVATION USC&GS BM F-44  
 WV Rt. 16 between Hurricane & White Oak - d. 1988.38

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES

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STATE OF WEST VIRGINIA  
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 OFFICE OF OIL AND GAS  
 NITRO, WV



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 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  CBM   
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 DISTRICT: Center COUNTY: Wyoming  
 QUADRANGLE: USGS 7-1/2' Pineville Quadrangle SE  
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 OIL & GAS ROYALTY OWNER Pocahontas Land Corporation LEASE ACREAGE 43,000 +/-  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEANOUT AND REPLUG   
 TARGET FORMATION Pocahontas 3 and 4 Seams ESTIMATED DEPTH 818 ft  
 WELL OPERATOR U.S. Steel Mining Co., Inc. DESIGNATED AGENT J. A. Zupnick  
 ADDRESS PO Box 338 890 ADDRESS PO Box 338  
 Pineville WV 24874 Pineville WV 24874

*APR 17 1995*  
 No. 47-109-01520 C

JUL 14 1995

COUNTY NAME  
 PERMIT

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WV Division of  
Environmental Protection

DEC 22 1995

WR-35

Permitting  
Office of Oil & Gas

04-DEC-95  
API # 47 - 109 -1521 C

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP. Operator Well No.: USM-10  
Location: Elevation: 1,816.6 Quadrangle: USGS 7 1/2' Pineville  
District: CENTER County: WYOMING  
Latitude: 52850.424 Feet North  
Longitude: 412.657 Feet East  
Company: U.S. STEEL MINING CO.  
P.O. Box 338  
Pineville, WV  
24874-0338

Agent: J. A. Zupanick

Inspector: Offie Helmick  
Permit Issued: 07/14/95  
Well work commenced: 08/19/95  
Well work completed: 09/21/95  
Verbal plugging  
permission granted on: \_\_\_\_\_  
Rotary \_\_\_\_\_ Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total depth (ft) 904.70  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_  
Is coal being mined in the area (Y/N)? Y  
Coal depths (ft): 767.6'-769', 837'- 841.3'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill up
13-3/8"	25'	25'	11 ft <sup>3</sup>
7"	705'	705'	241 ft <sup>3</sup>
4-1/2"		831.95'	81 ft <sup>3</sup>
2-3/8"		837'	

OPEN FLOW DATA

Producing formation Pocahontas No. 3 Seam Pay zone depth (ft) 837  
Gas: Initial open flow 1 Mcf/d Oil: Initial open flow N/A Bbl/d  
Final open flow 5 Mcf/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests: 48 hours

Static rock pressure 10 psig (surface pressure) after 48 hours

Second Producing formation Pocahontas No. 4 Seam Pay zone depth (ft) 767.6'  
Gas: Initial open flow 1 Mcf/d Oil: Initial open flow N/A Bbl/d  
Final open flow 3 Mcf/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests: 48 hours

Static rock pressure 0 psig (surface pressure) after 48 hours

Note: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

J.A. Zupanick  
For: U.S. Steel Mining Co., Inc.

By: Joseph A. Zupanick  
Date: December 4, 1995

Operator: USM-10  
 API: 47-109-1521-C  
 Location: Pineville

**Details of Perforated Intervals, Fracturing or Stimulation, Physical Change, Etc.**

Fracture Data: **Pocohontas # 3 Seam** (837'-841.3') Sand= 20/40 (33,000#) 16/30 (27,700#), H2O treated with Biocide=1,700 Bbls. Treating pressure=begin 1760 psig, end 2030 psig. **Pocohontas # 4 Seam** -(767.6'-769.5') Sand=20/40 (32,100#) 16/30 (17,300#), H2o treated with Biocide=1,585 Bbls. Treating pressure= begin 1830 psig, end 1650 psig. 250 gallons HCL 10%.

**Well Log & Geologic Record**

Formation	Top	Bottom
Siltstone & Shale	0	273
Shale	273	310
Sandstone	310	343
Sandstone & Shale	343	397
Siltstone	397	424
Sandstone	424	442
Sandstone & Siltstone	442	680
Sand & Shale	680	695
Siltstone & Shale	695	720
Sandstone & Shale	720	766
Coal	766	769
Shale & Siltstone	769	837
Coal	837	841
Siltstone & Shale	841	904

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 FORM WW-111 Division of  
 Environmental Protection

109-1521-6

Page \_\_\_ of \_\_\_

JUN 06 1995

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 WELL WORK PERMIT APPLICATION

