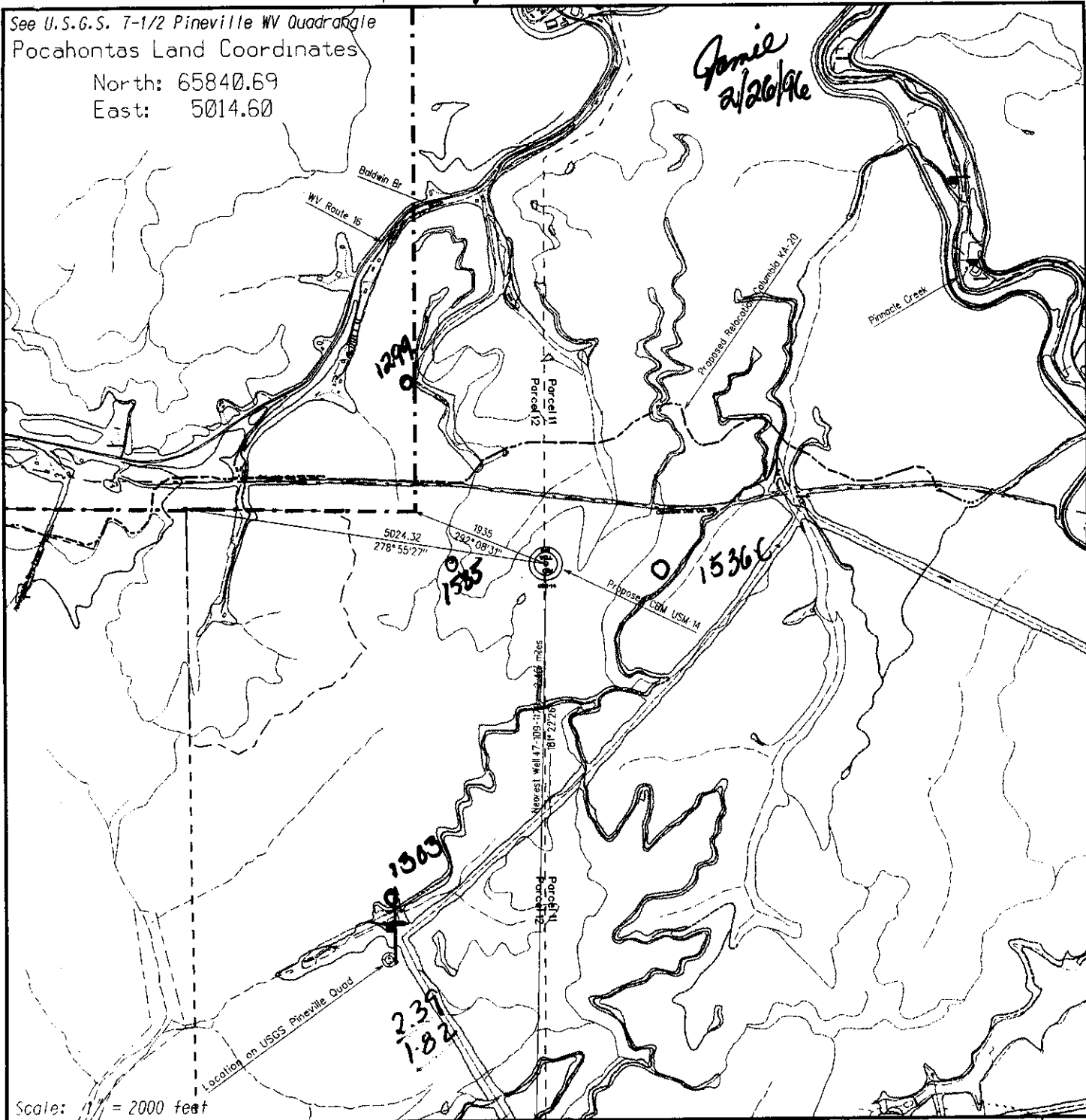


See U.S.G.S. 7-1/2 Pineville WV Quadrangle  
Pocahontas Land Coordinates

North: 65840.69

East: 5014.60

*Janie  
2/26/96*

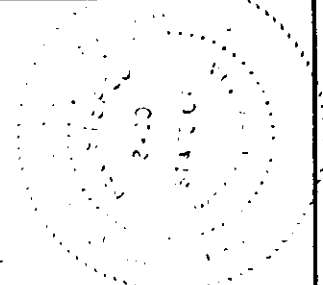


Scale: 1" = 2000 feet

FILE No. USM-TD-40\dgn\jd\plots  
 DRAWING No. cbm-14.dgn  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION BM-1691 USGS 26-AFK

