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

January 09, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5101288, issued to CHEVRON APPALACHIA, 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 penalities 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: STARCOVIC 1H
Farm Name: STARCOVIC, STEPHEN
API Well Number: 47-5101288
Permit Type: Plugging
Date Issued: 01/09/2015

5101288P

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.

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WW-4B
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1) Date _____, 20_____
2) Operator's
Well No. 1H
3) API Well No. 47- 051 - 01288

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____

5) Location: Elevation 1186 Watershed Grave Creek
District Cameron County Marshall Quadrangle Cameron 7.5'

6) Well Operator Chevron Appalachia, LLC
Address 800 Mountain View Drive
Smithfield, PA 15478

7) Designated Agent N/A
Address _____

8) Oil and Gas Inspector to be notified
Name James Nicholson
Address P.O. Box 44
Moundsville, WV 26041

9) Plugging Contractor
Name See Work Order
Address _____

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

See Work Order

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

Work order approved by inspector James Nicholson Date 12/31/2014

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CHIEF OIL & GAS LLC

WELLBORE DATA AND SKETCH

Well: Starcovic #1H	**Quad: Cameron 7.5', Cameron District**	**Updated: 12/16/14**
County: Marshall	**State: West Virginia**	**Status: SI, W/O Pipeline**
Directions: See Prognosis	Location: 400' S Lat 39° 50' 00"	Survey:
Well Type: **Horizontal Well**	275' W Long 80° 35' 00"	API # 47-051-01288
Elevation: GL: 1168'	**Proposed P&A Well**	**Note: All depths MD unless noted**
DF: 1185'		
KB: 1186'		Build Location: Start: 7/6/09 End: 7/21/09
		Spud: 8/24/09
24" Hole @ 80'		Release Rig: 9/11/09
20" Conductor @ 80' Sanded-in		Completed: 12/22/09
		First Production:
17 1/2" Hole @ 1182'		
13 3/8" 54.5# Surface Csg @ 1172'		Set a 200', 25sxs cmt bal. plug at 2550', 1200', and 200'
Cemented w/ 850 sxs		
TOC @ surface		
		Bottom Hole Location (Scaled)
12 1/4" Hole @ 2510'		**Survey: 2992' N 15° W FSHL**
		True Lat N 39° 49' 56.1"
9 5/8" 36# Intermediate Csg @ 2495'		**True Long W 80° 35' 03.5" NAD27**
Cemented w/ 780 sxs		
TOC @ surface		Air/Foam Drilling Method - Rotary
		Rig - Union Drilling, LP #43 (KB: 18')
7 7/8" Hole @ 10365' MD (6827' TVD)		6% Bentonite gel between all cmt plugs
TOC @ 2050' by CBL		
KOP: 6410'		
Target Centerline - 6915' TVD		
Pen. Marcellus - 7028' MD (6888' TVD) VS 345'		
Maximum Deflection - 21.2 degree @ 6894'		
Maximum Angle - 92.8 degree @ 9112'		
Displacement - 3676' N 27.3 W		
Landing Point - 7200' MD (6915' TVD) VS 515'		
MWD Gamma run. No OH logs run.		
		Marcellus: 7028' - 10298' 980 Holes
12/16/09: Pumpco Frac w/ 7,732 BFW (Treated) & 174,700# 100 Mesh & 180,400# 40/70 Sand & 40# 40/70 RC Sand. TLTR: 88,556 bbls - 11th Stg		
12/16/09: Pumpco Frac w/ 8,019 BFW (Treated) & 175,200# 100 Mesh & 225,900# 40/70 Sand & 35,100# 40/70 RC Sd. LTR: 80,824 bbls - 10th Stg		
12/16/09: Pumpco Frac w/ 7,914 BFW (Treated) & 174,300# 100 Mesh & 225,700# 40/70 Sand & 31,000# 40/70 RC Sd. LTR: 72,805 bbls - 9th Stg		
12/15/09: Pumpco Frac w/ 7,977 BFW (Treated) & 174,900# 100 Mesh & 215,500# 40/70 Sand & 42,100# 40/70 RC Sd. LTR: 64,891 bbls - 8th Stg		Set a 5-1/2" CIBP at 6800'. Spot 75 sxs of 15.6ppg, 1.18 yield, class "A" cmt on top of CIBP. TOC @ 6100'
12/15/09: Pumpco Frac w/ 8,026 BFW (Treated) & 173,900# 100 Mesh & 215,900# 40/70 Sand & 48,900# 40/70 RC Sd. LTR: 56,914 bbls - 7th Stg		
12/15/09: Pumpco Frac w/ 8,253 BFW (Treated) & 169,600# 100 Mesh & 218,000# 40/70 Sand & 46,900# 40/70 RC Sd. LTR: 48,888 bbls - 6th Stg		
12/14/09: Pumpco Frac w/ 8,179 BFW (Treated) & 174,100# 100 Mesh & 216,700# 40/70 Sand & 42,500# 40/70 RC Sd. LTR: 40,635 bbls - 5th Stg		FILL W/ FRESH WATER & GEL
12/14/09: Pumpco Frac w/ 8,123 BFW (Treated) & 172,900# 100 Mesh & 214,500# 40/70 Sand & 41,600# 40/70 RC Sd. LTR: 32,456 bbls - 4th Stg	12/12/09: Pumpco Frac w/ 8,338 BFW Treated & 176,200# 100 Mesh & 227,600# 40/70 Sand & 27,700# 40/70 RC Sd. LTR: 16,221 bbls - 2nd Stg	5 1/2" 20# P-110 Csg @ 10337' Cemented w/ 960 sxs
12/14/09: Pumpco Frac w/ 8,112 BFW (Treated) & 173,100# 100 Mesh & 220,000# 40/70 Sand & 7,500# 40/70 RC Sd. LTR: 24,333 bbls - 3rd Stg	12/12/09: Pumpco Frac w/ 7,883 BFW Treated & 174,600# 100 Mesh & 193,900# 40/70 Sand. LTR: 7,883 bbls - 1st Stg	

