



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

April 22, 2014

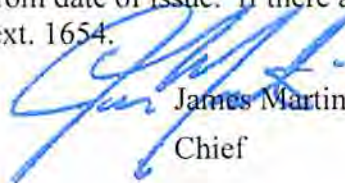
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10901472, issued to HARPER, HAYDEN ENERGY KA, 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 penalties 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: PLC 33
Farm Name: PINNACLE LAND COMPANY, LL
API Well Number: 47-10901472
Permit Type: Plugging
Date Issued: 04/22/2014

Promoting a healthy environment.

04/25/2014

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.

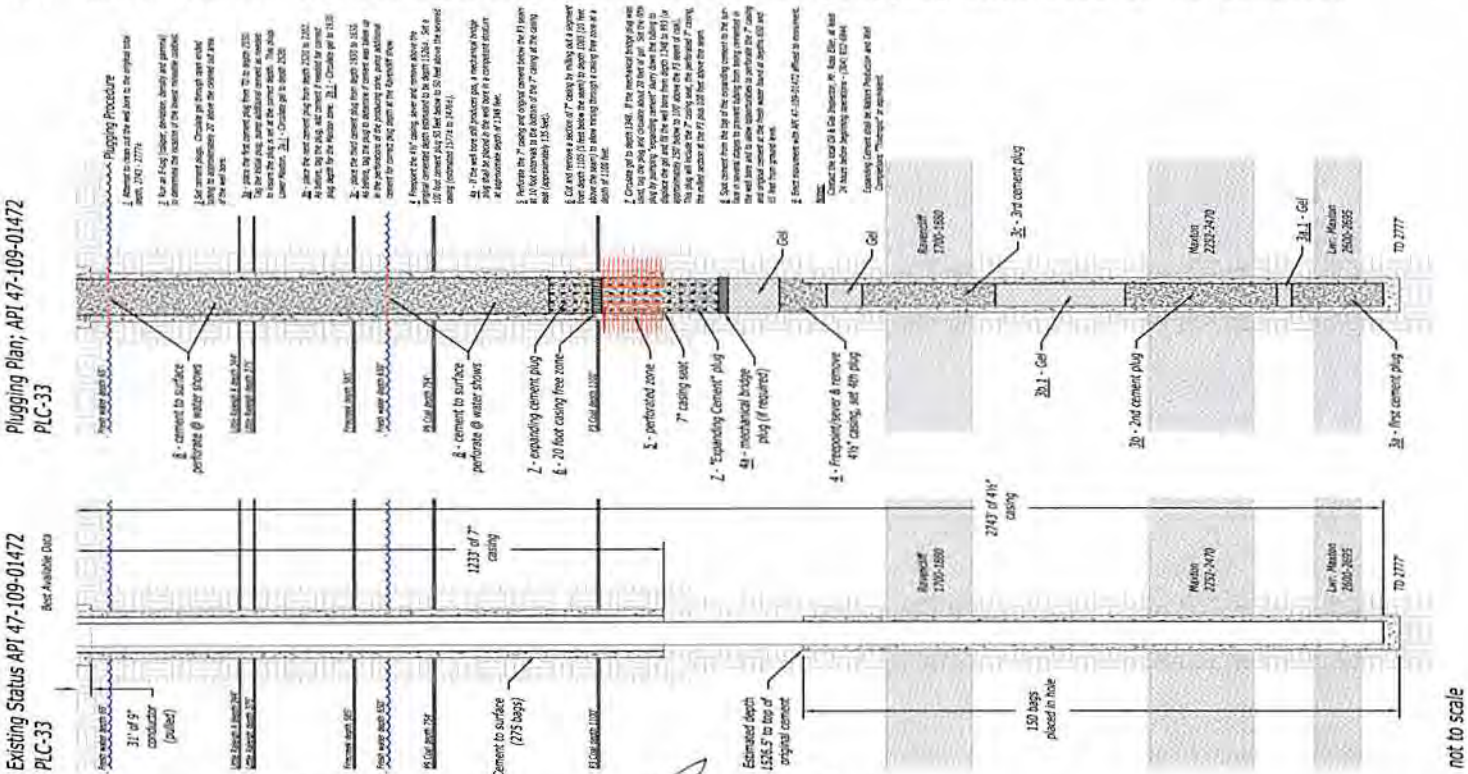
1) Date January 21, 2014
 2) Operator's
 Well No. PLC-33
 3) API Well No. 47-109-01472

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 X / Liquid injection / Waste disposal /
 (If "Gas, Production X or Underground storage) Deep / Shallow X
- 5) Location: Elevation 1835.66 Watershed Turkeywallow Branch of Indian Creek off Guyandotte River
 District Center County Wyoming Quadrangle Pineville 7 1/2' Series
03 109 549
- 6) Well Operator Hayden Harper Energy KA, LLC 7) Designated Agent Brett McDonough
 Address 1001 Moorehead Square Dr. - Suite 350 Address 1001 Moorehead Square Dr. - Suite 350
Charlotte, NC 28203 Charlotte, NC 28203
- 8) Oil and Gas Inspector to be notified Name Mr. Ross Eller
 Address 121 Brierhill Drive
Beckley, WV 25801
- 9) Plugging Contractor Name Patchwork Oil & Gas
 Address 8165 Elizabeth Pike
Elizabeth, WV 26143

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



See attachment for larger view of this plan.

