

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: 47-5101391, 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 2H

Farm Name: STARCOVIC, STEPHEN M. & KIN

API Well Number: 47-5101391 Permit Type: Plugging

Date Issued: 01/09/2015

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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 Rev. 2/01

1) Date December 22 2) Operator's Well No. Starcovic 2H 3) API Well No. 47-051 -01301

WV Department of Environmental Protection

	DEPARTMENT OF ENV	WEST VIRGINIA VIRONMENTAL PROTECTION F OIL AND GAS
		ERMIT TO PLUG AND ABANDON
33		aid injection/ Waste disposal/
41		Inderground storage) Deep/ Shallow
-1	1190	Watershed Grave Creek
2)	Location: Elevation 1190' District Cameron	County Marshall Quadrangle Cameron 7.5'
		N/A
6)	Well Operator Chevron Appalachia, LLC Address 800 Mountain View Drive	7) Designated Agent N/A
	Address 800 Mountain View Drive Smithfield, PA 15478	Address
	Oliminios, 177 10770	-
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
20	Name James Nicholson	Name See work order
	Address P.O. Box 44	Address
	Mounsville, WV 26041	
	See attached work order	RECEIVED Office of Oil and Gas
		WV Department of Environmental Protection
	ification must be given to the district k can commence.	oil and gas inspector 24 hours before permitted
Norl	k order approved by inspector	res Nicholson Date 12/31/2014



Site Prep

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

- 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
- Check pressure on all casing and tubing strings. Note pressures on report.Bleed off pressure and kill well with kill weight fluid if needed.
- 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 6769'.
- 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. R/U rig floor and tubing handling equipment.
- 16. Fill the 5-1/2" csg lateral with fresh water to 6500'
- 17. TOOH with 2-3/8", 4.7#, N-80 tubing and BHA.
- 18. R/U W/L and RIH with 4.5" gauge ring to 6500'.
- 19. POOH with gauge ring. Make note if any tight spots.
- 20. RIH with 5-1/2" CIBP and set at 6500'.
- 21. RIH with 2-3/8" tbg and tag top of CIBP at 6500'. Break circulation with 140bbls of fresh water. Test 5-1/2" CIBP to 1000psi.
- 22. Spot a 700' plug with 75 sxs, 88.5 cuft of 15.6ppg, 1.18 yield, class "A" cmt. from



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- 6500' 5800' TOC @ 5800'.
- 23. Spot a 200' plug from 2400' 2200' with 25 sxs, 29.5 cuft of 15.6ppg, 1.18 yield, class "A" cmt. TOC @ 2000'.
- 24. Spot a 200' plug from 1200' 1000' with 25 sxs, 29.5 cuft of 15.6ppg, 1.18 yield, class "A" cmt. TOC @ 1000'.
- 25. 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.
- 26. NOTE: 6% Bentonite Gel will been run between all plugs
- 27. ND the BOP and NU the tree. Test the tree to 3000psi and record.
- 28. RD work-over rig and equipment and mobilize rig to yard.