PBTD: 10335'

TD: 10365'

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Site Prep

Notify WV DEP Oil and Gas Inspector 48hrs prior to MIRU rig

1. Hold Tailgate Safety Meeting and review JSA
2. MIRU containment (per site layout and needs) and surface rental equipment
3. MIRU mud tanks and auxiliary equipment
4. RU flowback lines.

Procedure

5. Mobilize work-over rig and pumping equipment to location
6. Spot rig and equipment in place
7. Check pressure on all casing and tubing strings. Note pressures on report. Bleed off pressure and kill well with kill weight fluid if needed.
8. MIRU E-line with 5k lubricator and test to 250 psi low for 5 minutes and 5,000 psi high.
9. RIH with a tbg plug and set in profile nipple at 6762'.
10. Test the tbg plug to 1000psi and record.
11. Set BPV inside the tubing hanger and ND tree.
12. NU the class III BOP and equipment (rams, manifold, lines etc). Ensure that 5k tbg safety valve is in the open position on the floor when handling tbg.
13. Test all breaks and BOP to 250 psi low for 5 minutes and 5,000 psi high (if pressure is higher, test to 500psi above known SITP) for 10 minutes, chart and record data with barton chart recorder and keep on file on location.
14. Retrieve BPV
15. *Fill the 5-1/2" csg lateral with 79bbls of fresh water*
16. TOOH with 2-3/8", 4.7#, N-80 tubing and BHA.
17. R/U W/L and RIH with 4.5" gauge ring to 6800'.
18. POOH with gauge ring. Make note if any tight spots.
19. RIH with 5-1/2" CIBP and set at 6800'.
20. RIH with 2-3/8" tbg and tag top of CIBP at 6800'. Break circulation with 140bbls of fresh water. Test 5-1/2" CIBP to 1000psi.

