



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: 47-10901471, 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 32
Farm Name: POCAHONTAS LAND CORP.
API Well Number: 47-10901471
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.

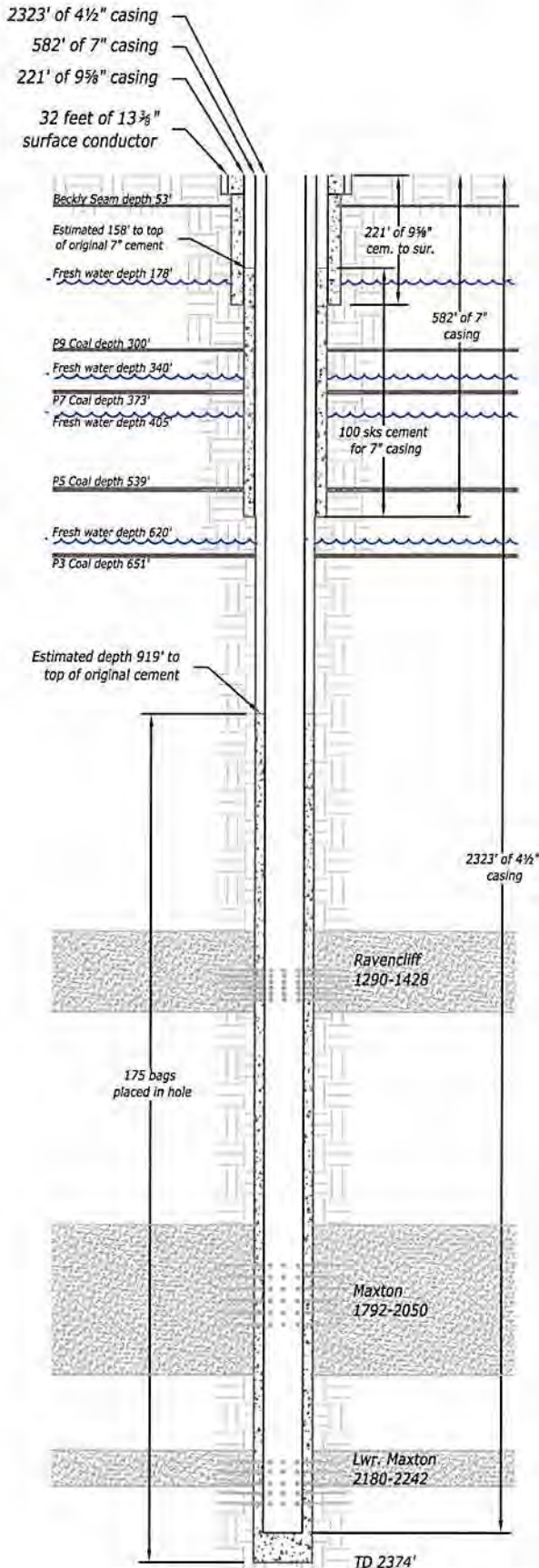
CONDITIONS

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.