Work order approved by inspector

[Handwritten Signature]

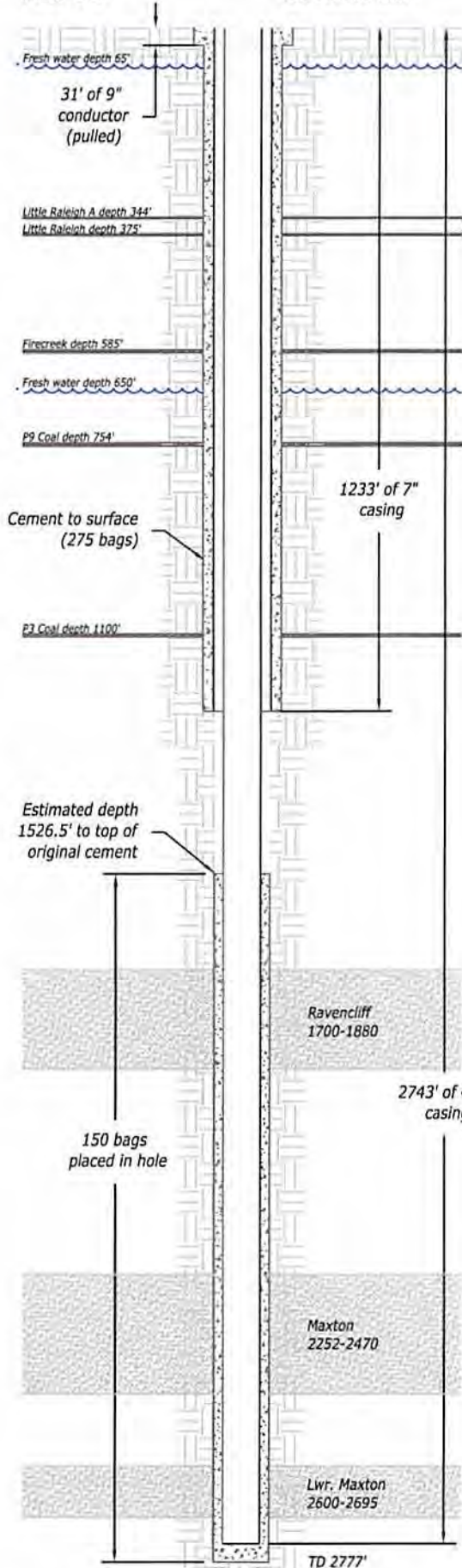
Date

4/9/14

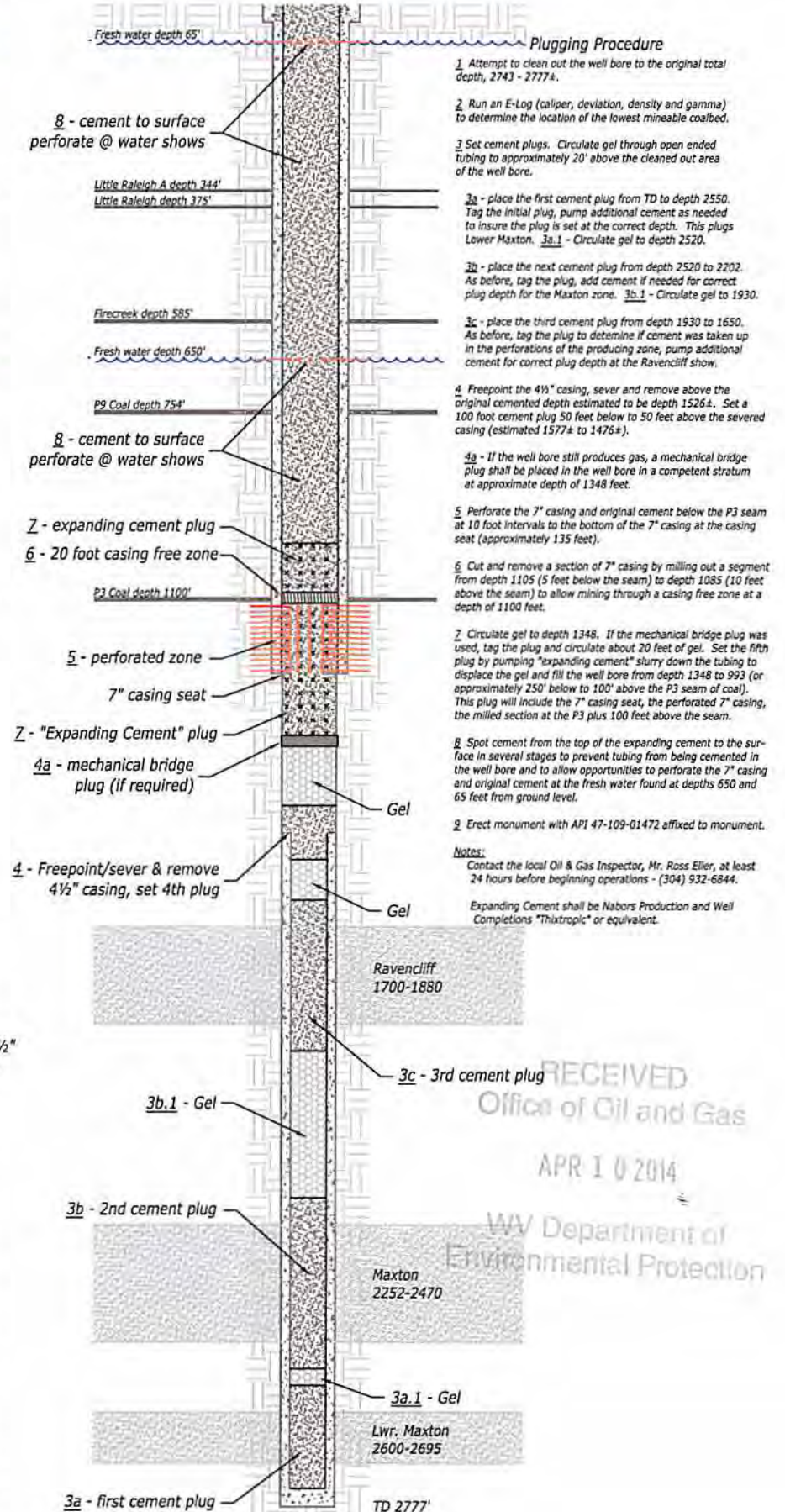
04/25/2014

Existing Status API 47-109-01472
PLC-33

Best Available Data



Plugging Plan; API 47-109-01472
PLC-33



Plugging Procedure

- 1 Attempt to clean out the well bore to the original total depth, 2743 - 2777±.
- 2 Run an E-Log (caliper, deviation, density and gamma) to determine the location of the lowest mineable coalbed.
- 3 Set cement plugs. Circulate gel through open ended tubing to approximately 20' above the cleaned out area of the well bore.
 - 3a - place the first cement plug from TD to depth 2550. Tag the initial plug, pump additional cement as needed to insure the plug is set at the correct depth. This plug Lower Maxton. 3a.1 - Circulate gel to depth 2520.
 - 3b - place the next cement plug from depth 2520 to 2202. As before, tag the plug, add cement if needed for correct plug depth for the Maxton zone. 3b.1 - Circulate gel to 1930.
 - 3c - place the third cement plug from depth 1930 to 1650. As before, tag the plug to determine if cement was taken up in the perforations of the producing zone, pump additional cement for correct plug depth at the Ravenclyff show.
- 4 Freepoint the 4 1/2" casing, sever and remove above the original cemented depth estimated to be depth 1526±. Set a 100 foot cement plug 50 feet below to 50 feet above the severed casing (estimated 1577± to 1476±).