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21. *Spot a 700' plug with 75 sxs, 88.5 cuft of 15.6ppg, 1.18 yield, class "A" cmt. From 6800- 6100' TOC @ 6100'.*
22. *Spot a 200' plug from 2550' – 2350' with 25 sxs, 29.5 cuft of 15.6ppg, 1.18 yield, class "A" cmt. TOC @ 2350'.*
23. *Spot a 200' plug from 1200' – 1000' with 25 sxs, 29.5 cuft of 15.6ppg, 1.18 yield, class "A" cmt. TOC @ 1000'.*
24. *Spot a 200' plug from 200' to surface' with 25 sxs, 29.5 cuft of 15.6ppg, 1.18 yield, class "A" cmt. TOC surface.*
25. *NOTE: 6% Bentonite Gel will be run between all plugs*
26. ND the BOP and NU the tree. Test the tree to 3000psi and record.
27. RD work-over rig and equipment and move to next location.

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Starcovic 1H

"Temporary Abandonment Procedure"

MUST BE PLUGGED AS A PERMANENT PLUG. gmm

Expected Start Date: January 6, 2015

	1H
AFE Number	
API Number	47-051-01288

Service Rig Company	Nabors	County	Marshall
Wellhead	Weatherford	Township	Cameron, WV
Downhole Tools	Baker Hughes	Latitude	39° 50' 00"
		Longitude	80° 35' 00"

Objective:

Temporary abandonment of Starcovic 1H in accordance West Virginia's DEP requirements.

Completion Design Review:

Listed below are the members of the well team who were in attendance and agreement with the completion procedure as discussed.

Revised by:	Tony Raphael – Well Abandonment Engineer	12/30/14
Review by:	Garland Bledsoe – Project Manger	12/30/14
Revised by:	David Beasly – Completion Engineer	
Reviewed by:	Lisa Branden– Petroleum Engineer	
Reviewed by:	Pam Gellek – Production Engineer	
Reviewed by:	Matt Bower - Petroleum Engineer	

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IFO: Incident Free Operations

Chevron is committed to providing a safe working environment for all personnel through the tenets we live by such as ***Do it safely or not at all. Stop Work Authority*** means all personnel not only have the right but the responsibility to stop any potentially unsafe job.

Report all injuries, no matter how minor, 24/7 to Axiom Medical at 1-877-502-9466

Directions to Location

From Pittsburgh: Merge onto I-79 S via EXIT 64A toward Washington (20.9m), Merge onto I-70 W via EXIT 38 toward Wheeling (6.6m), Take EXIT 11 toward PA-221/Taylorstown. Turn right onto Prosperity Pike/PA-18/PA-221. Continue to follow PA-18. Once in Graysville turn right onto W Roy Furman Hwy/PA-21 (Crossing into West Virginia) W Roy Furman Hwy/PA-21 becomes WV-891. WV-891 becomes US-250 S (Waynesburg Ave). continue until you get in Camerom. Turn right onto Loudenville Rd/County Hwy-25. Turn left onto Main St/County Hwy-25. Continue to follow County Hwy-25. .3 miles past summit street, Turn right onto unmaked gravel road which will lead to the site location.

From Waynesburg PA, go West on SR 21 (26.1 mi) into West Virginia, continue on SR 891 (2.0 mi) to SR 250, follow Rt. 250 south towards Cameron for (3.7 mi), make a right on Loudenville Rd, follow for (0.5 mi) to the stop sign, make a right, then a left to stay on Loudenville Rd, follow for (0.8 Mi) to the location lease entrance on the Right.

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Well Information

Well #	Top Perf		RKB	Marker Joint	PBTD
	MD	TVD	MD	MD	MD
1H	7,140		18'		10,335'

	Dimensions and Pressure Data				
Size	Depth	Weight	Grade	Burst	Collapse
20"	80'				
13 3/8"	1172'	54.5 lbs/ft	J-55		
9 5/8"	2495'	36 lbs/ft	K-55		
5 1/2"	10,337'	20 lbs/ft	P-110	12,640 psi	11,080 psi

Capacity	
5 1/2"# 20 P-110 CSG	0.02210 bbl/ft

Current Status

Well is currently on line and flowing approximately 1.1 MMCFD of gas a day at 750 psi on the tubing. Less than 1 bbl of condensate produced per day.