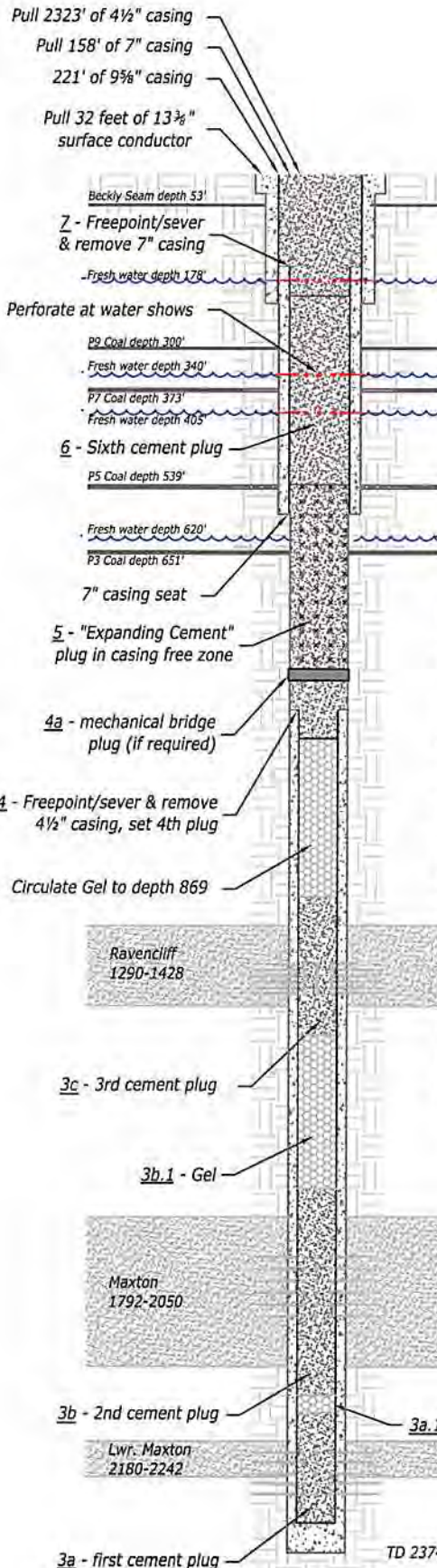
Existing Status API 47-109-01471
PLC-32

Best Available Data

Plugging Plan; API 47-109-01471
PLC-31



not to scale



not to scale

Plugging Procedure

- 1 Attempt to clean out the well bore to the original total depth, 2323 - 2374±.
 - 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 2130. Tag the initial plug, pump additional cement as needed to insure the plug is set at the correct depth. This plugs Lower Maxton. 3a.1 - Circulate gel to depth 2100.
 - 3b - place the next cement plug from depth 2100 to 1742. As before, tag the plug, add cement if needed for correct plug depth for the Maxton zone. 3b.1 - Circulate gel to 1478.
 - 3c - place the third cement plug from depth 1478 to 1240. 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 Ravencliff show.
 - 4 Freepoint the 4 1/2" casing, sever and remove above the original cemented depth estimated to be 919'±. Circulate gel to depth 969 or 50' below the severed casing. Set a 100 foot cement plug centered on the severed casing (estimated 869± to 969±).
 - 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 865 feet.
 - 5 Circulate gel to depth 869. If the mechanical bridge plug was used, tag the plug otherwise tag the 4th 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 869 to 532 (or approximately 218' below to 114' above the P3 seam of coal). This plug will include the 7" casing seat at depth 582, the water show at depth 620, and the P3 seam of coal.
 - 6 Spot cement from the top of the expanding cement to depth 208' 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 405 and 340 feet from ground level.
 - 7 Freepoint the 7" casing, sever and remove above the original cemented depth estimated to be 158'±. Circulate about 20 feet of gel. Perforate the 7" casing and original cement at depth 178 at the water show. Tag the cement and continue the plug to the surface, taking in the water show and the 7" casing seat at depth 158.
 - 8 Attempt to pull 32' of 13 3/8" casing and cement to surface.
 - 9 Erect monument with API 47-109-01471 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.

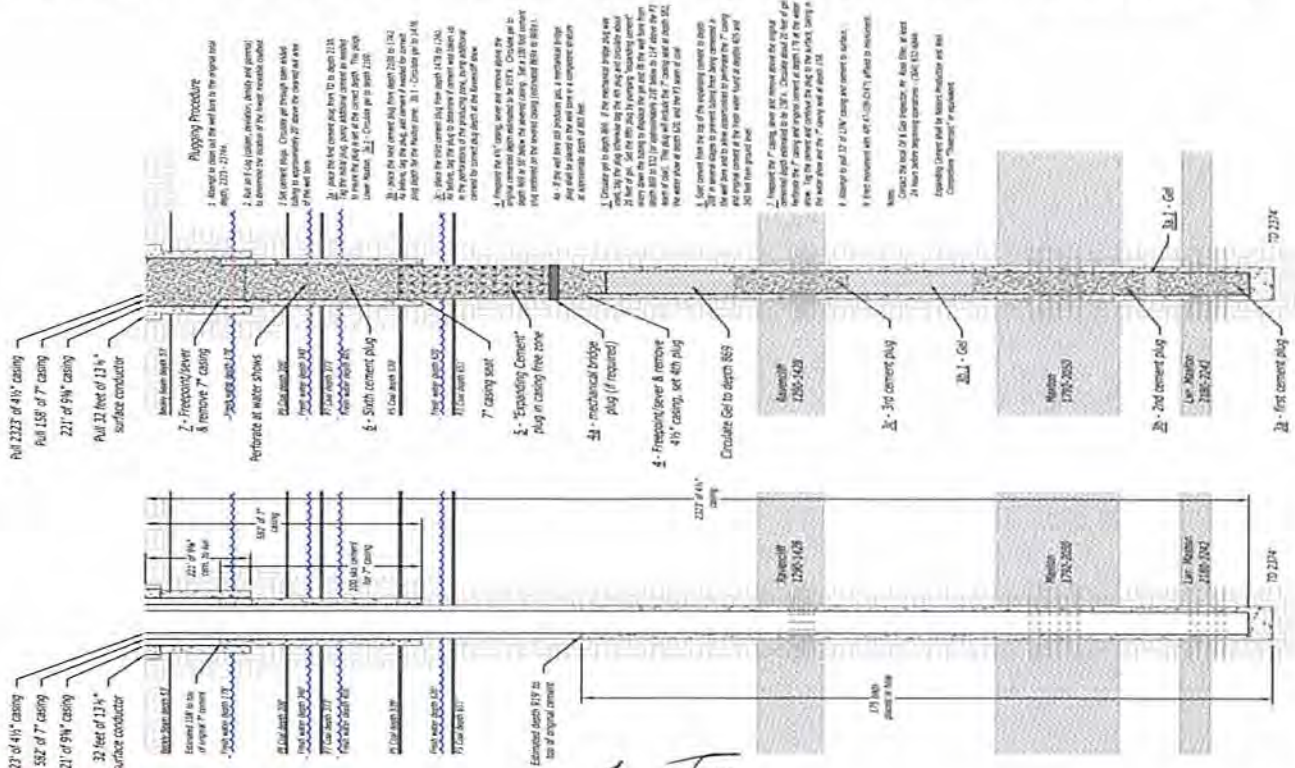
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of Oil and Gas
APR 10 2014
WV Department of
Environmental 04/25/2014

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 1402.33 Watershed Indian Creek of the 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:



Existing Status API 47-109-01471
PLC-32
Best Available Data

See attachment for larger view of this plan.

