west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 03, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10902275, issued to PINNACLE MINING COMPANY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 95-B R
Farm Name: U.S. STEEL MINING COMPANY
API Well Number: 47-10902275
Permit Type: Plugging
Date Issued: 11/03/2015

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.

3. Well work activities shall not constitute a hazard to the safety of persons.

10902275P

WW-4B
Rev. 2/01

1) Date September 23, 2015
2) Operator's Well No. 95-B
3) API Well No. 47-109-02275

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas (CBM) XX / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production XX or Underground storage ____) Deep ____/ Shallow XX

5) Location: Elevation 2111.31 Watershed Marsh Fork of Brier Creek off Indian Creek
District Baileysville County Wyoming Quadrangle Pineville, WV 7½'

6) Well Operator Pinnacle Mining Company, LLC
Address P.O. Box 338
Pineville, WV 24874

7) Designated Agent David G. Trader
Address P.O. Box 338
Pineville, WV 24874

8) Oil and Gas Inspector to be notified
Name Danny Mullins Brian K. Ferguson
Address 124 Big Trace Fork Road 708 Manor Drive
Harts, WV 25524 Beckley, WV 25801

9) Plugging Contractor
Name L & D Well Services, Inc.
Address 619 Vansant Leemaster Dr.
Vansant, VA 24656

10) Work Order: The work order for the manner of plugging this well is as follows:

1) Attempt to clean out well base to original T.D.
2) Run tubing to approximately 20 feet above the POCA 3 coal seam.
3) Spot expanded cement through the horizontal legs.
3a Alternatively, a cross-linked polymer gel will be used to plug the horizontal legs plus 20' above the POCA 3 coal seam
4) Remove the tubing.
5) Spot expanded cement from the bottom of the vertical borehole (95-B) to the surface.
6) Erect monument with API 47-109-02275 affixed to the monument.

Note: contact the local Oil & Gas inspector, Danny Mullins at least 24 hours before beginning operations (304-932-6844).

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

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Work order approved by inspector Danny Mullins Date 10/15/15

10902275P

WR-35

API # 47- 109-02275 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 Operator Well No: 95-B-R

Location: Elevation: 2105.32' Quadrangle: Pineville

District: Center County: Wyoming

Latitude: 8371 Feet South of 37 Deg. 32 Min. 30 Sec.
Longitude: 5583 Feet West of 81 Deg. 35 Min. 00 Sec.

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Office of Chief
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Company: CDX Gas, LLC
P.O. Box 609
Pineville, WV 24874

Agent: JOSEPH A. ZUPANICK

Inspector: Ronnie Scott
Permit Issued: 6/4/03
Well Work commenced: 7/7/03
Well Work completed: 8/19/03
Verbal plugging
Permission granted on:
Rotary x Cable _____ Rig
Total depth (ft) 1375 .
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): 166',377',440',739',1226',1323',1343'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill up
13 3/8"	28'	28'	19.4
9 5/8"	662'	662'	207.3
7"	1017'	1017'	153.9
2 7/8"	1323'	1323'	Hanging

OPEN FLOW DATA

Producting formation Pocahontas No.3 seam Pay zone depth (ft) 1323'
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 ____ Mcf/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ 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.

Steven Pauley
For: CDX Gas, LLC
By: Steven Pauley
Date: 10-6-03

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NOV 14 2003

WVO 2275C

1090 2275P

Operator: 95-B-R
API No. 47- 109-02275 C
Location: Wyoming County

Details of Perforated Intervals, Fracturing or Stimulation, Physical Change, Etc. – N/A

Well Log & Geologic Record - Depths from G.L.

Lithology	Depth in feet Top	Bottom
Casing	0	25
Sandy Shale	25	80
Sandstone	80	98
Sandy Shale	98	166
Coal	166	167
Shale	167	218
Sandy Shale	218	272
Shale	272	327
Sandy Shale	327	345
Shale	345	377
Coal	377	378
Sandy Shale	378	420
Shale	420	440
Coal	440	441
Shale	441	495
Sandy Shale	495	520
Shale	520	525
Sandy Shale	525	550
Shale	550	600
Sandy Shale	600	637
Sandstone	637	663
Sandy Shale	663	739
Coal	739	740
Shale	740	758
Sandy Shale	758	809
Shale	809	857
Sandy Shale	857	957
Shale	957	1018
Sandy Shale	1018	1107
Sandstone	1107	1210
Shale	1210	1226
Coal	1226	1228
Sandy Shale	1228	1315
Shale	1315	1324
Coal	1323	1328
Shale	1328	1343
Coal	1343	1345
Sandy Shale	1345	1375
End		