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Starcovic 1H Wellbore Schematic (Current)

CHIEF OIL & GAS LLC

WELLBORE DATA AND SKETCH

Well: Starcovic #1H	**Quad: Cameron 7.5', Cameron District**	**Updated: 1/26/10**
County: Marshall	**State: West Virginia**	**Status: SI, W/O Pipeline**
Directions: See Prognosis	Location: 400' S Lat 39° 60' 00"	Survey:
Well Type: Horizontal Well	275' W Long 80° 35' 00"	API # 47-051-01288
Elevation: GL: 1169'	Completed Well	Note: All depths MD unless noted

DF: 1185'
KB: 1189'

24" Hole @ 80'
20" Conductor @ 80' Ganded-in

17 1/2" Hole @ 1182'

13 3/8" 54.5# Surface Csg @ 1172'
Cemented w/ 850 sxs
TOC @ surface

12 1/4" Hole @ 2510'

9 5/8" 36# Intermediate Csg @ 2495'
Cemented w/ 780 sxs
TOC @ surface

7 7/8" Hole @ 10368' MD (6827' TVD)

TOC @ 2080' by CBL

KOP: 6410'
Target Centerline - 6915' TVD
Pen. Marcellus - 7028' MD (6888' TVD) VS 346'
Maximum Deflection - 31.2 degree @ 6894'
Maximum Angle - 92.8 degree @ 9112'
Displacement - 3676' N 27.3 W
Landing Point - 7200' MD (6918' TVD) VS 518'
MWD Gamma run. No OH logs run.

12/15/09: Pumpco Frac w/ 7,732 BFW (Treated) &
174,700# 100 Mesh & 180,400# 40/70 Sand &
40# 40/70 RC Sand. TLTR: 68,598 bbls - 11th Stg

12/15/09: Pumpco Frac w/ 8,019 BFW (Treated) &
179,200# 100 Mesh & 225,900# 40/70 Sand &
35,100# 40/70 RC Sd. LTR: 80,824 bbls - 10th Stg

12/15/09: Pumpco Frac w/ 7,914 BFW (Treated) &
174,300# 100 Mesh & 225,700# 40/70 Sand &
31,600# 40/70 RC Sd. LTR: 72,859 bbls - 9th Stg

12/15/09: Pumpco Frac w/ 7,977 BFW (Treated) &
174,900# 100 Mesh & 215,600# 40/70 Sand &
42,100# 40/70 RC Sd. LTR: 64,891 bbls - 8th Stg

12/15/09: Pumpco Frac w/ 8,026 BFW (Treated) &
173,900# 100 Mesh & 215,900# 40/70 Sand &
48,900# 40/70 RC Sd. LTR: 56,914 bbls - 7th Stg

12/15/09: Pumpco Frac w/ 8,253 BFW (Treated) &
169,500# 100 Mesh & 218,000# 40/70 Sand &
46,900# 40/70 RC Sd. LTR: 48,888 bbls - 6th Stg

12/14/09: Pumpco Frac w/ 8,179 BFW (Treated) &
174,100# 100 Mesh & 215,700# 40/70 Sand &
42,600# 40/70 RC Sd. LTR: 40,636 bbls - 5th Stg

12/14/09: Pumpco Frac w/ 8,123 BFW (Treated) &
172,900# 100 Mesh & 214,600# 40/70 Sand &
41,600# 40/70 RC Sd. LTR: 32,456 bbls - 4th Stg

12/14/09: Pumpco Frac w/ 8,113 BFW (Treated) &
173,100# 100 Mesh & 220,000# 40/70 Sand &
7,500# 40/70 RC Sd. LTR: 24,333 bbls - 3rd Stg

12/12/09: Pumpco Frac w/ 8,338 BFW Treated
& 176,200# 100 Mesh & 227,600# 40/70 Sand &
27,700# 40/70 RC Sd. LTR: 16,221 bbls - 2nd Stg

12/12/09: Pumpco Frac w/ 7,883 BFW Treated
& 174,600# 100 Mesh & 193,900# 40/70 Sand.
LTR: 7,883 bbls - 1st Stg

2-3/8" # 4.7 tbg set @ 7075'

EOT @ 7075'

