



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

March 18, 2014

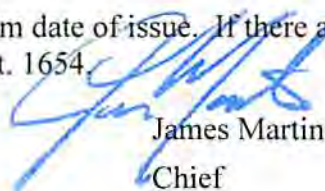
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4301316, issued to CHESAPEAKE APPALACHIA, L.L.C., 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: 502016 P&A (8721)
Farm Name: FERGUSON, KENNETH
API Well Number: 47-4301316
Permit Type: Plugging
Date Issued: 03/18/2014

Promoting a healthy environment.

03/21/2014

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.

4301316 P

FORM WW-4 (B)
Observe
File Copy
(Rev. 2/01)

1) Date: 3/6/2014
2) Operator's Well No. 502016 P&A
3) API Well No. 47-043-01316

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
(Is Gas, Production X or Underground storage) Deep Shallow X
- 5) Location: Elevation 1123' Watershed East Fork of Twelvepole Creek
District Harts Creek 03 County Lincoln 43 Quadrangle Trace, WV 7.5 648
- 6) Well Operator Chesapeake Appalachia, L.L.C. 7) Designated Agent Eric B. Gillespie
Address P.O. Box 18496 Address P.O. Box 6070
Oklahoma City, OK 73154-0496 Charleston, WV 25362
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Ralph Triplett Name Chesapeake Appalachia, L.L.C.
Address 5539 McClellan Highway Address P.O. Box 18496
Branchland, WV 25506 Oklahoma City, OK 73154-0496

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

See Attached Sheet

OK JMM

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

Work Order approved by Inspector _____

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WV Department of
Environmental Protection 03/21/2014

- 1) Prepare road and location, MIRU Service Rig
- 2) Pull rods, pump and tubing, check TD with tools
- 3) Attempt to pull 4 1/2" and packer DOES NOT APPEAR TO BE ANY 4 1/2" IN WELL
- 4) Run W.S. to approximately 1715', load hole with gel
- 5) Spot 100' cement plug 1715'-1615', pull W.S.
- 6) If attempt to pull 4 1/2" was unsuccessful, cut 4 1/2" at free-point (approximately 1600') and pull, then set 100' cement plug at 4 1/2" cut.
- 7) Cut 6 5/8" at free-point (approximately 950') and pull
- 8) Run W.S. to 950', load hole with gel
- 9) Spot 100' cement plug 950'-850', pull W.S. to 775'
- 10) Spot 100' cement plug 775'-675', pull W.S.
- 11) Attempt to pull 8 5/8" casing
 - A) If successful:
 - a) Run W.S. to 615', load hole with gel, pull W.S. to 575'
 - b) Spot 100' cement plug 575'-475', pull W.S. (C&AL)
 - c) Proceed to step #12
 - B) If successful:
 - a) Rip holes in 8 5/8" at approximately 530' and 500', run W.S. to 650'
 - b) Spot 175' cement plug 650'-475', pull W.S.
 - c) Proceed to step #12
- 12) Cut 8 5/8" at free-point (approximately 345') and pull. NOTE: If free-point is above 345' then rip holes at approximately 330' and 300'.
- 13) Run W.S. to 345', load hole with gel
- 14) Spot 100' cement plug 345'-245', pull W.S. to 215'
- 15) Spot ^{100'}~~70'~~ cement plug 215'-^{115'}~~145'~~, pull W.S. to 100'
- 16) Spot 100' cement plug 100' – surface
- 17) Pull W.S. and top off with cement
- 18) Erect monument and reclaim as prescribed by law

OPTION 1
CAN SET CLASS A
CEMENT PLUG FROM 215' - SURFACE

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03/21/2014

4301316A

09-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

INSPECTOR'S WELL REPORT

Permit No. LIN 1316

Oil or Gas Well Gas
(INDEX)