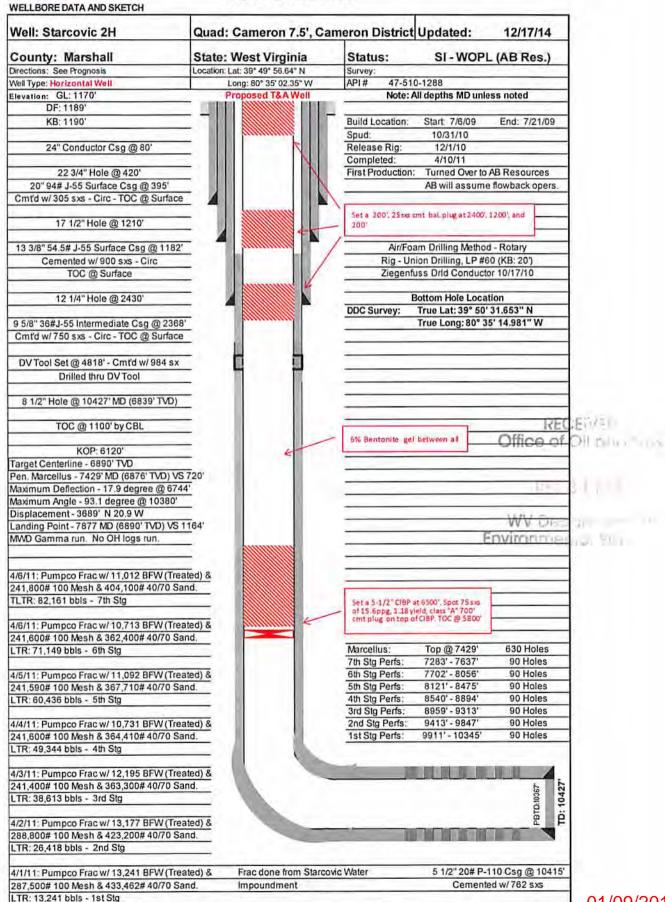
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DEC 8 1 2014

WV Department of Environmental Protection



CHIEF OIL & GAS LLC





Starcovic 2H

"Temporary Abandonment Procedure"

PERMANENT. Que my

MOST BE PLUGGED

Expected Start Date: January 12, 2015

	2H
AFE Number	
API Number	47-051-01391

Service Rig Company

Wellhead

Downhole Tools

Nabors

Weatherford

Baker Hughes

County Township

Latitude Longitude Marshall

Cameron, WV

39° 49' 56.10" North

80° 35' 05.50" West RECEIVED

Office of Oil and Gas

DEC #1 DW

Objective:

WV Department of

Temporary abandonment of Starcovic 2H in accordance West Virginia's DEP requirements of Profession

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	



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.

Office of Oil and Gas

DEC 3 1 2014







Well Information

Well#	Тор	Perf	RKB	Marker Joint	PBTD
	MD	TVD	MD	MD	MD
2H	7,283		20'		10,367

	Dimensions and Pressure Data				
Size	Depth	Weight	Grade	Burst	Collapse
24"	80'	14 - 14 - 1			P. P. S. W. S. S.
20	395'	94	J-55		
13 3/8"	1182'	54.5 lbs/ft	J-55		
9 5/8"	2368'	36 lbs/ft	K-55		4
5 1/2"	10,415'	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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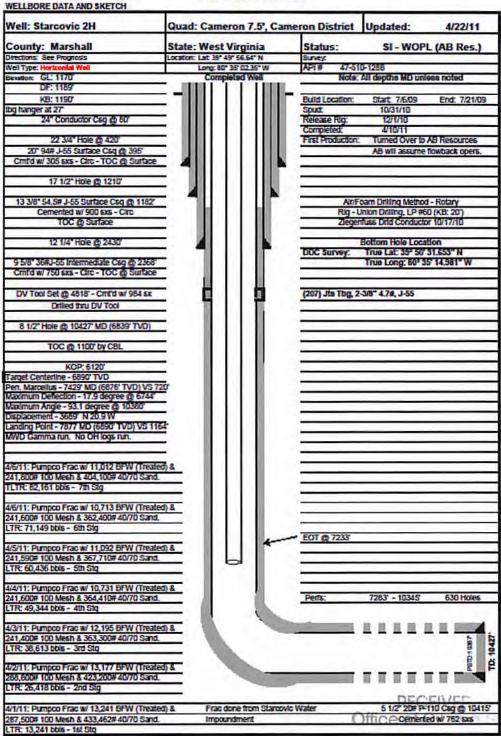
DEC S 1 TH

WV Department of Environmental Protection



Starcovic 2H Wellbore Schematic (Current)

CHIEF OIL & GAS LLC



DEC 8 1 7010

WW-4A Revised 6-07

1) Date:	December 22, 2014 Tental Protection
2) Operator	's Well Number
Starcovic 2H	