Marcellus:	Top @ 7028'	980 Holes
11th Stg Perfs:	7140' - 7356'	90 Holes
10th Stg Perfs:	7439' - 7662'	90 Holes
9th Stg Perfs:	7732' - 7935'	80 Holes
8th Stg Perfs:	8000' - 8226'	90 Holes
7th Stg Perfs:	8298' - 8522'	90 Holes
6th Stg Perfs:	8592' - 8818'	90 Holes
5th Stg Perfs:	8889' - 9114'	90 Holes
4th Stg Perfs:	9184' - 9410'	90 Holes
3rd Stg Perfs:	9480' - 9706'	90 Holes
2nd Stg Perfs:	9776' - 10002'	90 Holes
1st Stg Perfs:	10073' - 10298'	90 Holes

PBTD 10339'
TD: 10368'

5 1/2" 20# P-110 Csg @ 10337'
Cemented w/ 960 sxs

Starcovic 1H Wellbore Schematic (Proposed T/A)

5101288P

dep

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

Joe Manchin III, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.org

July 01, 2009

WELL WORK PERMIT

Horizontal Well

This permit, API Well Number: 47-5101288, issued to AB RESOURCES PA, 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.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: STARCOVIC 1H
Farm Name: STARCOVIC, STEPHEN
API Well Number: 47-5101288
Permit Type: Horizontal Well
Date Issued: 07/01/2009

Promoting a healthy environment.

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 06/17/2010
API #: 47-051-01288

Farm name: Starcovic Operator Well No.: 1H

LOCATION: Elevation: 1186 KB' Quadrangle: CAMERON 7.5'

District: CAMERON County: MARSHALL
Latitude: 400 Feet South of 39 Deg. 50 Min. 00 Sec.
Longitude 275 Feet West of 80 Deg. 35 Min. 00 Sec.

Company: AB RESOURCES

Address:6802 W Snowville Rd. Suite E Brecksville, OH 44141	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	13 3/8	1172	1172	1814 CTS.
	9 5/8	2495	2495	1474
Agent:CT Corporation Systems	5 1/2	10377	10377	1607
Inspector:Tristan Jenkins				
Date Permit Issued:7/1/2009				
Date Well Work Commenced:8/24/2009				
Date Well Work Completed: 12/22/2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Vertical Depth (ft):6915				
Total Measured Depth (ft):10430				
Fresh Water Depth (ft.):na				
Salt Water Depth (ft.):na				
Is coal being mined in area (N/Y)?Y				
Coal Depths (ft.):857				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation MRCL Pay zone depth (ft) 7028
Gas: Initial open flow 0 MCF/d Oil: Initial open flow NA Bbl/d
Final open flow 7464 MCF/d Final open flow NA Bbl/d
Time of open flow between initial and final tests 59 Hours
Static rock Pressure 2150 psig (surface pressure) after 59 Hours

Second producing formation NA 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

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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.

James K Welson
Signature

6/17/10
Date

5101288P

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

7140'-10298'

1913500 lbs 100mesh sand

2717400 lbs 40/70 mesh sand

88556 bbls FW

Formations Encountered: Surface:1186 KB'	Top Depth	/	Bottom Depth
SAND	0		80
SHALE/SAND	80		857
COAL	857		870
SHALE	870		5000
SAND	5000		5270
SHALE	5270		5370
SAND	5370		5520
SHALE	5520		5550
SAND	5550		5800
SHALE	5800		6644
MIDDLESEX FM	6644		6713
BURKETT FM	6713		6766
TULLY FM	6766		6791
HAMILTON FM	6791		6887
MARCELLUS FM	6887		10365

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WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: December 22, 2014
2) Operator's Well Number
Starcovic 1H
3) API Well No.: 47 - 051 - 01288

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:
(a) Name: Stephen M & Kimberly A Starcovic
Address: RD 4 Box 152, 152 Loudenville Rd.
Cameron, WV 26033
(b) Name:
Address:
(c) Name:
Address:

6) Inspector: James Nicholson
Address: P.O. Box 44
Moundsville, WV 26041
Telephone: 304-552-3874