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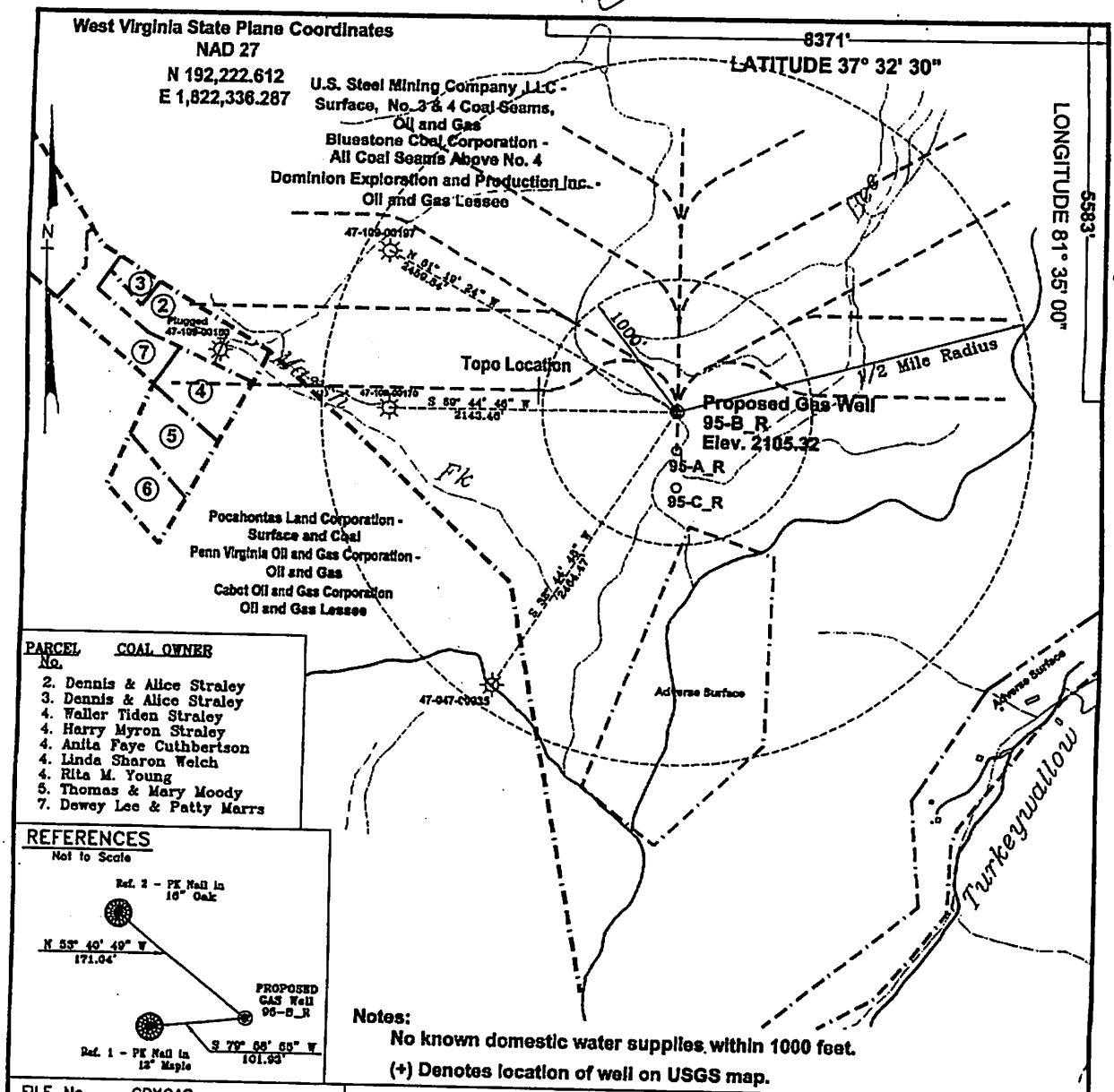

Notes:
No known domestic water supplies within 1000 feet.
(+) Denotes location of well on USGS map.