 - 4a - If the well bore still produces gas, a mechanical bridge plug shall be placed in the well bore in a competent stratum at approximate depth of 1348 feet.
- 5 Perforate the 7" casing and original cement below the P3 seam at 10 foot intervals to the bottom of the 7" casing at the casing seat (approximately 135 feet).
- 6 Cut and remove a section of 7" casing by milling out a segment from depth 1105 (5 feet below the seam) to depth 1085 (10 feet above the seam) to allow mining through a casing free zone at a depth of 1100 feet.
- Z Circulate gel to depth 1348. If the mechanical bridge plug was used, tag the plug and circulate about 20 feet of gel. Set the fifth plug by pumping "expanding cement" slurry down the tubing to displace the gel and fill the well bore from depth 1348 to 993 (or approximately 250' below to 100' above the P3 seam of coal). This plug will include the 7" casing seat, the perforated 7" casing, the milled section at the P3 plus 100 feet above the seam.
- 8 Spot cement from the top of the expanding cement to the surface in several stages to prevent tubing from being cemented in the well bore and to allow opportunities to perforate the 7" casing and original cement at the fresh water found at depths 650 and 65 feet from ground level.
- 9 Erect monument with API 47-109-01472 affixed to monument.

Notes:

Contact the local Oil & Gas Inspector, Mr. Ross Eller, at least 24 hours before beginning operations - (304) 932-6844.

Expanding Cement shall be Nabors Production and Well Completions "Thixotropic" or equivalent.