Company <u>United Fuel Gas Company</u> <u>P.O. Box 1273</u> <u>Charleston, W. Va.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>U.F.G.Co. Min. Tr. #31</u>	Size			
Farm <u>8721</u>	16			Kind of Packer
Well No. <u>8721</u>	13			
District <u>Harts Creek</u> County <u>Lincoln</u>	10	<u>1 5/8"</u>		Size of
Drilling commenced <u>6-6-60</u>	8 1/4	<u>6 1/8"</u>		
Drilling completed _____ Total depth _____	6	<u>1658'</u>		Depth set <u>1658'</u>
Date shot _____ Depth of shot _____	5 3/16			<u>Bottom Hole Packer</u>
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Stock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil <u>24</u> bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT _____ Date _____			
Fresh water <u>150</u> feet _____ feet	COAL WAS ENCOUNTERED AT <u>183</u> FEET <u>36</u> INCHES <u>511</u> FEET _____ INCHES			
Salt water <u>725</u> feet _____ feet	_____ FEET _____ INCHES			
Drillers' Names <u>George Sowards</u> <u>Kenneth Paul</u>				

Remarks: Salt Sand 970'-1215'; Maxon Sand 1524'-1583'; Big Lime 1628'; oil in Big Lime from 1689'-1696'; fill up in 7" casing - 1350'; not acidized as of this date.

7-21-60

DATE

J.W. Pack
DISTRICT WELL INSPECTOR





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Well 502016
A.P.I. 47-043-QB16P

Quadrangle Holden

WELL RECORD

Permit No. LIN-1316

Oil or Gas Well Oil
(HMS)

Company United Fuel Gas Company
Address P.O. Box 1273; Charleston 25, W. Va.
Farm United Fuel Gas Co. Min. Tr. #31, Area 2,255.95
Location (waters) East Fork of 12-Pole Creek
Well No. 8721 (Now P.O. V-2016) Elev. 1119.62
District Harts Creek County Lincoln
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by United Fuel Gas Co.
Address Charleston, W. Va.
Drilling commenced 6-6-60
Drilling completed 7-15-60
Date Shot Not shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Bottom Hole
13			Size of
10 3/4		16'	7" x 8-5/8"
8 5/8		616	Depth set
7		1667	
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT 183 FEET 24 INCHES
308 FEET 36 INCHES 511 FEET 48 INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	5			
Slate			5	45			
Sand			45	183			
Coal			183	185			Water at 150' - 4 BPH
Sand			185	308			
Coal			308	311			
Sand			311	350			
Slate			350	395			
Sand			395	450			
Slate			450	511			
Coal			511	515			
Slate & Shells			515	790			Water at 725' - Hole Full
Sand			790	900			
Slate			900	970			
Salt Sand			970	1215			
Slate & Shells			1215	1432			
Sand			1432	1484			
Slate & Shells			1484	1524			
Maxon Sand			1524	1583			
Little Lime			1583	1625			
Pencil Cave			1625	1628			Gas at 1689' - 1696' - 10/10 W - 2"
Big Lime			1628	1728			Oil at 1689' - 1696'
Total Depth			1728'				Test 7/16/16 - 1 1/2 Bbl. Per Hr.



03/21/2014

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WV Department of Environmental Protection

(over)

WW4-A
Revised
2/01

1) Date: 3/6/2014
2) Operator's Well No. 502016 P&A
3) API Well No. 47-043-01316

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
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: ✓
(a) Name Kenneth Ferguson
Address Rt 2, Box 4070
Dingess, WV 25671

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Ralph Triplett
Address 5539 McClellan Highway
Branchland, WV 25506

Telephone 304-389-0350

5) Coal Operator ✓
(a) Name Argus Energy WV, LLC
Address 9104 Twelve Pole Creek Road
Dunlow, WV 25511

Coal Owner(s) with Declaration ✓
(b) Name Poahontas Land Corporation
Address 800 Princeton Avenue
Bluefield, WV 24701

Name _____
Address _____

Coal Lessee with Declaration ✓
(c) Name Rockspring Development, Inc.
Address 400 Patterson Lane
Charleston, WV 25311

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 the 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 the 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: Chesapeake Appalachia, L.L.C.
By: _____
Its: Manager - Operations, Appalachia South
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

Subscribed and sworn before me this 6th day of March the year of 2014
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2018
Form WW-9