FILE No. CDXGAS
DRAWING NAME \CDX-2003\PLAT 95-B_R
DRAWING NAME Plat95-B_R
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 : 2500
PROVEN SOURCE OF ELEVATION GPS - GLOBAL POSITIONING SYSTEM

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) Stacey L Boardwine
R.P.E. 15423 R.P.S.

STACEY L. BOARDWINE REGISTERED 15423 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER
PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
CHARLESTON, WV

DATE May 01, 2003
OPERATOR'S WELL No. 95-B_R
API WELL No.
47 - 109 - 02275C
STATE COUNTY PERMIT

WELL TYPE: OIL__ GAS CBM LIQUID INJECTION__ WASTE DISPOSAL__
(IF "GAS") PRODUCTION X STORAGE__ DEEP__ SHALLOW__
LOCATION: ELEVATION 2105.32 WATER SHED MARSH FORK OF BRIER CREEK OF INDIAN CREEK
DISTRICT CENTER COUNTY WYOMING
QUADRANGLE PINEVILLE, WV
SURFACE OWNER U.S. STEEL MINING COMPANY, LLC ACREAGE 33,742.55
CBM ROYALTY OWNER U.S. STEEL MINING COMPANY, LLC LEASE ACREAGE
PENN VIRGINIA OIL AND GAS CORPORATION
LEASE No.
PROPOSED WORK: DRILL X CONVERT__ DRILL DEEPER__ REDRILL__ FRACTURE OR STIMULATE__ PLUG OFF OLD FORMATION__ PERFORATE NEW FORMATION __ OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION POCAHONTAS NO. 3 AND PENN. COALS ESTIMATED DEPTH 1382'
WELL OPERATOR CDX GAS, LLC DESIGNATED AGENT JOSEPH ZUPANICK
ADDRESS P.O. BOX 609 ADDRESS P.O. BOX 609
PINEVILLE, WV 24874 PINEVILLE, WV 24874

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5935

109 02275P

WW-4A
Revised 6-07

CK 26642
10000

1) Date: September 23, 2015
2) Operator's Well Number 95-B

3) API Well No.: 47 - 109 - 02275

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Pinnacle Land Company, LLC
Address: P.O. Box 338
Pineville, WV 24874
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name: Pinnacle Mining Company, LLC
Address: P.O. Box 338
Pineville, WV 24874
(b) Coal Owner(s) with Declaration
Name: WPP LLC
Address: 5620 Irwin Road
Huntington, WV 25705
(c) Coal Lessee with Declaration
Name: Pinnacle Mining Company, LLC
Address: P.O. Box 338
Pineville, WV 24874
Name: Mechel Bluestone Inc.
Address: P.O. Box 1085
Beckley, WV 25802

6) Inspector: Danny Mullins
Address: 124 Big Trace Fork Road
Harts, WV 25524
Telephone: 304-932-6844

BRIAN K FERGUSON
703 MANOR DRIVE
BECKLEY WV 25801
304-550-6265

TO THE PERSONS NAMED ABOVE: **You should have received this Form and the following documents:**

(1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
(2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
THERESA A STANLEY
PO BOX 181
BOLT, WV 25817-0181
My commission expires September 21, 2021

Well Operator: Pinnacle Mining Company, LLC
By: David G. Trader
Its: Senior Mine Engineer
Address: P.O. Box 338
Pineville, WV 24874
Telephone: 304-256-5240

Subscribed and sworn before me this 25 day of September 2015
Theresa A Stanley Notary Public
My Commission Expires September 21, 2021

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Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

109 02275P

WW-9
(2/15)

API Number 47 - 109 - 02275
Operator's Well No. 95-B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Pinnacle Mining Company, LLC OP Code 494462340

Watershed (HUC 10) 0507010103 Marsh Fk. of Brier Ck. of Indian Ck. Quadrangle Pineville, WV 7½'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes ☐ No ☑

Will a pit be used? Yes ☑ No ☐

If so, please describe anticipated pit waste: fluids, steel cuttings, and other materials associated with well plugging activities

Will a synthetic liner be used in the pit? Yes ☑ No ☐ If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

- ■ Land Application
- ☐ Underground Injection (UIC Permit Number _____)
- ☐ Reuse (at API Number _____)
- ☐ Off Site Disposal (Supply form WW-9 for disposal location)
- ☐ Other (Explain _____

Will closed loop system be used? If so, describe: no

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. n/a no drilling

-If oil based, what type? Synthetic, petroleum, etc. n/a

Additives to be used in drilling medium? n/a no drilling

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. left in pit

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) cement

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately 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 or imprisonment.