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Office of Oil and Gas
APR 10 2014
WV Department of
Environmental Protection

WR-35

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WV Division of
Environmental Protection

NOV 23 1994

17-Oct-94
API # 47-109-01472

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

Well Operator's Report of Well Work

Permitting Office of Oil and Gas
Farm name of PLC #33 ANTAS LAND CORP. Operator Well No.: PLC #33

LOCATION: Elevation: 1,842.00 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 8390 Feet South of 37 Deg. 32Min. 30 Sec.
Longitude 3830 Feet West of 81 Deg. 35 Min. 0 Sec

Company: BOWIE, INC.
P.O. BOX 1430
CLARKSBURG, WV 26301-1430

Agent: GROVER BOWIE

Inspector: OFIE HELMICK
Permit Issued: 10/11/94
Well work Commenced: 10-13-94
Well work Completed: 10-18-94

Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 2777 DTD
Fresh water depths (ft) _____
65,650
Salt water depths (ft) _____

N/A
Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 342-44, 372-75, 580-85,
748-54

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
9 5/8	31'	--	--
7"	1233'	1233'	275sks
4 1/2"	2743'	2743'	150sks

OPEN FLOW DATA

Producing formation Lower macton, maxton Pay zone depth (ft) 2236-2690
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow _____ MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure _____ psig (surface pressure) after 24 Hours

Second producing formation U macton, Ravenscroft Pay zone depth (ft) 1793-2182
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow Commingled MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure Commingled psig (surface pressure) after 24 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.

For: BOWIE, INC.

By: W. C. Bowler
Date: 11-17-94

04/25/2014

WYO 1472

- I (2336-2690) 30 holes, 450sks sand, 750gal 15%HCL, 560bbl 75Q foam
 II (2163-2182) 20 holes, 300sks sand, 500gal 15%HCL, 400bbl 75Q foam
 III (1793-1842) 30 holes, 500sks sand, 750gal 15%HCL, 600bbl 75Q foam

SAND	0-35	
SAND & SHALE	35-342	1/8" @65'
COAL	342-344	
SAND	344-372	
COAL	372-375	
SAND	375-463	
SHALE	463-580	
COAL	580-585	
SAND	585-748	1/2" @650'
COAL	748-754	
SAND	754-985	
SAND & SHALE	985-1700	
RAVENCLIFF	1700-1880	GAS SHOW ✓
AVIS	1880-1930	
SHALE	1930-2135	
U. MAXTON	2135-2189	
SHALE	2189-2252	
MAXTON	2252-2470	GAS SHOW ✓
SHALE	2470-2600	
L. MAXTON	2600-2695	GAS SHOW ✓
SHALE	2695-2743	
L. LIME	2743-2777	DTD

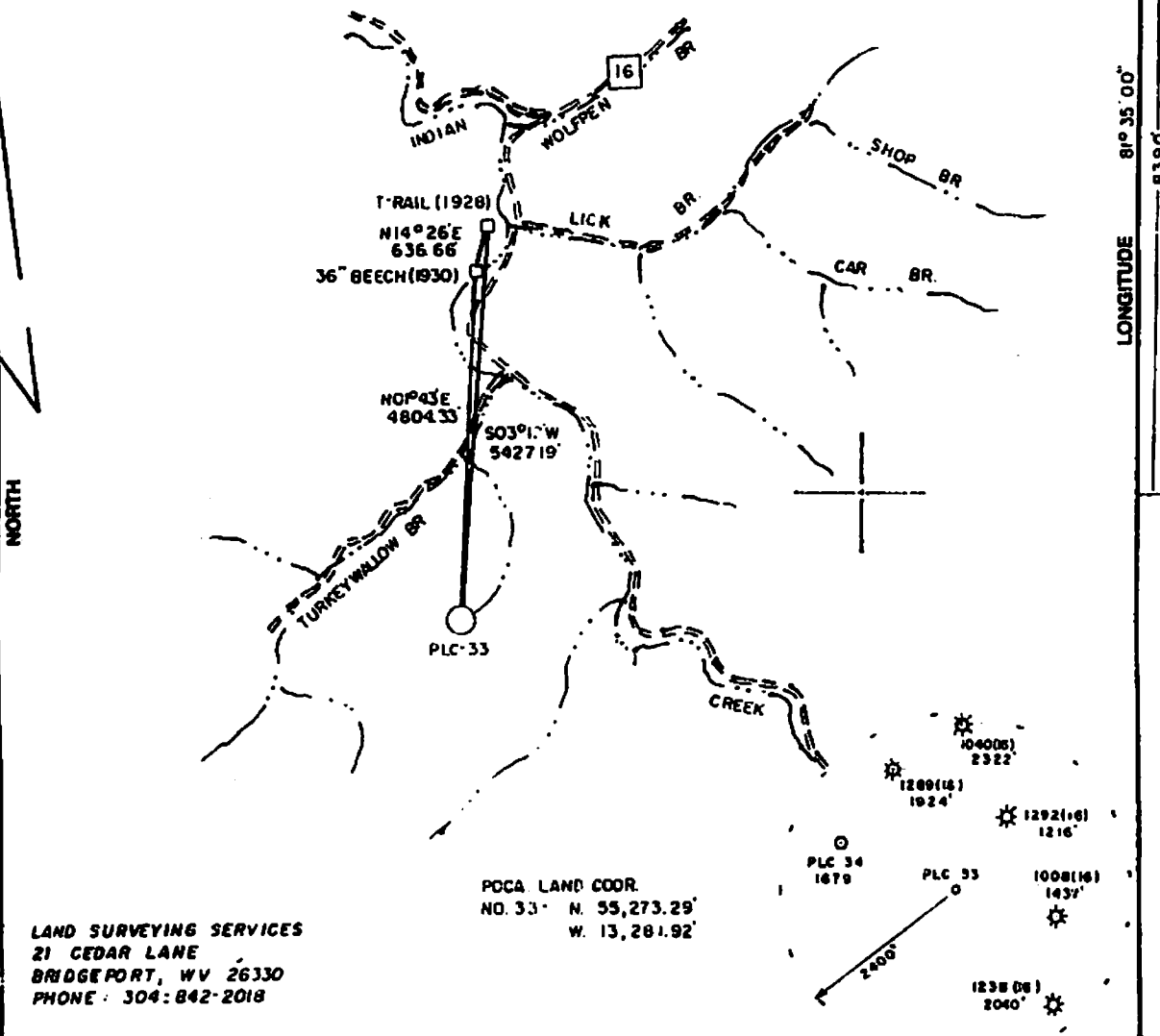
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Office of Oil and Gas