Work order approved by inspector 

Date 4/9/14

04/25/2014

not to scale

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WV Division of
Environmental Protection

17-Oct-94
API # 47-109-01471

JAN 23 1995

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: POCAHONTAS LAND CORP. Operator Well No.: PLC #32

LOCATION: Elevation: 1,433.00 Quadrangle: PINEVILLE

District: CENTER County: WYOMING
Latitude: 8700 Feet South of 37 Deg. 32Min. 30 Sec.
Longitude 235 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: 10-26-94
Well work Completed: 11-2-94
Verbal Plugging
Permission granted on:
Rotary x Cable Rig
Total Depth (feet) 2374 DTD
Fresh water depths (ft) 178, 340, 405, 620
Salt water depths (ft) N/A
Is coal being mined in area (Y/N)?
Coal Depths (ft): 50-53, 290-300, 368-73
535-39

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	32'	32'	---
9 5/8"	221'	221'	120 sks
7"	582'	582'	100 sks
4 1/2"	2323'	2323'	175 sks

OPEN FLOW DATA

Producing formation Ravencliff, Maxton, L. Maxton Pay zone depth (ft) 1357-2272
Gas: Initial open flow show MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 267 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 200 psig (surface pressure) after 24 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 SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

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Office of Oil and Gas

For: BOWIE, INC.

APR 10 2014

By: Cleve Bowie
Date: 1-18-95

WV D 1171
Environmental Protection
04/25/2014

I (2200-2272) 25 HOLES, 750 GAL 15% HCL, 250 SKS SAND, 504 BBL 75 QN2 FOAM
 II (1862-1964) 30 HOLES, 750 GAL 15% HCL, 450 SKS SAND, 650 BBL 75Q FOAM
 III (1357-1407) 30 HOLES, 500 GAL 15% HCL, 450 SKS SAND, 640 BBL 75Q FOAM

SAND	0-20	
SAND & SHALE	20-50	
COAL	50-53	
SAND & SHALE	53-290	H2O @ 178'
COAL	290-300	
SAND	300-368	H2O @ 340'
COAL	368-373	
SAND & SHALE	373-535	H2O @ 405'
COAL	535-539	
SAND & SHALE	539-800	DAMP @ 620'
SAND	800-980	
SAND & SHALE	980-1290	
RAVENCLIFF	1290-1428	GAS SHOW
AVIS	1428-1474	
SHALE	1474-1792	
MAXTON	1792-2050	GAS SHOW
SAND & SHALE	2050-2180	
L. MAXTON	2180-2242	
L. LIME	2242-2374	DTD

