



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

June 13, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-4300757, 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: 6188

Farm Name: RAMEY, JAMES T. & ALLEY, W.F.

API Well Number: 47-4300757

Permit Type: Plugging

Date Issued: 06/13/2013

4300757P

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

1) Date: 5/23/2013
2) Operator's Well No. 806188 P&A
3) API Well No. 47-043-00757

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 835' Watershed McClarity Fork of Fourmile Creek
District Laurel Hill County Lincoln Quadrangle Nestlow, WV 7.5'
- 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 Hwy 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:

CK # 0016689
\$100.00

See Attached Sheet

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

Work Order approved by Inspector Ralph D Triplett Date June 12, 2013

06/14/2013

806188 P&A PROCEDURE

- 1) Prepare road and location, MIRU Service Rig
- 2) RIH with tools to check TD in 3 1/2" at approximately 1575'
- 3) Run W.S. to 1575', spot gel
- 4) Spot 150' cement plug 1575'-1425', pull W.S.
- 5) Cut 3 1/2" at free-point (approximately 1370') and pull
- 6) Run W.S. to 1370', load hole with gel
- 7) Spot 100' cement plug 1370'-1270', pull W.S.
- 8) Cut 6 5/8" at free-point (approximately 800') and pull
- 9) Run W.S. to 800', load hole with gel
- 10) Spot 150' cement plug 800'-650', pull W.S.
- 11) Attempt to pull 8 1/4" casing
 - A) If successful
 - a) Run W.S. to 255', load hole with gel
 - b) Spot 70' cement plug 255'-185'
 - c) Proceed to step #12
 - B) If unsuccessful
 - a) Run W.S. to 255'
 - b) Spot 100' cement plug 255'-155', pull W.S.
 - c) Cut 8 1/4" at free-point (approximately 120') and pull
 - d) Proceed to step #12,
- 12) Pull or run W.S. to 120', spot 120' cement plug 120'-surface
- 13) Pull W.S. and top off with cement
- 14) Erect monument and reclaim as prescribed by law

Received

JUN 3 2013

Office of Oil and Gas
WV Dept. of Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Wayne

47-043-00757
Well 806188 P+H

WELL RECORD

Permit No. Lin-757

Oil or Gas Well Gas
(KIND)

Company UNITED FUEL GAS CO.,
Address P.O. Box 1273, Charleston 25, W. Va.
Farm U. F. G. Co. Min. Tr. #1 Acres 22738.77
Location (waters) Fourteen Mile Cr.
Well No. 6188 Elev. 851.91
District Laurel Hill County Lincoln
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by UNITED FUEL GAS CO.,
P.O. Box 1273, Address Chas., 25, W. Va.
Drilling commenced 11-11-47
Drilling completed 3-3-48
Date Shot 3-5-48 From 2494 To 3203
With 4400# Det.
Open Flow 20 /10ths Water in 2 Inch
/10ths Merc. in _____ Inch
Volume 189-M Big Lime & Shale Cu. Ft.
Rock Pressure 325 lbs. 24 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water 25 feet _____ feet
Salt water _____ feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18			
10	20'	20'	Size of
8 1/4	235'	235'	
6 1/2	1320'	1320'	Depth set
5 8/16	1465'	Pulled	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

COAL WAS ENCOUNTERED AT 222 FEET 24 INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Surface			0	16			
Gravel			16	21			
Sand Rock			21	98	Water	25'	Hole Full
Slate			98	150			
Sand			150	215			
Slate			215	222			
Coal			222	224			
Sand			224	255			
Slate			255	385			
Slate & Shells			385	415			
Sand			415	470			
Slate & Shells			470	540			
Lime			540	554			
Sand			554	646			
Slate			646	735			
Sand			735	1105	Gas	780'	40/10 W 2" 267 M.
Slate			1105	1160			
Red Rock			1160	1210			
Blue Rock			1210	1226			
Red Rock			1226	1239			
Blue Rock			1239	1260			
Lime, Little			1260	1286			
Pencil Cave			1286	1293			
Big Lime			1293	1491	Gas	1412-1415	74/10 W 2" 363 M
Red Injun			1491	1501			
Gray Injun			1501	1564	Gas	1545'	Injun
Slate			1564	1609			
Lime			1609	1622			
Slate & Shells			1622	1940			
Lime			1940	1956			
Slate & Shells			1956	2070			
Brown Shale			2070	2082			
Berea Grit			2082	2100			
Shells & Slate			2100	2140			
Lime			2140	2161			
Brown Rock			2161	2208			
Light Slate			2208	2495			
Brown Shale			2495	2670			
Light Slate			2670	2850			



