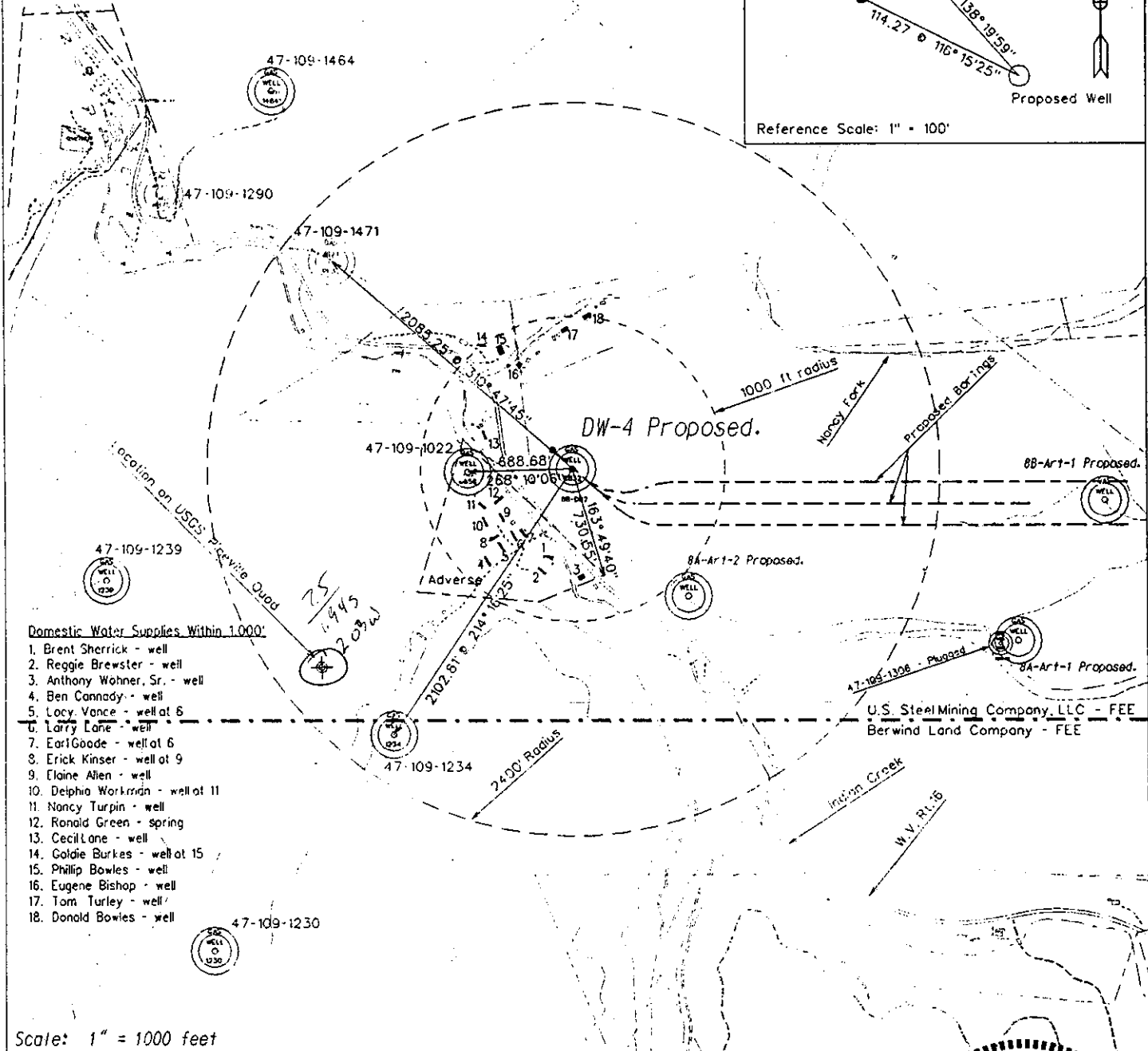
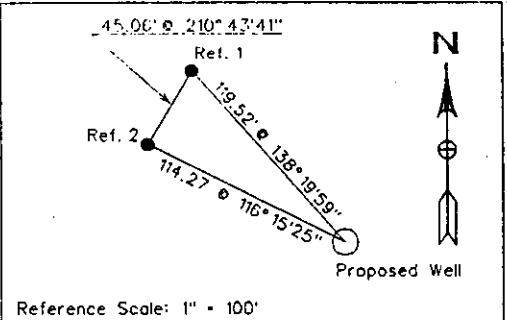