APR 19 2014

WV Department of
Environmental Protection

WELL REFERENCES
 S40°30'W, 119' TO 6" POPLAR
 N07°45'E, 132' TO 3" SOURWOOD

LATITUDE 37° 32' 34" 710901472
 3830'



LAND SURVEYING SERVICES
 21 CEDAR LANE
 BRIDGEPORT, WV 26330
 PHONE: 304-842-2018

POCA LAND COOR.
 NO. 33 N. 55,273.29'
 W. 13,281.92'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF
 ACCURACY 1 in 2500
 PROVEN SOURCE OF
 ELEVATION BM 5400 N. OF
 LOCATION ELEV. 1281

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF ENERGY.

(SIGNED) _____
 R.P.E. _____ I.L.S. 674
 STEPHEN D. LOSH

RECEIVED
 Land Gas

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE APRIL 25 19 94
 OPERATOR'S WELL NO. PLC NO. 33
 API WELL NO. _____

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1842' WATERSHED TURKEYWALLOW BRANCH
 DISTRICT CENTER COUNTY WYOMING
 QUADRANGLE PINEVILLE 7.5 mi.
 SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE 24980.40
 OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP. LEASE ACREAGE 10050.85
 LEASE NO. 96244

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 ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION MAXTON ESTIMATED DEPTH 2950'
 WELL OPERATOR BOWIE, INC. DESIGNATED AGENT WILLIAM BOWIE
 ADDRESS P.O. BOX 1430 ADDRESS P.O. BOX 1430
 CLARKSBURG, WV 26302-1430 CLARKSBURG, WV 26302-1430

0618
 LONGITUDE 00 56 08
 COUNTY NAME WYO
 PERMIT 1472

APR 1 2014
 Department of Environmental Protection

04/25/2014

WW-4A
Revised 6-07

1) Date: January 21, 2014
2) Operator's Well Number PLC-33
3) API Well No.: 47 - 109 - 01472

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

4) Surface Owner(s) to be served:	✓ 5) (a) Coal Operator
(a) Name <u>Pinnacle Land Company, LLC</u>	Name <u>Pinnacle Mining Company, LLC</u>
Address <u>P.O. Box 338</u>	Address <u>P.O. Box 338</u>
<u>Pineville, WV 24874</u>	<u>Pineville, WV 24874</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>WPP LLC</u>
	Address <u>5620 Irwin Road</u>
	<u>Huntington, WV 25705</u>
(c) Name _____	(c) Coal Lessee(s) with Declaration
Address _____	Name <u>Pinnacle Mining Company, LLC</u>
	Address <u>P.O. Box 338</u>
	<u>Pineville, WV 24874</u>
6) Inspector <u>Ross Eller</u>	Name <u>Mechel Bluestone Inc.</u>
Address <u>121 Brierhill Drive</u>	Address <u>P.O. Box 1085</u>
<u>Beckley, WV 25801</u>	<u>Beckley, WV 25802</u>
Telephone <u>(304) 932-6844</u>	

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.

Well Operator Hayden Harper Energy KA, LLC
 By: Brett McDonough
 Its: Vice President
 Address 1001 Moorehead Square Drive - Suite 350
Charlotte, NC 28203
 Telephone 704-343-2447

Subscribed and sworn before me this 25th day of MARCH 2014
Sherril Palmer
 My Commission Expires 9-21-18

Sherril Palmer
 Notary Public
 Mecklenburg County
 North Carolina
 My Commission Expires 9-21-18

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 depprivacyofficer@wv.gov.

