

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

Pocahontas Land Coordinates

North: 65783.183

East: 9114.216

Final 9/18/96

Sta. 7-48-96
rr spike

127° 48' 54"
13.55'

18.30'

References 1"-100'

110° 50' 05"

137.60'

Sta. 7-48-96
rr spike

2.54s
1.07w

Pocahontas Land Corporation (fee)

Lambert Branch

PLC Triangulation
316

Pinnacle Creek

Norfolk Southern

GAS WELL
OIL
USIS
47-109-1536c

2465 ft active well

270° 06' 20"

GAS WELL
OIL
CB20

1700 ft
52° 49' 76"

2,400 ft. radius

No known domestic water supplies within 1000'



Location on USGS Pineville Quad

Scale: 1" = 1000 feet

FILE N:\USM-TD-40\dgn\jd\drill.plats\

DRAWING No. CBM-20.dgn

SCALE 1" = 1000'

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)

H. Claude Bernard
R.P.E. 2430 R.P.S.



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

Date August 8, 1996

Operator's

Well No. CBM-20

API Well No. 47-109-01580C

State County Permit

WELL TYPE: OIL GAS LIQUID INJECTION
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW CBM

LOCATION: ELEVATION: 1591.60 WATERSHED: Lambert Br./Pinnacle Creek/Guyandotte

DISTRICT: Center COUNTY: Wyoming

QUADRANGLE: USGS Pineville WV Quadrangle

SURFACE OWNER Pocahontas Land Corporation ACREAGE 24965

OIL & GAS ROYALTY OWNER Pocahontas Land Corporation LEASE ACREAGE 24965

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 No.3 ESTIMATED DEPTH 591.6

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

ADDRESS P.O. Box 338 ADDRESS P.O. Box 338

Pineville WV 24874

6-6 251

Pineville WV 24874

SEP 2 1996

COUNTY NAME

PERMIT

1997
Environmental
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: CBM-20
Location: Elevation: 1591.60 Quadrangle: USGS Pineville
District: Center County: Wyoming
Latitude: 13,225 Feet South of 37 Dec. 35 Min. 0 Sec.
Longitude: 5,690 Feet West of 81 Dec. 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: 09/17/96
Well Work commenced: * 09/04/96
Well Work completed: * 09/09/96
Verbal plugging
Permission granted on:
Rotary x Cable _____ Rig
Total depth (ft) 810'
Fresh water depths (ft) _____
Salt water depths (ft) N/A
Is coal being mined in the area (Y/N)? Y
Coal depths (ft): Poca 3 / 599.5 - 604'
Poca 4 / 526.5 - 529.5'

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill up
13%	25'	25'	38 ³
8 ⁵ / ₈	413'	413'	144 ³

* Well drilled under WVDEP Permit O-4032-92 & NPDES WV0090042

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.

N/A - Not Stimulated

JAN 31 1997

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

By: Joseph A. Zupanick
Date: January 20, 1997

Operator: CBM-20
API: 47-109-01580-C
Location: Pineville

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

Well Log & Geologic Record

Formation	Top	Bottom
Sandstone	401	442
Shale	442	446
Sandstone	446	488
Shale	488	526.5
Coal (Poca 4)	526.5	529
Shale	529	540
Sandstone	540	568
Shale	568	599
Coal (Poca 3)	599	603.5
Shale	603.5	619
Sandy Shale	619	810

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

Issued 09/17/96

- 1) Well Operator: ⁸⁹⁰ U. S. Steel Mining Co., Inc. 50510 (3) 549
- 2) Operator's Well Number CBM 20 3) Elevation: 1591.60
Expires 09/17/98
- 4) Well Type: (a) Oil / or Gas x /
(b) If Gas: Production / Underground Storage / CBM x /
Deep / Shallow x /
- 5) Proposed Target Formation(s): ⁹⁹⁰ Poca #4 / Poca #3
- 6) Proposed Total Depth: 591.6 feet
- 7) Approximate fresh water strata depths: 200±
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 522' / Poca 4 592' / Poca 3
- 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

RECEIVED
Division of
Environmental Protection
15 1996
Permitting
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	Size	Grade	Weight per ft.	For drilling	Left in Well	CEMENT Fill-up (cu. ft.)
Conductor	16"		55#	30'	30	18
Fresh Water	7"	J-55	23#	400'	(400')	106
Coal						3805918113
Intermediate						
Production	4½"	J-55	10.5#		400	None Set in Packer
Tubing						
Liners						

PACKERS: Kind Arrow Tension Packer
 Sizes 4½" x 7"
 Depths set 400 Ft.

For Division of Oil and Gas Use Only

___ Fee(s) paid: ___ Well Work Permit ___ Reclamation Fund ___ WPCP
 ___ Plat ___ WW-9 ___ WW-2B ___ Bond Blanket ___ Agent
 Type

22555

RECEIVED
WV Division of
Environmental Protection

SEP 06 1996

- 1) Date: _____
- 2) Operator's well number
 CBM-20
- 3) API Well No: 47 - 109 - 1580-C
 State - County - Permit

Permitting **STATE OF WEST VIRGINIA**
Office of Oil & Gas
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 _____
- 6) Inspector Ofie Helmick
Address P.O. Box 398
 Brenton, WV 24818
Telephone (304) - 732-9135

- 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 _____
- 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 13th day of August 1996

Jerlaine C. Kasper
Public
My commission expires March 15, 2005