Company Official Signature David G. Trader

Company Official (Typed Name) David G. Trader

Company Official Title Senior Mine Engineer

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Subscribed and sworn before me this 25 day of September, 20 15

Theresa A Stanley Notary Public

My commission expires September 21, 2021

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NOTARY PUBLIC
STATE OF WEST VIRGINIA
THERESA A STANLEY
PO BOX 181
BOLT, WV 25817-0181
My commission expires September 21, 2021

10902275P

Form WW-9

Operator's Well No. 95-B

Pinnacle Mining Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 11.32 Prevegetation pH 6.67

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-10 or equivalent

Fertilizer amount 500 lbs/acre

Mulch pulp fiber at ½ - ¾ Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue	40	Tall Fescue	40
Ladino Clover	5	Ladino Clover	5

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Brian K Ferguson Danny Miller

Comments:

Title: OOG Inspector Date: 10/15/15

Field Reviewed? (X) Yes ( ) No

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Pinnacle Mining Company LLC
CBM Well 95-B

TOPO SECTION OF:
United States Department of the Interior
Geological Survey - Pineville & Baileysville - 7½' Quadrangles

PROPOSED CULVERT INVENTORY
(For Bid Purposes Only)

15" (Minimum) Culverts	none proposed

Additional Culverts and/or other drainage structures and sediment control devices may be required by the WVDEP Oil & Gas Inspector. Operator is responsible for coordination with contractor and True Line regarding any changes or additions the State may require.