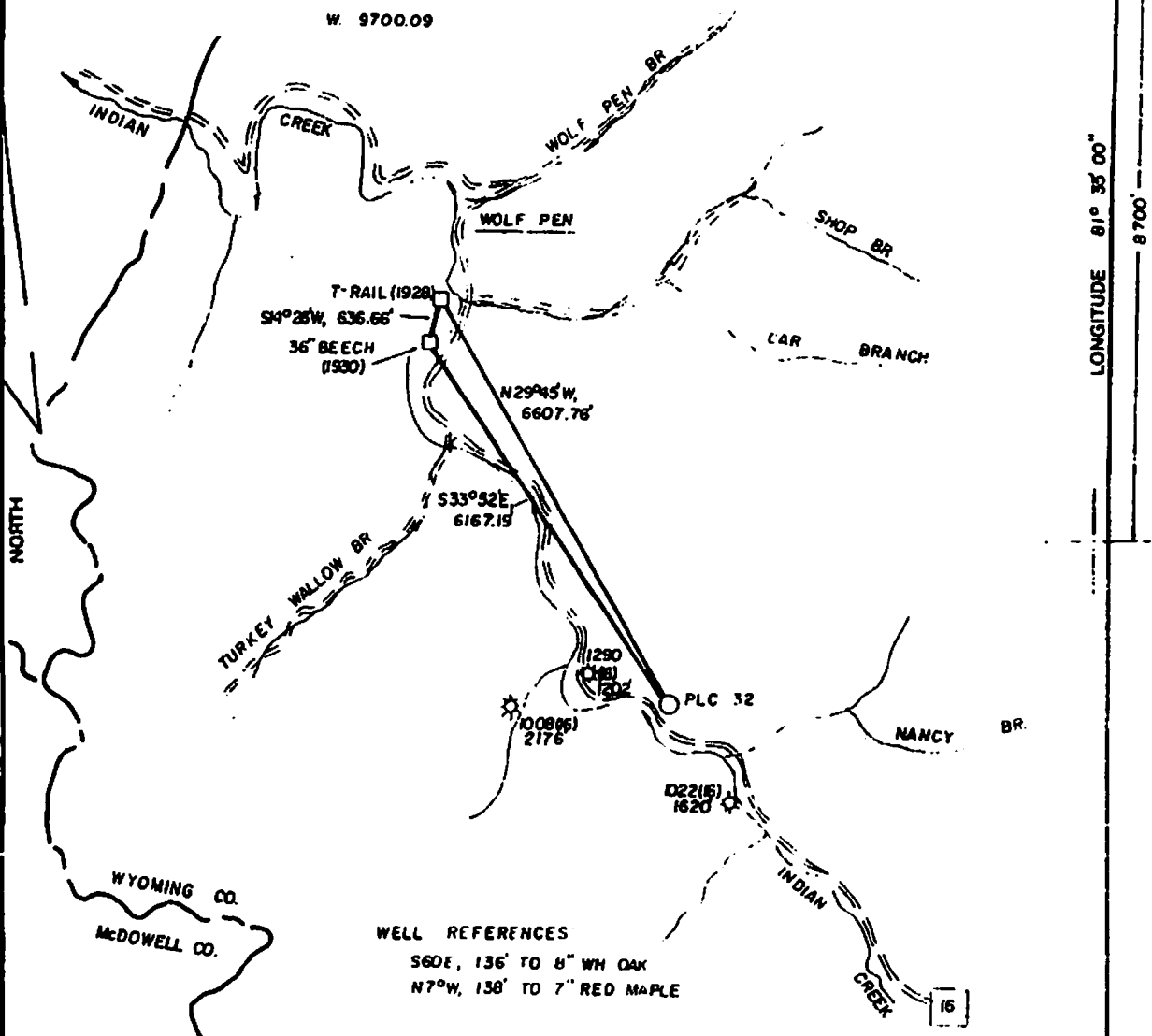
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 Office of Oil and Gas

APR 1 9 2014

WV Department of
 Environmental Protection
 04/25/2014

LATITUDE 37° 34' 30" **47 10 901471P**

POCA. LAND COOR. AT PLC 32
 N. 54,935.17
 W. 9700.09



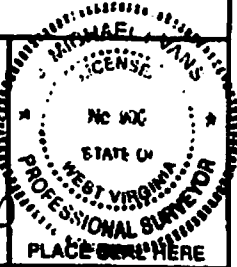
LONGITUDE 81° 35' 00" 8700'

WELL REFERENCES
 S60E, 136' TO 8" WH OAK
 N7°W, 138' TO 7" RED MAPLE

(+) 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 B.M. 6300 NW AT 128'

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) Michael J. Evans
 R.P.E. _____ L.L.S. 900



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE MAY 2 19 94
 OPERATOR'S WELL NO. BOWIE, INC. PLC 32
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1433' WATER SHED INDIAN CREEK
 DISTRICT CENTER COUNTY WYOMING

QUADRANGLE PINEVILLE 7.5'

SURFACE OWNER POCAHONTAS LAND CORP. ACREAGE 24980.40
 OIL & GAS ROYALTY OWNER POCAHONTAS LAND CORP. LEASE ACREAGE 10,050.85
 LEASE NO. 58244

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 BIG LIME ESTIMATED DEPTH 2350'
 WELL OPERATOR BOWIE, INC. DESIGNATED AGENT WILLIAM BOWIE
 ADDRESS P.O. BOX 430 ADDRESS P.O. BOX 430
CLARKSBURG, WV 26302-1430 CLARKSBURG, WV 26302-1430

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 Office of Oil and Gas
 COUNTY NAME: WV
 PERMIT
 WV Department of Environmental Protection

04/25/2014

1) Date: February 12, 2014
 2) Operator's Well Number PLC-32
 3) API Well No.: 47 - 109 - 01471

**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:	<input checked="" type="checkbox"/> 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> <u>Pineville, WV 24874</u>	Address <u>P.O. Box 338</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> <u>Beckley, WV 25801</u>	Address <u>P.O. Box 1085</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 12th day of March 2014
DeeDee Taylor Notary Public
 My Commission Expires May 17, 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.

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 Office of Oil and Gas
 Environmental
 04/25/2014

4710901471P

WW-4B

API No. 47-109-01471
Farm Name Pocahontas Land Corporation
Well No. PLC-32

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

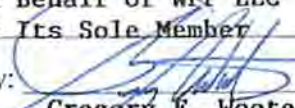
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner / lessee ____/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: March 27, 2014

NRP (Operating) LLC
On Behalf of WPP LLC
As Its Sole Member
By: 
Gregory F. Wooten
Its Vice President & Chief Engineer

04/25/2014

4710901471P

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

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

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
Amanda Boop

B. Received by (Printed Name) *Amanda Boop* 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

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

Total Postage & Fees \$ **7.11**

Postmark: **MAR 27 2014**

USPS 248888

THORPE POST OFFICE

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

(Domestic Mail Only - No Insurance Coverage Provided)