10901472P

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

WPP LLC
5620 Irwin Road
Huntington, WV 25705

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Aminda Boops* Agent Addressee

B. Received by (Printed Name) *Aminda Boops* C. Date of Delivery *3-28-14*

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
(Transfer from service label) **7007 0710 0003 9518 2253**

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-15

PS Form 3811

Street, Apt. No. or PO Box No. **5620 Irwin Road**
City, State, ZIP **Huntington, WV 25705**

Sent to **WPP LLC**

Total Postage & Fees \$ **7.11**

Postage	\$ 1.11
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	

Postmark: **MAR 27 2014**

OFFICIAL USE

(Domestic Mail Only - No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Michel Bluestone, Inc.
P. O. Box 1085
Beckley, WV 25802

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Jane Bluestone* Agent Addressee

B. Received by (Printed Name) *Jane Bluestone* C. Date of Delivery *3/27/14*

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
(Transfer from service label) **7007 0710 0003 9518 2246**

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PS Form 3811

Street, Apt. No. or PO Box No. **P. O. Box 1085**
City, State, ZIP **Beckley, WV 25802**

Sent to **Michel Bluestone, Inc.**

Total Postage & Fees \$ **7.11**

Postage	\$ 1.11
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	

Postmark: **MAR 27 2014**

OFFICIAL USE

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For delivery information visit our website at www.usps.com

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Pinnacle Mining Company
P. O. Box 338
Pineville, WV 24874

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Denise Cook* Agent Addressee

B. Received by (Printed Name) *Denise Cook* C. Date of Delivery *3/31/14*

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
(Transfer from service label) **7007 0710 0003 9518 2246**

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PS Form 3811

Street, Apt. No. or PO Box No. **P. O. Box 338**
City, State, ZIP **Pineville, WV 24874**

Sent to **Pinnacle Mining Company**

Total Postage & Fees \$ **7.11**

Postage	\$ 1.11
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	

Postmark: **MAR 27 2014**

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Pinnacle Land Company
P. O. Box 338
Pineville, WV 24874

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Denise Cook* Agent Addressee

B. Received by (Printed Name) *Denise Cook* C. Date of Delivery *3/31/14*

D. Is delivery address different from item 1? Yes No
If YES, enter delivery address below:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number
(Transfer from service label) **7007 0710 0003 9518 2277**

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PS Form 3811

Street, Apt. No. or PO Box No. **P. O. Box 338**
City, State, ZIP **Pineville, WV 24874**

Sent to **Pinnacle Land Company**

Total Postage & Fees \$ **7.11**

Postage	\$ 1.11
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	

Postmark: **MAR 27 2014**

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For delivery information visit our website at www.usps.com

04/25/2014

WW-9
(5/13)

Page _____ of _____
API Number 47 - 109 - 01472
Operator's Well No. PLC-33

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Hayden Harper Energy KA, LLC OP Code 494495359

Watershed (HUC 10) 0507010103 Turkeywallow Br. of Indian Creek Quadrangle Pineville 7 1/2' Series

Elevation 1835.66 County Wyoming District Center

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

Will a pit be used for drill cuttings? Yes X No _____

If so, please describe anticipated pit waste: fluids, steel cuttings & other materials associated with well plugging operations.

Will a synthetic liner be used in the pit? Yes X 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? yes N/A

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. n/a

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? _____

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

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Office of Oil and Gas
APR 10 2014

WV Department of Environmental Protection

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 [Signature]

Company Official (Typed Name) Michael Fox

Company Official Title CFO

Subscribed and sworn before me this 20th day of MARCH, 2014

[Signature] Notary Public

My commission expires 9.21.18

Notary Public
Sherri Palmer
Notary Public
Mecklenburg County
North Carolina
My Commission Expires 04/25/2014

Hayden Harper Energy KA, LLC

Proposed Revegetation Treatment: Acres Disturbed 2.27 Prevegetation pH 6.67

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

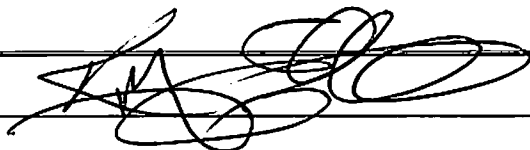
Mulch pulp fiber at 1/2 - 3/4 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II 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.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

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Office of Oil and Gas

APR 10 2014

WV Department of
Environmental Protection

Title: WV DEP D&D I-100 Date: 4/9/14

Field Reviewed? Yes No

Hayden Harper Energy KA, LLC
Well No. PLC-33

TOPO SECTION OF:
United States Department of the Interior
Geological Survey - Pineville, WV - 7 1/2' Quadrangle

PROPOSED CULVERT INVENTORY
(For Bid Purposes Only)












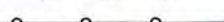





15" (Minimum) Culverts All pre-existing

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.