5) (a) Coal Operator
Name:
Address:
(b) Coal Owner(s) with Declaration
Name: Consolidated Coal Company
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
Name: Stephen M & Kimberly A Starcovic
Address: RD 4 Box 152, 152 Loudenville Rd.
Cameron, WV 26033
(c) Coal Lessee with Declaration
Name:
Address:

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: Chevron Appalachia, LLC
By: - Alex Genovese
Its: Construction Permitting Team Lead
Address: 800 Mountain View Drive
Smithfield, PA 15478
Telephone: 724-564-370

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Laura Savage, Notary Public
Georges Twp., Fayette County
My Commission Expires Sept. 17, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Commonwealth of Pennsylvania
County of Fayette
Subscribed and sworn before me this 23 day of December, 2014
Laura Savage Notary Public
My Commission Expires September 17, 2018

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.

5101288P

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1000 Consol Energy Drive
Canonsburg, PA 15317

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PS Form 38

7014 2120 0002 1442 6152

Stephen M. & Kimberly A. Starcovic
RD 4 Box 152
152 Loudenville Rd
Cameron, WV 26033

RECEIVED
Office of Oil and Gas

DEC 31 2014

WV Department of
Environmental Protection

5100128801

WW-9
(9/13)

API Number 47 - 051 - 01288
Operator's Well No. Starcovic 1H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) Grave Creek Quadrangle Cameron 7.5'

Elevation 1170' County Marshall District Cameron

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

Will a pit be used? Yes ☐ No ☑

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes ☐ No ☐ If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes: ANY EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY. gwm

_____ 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? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA Plugging well

-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. N/A

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-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) Branden Weimer

Company Official Title Permitting Team Lead

Subscribed and sworn before me this 9th day of January, 20 15

Kristen Brooks Notary Public

My commission expires September 2, 2018

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Kristen Brooks, Notary Public
Smithfield Boro, Fayette County
My Commission Expires Sept. 2, 2018
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