3) API Well No.: 47 -

051 01391

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Ow	ner(s) to be served:	5) (a) Coal Operator	
(a) Name	Stephen M. & Kimberly A. Starcovic	√ Name	
Address	RD 4 Box 152, 152 Loudenville Rd.	Address	
	Cameron, WV 26033		
(b) Name		(b) Coal Own	ner(s) with Declaration
Address		Name	Consolidated Coal Company
		Address	1000 Consol Energy Drive
			Canonsburg, PA 15317
(c) Name		Name	Stephen M. & Kimberly A. Starcovic
Address		Address	RD 4 Box 152, 152 Loudenville Rd. RFC
			Cameron, WV 26033 Office of Chil
6) Inspector	James Nicholson	(c) Coal Less	see with Declaration
Address	P.O. Box 44	Name	
	Moundsville, WV 26041	Address	DEC 2 1
Telephone	304-552-3874		
The state of the s			WV DE

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 Cheyron Appalachia, LLC By: Construction Permitting Team Lead Its: 800 Mountain View Drive Address Smithfield, PA 15478 724-564-3700 Telephone Communicates of Pennsylvania COMMONWEALTH OF PENNSYLVANIA

Country of Fayette 2014 Subscribed and sworn before me this Luna Jan 195

NOTARIAL SEAL Laura Savage, Notary Public Georges Twp., Fayette County

My Commission Expires

Notary Public

My Commission Expires Sept. 17, 2018 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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.

Domestic Mail Or	240	
OF F	ICIAL	USE
Sent To Er Street & Apt or PO Box N City, State, 1	nsolidated Coongineering & O Support/C Attn: And 000 Consol Ene Canonsbura, P	perations coal lyst ergy Drive

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WV Department of Environment distribution

CERTIFIED MAIL® RECEIPT 61.52 Domestic Mail Only Postage Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees \$
Stephen M. & Kimberly A. Starcovic RD 4 Box 152 Street & Apt or PO Box I 152 Loudenville Rd Cameron, WV 26033 City, State,

7442

2320 0002

PULL

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DEC 8 1 2014

WV Deparation Environmental Procession WW-9 (9/13)