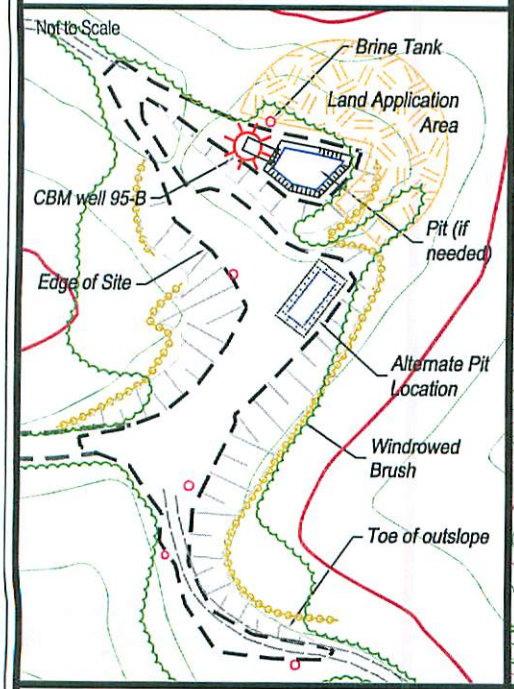
PROJECTED EARTHEN DISTURBANCE

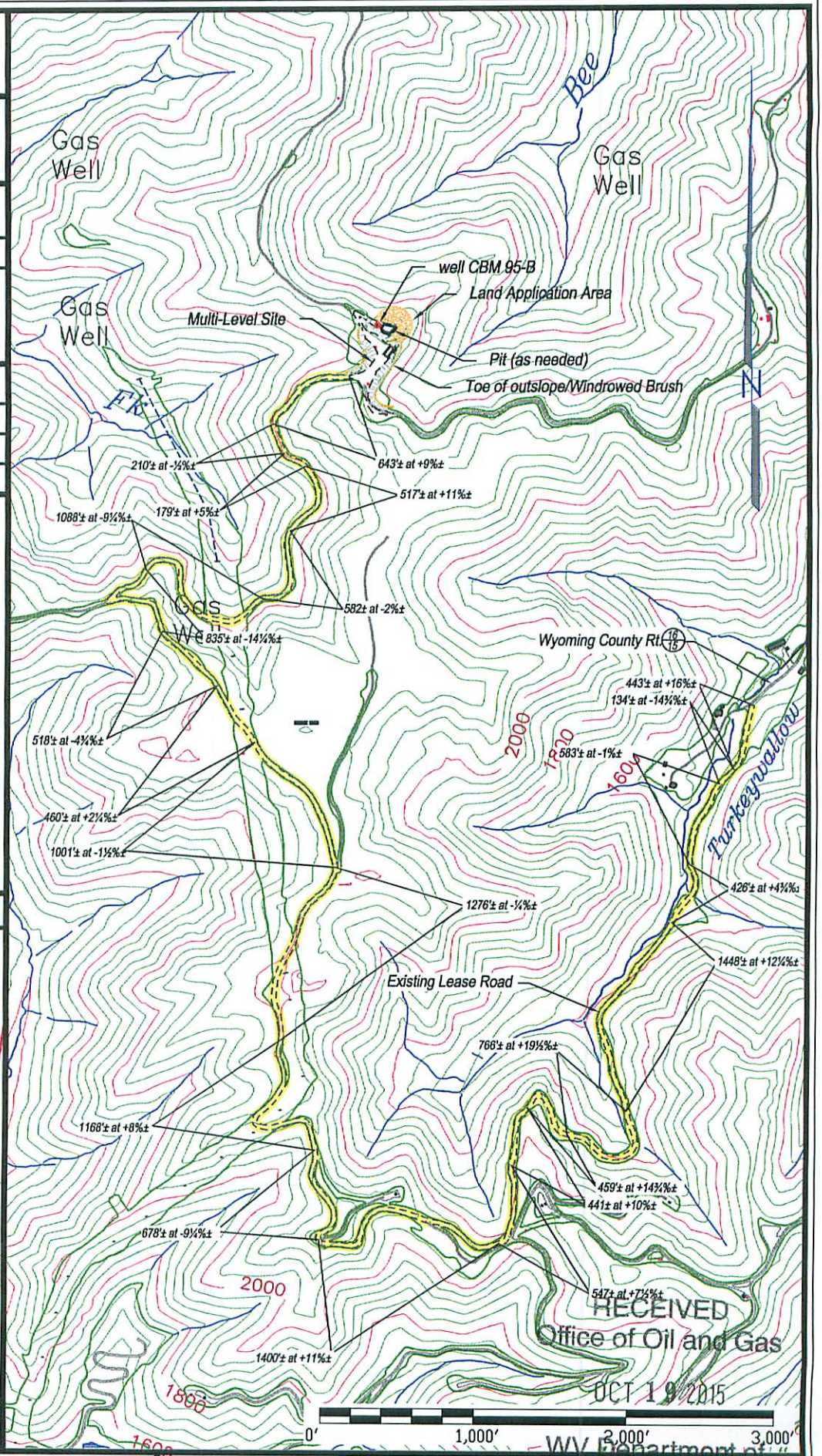
Well Location Site	2.38 Acres
Access Road	8.94 Acres
Approximate Total Disturbance	11.32 Acres

LEGEND

- Proposed Road
- Existing Road
- Existing Culvert
- Proposed Culvert (15" Min. unless noted)
- Proposed Stream Crossing
- Cross Drain
- Diversion Ditch
- Silt Fence
- Brush Barrier
- Tree Line
- Road Ditch
- Gas Line
- Fence Line
- Water Well
- House/Structure
- Spring
- Wet Spot