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

2. Article Number (Transfer from service label) **7007 0710 0003 9518 2260**

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
Jane Bluestone

B. Received by (Printed Name) *Jane Bluestone* C. Date of Delivery *3/21/14*

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

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

Total Postage & Fees \$ **7.11**

Postmark: **MAR 27 2014**

USPS 248888

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

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

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
Denise Cook

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

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

Total Postage & Fees \$ **7.11**

Postmark: **MAR 27 2014**

USPS 248888

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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

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

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
Denise Cook

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

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

Total Postage & Fees \$ **7.11**

Postmark: **MAR 27 2014**

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04/25/2014

LK 25036
10000

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 Indian Creek of Guyandotte River Quadrangle Pineville 7 1/2' Series

Elevation 1402.33 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 MLA

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? _____

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 _____

Company Official (Typed Name) Brett McDonough

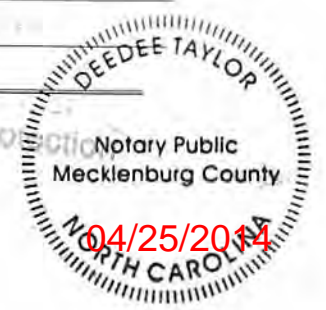
Company Official Title Vice President

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MAR 12 2014

Subscribed and sworn before me this 12th day of March, 20 14

DeeDee Taylor Notary Public

My commission expires May 17, 2016



Form WW-9

Operator's Well No. PLC-32

Hayden Harper Energy KA, LLC

Proposed Revegetation Treatment: Acres Disturbed 3.20 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

Area I			Area II		
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.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

Title: WV DEP DAB I-08 Date: 4/9/14

Field Reviewed? Yes No

Hayden Harper Energy KA, LLC
Well No. PLC-32

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

PROPOSED CULVERT INVENTORY
(For Bid Purposes Only)


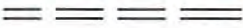








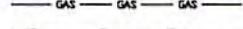






15" (Minimum) Culverts | All pre-existing

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.

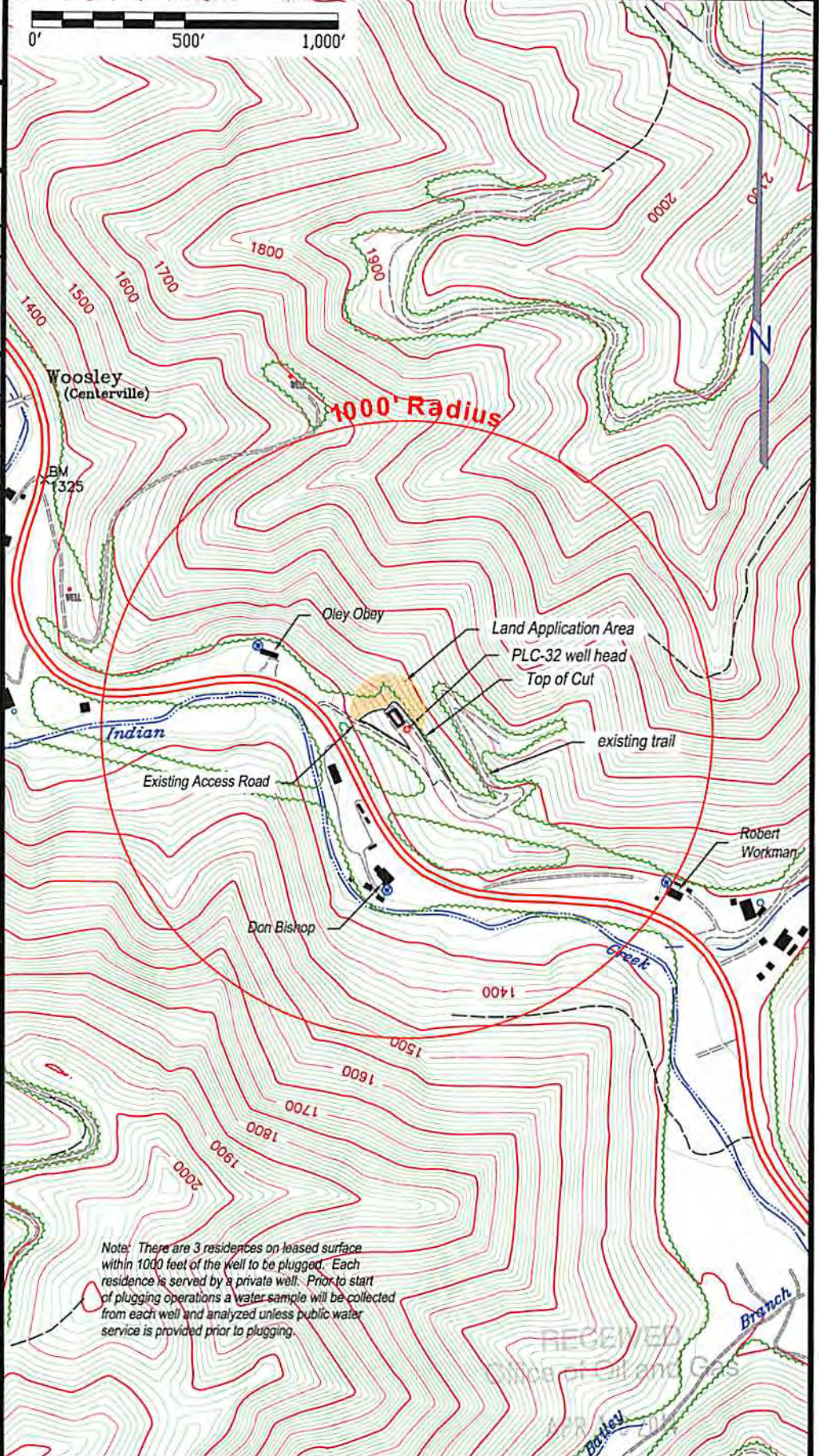
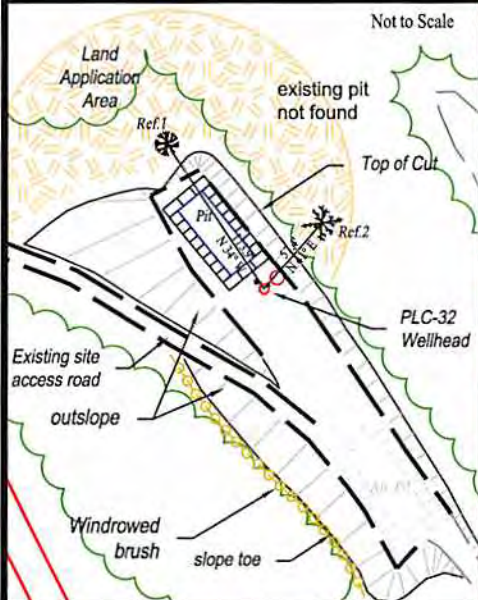
PROJECTED EARTHEN DISTURBANCE