5100128P

Form WW-9

Operator's Well No. Starcovic 1H

Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer type _____

Fertilizer amount _____ lbs/acre

Mulch _____ Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

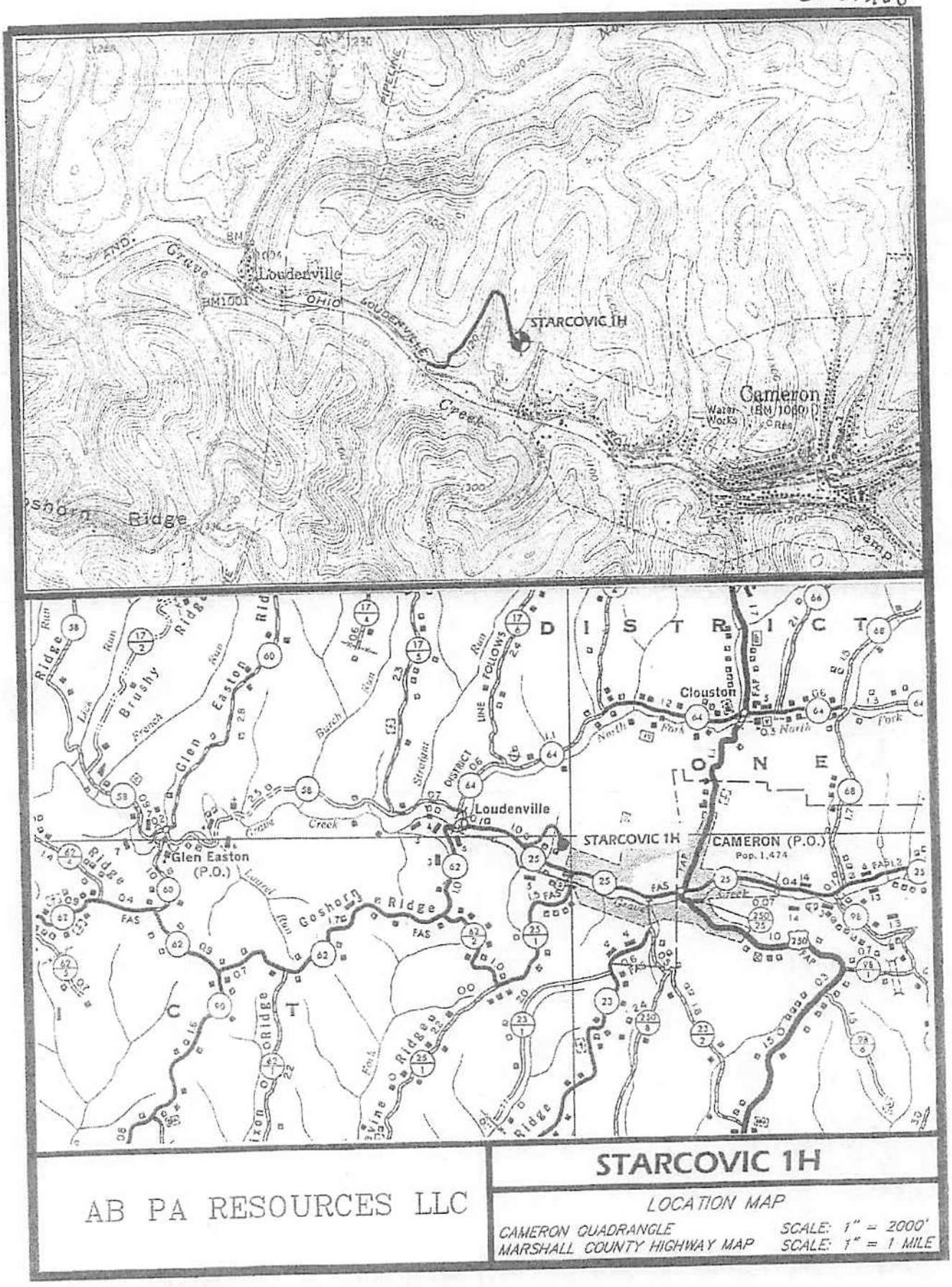
Comments: _____

Title: _____ Date: _____

Field Reviewed? (_____) Yes (_____) No

5101288P

51-01288



AB PA RESOURCES LLC

STARCOVIC 1H

LOCATION MAP

CAMERON QUADRANGLE *SCALE: 1" = 2000'*

MARSHALL COUNTY HIGHWAY MAP *SCALE: 1" = 1 MILE*

5101288 P

WW-7
8-30-06

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

API: 47-051-01288 WELL NO.: 1H

FARM NAME: Starcovic

RESPONSIBLE PARTY NAME: Chevron Appalachia, LLC

COUNTY: Marshall DISTRICT: Cameron

QUADRANGLE: Cameron 7.5'

SURFACE OWNER: Stephen M & Kimberly A Starcovic

ROYALTY OWNER: Stepehn M & Kimberly A Starcovic

UTM GPS NORTHING: 4409218.51

UTM GPS EASTING: 535582.18 GPS ELEVATION: 1170'

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:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS ____: Post Processed Differential _____

