



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

December 10, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10901464, 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 31
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-10901464
Permit Type: Plugging
Date Issued: 12/10/2014

Promoting a healthy environment.

12/12/14

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.

109 01464P

WW-4B
Rev. 2/01

1) Date AUGUST 22, 2014
2) Operator's
Well No. PLC 31
3) API Well No. 47-100 - 01464

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 ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1680' Watershed INDIAN CREEK
District CENTER County WYOMING Quadrangle PINEVILLE 7.5

6) Well Operator HAYDEN HARPER ENERGY KA, LLC 7) Designated Agent BRETT MCDONOUGH
Address 1001 MOOREHEAD SQ. DR. STE 350 Address 1001 MOOREHEAD SQ. DR. STE 350
CHARLOTTE, NC 28203 CHARLOTTE, NC 28203

8) Oil and Gas Inspector to be notified
- Gary Kennedy
PO Box 268
Nimitz, WV 25978

9) Plugging Contractor
Name PATCHWORK OIL & GAS, LLC
Address 8165 ELIZABETH PIKE
ELIZABETH, WV 26143

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

Plugging schematic and procedure on next page.

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Environmental Protection

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

Work order approved by inspector Gary Kennedy Date 10/31/14

12/12/14

PLC #31
47-109-01464

PROPOSED PLUGGING PROCEDURE

1. Prepare plugging permit application.
2. Certify to surface and coal owners.
3. Certify to designated State inspector for signature.
4. Once all signatures are obtained, copy for our records and certify to Jeff at the State Office for approval.
5. Receive plugging permit good for 2 years.
6. Notify the designated State inspector 24 hours prior to commencing operations.
7. Take equipment to location and begin prepping for plug.
8. Rig up
9. Verify total depth of 2591'
10. Run tubing to bottom of 4 1/2 at 2533'. Set first plug with 35 sacks of Class A cement with no more than 3% CaCl2 and no other additives from 2533' up to 2038'. (Bottom, Pay zone)
11. Pull tubing back, wait 8 hours
12. Run in and tag plug.
13. Run 1 sack of 6% Bentonite gel from 2038' up to 1750'.
14. Based on cement fill up 4 1/2 free point should be at 1700', rip and remove 1700' of 4 1/2. Run back in to 1750' for second plug, run 39 sacks of Class A cement with no more than 3% CaCl2 and no other additives from 1750' up to 1507' (This covers pay zone, elevation, and rip)
15. Pull tubing back, wait 8 hours
16. Run in and tag plug.
17. Run 5 sacks of 6% Bentonite gel from 1507' up to 962'
18. Pull tubing back to 962'. Set third plug with 20 sacks of Class A cement with no more than 3% CaCl2 and no other additives from 962' up to 855'. (Coal seam)

UP INTO 7"

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19. Pull tubing back, wait 8 hours

20. Run in and tag plug

7" APPEARS TO BE CTS, IF SO DO NOT RIP 7" CASING TO 1056' (7" CASING SHOE)

21. Based on records will attempt to rip 7" above 855', set 100' plug as necessary with Class A cement with no more than 3% CaCl2 and no other additives.

22. Run 2 sacks of 6% Bentonite gel from 855' up to 667'

20. Pull tubing back to 667' to set 4th plug and run 19 sacks of Class A cement with no more than 3% CaCl2 and no other additives from 667' up to 564' (Coal seam)

21. Pull tubing back, wait 8 hours.

22. Run in and tag plug.

23. Run 2 sacks of 6% Bentonite gel from 564' up to 300.'

24. Pull tubing back to 300' to set 5th plug and run 65 sacks of Class A cement with no more than 3% CaCl2 and no other additives from 300' up to surface. (Surface, Coal seam, water)