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) *R. Clark Bannock*  
 R.P.E. 2430 R.P.S.



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

Date: December 20, 1995

Operator's Well No. USM-14

API Well No. 47-109-1537-C  
State County Permit

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW  CBM   
 LOCATION: ELEVATION: 1956.58 WATERSHED: Baldwin Br./Pinnacle Creek/Guyandotte

**1537-C**

DISTRICT: Center COUNTY: Wyoming

QUADRANGLE: USGS Pineville WV Quadrangle  
 SURFACE OWNER Pocahontas Land Corporation ACREAGE 74788  
 OIL & GAS ROYALTY OWNER Pocahontas Land Corporation LEASE ACREAGE 74788  
 LEASE NO. 58905

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OF  
 STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW  
 FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEANOUT AND REPLUG

TARGET FORMATION Pocahontas No.3 ESTIMATED DEPTH 933.02

WELL OPERATOR U.S. Steel Mining Co., Inc. DESIGNATED AGENT Joseph A Zupanich

ADDRESS P.O. Box 338 890 ADDRESS P.O. Box 338  
Pineville WV 24874 6-6 251 Pineville WV 24874

COUNTY NAME

PERMIT

RECEIVED  
Environmental Section

JAN 24 1997

Permitting  
Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP. Operator Well No: USM-14  
Location: Elevation: 1956.58 Quadrangle: USGS 7½' Pineville  
District: Center County: Wyoming  
Latitude: 13,062 Feet South of 37 Deg. 35 Min. 0 Sec.  
Longitude: 9,702 Feet West of 81 Deg. 30 Min. 0 Sec.

Company: U.S. STEEL MINING COMPANY, LLC  
P.O. Box 338  
Pineville, WV 24874-0338

Agent: J. A. Zupanick

Inspector: Offie Helmick  
Permit Issued: 02/26/96  
Well Work commenced: 05/15/96  
Well Work completed: 05/24/96  
Verbal plugging  
Permission granted on:  
Rotary x Cable \_\_\_\_\_ Rig  
Total depth (ft) 1146'  
Fresh water depths (ft) \_\_\_\_\_  
Salt water depths (ft) \_\_\_\_\_  
Is coal being mined in the area (Y/N)? Y  
Coal depths (ft): Poca 3/ 1020 - 1024'  
Poca 4/ 975 - 979'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up
13 3/8"	30'	30'	7.5 <sup>3</sup>
7"	724'	724'	399 <sup>3</sup>
4 1/2"		686.1	Packer in 7"

OPEN FLOW DATA

Producing formation Pocahontas No. 3 Seam Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow N/A Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests: \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ hours

Second Producing formation Pocahontas No. 4 Seam Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow N/A Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests: \_\_\_\_\_ hours  
Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ 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 SYSTEMATICK DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

JAN 31 1997

JA Zupanick  
For: U.S. Steel Mining Co., Inc  
By: Joseph A. Zupanick  
Date: January 20, 1997

Operator:  
API:  
Location:

USM-14  
47-109-01537-C  
Pineville

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

**Poca #3**

**Open hole frac through Packer  
Breakdown Pressure 1800#  
2754 BBLs Fresh Water  
32,800# 20/40 sand  
36,500# 12/20 sand**

**Poca #4**

**Breakdown Pressure 1800#  
3533 BBL Fresh Water  
35,500# 20/40 sand  
2900# 12/20 sand  
Open hole frac through Packer**