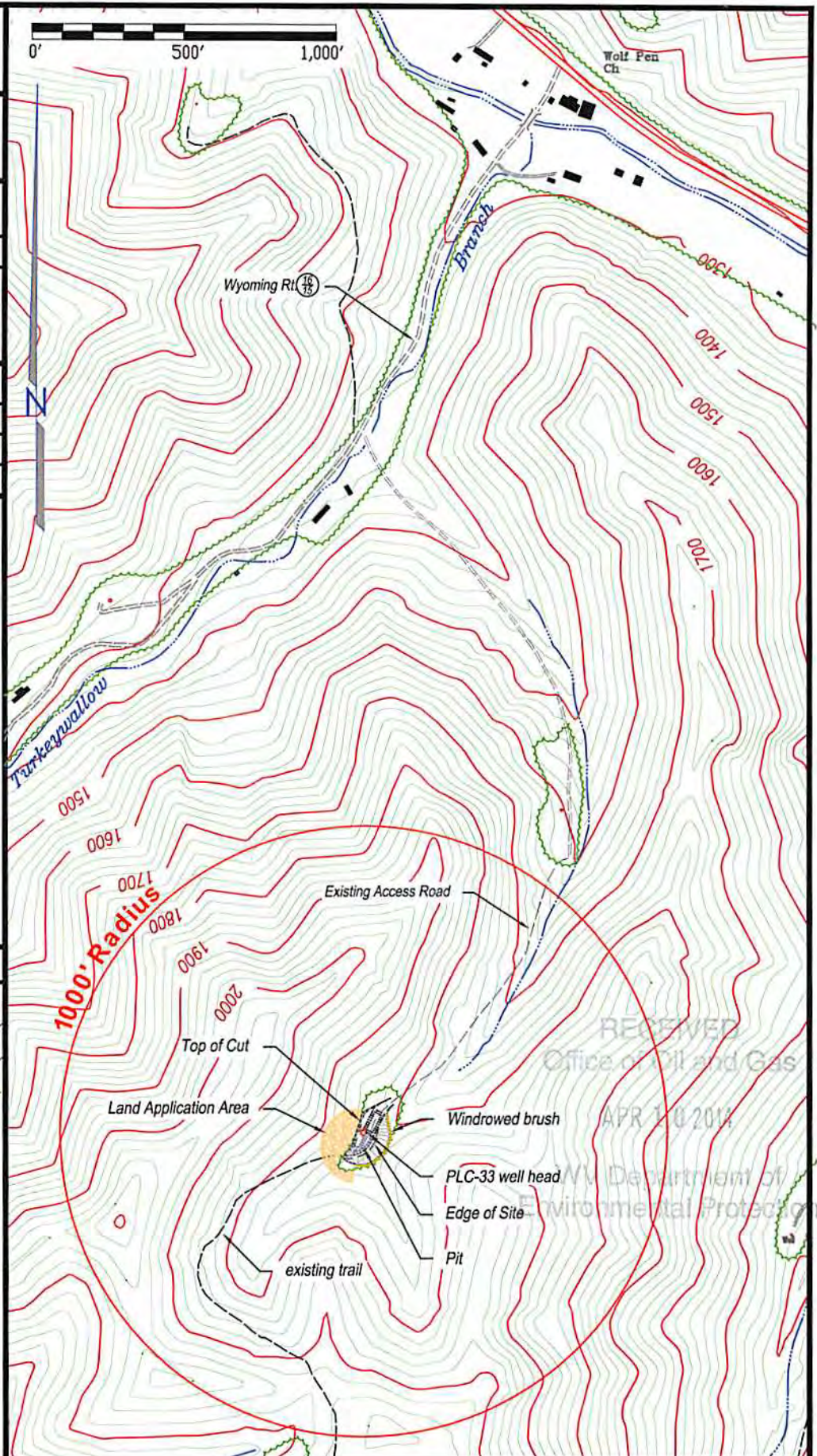
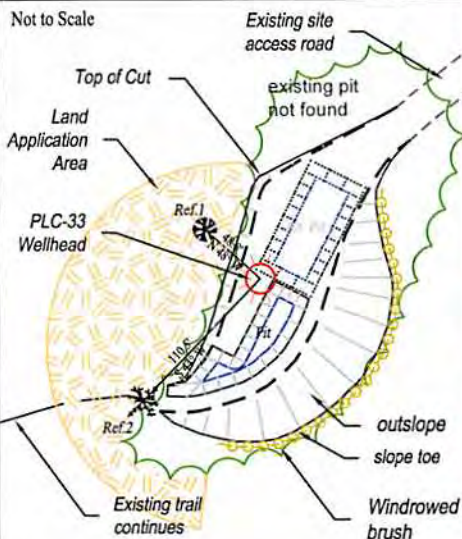
PROJECTED EARTHEN DISTURBANCE

Well Location Site	0.45 Acres
Access Road	1.82 Acres
Approximate Total Disturbance	2.27 Acres

LEGEND

- Proposed Road 
- Existing Road 
- Existing Culvert 
- Proposed Culvert (12" Min. unless noted) 
- Proposed Stream Crossing 
- Cross Drain 
- Straw Bales 
- Silt Fence 
- Brush Barrier 
- Tree Line 
- Road Ditch 
- Gas Line 
- Fence Line 
- Water Well 
- House/Structure 
- Spring 
- Wet Spot 

Detail Sketch for Existing Well PLC-33



WW-7
8-30-06



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

API: 47-109-01472 WELL NO.: PLC-33
 FARM NAME: Pocahontas Land Corp.
 RESPONSIBLE PARTY NAME: Hayden Harper Energy KA, LLC
 COUNTY: Wyoming DISTRICT: Center
 QUADRANGLE: Pineville WV 7½' Series
 SURFACE OWNER: Pinnacle Land Company, LLC
 ROYALTY OWNER: Pinnacle Land Company, LLC
 UTM GPS NORTHING: 4152569.65
 UTM GPS EASTING: 447287.95 GPS ELEVATION: 559.35

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS XX: Post Processed Differential XX

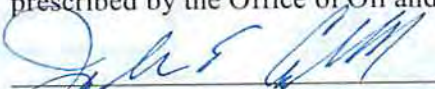
Real-Time Differential _____

Mapping Grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

- 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.