25. Solidify pit if necessary with more cement and lime, then bury.

26. Set 6" x 12.5" steel pipe with concrete with 1/2" API identification.

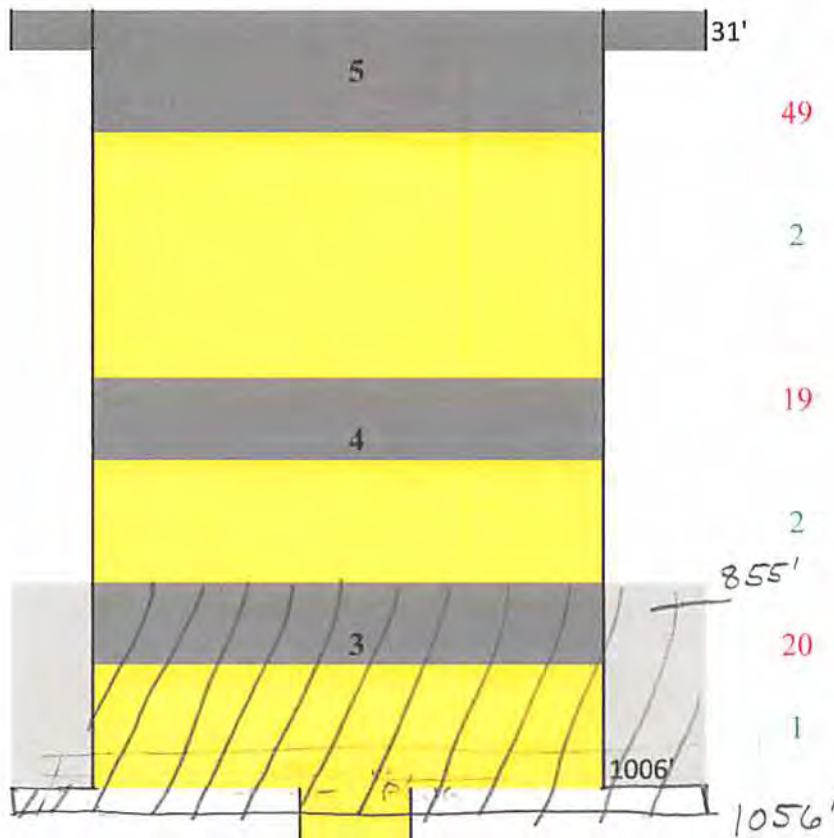
27. Rig down, and move equipment out.

28. Reclaim location

29. Prepare WR-34 & WR-38 for permit release.

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50lb sacks of 6% gel used
100lb sacks of cement

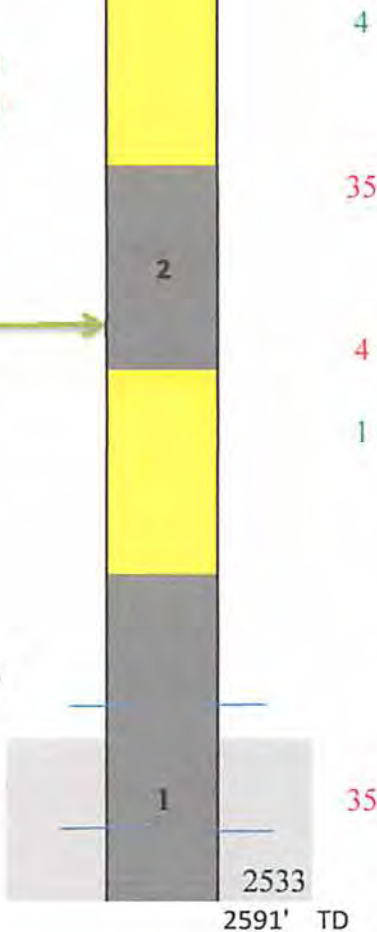
10
168

Attempt Casing Rip at 1700'
Elevation 1680'

Pay Zone at 1557-1628

Pay Zone at 2088-2250

: Cement
 : Gel
 : Bridge Plug (if any)



4
35
4
1

Cement plugs are at a minimum of 100'
Class A Cement with no more than 3%
CaCl2 and no other additives.