**Well Log & Geologic Record**

<b>Formation</b>	<b>Top</b>	<b>Bottom</b>
<b>Sandstone</b>	<b>598</b>	<b>721</b>
<b>Coal</b>	<b>721</b>	<b>722</b>
<b>Sandstone</b>	<b>722</b>	<b>742</b>
<b>Sandy Shale</b>	<b>742</b>	<b>837</b>
<b>Sandstone</b>	<b>837</b>	<b>905</b>
<b>Shale</b>	<b>905</b>	<b>950</b>
<b>Sandstone</b>	<b>950</b>	<b>975</b>
<b>Coal (Poca 4)</b>	<b>975</b>	<b>979</b>
<b>Sandy Shale</b>	<b>979</b>	<b>1020</b>
<b>Coal (3 Seam)</b>	<b>1020</b>	<b>1024.5</b>
<b>Shaley Sandstone</b>	<b>1024.5</b>	<b>1073</b>
<b>Sandstone</b>	<b>1073</b>	<b>1120</b>
<b>Shale</b>	<b>1120</b>	<b>1125</b>
<b>Sandstone</b>	<b>1125</b>	<b>1146</b>

109-1537-C

Issued 02/26/96  
 Expires 02/26/98  
 Page \_\_\_ of \_\_\_

STATE OF WEST VIRGINIA  
 Permitting DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
 Office of Oil & Gas WELL WORK PERMIT APPLICATION

- 1) Well Operator: U. S. Steel Mining Co., Inc. 50510 (3) 549
- 2) Operator's Well Number USM 14 3) Elevation: 1956.58
- 4) Well Type: (a) Oil \_\_\_\_\_ / or Gas x /  
 (b) If Gas: Production \_\_\_\_\_ / Underground Storage \_\_\_\_\_ / CBM x /  
 Deep \_\_\_\_\_ / Shallow \_\_\_\_\_
- 5) Proposed Target Formation(s): Poca #6 / Poca #4 / Poca #3
- 6) Proposed Total Depth: 933' feet
- 7) Approximate fresh water strata depths: 200±
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: Poca 6 / 793' Poca 4 / 863' Poca 3 / 933'
- 10) Does land contain coal seams tributary to active mine? Yes x Poca 3 / No \_\_\_\_\_
- 11) Proposed Well Work: Drill and Stimulate Coal Methane Well
- 12) CASING AND TUBING PROGRAM

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE INTERVALS	CEMENT
Conductor	16"		55#	For drilling 30'	Left in Well 0 Fill-up (cu. ft.) 18
Fresh Water	11 3/4"		38#	733	733 346
Coal					
Intermediate					
Production	5 1/2"		17#	928	928
Tubing					
Liners					

3805918-3  
 3805918-11.22  
 3805918-11.1

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

For Division of Oil and Gas Use Only

7703  
 Fee(s) paid: 6 Well Work Permit 6 Reclamation Fund 6 WPCP  
 Plat 6 WW-9 6 WW-2B 6 Bond 6 Agent 6  
 Type \_\_\_\_\_

21593

- 1) Date: \_\_\_\_\_
- 2) Operator's Well Number  
    USM-14
- 3) API Well No: 47 - 109 - 1537-c  
    State - County - Permit

**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
  - (b) Coal Owner(s) with Declaration  
Name Pocahontas Land Corporation  
Address 800 Princeton Avenue  
    Bluefield, WV 24701
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Ofie Helmick  
Address P. O. Box 398  
    Brenton, WV 24818  
Telephone (304) - 732-9135
- (c) Coal Lessee with Declaration  
Name USX Corporation  
Address P.O. Box 5686  
    Princeton, WV 24740

**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:

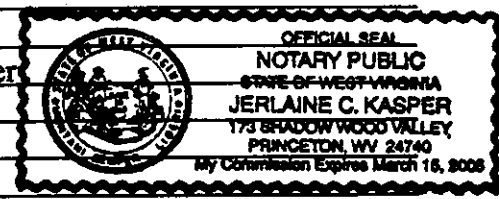
- X Personal Service (Affidavit attached)
- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

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 4th day of January, 1996  
Jerlaine C. Kasper Notary Public  
My commission expires March 15, 2005