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(Over)

06/14/2013

4300757P

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Brown Shale			2850	2900	Test before acidized	32/10 W 2"	239 M
Light Shale			2900	2930	Acidized	12-24-47 with 1500 gal. acid	
Brown Shale			2930	3181	Test after acidization	32/10 W 2"	239 M.
White Slate			3181	3203			
Total Depth:			3203'				
					No Gas in Berea or Shale.		
					Not enough gas to test before shot.		
					Shot 3-5-48 with 4400# Det. 2,94-		
					3203. Test after shot 20/10 W 2"		
					189 M. in Big Lime and Shale.		
					Shut in 3-9-48 in 6-5/8" Casing.		

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Office of Oil and Gas
WV Dept. of Environmental Protection

Date May 6, 19 48.

APPROVED UNITED FUEL GAS CO., Owner

By J. H. Moore
(Title) Chief Engineer

06/14/2013

4300757P

WW4-A
Revised
2/01

1) Date: 5/23/2013
2) Operator's Well No. 806188 P&A
3) API Well No. 47-043-00757

Check # 5016689
\$100.00

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 James T. Ramey and
Address W.F. Alley, Jr.
P.O. Box 382
Salt Rock, WV 25559

(b) Name _____
Address _____

(c) Name _____
Address _____

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

Telephone 304-389-0350

5) Coal Operator
(a) Name New Eagle Mining Corp.
Address P.O. Box 1048
Holden, WV 25625

Coal Owner(s) with Declaration
(b) Name Pocahontas land Corp.
Address 800 Princeton Avenue
Bluefield, WV 24701

Name _____
Address _____

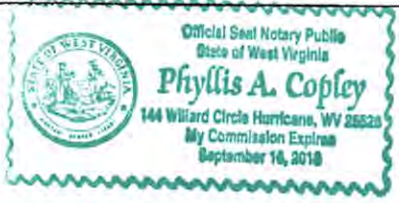
Coal Lessee with Declaration
(c) Name New Eagle Mining Corp.
Address P.O. Box 1048
Holden, WV 25625

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: [Signature]
Its: Operations Manager, Devonian District
Address: P.O. Box 18496
Oklahoma City, OK 73154-0496
Telephone: 405-935-4073

Received

Subscribed and sworn before me this 29th day of May the year of 2013
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2018

JUN 3 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

06/14/2013

4300757 P

Form WW-9
Rev. 02/01

Page _____ of _____
API Number 47-043-00757
Operator's Well No. 806188 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

Operator Name Chesapeake Appalachia, L.L.C. OP Code 494477557
Watershed McClarity Fork of Fourmile Creek Quadrangle Nestlow, WV 7.5'
Elevation 835' County Lincoln District Laurel Hill

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 Operations Manager - Devonian District

Subscribed and sworn before me this 29th day of May, 2013.

Phyllis A. Copley

Notary Public. JUN 3 2013

My Commission Expires September 16, 2018


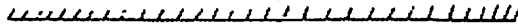
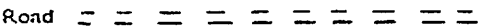

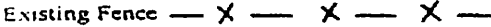

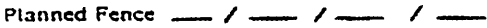





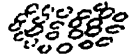

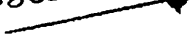


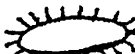

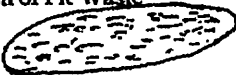

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06/14/2013

API #: 47-043-00757
 Operator's Well No. 806188 P&A

LEGEND

Property Boundary 	Diversion 
Road 	Spring 
Existing Fence 	Wet Spot 
Planned Fence 	Drain Pipe with size in inches 
Stream 	Waterway 
Open Ditch 	Cross Drain 
Rock 	Artificial Filter Strip 
North 	Pit: cut walls 
Buildings 	Pit: compacted fill walls 
Water wells 	Area for Land Application of Pit Waste 
Drill site 	

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: Raepl D. Tupwell
 Title: District Inspector
 Date: June 12, 2013
 Field Reviewed? () Yes () No