Gel spacers between all cement plugs
must be fresh water with at least 6%
Bentonite by weight

JK

Plugs	
Plug #5 Surface-300'	Surface, Coal, water
Plug #4 564-667	Coal
Plug #3 855-962 1056'	Coal & 7" casing shoe
Plug #2 1507-1750	Pay, Elevation, rip
Plug #1 2038-2533	Pay & bottom hole

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JAN 23 1995

16-Aug-94
API # 47-109-01464

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

Well Operator's Report of Well Work

Permitting
Office of Oil & Gas

Farm name: POCAHONTAS LAND CORP. Operator Well No.: PLC #31

LOCATION: Elevation: 1,680.00 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 7600 Feet South of 37 Deg. 32Min. 30 Sec.
Longitude 620 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: 08/10/94
Well work Commenced: 11-3-94
Well work Completed: 11-8-94
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 2591 DTD
Fresh water depths (ft) _____
231, 260
Salt water depths (ft) _____
N/A
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): 115-20,542-48,614-17,
905-12

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
9 5/8"	31'	31'	—
7"	1006'	1006'	170aks
4 1/2"	2533'	2533'	140aks

CT9
UP INTO 7"

OPEN FLOW DATA

Producing formation Maxton, Ravencliff Pay zone depth (ft) 1857-2250
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A
Final open flow 115 MCF/d Final open flow N/A
Time of open flow between initial and final tests 12 hours
Static rock Pressure 210 psig (surface pressure) after _____ hours
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____
Final open flow _____ MCF/d Final open flow _____
Time of open flow between initial and final tests _____ hours
Static rock Pressure _____ psig (surface pressure) after _____ hours

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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: Clare Bowrie
Date: 1-18-95

12/12/14

I (2209-2250) 20 holes, 500 gal 15% HCL, 400 sks sand, 560 bbl 75 qn2 foam	
II (2088-2193) 20 holes, 500 gal 15% HCL, 300 sks sand, 500 bbl 75 qn2 foam	
III (1557-1628) 30 holes, 750 gal 15% HCL, 450 sks sand, 640 bbl 75 qn2 foam	
SAND & SHALE	0-115
COAL	115-120
SAND	120-260
SAND & SHALE	260-398
SAND	398-485
SAND & SHALE	485-542
COAL	542-548
SHALE	548-614
COAL	614-817
SAND	617-905
COAL	905-912
SAND & SHALE	912-1530
RAVENCLIFF	1530-1630
AVIS	1630-1690
SHALE	1690-1990
U. MAXTON	1990-2058
SHALE & SAND	2058-2075
MAXTON	2075-2275
SAND & SHALE	2275-2424
SHALE	2424-2568
L. LIME	2568-2591