Well 502016
API 47-043-01316

7012 1640 0000 0167 9680

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

DINGESS WV 25671

Postage	\$ 1.40	0523
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.40	



Sent to: **502016 P&A (Surface & Access Road)**
Kenneth Ferguson
Rt 2, Box 4070
Dingess, WV 25671

PS Form 3800, August 2013

7012 1640 0000 0167 9611

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BLUEFIELD WV 24701

Postage	\$ 1.82	0523
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.82	



Sent to: **808719 P&A and 502016 P&A**
Pocahontas Land Corp.
800 Princeton Avenue
Bluefield, WV 24701

PS Form 3800, August 2013

7012 1640 0000 0167 9901

**U.S. Postal Service™
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CHARLESTON WV 25311

Postage	\$ 1.82	0523
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.82	



Sent to: **808719 P&A and 502016 P&A**
Rockspring Development, Inc.
400 Patterson Lane
Charleston, WV 25311

PS Form 3800, August 2013

7012 1640 0000 0167 9604

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DUNLOW WV 25511

Postage	\$ 1.82	0523
Certified Fee	\$ 3.30	01
Return Receipt Fee (Endorsement Required)	\$ 2.70	
Restricted Delivery Fee (Endorsement Required)	\$ 0.00	
Total Postage & Fees	\$ 7.82	



Sent to: **808719 P&A and 502016 P&A**
Argus Energy-WV, LLC
9104 Twelve Pole Creek Road
Dunlow, WV 25511

PS Form 3800, August 2013

03/21/2014

4301316A

Rev. 02/01

API Number 47-043-01316
Operator's Well No. 502016 P&A

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

X 5124298
100 ac

Operator Name Chesapeake Appalachia, L.L.C. OP Code 494477557

Watershed East Fork of Twelvepole Creek Quadrangle Trace, WV 7.5'

Elevation 1123' County Lincoln District Harts Creek

Description of anticipated Pit Waste: Plugging Returns/Cement

Will a synthetic liner be used in the pit? Yes 20 MIL.

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
- Swabbing
- Plugging
- Other (Explain _____)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, 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 Gocke*

Company Official (Typed Name) David Gocke

Company Official Title Manager - Operations, Appalachia South

Subscribed and sworn before me this 6th day of March, 2014.

Phyllis A. Copley Notary Public.

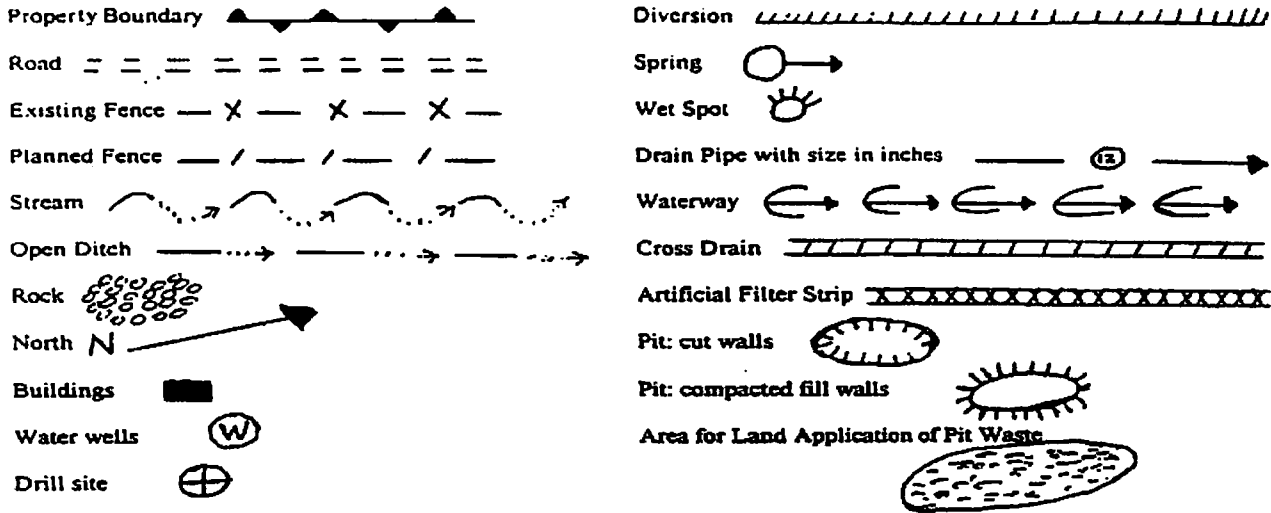
My Commission Expires September 16, 2018