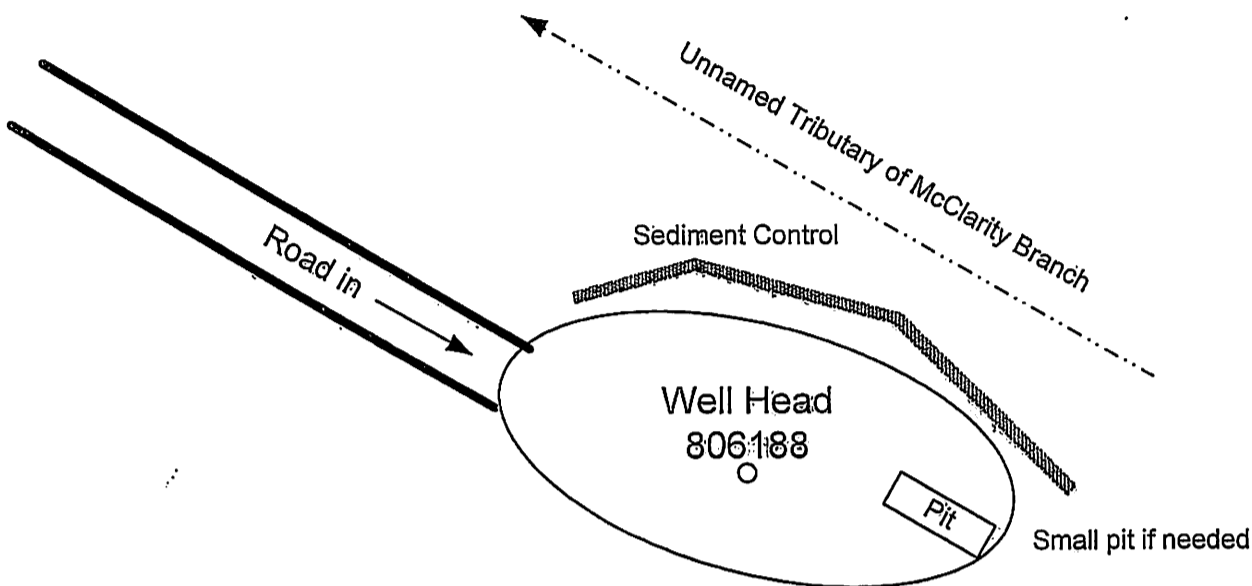
Diagram of Well Location 806188

API 47-043-00757

Field Office - Branchland

County - Lincoln

Surface Owner:
James T. Ramey &
W.F. Alley Jr.