DAMPE 231', 1/4" H2O C 260

GAS SHOW

GAS SHOW

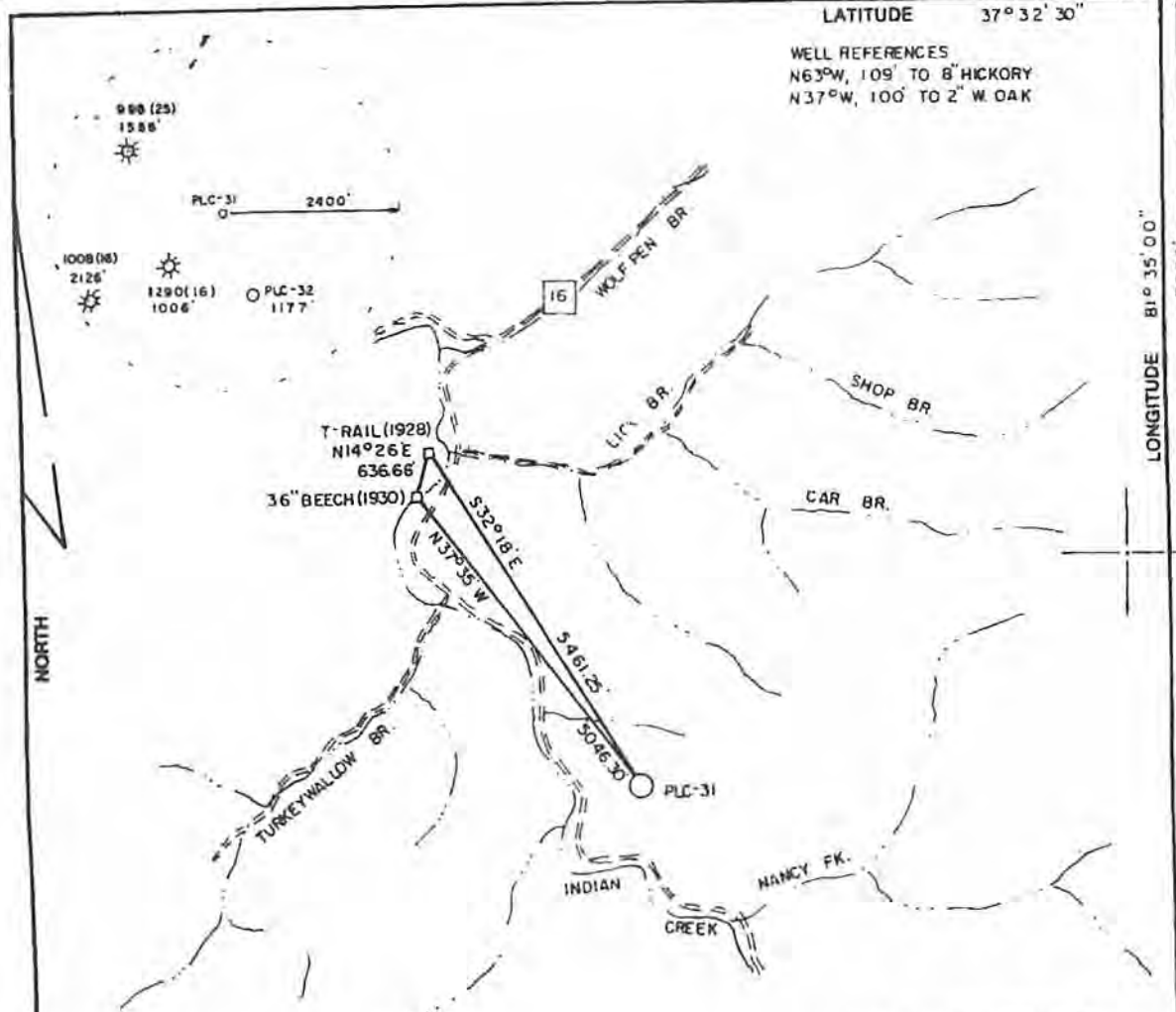
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[Handwritten signature]



LATITUDE 37° 32' 30"
 WELL REFERENCES
 N63°W, 109' TO 8" HICKORY
 N37°W, 100' TO 2" W OAK

POCA. LAND COOR.
 PLC-31 N. 56,075.83'
 W 10,060.74'

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

(+) 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 5100' N.W. 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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) _____
 R.P.E. _____ I.L.S. 674
 STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JUNE 01, 19 94
 OPERATOR'S WELL NO. PLC-31
 API WELL NO. 47-109

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WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1580' WATERSHED INDIAN CREEK
 DISTRICT CENTER COUNTY WYOMING
 QUADRANGLE PINEVILLE 7.5 min.
 SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE _____
 OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP. LEASE ACREAGE 10050.85
 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 CLEAN OUT AND REPLUG
 TARGET FORMATION MAXTON ESTIMATED DEPTH 2750'
 WELL OPERATOR BOWIE, INC. DESIGNATED AGENT WILLIAM BOWIE
 ADDRESS P.O. BOX 1430 ADDRESS P.O. BOX M30
 CLARKSBURG, WV 26302-1430 CLARKSBURG, WV 26302-M30