RECEIVED
Office of Oil and Gas
Official Seal of the State of West Virginia
Phyllis A. Copley
144 Willard Circle Hurricane, WV 25534
My Commission Expires September 16, 2018
WV Department of Environmental Protection
MAR 07 2014
03/21/2014

Attachment #1

API #: 47-043-01316
 Operator's Well No. 502016 P&A

LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 6.1

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)

Mulch Hay 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	ORCHARD GRASS	15
ALSIKE CLOVER	5	ALSIKE CLOVER	5
ANNUAL RYE	15		

Attach:
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Title: _____

Date: _____

Field Reviewed? () Yes () No

CHESAPEAKE APPALACHIA, L.L.C.

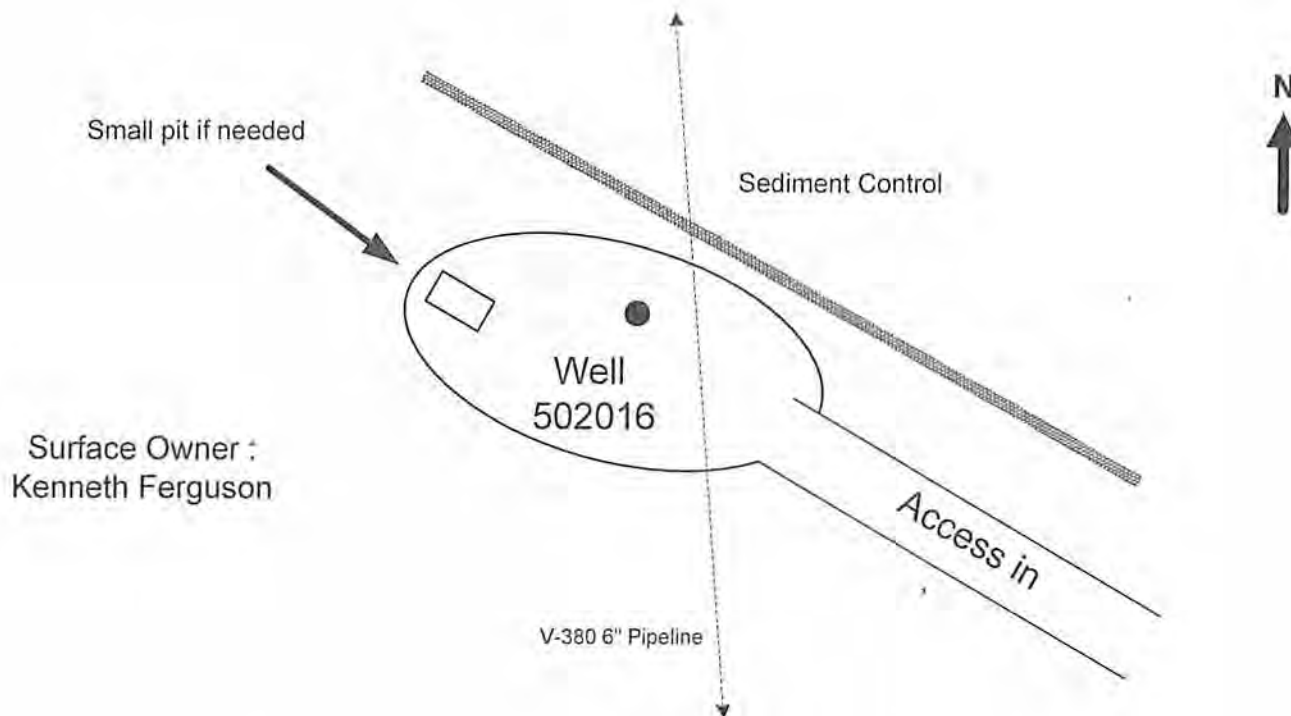
4301316P

Diagram of Well 502016

API 47-043-01316

Field Office - Branchland

County -Lincoln



Surface Owner :
Kenneth Ferguson

GENERAL NOTES

This drawing is a schematic representation of the well site and access road. Proposed structures such as well site, drilling pit, roadways, culverts sediment barriers etc. are shown in approximate pre-planning configurations.