See U.S.G.S. 7-1/2 Pineville WV Quadrangle  
 Pocahontas Land Coordinates  
 North: 535.69.74  
 East: -8:45.28

37° 32' 30"

81° 32' 30"



Domestic Water Supplies Within 1,000'

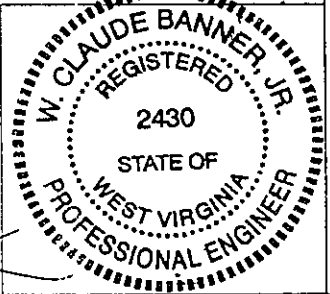
1. Brent Sherrick - well
2. Reggie Brewster - well
3. Anthony Wohner, Sr. - well
4. Ben Connady - well
5. Lucy Vance - well at 6
6. Larry Lane - well
7. Earl Goode - well at 6
8. Erick Kinser - well at 9
9. Elaine Allen - well
10. Delphia Workman - well at 11
11. Nancy Turpin - well
12. Ronald Green - spring
13. Cecil Lane - well
14. Goldie Burkes - well at 15
15. Phillip Bowles - well
16. Eugene Bishop - well
17. Tom Turley - well
18. Donald Bowles - well

Scale: 1" = 1000 feet

FILE No. TD-40\C:\dgn\jd\drill\_plats  
 DRAWING No. CBM-32.dgn  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION USC&GS BM F44  
 e.l. 1565

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) *W. Claude Banner Jr.*  
 R.P.E. R.P.S.



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

Date: September 20, 1997  
 Operator's Well No. DW-4

WELL TYPE: OIL \_\_\_ GAS XX LIQUID INJECTION \_\_\_  
 (IF 'GAS') PRODUCTION XX STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_ CBM XX

LOCATION: ELEVATION: 1543.67 WATERSHED: Indian Creek/Guandotte  
 DISTRICT: Center COUNTY: Wyoming  
 QUADRANGLE: USGS Pineville WV Quadrangle

SURFACE OWNER U.S. Steel Mining Company, LLC ACREAGE 24965  
 OIL & GAS ROYALTY OWNER U.S. Steel Mining Company, LLC LEASE ACREAGE \_\_\_  
 LEASE NO. \_\_\_

PROPOSED WORK: DRILL \_\_\_ CONVERT XX 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 780.2

WELL OPERATOR U.S. Steel Mining Company, LLC DESIGNATED AGENT Joseph A Zupnick  
 ADDRESS P.O. Box 338 Pineville WV 24874 ADDRESS P.O. Box 338 Pineville WV 24874

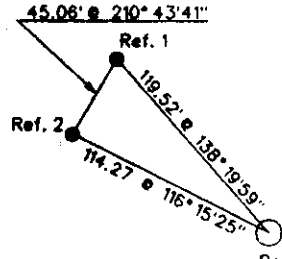
OCT 19 1998

COUNTY NAME WV0  
 FERRITI 1684 P

37° 32' 30"