10901464P

WW-4A
Revised 6-07

1) Date: AUGUST 22, 2014
2) Operator's Well Number
PLC 31
3) API Well No.: 47 - 109 - 01464

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</u>	Name <u>PINNACLE LAND COMPANY</u>
Address <u>PO BOX 446</u>	Address <u>PO BOX 446</u>
<u>MAN, WV 25635</u>	<u>MAN, WV 25635</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>NRP, WPP LLC</u>
	Address <u>5260 IRWIN RD.</u>
	<u>HUNTINGTON, WV 25705</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Gary Kennedy</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 268</u>	Name <u>PINNACLE LAND COMPANY & MECHEL BLUESTONE</u>
<u>Nimitz, WV 25978</u>	Address <u>PO BOX 446</u> <u>PO BOX 1085</u>
Telephone <u>304-392-8402</u>	<u>MAN, WV 25635</u> <u>BECKLEY, WV 25802</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: ERIC P LINN
 Its: VICE PRESIDENT
 Address 1001 MOREHEAD SQ DRIVE, SUITE 350
CHARLOTTE, NC 28203
 Telephone 704-343-2447

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COMMONWEALTH OF PENNSYLVANIA
 Notarial Seal
 Lynne M. Coogle, Notary Public
 City of Pittsburgh, Allegheny County
 My Commission Expires March 18, 2016
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

WV Department of
Environmental Protection

Subscribed and sworn before me this 5th day of September 2014
Lynne M Coogle Notary Public
 My Commission Expires March 18, 2016

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.

12/12/14

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 	Signature <input checked="" type="checkbox"/> Addressee <input type="checkbox"/> Agent	
	B. Received by (Printed Name) Scherl Campbell	C. Date of Delivery 9/22/14
1. Article Addressed to: Mechel Bluestone PO Box 1085 Beckley, WV 25802	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.		
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes		
2. Article Number (Transfer from service label) <u>7014 0510 0001 8220 1527</u>		
PS Form 3811, February 2004	Domestic Return Receipt	102595-02-M-1541

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 	A. Signature <input checked="" type="checkbox"/> Addressee <input type="checkbox"/> Agent	
	B. Received by (Printed Name) Lesa Holker	C. Date of Delivery 9/22/14
1. Article Addressed to: Pinnacle Land PO Box 446 Man, WV 25635	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.		
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes		
2. Article Number (Transfer from service label) <u>7014 0510 0001 8220 1503</u>		
PS Form 3811, February 2004	Domestic Return Receipt	102595-02-M-1540

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 	A. Signature <input checked="" type="checkbox"/> Addressee <input type="checkbox"/> Agent	
	B. Received by (Printed Name) Amanda Bross	C. Date of Delivery 9/22/14
1. Article Addressed to: NPP, WPP, LLC 5260 Irwin Rd. Huntington, WV 25705	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.		
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes		
2. Article Number (Transfer from service label) <u>7014 0510 0001 8220 1510</u>		
PS Form 3811, February 2004	Domestic Return Receipt	102595-02-M-1540

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WW-9
Rev. 5/08

Page 1 of 1
API Number 47 - 109 - 01464
Operator's Well No. PLC 31

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

✓ 7180
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CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name HAYDEN HARPER ENERGY KA, LLC OP Code 494495359

Watershed INDIAN CREEK Quadrangle PINEVILLE 7.5

Elevation 1680' County WYOMING District CENTER

Description of anticipated Pit Waste: FLUIDS AND OTHER MATERIALS ASSOCIATED WITH PLUGGING

Will a synthetic liner be used in the pit? YES 20ML *[Signature]*

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 _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 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) ERIC P LINN
Company Official Title VICE PRESIDENT