Issued 07/14/95  
 Expires 07/14/97

Permitting  
 Office of Oil & Gas

- 1) Well Operator U. S. Steel Mining Co., Inc. <sup>230</sup> 50510 (3) 549
- 2) Operator's Well Number USM-10 3) Elevation: 1816.6
- 4) Well Type: (a) Oil \_\_\_ / or Gas X /  
 (b) If Gas: Production \_\_\_ / Underground Storage \_\_\_ / CBM X /  
 Deep \_\_\_ / Shallow \_\_\_ /
- 5) Proposed Target Formation(s): Pocahontas No. 3 Seam & Pocahontas No. 4 Seam
- 6) Proposed Total Depth: 818 feet
- 7) Approximate fresh water strata depths: 200' ±
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 693'/Poca. 6 - 763'/Poca. 4 - 818'/Poca. 3
- 10) Does land contain coal seams tributary to active mine? Yes X (Poca. 3) / No \_\_\_ /
- 11) Proposed Well Work: Drill & Stimulate coal Mech well.
- 12) CASING AND TUBING PROGRAM

20664

TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT

TYPE	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4		64#	25	25	20
Fresh Water	7"		17#	713	713	100
Coal						
Intermediate						
Production	4 1/2"		9.5	813	813	90
Tubing						
Liners						

25  
713  
380598-11.3  
380598-11.2.2  
380598-11.1

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

554-22  
 55424 29

Fee(s) paid: \_\_\_\_\_ Well Work Permit \_\_\_\_\_ Reclamation Fund \_\_\_\_\_ WPCP \_\_\_\_\_  
 Plat \_\_\_\_\_ WW-9 \_\_\_\_\_ WW-2B \_\_\_\_\_ Bond Surety \_\_\_\_\_ Agmt \_\_\_\_\_  
 (Type)

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Environmental Protection

JUN 06 1995

Permitting  
Office of Oil & Gas

**GENERAL INFORMATION**

109-1521-C

Permit Application Fee of \$400.00 enclosed.

**22-14-6 (b) (Com. Sub. for H.B. 4371)**

(2) Pocahontas Land Corporation is the Fee Owner of the tract. (Waiver Attached)

USX Corporation is the Lessee of all Coal Seams on this tract. (Waiver Attached)

Mistic Energy, Inc., is the Lessee of the Sewell Seam. The proposed well will be located on or near the sewell seam outcrop adjacent to an area that has been mined-out. (Waiver Attached)

U. S. Steel Mining Co., Inc., is the Sub-lessee of the Poca. No. 3 & No. 4 Seams and the operator of the Poca. No. 3. (Waiver Attached)

(4) The approximate depth to which the well will be drilled is 818'. The coal seams to be penetrated are the Poca. No. 6 (36" average thickness) at 693'±, the Poca. No. 4 (36" average thickness) at 763'± and the Poca. No. 3 (48" average thickness) at 818'±. Both the Poca. 3 and Poca. 4 Seams will be completed for production.

(5) Frac with 30,000 # 20/40 mesh sand & 30,000 gals F.W.

**38 CSR 18**

There are no known wells or springs within 1000 feet of the well.

**Summary of Waivers**

Surface Owner	-	Pocahontas Land Corp.	-	Waiver Included
Coal Owner	-	Pocahontas Land Corp.	-	Waiver Included
Coal Lessee	-	USX Corporation	-	Waiver Included
Coal Operator(s)				
Poca. 3 Seam	-	U. S. Steel Mining Co., Inc.	-	Waiver Included
Sewell Seam	-	Mistic Energy, Inc.	-	Waiver Included
Gas Owner	-	Pocahontas Land Corp.	-	Waiver Included
Gas Lessee	-	Cabot Oil and Gas Co.	-	Waiver Included

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JUN 06 1995

1) Date:                       
2) Operator's Well Number USM-10  
3) API Well No: 47 - 109 - 1521-C  
State - County - Permit

Permitting  
Office of Oil & Gas

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Pocahontas Land Corporation  
Address 800 Princeton Avenue  
Bluefield, WV 24701
- (b) Name                                       
Address
- (c) Name                                       
Address
- 5) (a) Coal Operator:  
Name U. S. Steel Mining Co., Inc.  
Address Box 338  
Pineville, WV 24874  
Name Mistic Energy, Inc.  
Address 107 George St. - Suite A  
Beckley, WV 25801
- (b) Coal Owner(s) with Declaration  
Name Pocahontas Land Corporation  
Address 800 Princeton Avenue  
Bluefield, WV 24701  
Name                                       
Address
- (c) Coal Lessee with Declaration  
Name USX Corporation  
Address P.O. Box 5686  
Princeton, WV 24740
- 6) Inspector Ofie Helmick  
Address P. O. Box 398  
Brenton, WV 24818  
Telephone (304) - 732-9135

**TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:**

     Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through      on the above named parties, by:

- X Personal Service (Affidavit attached)  
     Certified Mail (Postmarked postal receipt attached)  
     Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator U. S. Steel Mining Co., Inc.  
By: John L. Schroder, III  
Its: John L. Schroder, III - General Manager  
Address Box 338  
Pineville, WV 24874  
Telephone (304) 732-5293

Subscribed and sworn before me this 25th day of May, 1995

Jerlaine C. Kasper Notary Public

My commission expires March 15, 2005