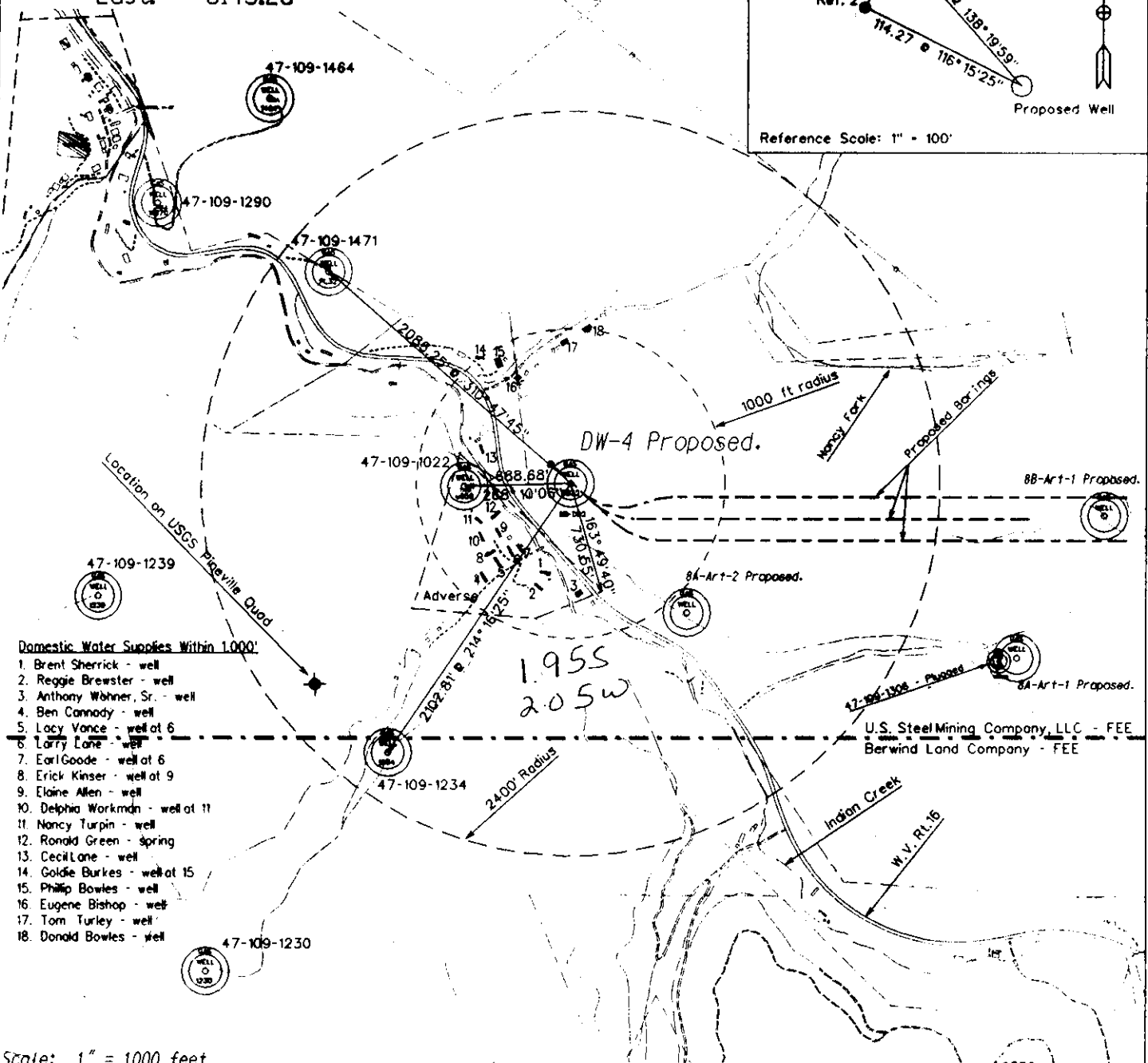
See U.S.G.S. 7-1/2 Pineville WV Quadrangle  
Pocahontas Land Coordinates

North: 53569.74  
East: -8145.28



Reference Scale: 1" = 100'

81° 32' 30"  
10250



Domestic Water Supplies Within 1,000'

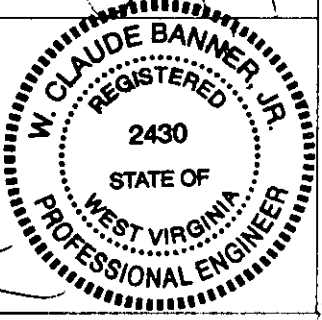
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18. Donald Bowles - well

Scale: 1" = 1000 feet

FILE No. TD-40\C:\dgn\d\drill\_plats  
DRAWING No. CBM-32.dgn  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1:2500  
PROVEN SOURCE OF ELEVATION USC&GS BM F44 el. 1565

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) *W. Claude Banner, Jr.*  
R.P.E. R.P.S.



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

Date: September 20, 1997  
Operator's Well No. DW-4

WELL TYPE: OIL    GAS XX LIQUID INJECTION     
(IF 'GAS') PRODUCTION XX STORAGE    DEEP    SHALLOW    CBM XX  
LOCATION: ELEVATION: 1543.67 WATERSHED: Indian Creek/Guyandotte  
DISTRICT: Center COUNTY: Wyoming  
QUADRANGLE: USGS Pineville WV Quadrangle  
SURFACE OWNER U.S. Steel Mining Company, LLC ACREAGE 24965  
OIL & GAS ROYALTY OWNER U.S. Steel Mining Company, LLC LEASE ACREAGE     
LEASE NO.   