Well Location Site	2.90 Acres
Access Road	0.30 Acres
Approximate Total Disturbance	3.20 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-32



Note: There are 3 residences on leased surface within 1000 feet of the well to be plugged. Each residence is served by a private well. Prior to start of plugging operations a water sample will be collected from each well and analyzed unless public water service is provided prior to plugging.



WW-9 PLC-32

Construction and Reclamation Plan

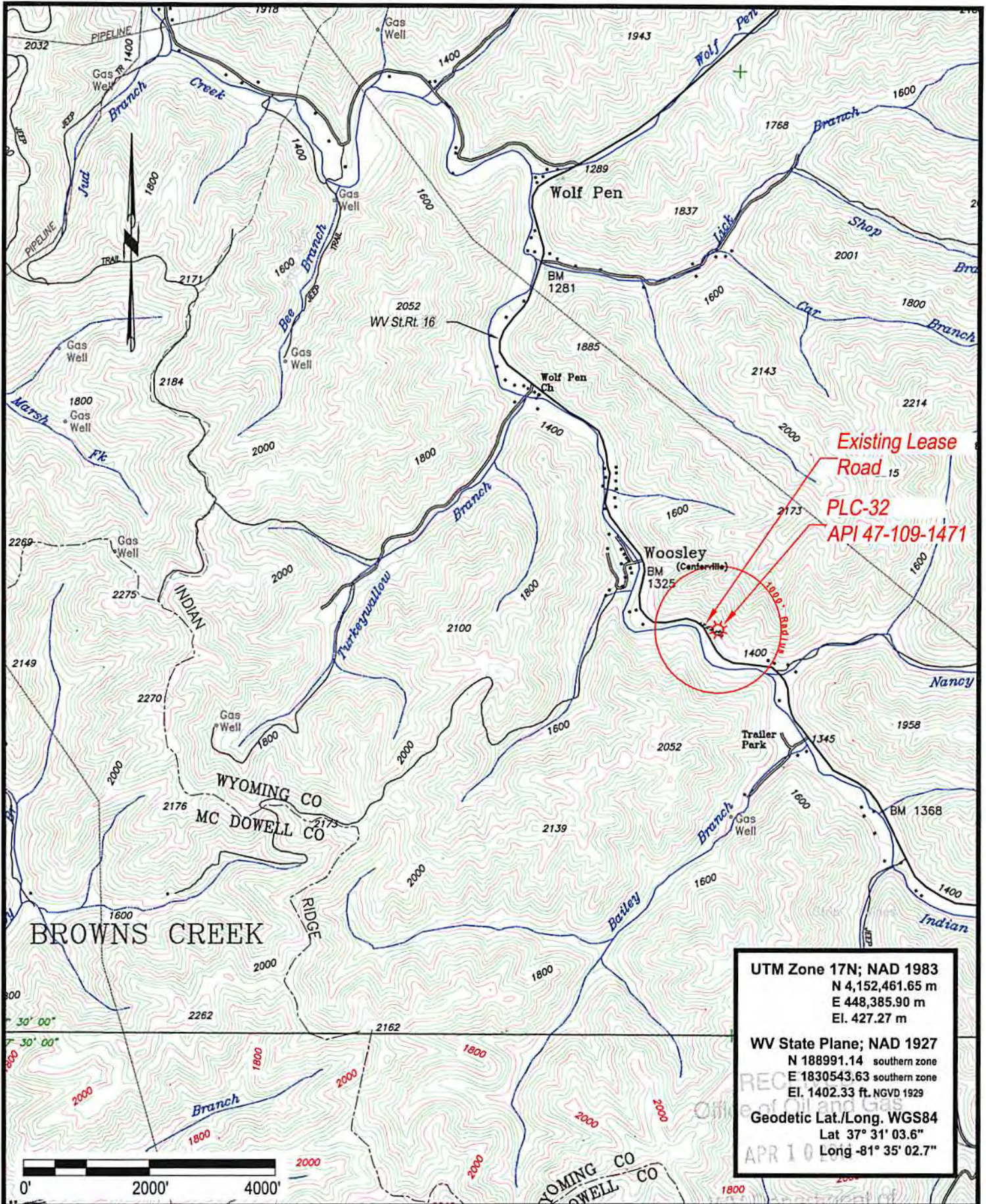
04/25/2014

EXCAVATED SEDIMENT CHANNEL SIZING CHART														OUTLET DESIGN INFORMATION								
Sediment Ditch Name	Disturbed Acres	Sediment Volume Required (Ac. Ft.)	Sediment Volume Available (Ac. Ft.)	Required Section (Sq. Ft.)	Design Section (Sq. Ft.)	Bottom Width (Ft.)	Top Width (Ft.)	Avg. Ditch Length (Ft.)	Bottom Length (Ft.)	Top Length (Ft.)	Water Depth (Ft.)	Total Cell Depth (Ft.)	60% Cleanout Level (Ft.)	Side Slopes H (Ft.)	Side Slopes V (Ft.)	Outlet Flow Depth (Ft.)	Freeboard (Ft.)	Outlet Total Depth (Ft.)	Outlet Bottom Width (Ft.)	Outlet Top Width (Ft.)	Outlet Type	
						[A]	[B]		[C]	[D]	[E]	[F]	[G]			[H]	[I]	[J]	[K]	[L]		
A	2.09	0.26	0.45	16.26	28.00	10.00	26.00	700	696.00	712.00	2.00	4.00	1.20	2	1	0.99	1.01	2.00	1.45	9.45	001	Trap.
B	6.25	0.78	1.12	50.05	72.00	10.00	38.00	680	672.00	708.00	4.00	7.00	2.40	2	1	1.99	1.01	3.00	1.50	13.50	002	Trap.
C	4.57	0.57	0.79	52.39	72.00	10.00	38.00	475	467.00	495.00	4.00	7.00	2.40	2	1	1.99	1.01	3.00	0.80	12.80	003	Trap.
D	6.61	0.83	1.32	62.59	100.00	10.00	46.00	575	565.00	601.00	5.00	9.00	3.00	2	1	2.99	1.01	4.00	0.42	16.42	004	Trap.
E	10.05	1.26	1.72	72.96	100.00	10.00	46.00	750	740.00	776.00	5.00	9.00	3.00	2	1	3.00	1.00	4.00	1.15	17.15	005	Trap.
F	18.23	2.28	4.94	77.55	168.00	10.00	54.00	1,280	1,266.00	1,310.00	7.00	11.00	4.20	2	1	3.00	1.00	4.00	2.70	18.70	006	Trap.