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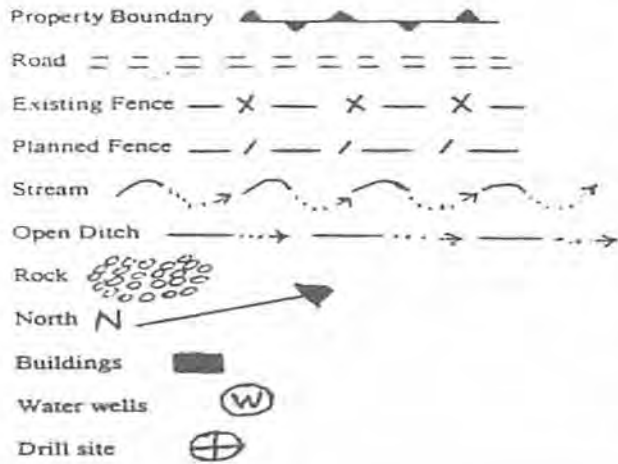
Subscribed and sworn before me this 5th day of September, 2014

[Signature] Notary Public

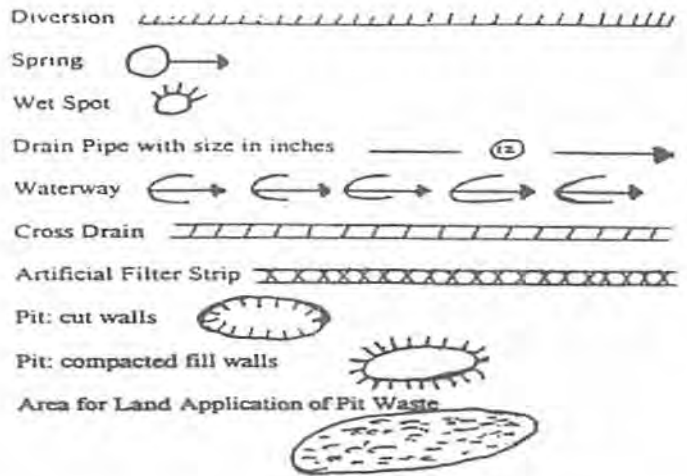
My commission expires March 18, 2016

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Lynne M. Coogle, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires March 18, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

12/12/14



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 3.2 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 STRAW Tons/acre