PROPOSED WORK: DRILL    CONVERT XX 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 780.2 DEC 19 1997  
WELL OPERATOR U.S. Steel Mining Company, LLC DESIGNATED AGENT Joseph A Zupanick  
ADDRESS P.O. Box 338 ADDRESS P.O. Box 338  
Pineville WV 24874 Pineville WV 24874

COUNTY NAME  
PERMIT

WR-35

16-Dec-97  
API # 47-109-01684 C

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

Well Operator's Report of Well Work

Farm name: U. S. STEEL MINING COMPANY, LLC Operator Well No: DW-4  
Location: Elevation: 1,543.67  
Quadrangle: PINEVILLE  
District: CENTER County: WYOMING  
Latitude: 10250 Feet South of 37 Deg. 32 Min.30 Sec.  
Longitude: 10815 Feet West of 81 Deg. 32 Min. 30 Sec.  
Company: U.S. STEEL MINING COMPANY LLC  
P.O. Box 338  
Pineville, WV 24874-0338

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UIC Section  
JAN 27 1999  
WV Division of  
Environmental Protection

Agent: JOSEPH ZUPANICK

Inspector: OFIE HELMICK  
Permit Issued: 12/16/97  
Well Work commenced: 09/03/97  
Well Work completed: 09/10/97  
Verbal plugging  
Permission granted on:  
Rotary  Cable  Rig   
Total depth (ft) 820'  
Fresh water depths (ft) N/A  
Salt water depths (ft) N/A  
Is coal being mined in the area (Y/N)? Y  
Coal depths (ft): 753.5' - 758'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up
13 3/8	20'	20'	13.8 <sup>3</sup>
8 5/8	572'	572'	236 <sup>3</sup>

\*Borehole drilled under WVDEP Permit O-4017-92 & NPDES WV0090000

OPEN FLOW DATA

Producing formation Pocahontas No. 3 Seam Pay zone depth (ft) 753.5' - 758'  
 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      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.

Joseph A. Zupanick  
For: U.S. Steel Mining Company, LLC  
By: Joseph A. Zupanick  
Date: 1/2/98

WYO 1684 C

109-1684 -C

Issued 12/16/97

Page 1 of 3

Expires 12/16/99

FORM \_\_\_\_\_ (9/97)

**STATE OF WEST VIRGINIA**  
**DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**COALBED METHANE PERMIT APPLICATION**

24688

- 1) Well Operator: U. S. Steel Mining Company, LLC 2) Well Name DW-4
- 3) Operator's Well Number DW-4 4) Elevation 1543.67
- 5) Well Type: (a) Oil        / or Gas x /  
(b) If Gas: Production x / Underground Storage        / CBM x /  
Deep        / Shallow        /
- 6) Proposed Target Formation(s): Pocahontas #3
- 7) Proposed Total Depth: 780.2 feet
- 8) Approximate Fresh Water Strata Depths: 200±
- 9) Approximate Salt Water Depths: N/A
- 10) Approximate Coal Seam Depths: Poca 4 / 710' ..... Poca 3 / 780'
- 11) Does Land Contain Coal Seams Tributary to Active Mines? Yes x Poca 3 / No        /
- 12) (a) Proposed Well Work: Drill a horizontal Coalbed Methane Well  
(b) If Stimulation Proposed, Describe Means to be used to Stimulate Well: \_\_\_\_\_
- 13) (a) Does the proposed operation plan to convert an existing well (as defined in W.Va. Code § 22-6-1) or a vertical ventilation hole to a coalbed methane well? Yes x / No        /  
(b) If yes, please attach to this Application a list of all formations from which production is anticipated and a description of any plans to plug any portion of the well. Poca 3 Only
- 14) (a) Will the proposed coalbed methane well be completed in some but not all coal seams for production (except for a gob well or vent hole proposed to be converted to a well)? Yes        / No        / N/A x /  
(b) If yes, please attach to this Application a plan and design for the well which will protect all workable coal seams which will be penetrated by the well.
- 15) (a) Does the proposed operation include horizontal drilling of a well commenced on the surface? Yes x / No        /  
(b) If yes, please attach to this Application a description of such operations, including both the vertical and horizontal alignment and extent of the well from the surface to total depth.