G	16.95	2.12	2.80	127.30	168.00	10.00	54.00	725	711.00	755.00	7.00	11.00	4.20	2	1	3.00	1.00	4.00	2.40	18.40	007	Trap.
H	10.10	1.26	1.62	56.12	72.00	10.00	38.16	980	972.00	1,000.16	4.00	7.04	2.40	2	1	1.99	1.05	3.04	3.10	15.26	008	Trap.
I	3.61	0.45	0.50	43.68	48.00	10.00	34.00	450	444.00	468.00	3.00	6.00	1.80	2	1	1.95	1.05	3.00	0.60	12.60	009	Trap.
J	31.01	3.88	3.95	164.73	168.00	10.00	54.00	1,025	1,011.00	1,055.00	7.00	11.00	4.20	2	1	3.00	1.00	4.00	5.45	21.45	010	Trap.
K	13.29	1.66	1.93	144.73	168.00	10.00	54.00	500	486.00	530.00	7.00	11.00	4.20	2	1	3.00	1.00	4.00	1.60	17.60	011	Trap.
L	13.96	1.75	2.42	95.02	132.00	10.00	50.00	800	788.00	828.00	6.00	10.00	3.60	2	1	2.97	1.03	4.00	1.80	17.80	012	Trap.
M	15.99	2.00	3.95	84.94	168.00	10.00	54.00	1,025	1,011.00	1,055.00	7.00	11.00	4.20	2	1	2.99	1.01	4.00	2.20	18.20	013	Trap.
N	3.93	0.49	0.58	40.76	48.00	10.00	34.00	525	519.00	543.00	3.00	6.00	1.80	2	1	1.98	1.02	3.00	0.70	12.70	014	Trap.
O	1.37	0.17	0.27	17.55	28.00	10.00	26.00	425	421.00	437.00	2.00	4.00	1.20	2	1	0.99	1.01	2.00	0.60	8.60	015	Trap.
P	2.63	0.33	0.87	18.13	48.00	10.00	34.00	790	784.00	808.00	3.00	6.00	1.80	2	1	1.99	1.01	3.00	0.17	12.17	016	Trap.
Q	4.80	0.60	0.91	47.52	72.00	10.00	38.00	550	542.00	570.00	4.00	7.00	2.40	2	1	1.99	1.01	3.00	0.78	12.78	017	Trap.
R	5.92	0.74	0.82	43.56	48.00	10.00	38.00	740	734.00	762.00	3.00	7.00	1.80	2	1	2.99	1.01	4.00	0.42	16.42	018	Trap.
S	10.43	1.30	2.12	61.40	100.00	10.00	46.00	925	915.00	951.00	5.00	9.00	3.00	2	1	2.99	1.01	4.00	1.12	17.12	019	Trap.
T	2.03	0.25	0.76	16.02	48.00	10.00	34.00	690	684.00	708.00	3.00	6.00	1.80	2	1	2.00	1.00	3.00	0.12	12.12	020	Trap.
U	10.23	1.28	2.24	75.27	132.00	10.00	50.00	740	728.00	768.00	6.00	10.00	3.60	2	1	2.97	1.03	4.00	0.95	16.95	021	Trap.
V	19.44	2.43	3.37	120.97	168.00	10.00	54.00	875	861.00	905.00	7.00	11.00	4.20	2	1	3.00	1.00	4.00	2.80	18.80	022	Trap.
W	16.69	2.09	2.97	118.02	168.00	10.00	54.00	770	756.00	800.00	7.00	11.00	4.20	2	1	3.00	1.00	4.00	2.20	18.20	023	Trap.