Detail Sketch for CBM well 95-B





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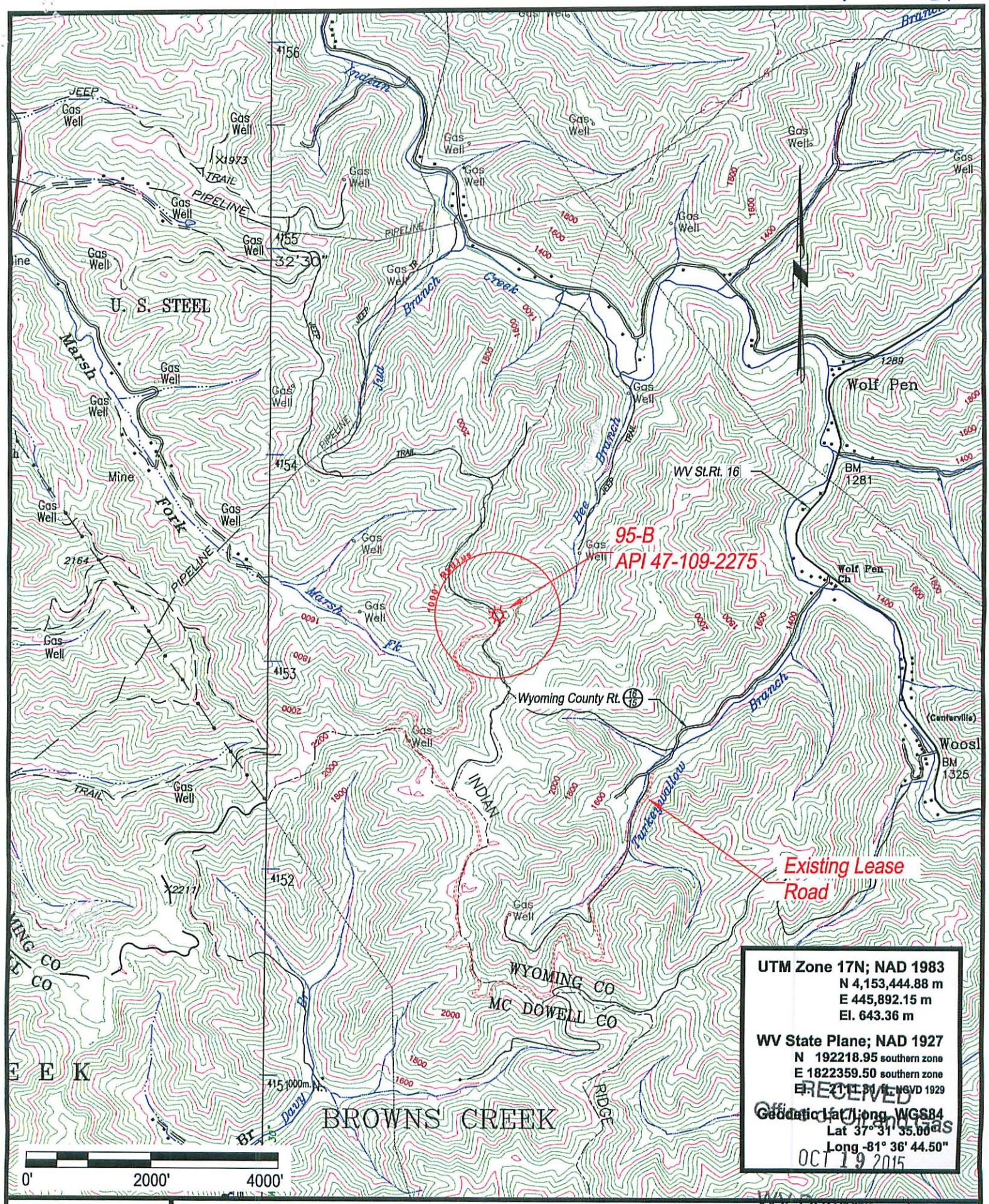
CLIFFS

WW-9: CBM Well 95-B
Construction and Reclamation Plan

September 23, 2015

109 02275P



UTM Zone 17N; NAD 1983
N 4,153,444.88 m
E 445,892.15 m
El. 643.36 m

WV State Plane; NAD 1927
N 192218.95 southern zone
E 1822359.50 southern zone
El. 2111.31 ft. NGVD 1929

Geodetic Lat/Long, WGS84
Lat 37° 31' 35.00"
Long -81° 36' 44.50"

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CLIFFS

95-B

API 47-109-02275

Located near Centerville in Baileysville District of Wyoming County, West Virginia

September 23, 2015

109 02275 P

WW-7
8-30-06

West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-109-02275 **WELL NO.:** 95-B

FARM NAME: U. S. STEEL MINING CO.

RESPONSIBLE PARTY NAME: Pinnacle Mining Company, LLC

COUNTY: Wyoming **DISTRICT:** Baileysville

QUADRANGLE: Pineville, WV 7½'

SURFACE OWNER: Pinnacle Land Company, LLC

ROYALTY OWNER: Pinnacle Land Company, LLC

UTM GPS NORTHING: 4,153,444.88

UTM GPS EASTING: 445,892.15 **GPS ELEVATION:** 643.36 (2110.0')

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS XX : Post Processed Differential XX

Real-Time Differential _____

Mapping Grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

4. **Letter size copy of the topography map showing the well location.**

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

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James Musgrave — consultant — Sept. 23, 2015

Signature — Title — Date