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109-1684c

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DEC 08 1997

FORM \_\_\_\_\_ (9/97)

DW-4  
Vertical Well

Permitting  
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu.ft.)
Conductor	13 5/8"		65#	30'	30'	10
Fresh Water	11 3/4"	J-55	48#	350	350	110
Coal						
Intermediate						
Production	8 5/8"	J-55	23#	750		*See below
Tubing						
Liners						

\* PACKERS: 8 5/8 x 11 3/4 @ 340

For Office of Oil and Gas Use Only

9387/38

- Fee(s) paid:
- Well Work Permit
- Reclamation Fund
- WPCP
- Plat
- WW-9
- WW-5B
- Bond \_\_\_\_\_  
(Type)
- Agent

105-1684-c

FORM \_\_\_\_\_ (9/97)

DW-4  
Horizontal Well

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WV Division of  
Environmental Protection Page 3 of 3

DEC 23 1997

Permitting  
Office of Oil & Gas

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For Drilling	Left in Well	Fill-up (cu. ft.)
Conductor	13 $\frac{5}{8}$ "		65#	30'	30'	16
Fresh Water	9 $\frac{5}{8}$ "	J-55	42#	350	350	128
Coal						
Intermediate						
Production	7"	J-55	23#	580	580	212
Tubing						
Liners						

PACKERS:

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- Fee(s) paid:     
  Well Work Permit     
  Reclamation Fund     
  WPCP  
 Plat     
  WW-9     
  WW-5B     
  Bond \_\_\_\_\_     
  Agent  
(Type)

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WV Division of  
Environmental Protection

DEC 3 1997

Permitting  
Office of Oil & Gas

- 1) Date: \_\_\_\_\_
- 2) Operator's well number DW-4
- 3) API Well No: 47 - 109 - 1684-C  
State- County- Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT  
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE AND APPLICATION FOR A COALBED METHANE WELL PERMIT**

4) Surface Owner(s):

(a) Name U. S. Steel Mining Company, LLC  
 Address Box 338  
Pineville, WV 24874

(b) Name \_\_\_\_\_  
 Address \_\_\_\_\_

(c) Name \_\_\_\_\_  
 Address \_\_\_\_\_

5) Other Parties Noticed:

(a) Coal Owner(s):  
 Name U. S. Steel Mining Company, LLC  
 Address Box 338  
Pineville, WV 24874

Name \_\_\_\_\_  
 Address \_\_\_\_\_

(b) Coal Lessee(s):

Name \_\_\_\_\_  
 Address \_\_\_\_\_

Name \_\_\_\_\_  
 Address \_\_\_\_\_

(c) Coal Operator(s):

Name U. S. Steel Mining Company, LLC  
 Address Box 338  
Pineville, WV 24874

Name \_\_\_\_\_  
 Address \_\_\_\_\_

(d) Natural Gas Owner(s)

Name U. S. Steel Mining Company, LLC  
 Address P.O. Box 338  
Pineville, WV 24874

Name \_\_\_\_\_  
 Address \_\_\_\_\_

(e) Natural Gas Lessee(s):

Name CNG Producing Company  
 Address Crosswind Corporate Park  
Bridgeport, WV 26330

Name \_\_\_\_\_  
 Address \_\_\_\_\_

(f) Natural Gas Operator(s)

Name CNG Producing Company  
 Address Crosswind Corporate Park  
Bridgeport, WV 26330

Name \_\_\_\_\_  
 Address \_\_\_\_\_

6) Inspector Ofie Helmick  
 Address P.O. Box 398  
Brenton, WV 24818  
 Telephone 304-732-9219

38 CSR 23-13.3

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Environmental Protection

109-1684-C

SEP 22 1997

SEP 22 1997

Water users within 1000' of the well have been identified by name on the plat. Pursuant to and in compliance with the provisions of our approved mining plan under WVDEP permit U-204-83, these water sources have been included in the base-line ground water monitoring program. Water samples have been analyzed for the parameters listed in 38 CSR 23-13.10 with exception of detergents (MBAS) The entire base-line results are included for your review.

This application is to convert a degas borehole to a gas well. The degas borehole was drilled during October '97 as provided in Permit O-4016-92. No adverse affects to quality or quantity of groundwater have been detected by the water sample results and no complaints have been received by groundwater users as a result of this drilling.

This monitoring program will continue during and after mining as per requirements of the WVDEP and will therefore be available upon request. Please advise if the information provided herein does not meet the requirements of your office.