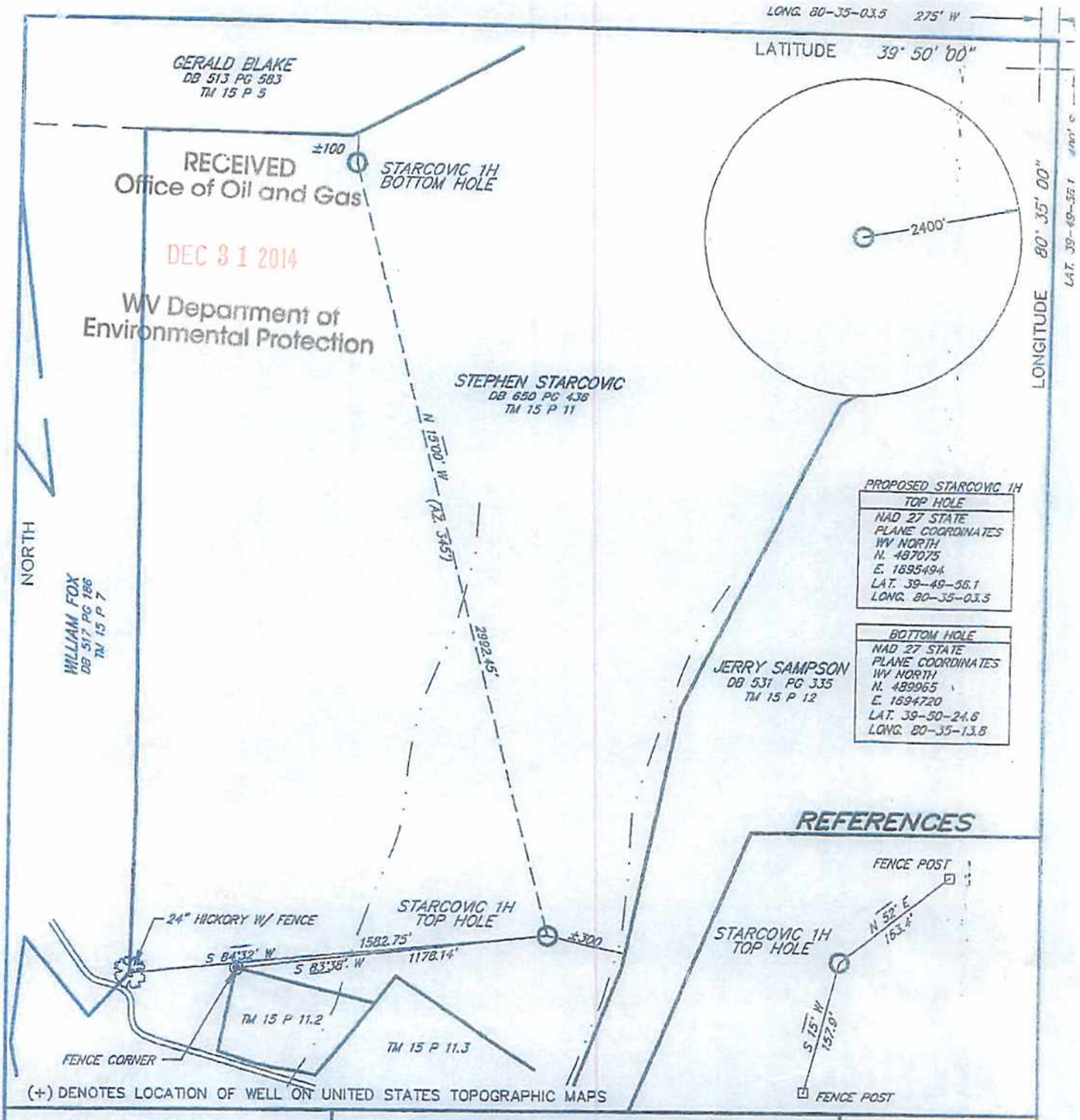
Real-Time Differential _____

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 Construction Permitting Lead Title 1-9-15 Date

5101391P



FILE NO. 07146
DRAWING NO. ____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 : 2500
PROVEN SOURCE OF ELEVATION GPS OBSERVATION

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) _____

R.P.E. _____ L.L.S. 1956

PLACE SEAL HERE

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

DATE JUNE 18 ,20 09
OPERATOR'S WELL NO. STARCOVIC 1H
API WELL NO.
47 - 051 - 01288 P
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ X SHALLOW ___
LOCATION: ELEVATION 1168.2 WATERSHED GRAVE CREEK
DISTRICT CAMERON COUNTY MARSHALL
QUADRANGLE CAMERON 7.5'
SURFACE OWNER STEPHEN STARCOVIC ACREAGE 168.0
OIL & GAS ROYALTY OWNER STEPHEN STARCOVIC LEASE ACREAGE 168.0
LEASE NO. ____
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Marcellus ESTIMATED DEPTH 6985TVD 9735MD
WELL OPERATOR A B RESOURCES PA LLC DESIGNATED AGENT CT Corporation System
ADDRESS 6802 W. SNOWVILLE ROAD SUITE E, BRECKSVILLE, OHIO 44141 ADDRESS 707 Virginia Street, East, Charleston, WV 25301

COUNTY NAME
PERMIT

FORM WW-6