Seed Mixtures

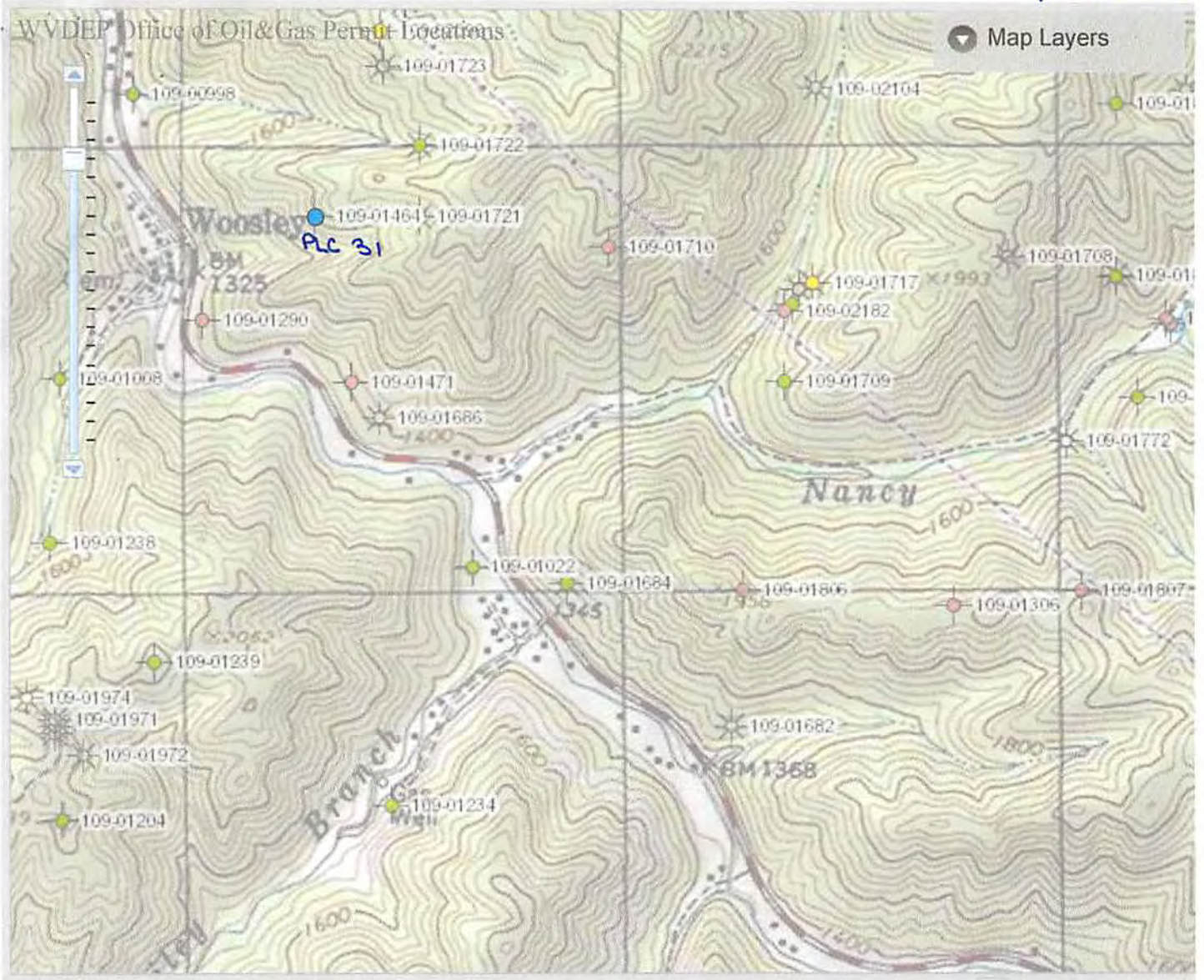
Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
TALL FESCUE	40	"	
LADINO CLOVER	5	"	

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Attach:
 Drawing(s) of road, location, pit and proposed area for land application.
 Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *John Kennedy*
 Comments: _____

Title: *Inspactor* Date: *10/31/14*
 Field Reviewed? () Yes () No



PLC 31 47-109-01464

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109 01464P

WW-7
8-30-06



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

API: 47-109-01464 WELL NO.: PLC 31
FARM NAME: POCAHONATAS LAND CORP.
RESPONSIBLE PARTY NAME: HAYDEN HARPER ENERGY KA, LLC
COUNTY: WYOMING DISTRICT: CENTER
QUADRANGLE: PINEVILLE 7.5
SURFACE OWNER: PINNACLE LAND COMPANY
ROYALTY OWNER: PINNACLE LAND COMPANY
UTM GPS NORTHING: 4152835.8
UTM GPS EASTING: 448307.5 GPS ELEVATION: 1680'

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 ____ : Post Processed Differential
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.

Signature

OFFICE MANAGER
Title

AUGUST 22, 2014
Date

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Office of Oil and Gas
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West Virginia Department of
Environmental Protection

12/12/14

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Patchwork Oil & Gas, LLC

8165 Elizabeth Pike
Elizabeth, WV 26143
304-275-4446 Office/Fax
patchworkoilgas@yahoo.com

Department of Environmental Protection
Office of Oil & Gas
601 57th St.
Charleston, WV 25304

November 5th, 2014

Re: Permit Applications

To whom it may concern,

Enclosed are seven permits that I have prepared for Hayden & Harper Energy KA, LLC. I have enclosed a check in the amount of \$700.00 for the pit fees.

If you have any questions you can contact me Monday-Friday 8:30-4:00.

Sincerely,

Jessica Lott

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Environmental Protection**

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