All culvert pipes will be a minimum of 15 inches in diameter. All culvert pipes installed will be accompanied by an entrance sump with dimensions no less than 3 feet (width) x 3 feet (length) x 4 feet (deep). Culverts will be installed at an angle to ensure proper flow. The out fall of culverts will be protected from erosion and sedimentation using large rocks or other sediment controls deemed necessary in the prevention of erosion and sedimentation. Storm water from the ditches to the culverts will be directed to stable natural vegetative areas. Where culverts are not practical, operator will have other sediment control in place to minimize erosion and sedimentation.

Cross drains, broad based dips, water bars, and diversion ditches will be employed during the construction phase. These erosion and sediment control structures will be used to control erosion and sedimentation during the construction phase, where applicable and areas that will allow. These structures will be considered permanent and used as such.

Permanent seeding: See Attachment #1

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WV Department of
Environmental Protection

Site Plan

Prepared by: Kris Aldridge
Date: 2-14-2014

No Scale 03/21/2014

Topographical Map of Access and

Well Location 502016

API 47-043-01316

Field Office - Branchland

County - Lincoln



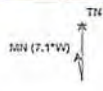
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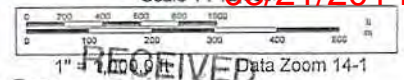
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Scale 1: 100,000 03/21/2014