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

Site Plan

Prepared by: Kris Aldridge
Date: 5/28/2013

No Scale

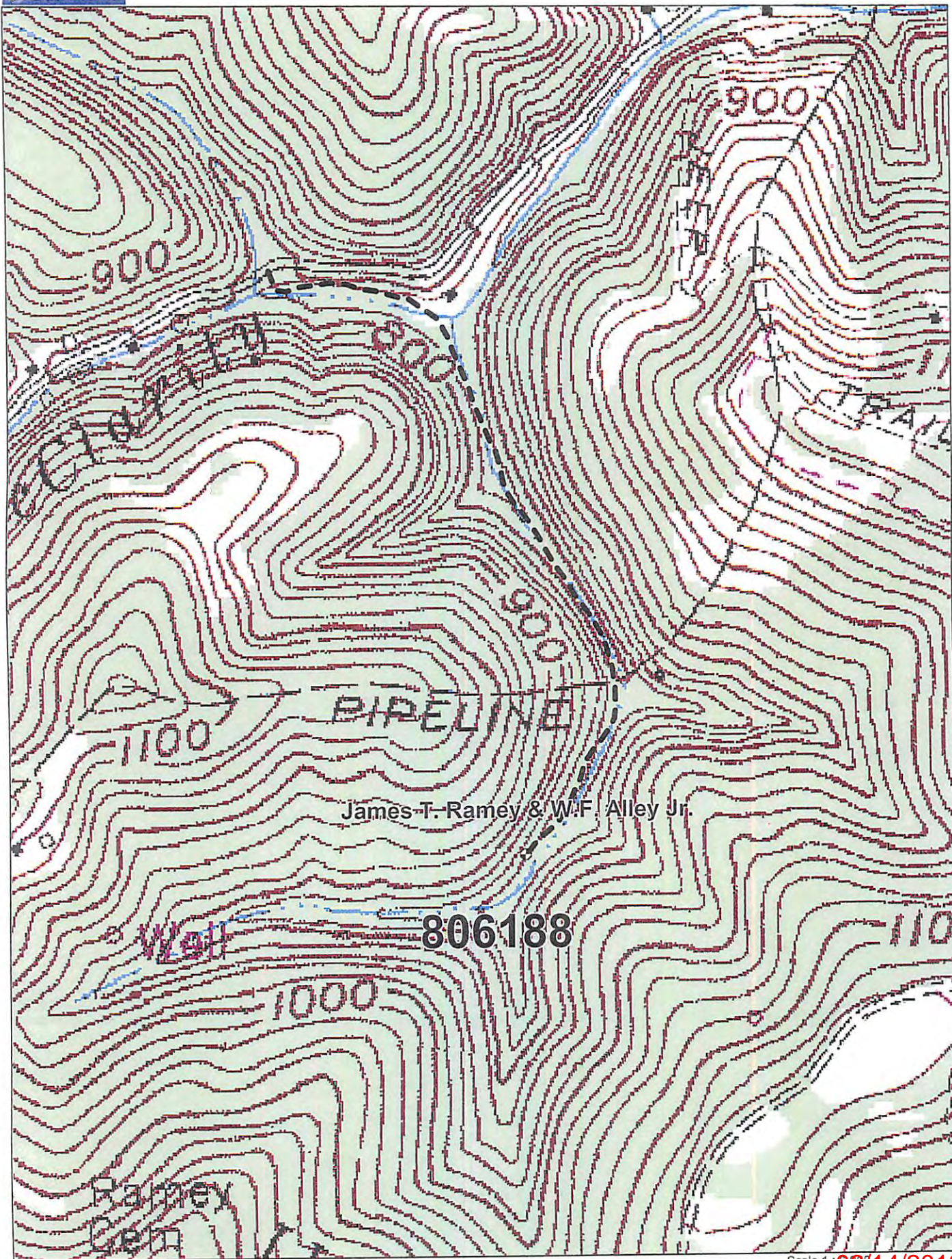
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Topographic Map of Access Road and
Well 806188 Location
API 47-043-00757
Field Office - Branchland
County -Lincoln