* - Indicates a structure that discharges directly into another drainage structure
 Outlet Flow depth and Outlet Bottom width, determined by SEDCAD4
 Outlet Flow depth is calculated by subtracting the Permanent Pool Elev (R) from the Peak Elevation (R) as shown in the SEDCAD4 runs.
 Freeboard is calculated by subtracting the Peak Elevation (R) from the highest elevation in the Elevation-Capacity-Discharge Table as shown in the SEDCAD4 runs.

Denotes a calculated value.

RECEIVED
 Office of Oil and Gas
 APR 10 2014
 Environmental Protection
 04/25/2014



UTM Zone 17N; NAD 1983
 N 4,152,461.65 m
 E 448,385.90 m
 El. 427.27 m

WV State Plane; NAD 1927
 N 188991.14 southern zone
 E 1830543.63 southern zone
 El. 1402.33 ft. NGVD 1929

Geodetic Lat./Long. WGS84
 Lat 37° 31' 03.6"
 Long -81° 35' 02.7"



**HAYDEN
HARPER**

PLC-32

API 47-109-01471

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

Environmental Protection February 12, 2014

04/25/2014

WW-7
8-30-06



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

API: 47-109-01471 WELL NO.: PLC-32

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: 4152461.647

UTM GPS EASTING: 448385.903 GPS ELEVATION: 427.27m 1402.33 FT

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]
Signature

PS 1065

Title

APR 10 2014
2/17/14
Date
WV Department of Environmental Protection





True Line, Inc.
 P.O. Box 85 Thorpe, WV 24888
 Phone: (304)448-2116
 Fax: (304) 448-2339
 Email: trueline1@frontiernet.net

4710901471

Hayden Harper Energy KA, LLC
 PLC-32 47-109-01471 plugging
 April 9, 2014

*CK 25036
 100.00*

Mr. James A. Martin, Chief
 West Virginia Department of Environmental Protection
 Office of Oil and Gas
 601 57th Street SE
 Charleston, West Virginia 25304-2345

RE: Plugging Permit materials for API #47-109-01471, Well PLC-32


Dear Mr. Martin:

I am writing on behalf of Hayden Harper Energy KA, LLC. Hayden Harper has engaged True Line Inc. to prepare the necessary forms and materials for plugging of the above referenced well.

Enclosed, please find a completed application including a WW-4a signed and notarized by the company, a WW-4B signed and approved by the inspector, Mr. Ross Eller and the WW-9 signed and notarized by the company and approved by Mr. Eller. Also, I have enclosed copies of the certified mail receipts for the notifications to affected parties and a check in the amount of one hundred dollars (\$100.00) drawn on the account of True Line Inc. offered as the required "pit fee".

Should any additional materials be required or revisions made to the materials enclosed, please direct your inquiries here for a prompt response.

Kind regards,
 TRUE LINE INC.


 James D Musgrave

Enclosure(s)

RECEIVED
 APR 23 2014
 WVD
 Environmental Protection

04/25/2014