Signature

PS 1065

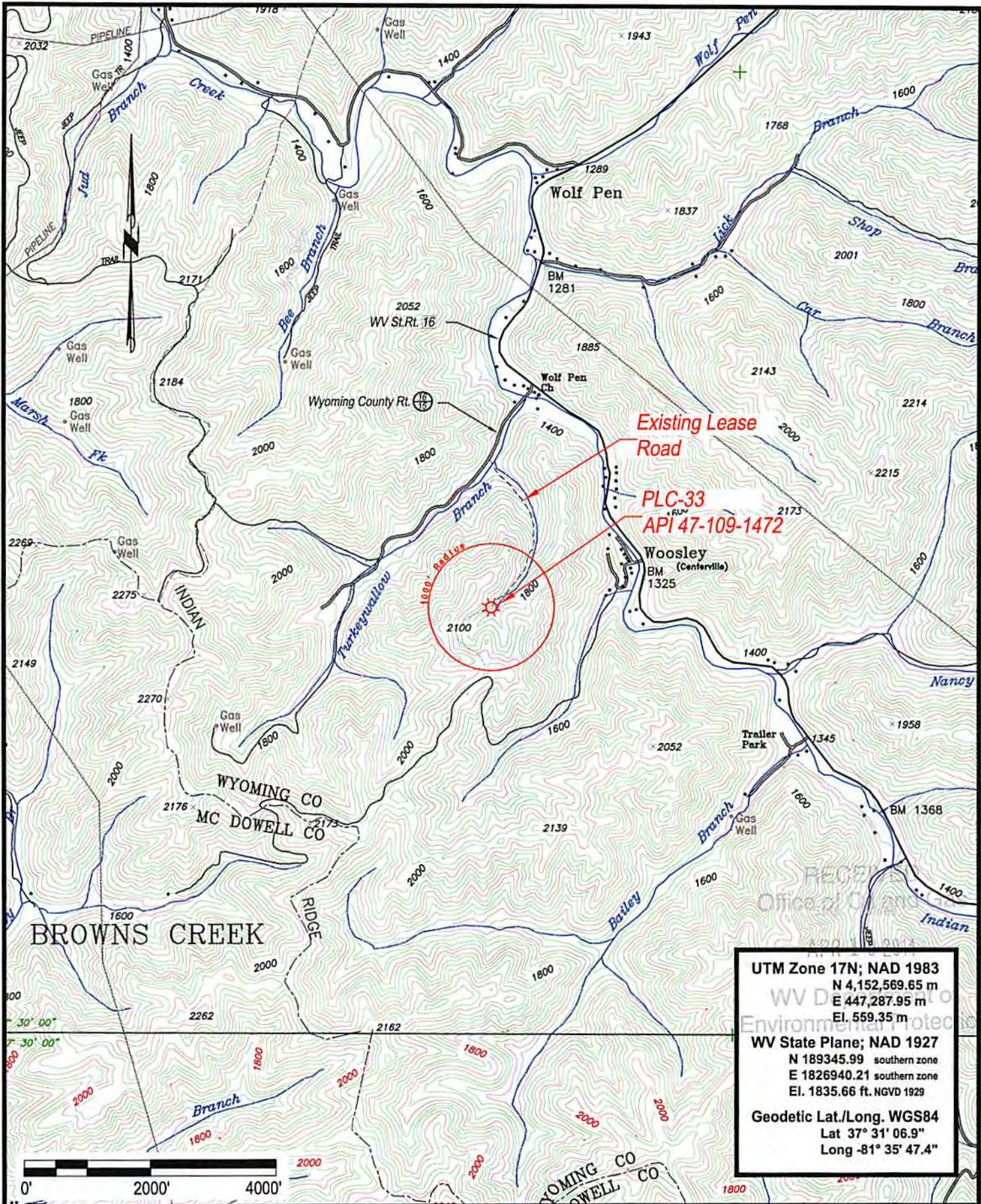
Title

1/31/19 3093
Date

RECEIVED
Office of Oil and Gas
APR 10 2014
WV Department of
Environmental Protection



04/25/2014



Existing Lease Road

PLC-33
API 47-109-1472

UTM Zone 17N; NAD 1983
 N 4,152,569.65 m
 E 447,287.95 m
 El. 559.35 m

WV State Plane; NAD 1927
 N 189345.99 southern zone
 E 1826940.21 southern zone
 El. 1835.66 ft. NGVD 1929

Geodetic Lat./Long. WGS84
 Lat 37° 31' 06.9"
 Long -81° 35' 47.4"



**HAYDEN
HARPER**

PLC-33

API 47-109-01472
 Located near Centerville in Center District of Wyoming County, West Virginia

January 21, 2014
 04/25/2014