DELORME

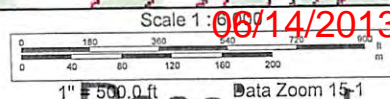
XMap® 7



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www.delorme.com



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JUN 3 2013

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

Office of Oil and Gas
WV Dept. of Environmental Protection

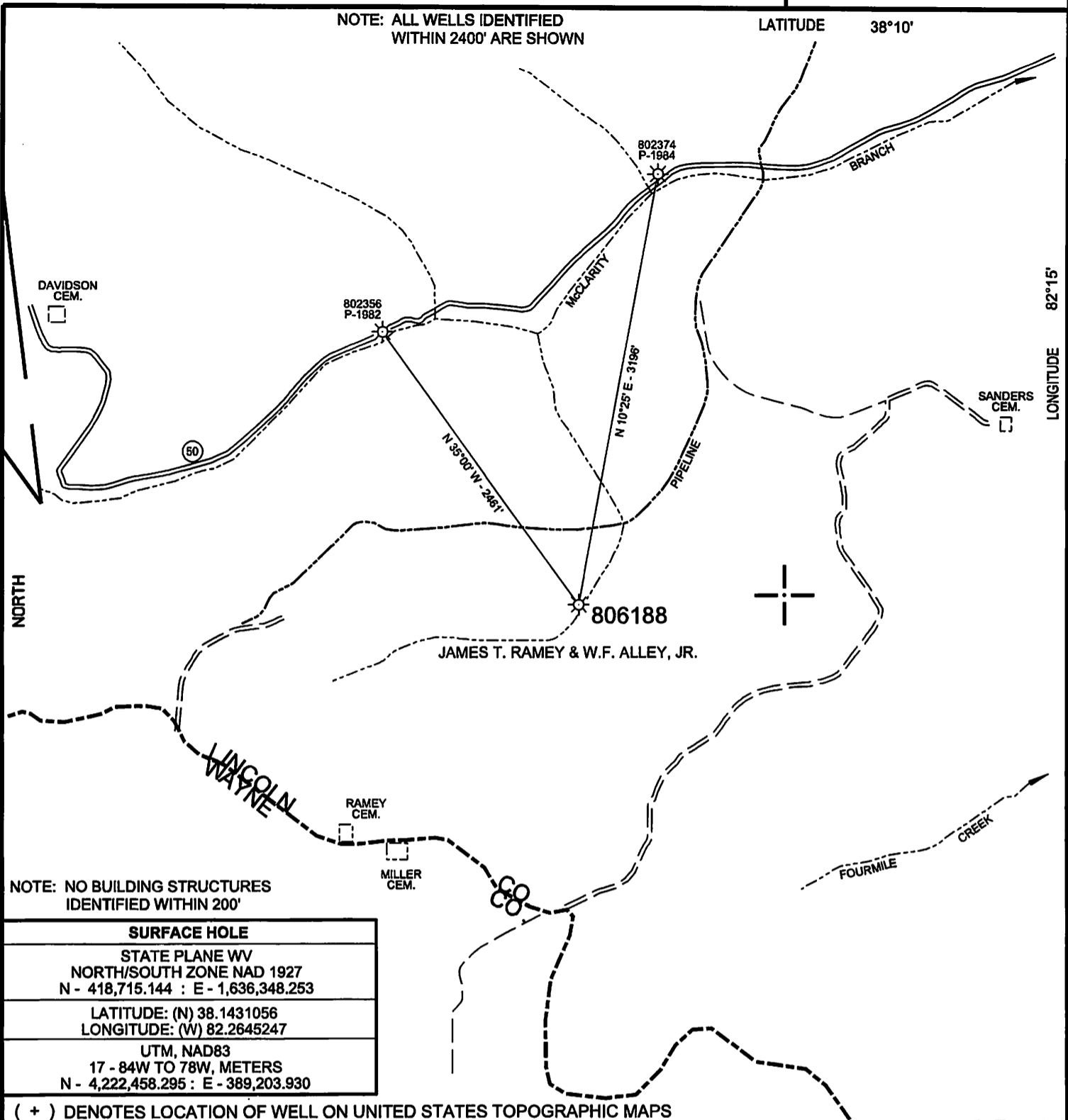
NOTE: ALL WELLS IDENTIFIED
WITHIN 2400' ARE SHOWN

LATITUDE 38°10'

4,172'

LONGITUDE 82°15'

8,570'



NOTE: NO BUILDING STRUCTURES
IDENTIFIED WITHIN 200'

SURFACE HOLE
STATE PLANE WV NORTH/SOUTH ZONE NAD 1927 N - 418,715.144 : E - 1,636,348.253
LATITUDE: (N) 38.1431056 LONGITUDE: (W) 82.2645247
UTM, NAD83 17 - 84W TO 78W, METERS N - 4,222,458.295 : E - 389,203.930

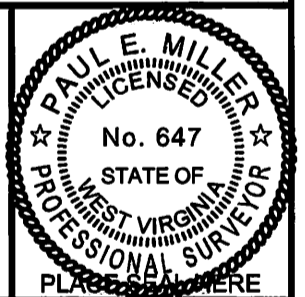
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO.	806188 P&A.DGN
DRAWING NO.	6188 P&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 REGU-
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
MENT 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 MARCH 15, 2013
OPERATOR'S WELL NO. 806188
API WELL NO.

47 043 00757 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 835' WATER SHED McCLARITY FORK OF FOURMILE CREEK
DISTRICT LAUREL HILL COUNTY LINCOLN
QUADRANGLE NESTLOW, WV 7.5'

SURFACE OWNER JAMES T. RAMEY & W.F. ALLEY, JR. ACREAGE -
OIL & GAS ROYALTY OWNER CHESAPEAKE APPALACHIA LLC LEASE ACREAGE
LEASE NO. FEE LANDS

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 X CLEAN OUT AND REPLUG ___
TARGET FORMATION _____ ESTIMATED DEPTH _____
WELL OPERATOR CHESAPEAKE APPALACHIA LLC DESIGNATED AGENT ERIC GILLISPIE
ADDRESS PO BOX 18496 OKLAHOMA CITY, OK 73154-0496 ADDRESS PO BOX 6050 CHARLESTON, WV 25362

COUNTY NAME

PERMIT

06/14/2013

FORM WW-6