Office of Oil and Gas

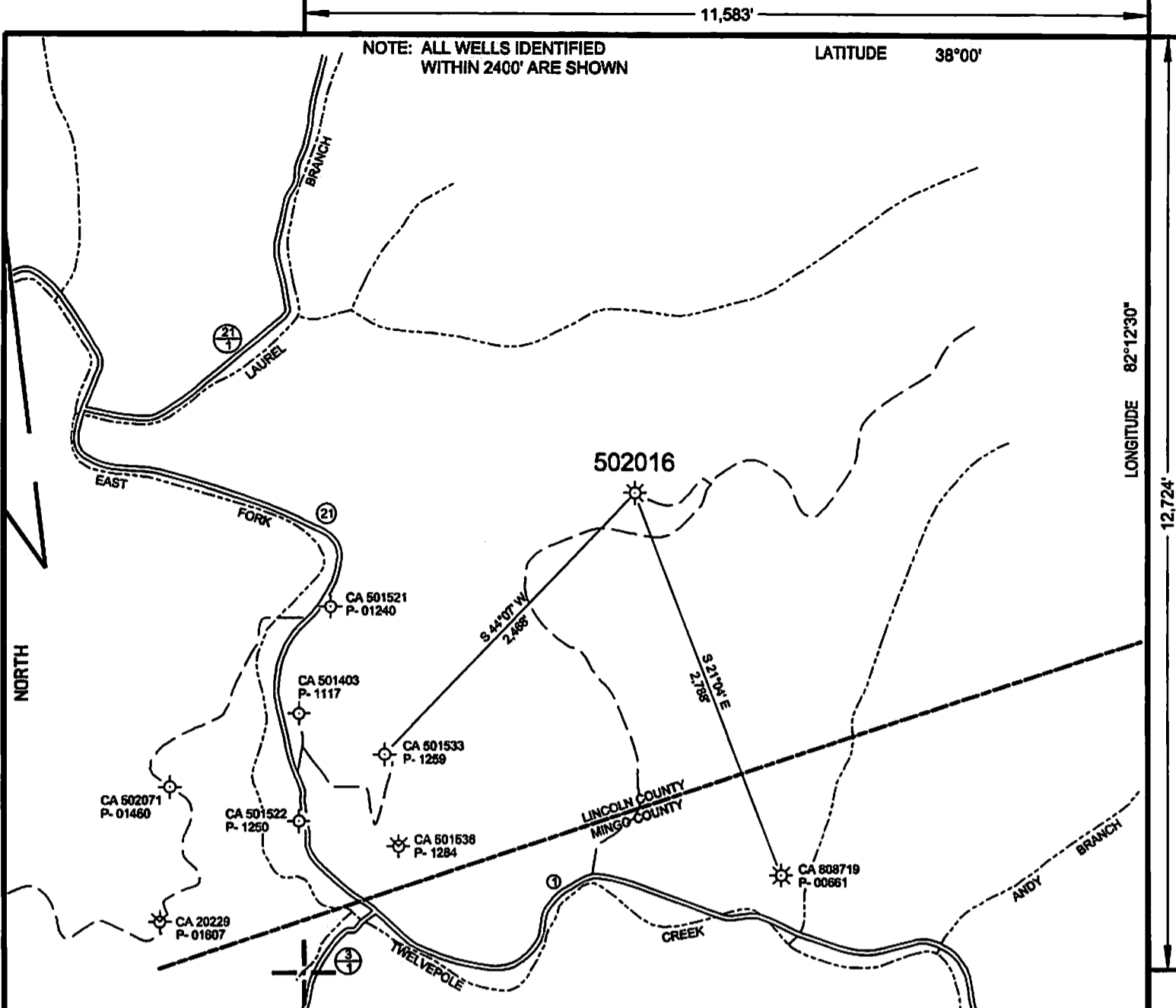
MAR 07 2014

WV Department of Environmental Protection

Chesapeake Energy Corporation - Eastern Division
P.O. Box 579 • 8165 Court Avenue • Hamlin, WV 25523
304.824.5141 • fax 304.824.2247

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

LATITUDE 38°00'



NORTH

LONGITUDE 82°12'30"

12,724'

WELL SITE
STATE PLANE WV SOUTH ZONE NAD 1927 N - 353,830.189 : E - 1,640,085.229
LATITUDE: (N) 37.9650697° LONGITUDE: (W) 82.2484926°
UTM NAD83 17 - 84W TO 78W, METERS N - 4,202,685.046 : E - 390,343.744

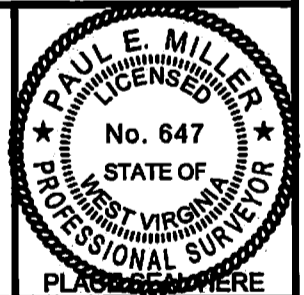
NOTE: NO BUILDING STRUCTURES IDENTIFIED WITHIN 200'

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

FILE NO.	502016P&A.DGN
DRAWING NO.	502016P&A
SCALE	1" = 1000'
MINIMUM DEGREE OF ACCURACY	1 : 200
PROVEN SOURCE OF ELEVATION	MAPPING GRADE GPS

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 ENVIRONMENTAL PROTECTION.

(SIGNED) *Paul E. Miller*
R.P.E. _____ L.L.S. 647



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION



DATE FEBRUARY 3, 20 14
OPERATOR'S WELL NO. 502016
API WELL NO.

47 043 01316 P
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1,123' WATER SHED EAST FORK OF TWELVEPOLE CREEK

DISTRICT HARTS CREEK COUNTY LINCOLN

QUADRANGLE TRACE, WV 7.5'

SURFACE OWNER KENNETH FERGUSON ACREAGE 275

OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA, L.L.C. LEASE ACREAGE _____

LEASE NO. _____ FEE LAND _____

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 _____ ESTIMATED DEPTH _____

WELL OPERATOR CHESAPEAKE APPALACHIA, L.L.C. DESIGNATED AGENT ERIC B. GILLESPIE

ADDRESS P.O. BOX 18496, OKLAHOMA CITY, OK 73154-0496 ADDRESS CHESAPEAKE APPALACHIA, L.L.C. PO BOX 6070, CHARLESTON, WV 25362

FORM WW-6

COUNTY NAME

PERMIT

03/21/2014