API Number 47 -	051	- 01391	
Operator's	Well No	Starcovic 2H	

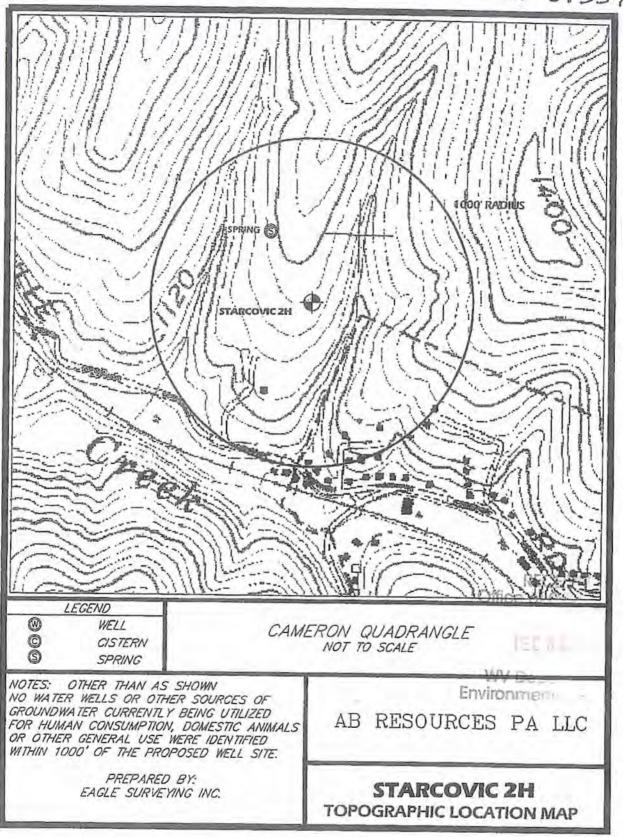
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalac	ihia, LLC	OP Code 49449935	
Watershed (HUC 10) Grave Co		drangle Cameron 7.5'	
Watershed (HUC 10)	Qua	drangle	
Elevation 1170	County Marshall	District Cameron	
Do you anticipate using more the Will a pit be used? Yes	nan 5,000 bbls of water to complete the pr	roposed well work? Yes	No 🗸
If so, please describe a	nticipated pit waste:		
Will a synthetic liner b	e used in the pit? Yes No	If so, what ml.?	The second secon
Land Unde Reus Off S	thod For Treated Pit Wastes: Application erground Injection (UIC Permit Number te (at API Number Site Disposal (Supply form WW-9 for dispression)	OF PROP	EFFLUENT MUST BE IN TANKS AND DISPOSED ERLY, OMM
Will closed loop system be used	1? If so, describe: N/A		
Drilling medium anticipated for	r this well (vertical and horizontal)? Air,	freshwater, oil based, etc. NA Plu	gging well
-If oil based, what type	e? Synthetic, petroleum, etc		Office of Oil
Additives to be used in drilling	medium?		
Drill cuttings disposal method?	Leave in pit, landfill, removed offsite, e	tc. N/A	DEC 9 1 201
	to solidify what medium will be used? (c	ement, lime, sawdust)	MATRA
-Landfill or offsite nar	ne/permit number?	Env	WV Dep
on August 1, 2005, by the Offic provisions of the permit are en law or regulation can lead to en I certify under penalt application form and all attac obtaining the information, I b	and and agree to the terms and condition to of Oil and Gas of the West Virginia Designated by law. Violations of any term forcement action. You of law that I have personally examing the character of the theorem and that, based on my believe that the information is true, accompormation, including the possibility of finding the possibility of	epartment of Environmental Prot in or condition of the general pe ed and am familiar with the in inquiry of those individuals in trate, and complete. I am awa	ection. I understand that the ermit and/or other applicable formation submitted on this immediately responsible for
Company Official Signature_	Thethin		
Company Official (Typed Nan			
Company Official Title Permi	tting Team Lead		
Subscribed and sworn before in Hautture	ne this 941 day of JUN L'ANOUN SEPULMUU 2, 2019	Notary Public	COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Kristen Brooks, Notary Public Smithfield Boro, Fayette County My Commission Expires Sept. 2, 2018 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Form WW-9			Onerator's W	ell No. Starcovic 2H
Chevron Appalachia	a, LLC			
Proposed Revegetation Treat	_			
Lime	Tons/acre or to con	rrect to pH		
Fertilizer type				
Fertilizer amount		Ibs/acre		
Mulch		Tons/acre		
		Seed Mixtures		
Те	mporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre
				
				
Drawing(s) of road, location, provided) Photocopied section of invol Plan Approved by:	ved 7.5' topographic sho	eet.		RECEIVED
Comments:				OLOH GLACIE
				25.4
				Би
			Environm	ento: 4
Title:		Date:		
Field Reviewed? (_

51-01354H



WW-7 8-30-06



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

API: 47-051-01391	well no.: 2	H	
FARM NAME: Starcovic			
RESPONSIBLE PARTY NAME: C	hevron Appalachia	a, LLC	
COUNTY: Marshall	Ca	meron	
QUADRANGLE: Cameron 7.	.5'		
SURFACE OWNER: Stephen	M & Kimberly A St	tarcovic	
ROYALTY OWNER: Stepehn	M & Kimberly A S	tarcovic	
UTM GPS NORTHING: 440921			
UTM GPS EASTING: 535534.6		ION: 1170'	
preparing a new well location plat for a above well. The Office of Oil and Gas the following requirements: 1. Datum: NAD 1983, Zone: I height above mean sea leve 2. Accuracy to Datum – 3.05 ii 3. Data Collection Method: Survey grade GPS: Post Proc	will not accept GPS coordinate 17 North, Coordinate Units: mol (MSL) – meters. meters	es that do not meet	
Real-Tim	e Differential	ifferential WV Department of	
Mapping Grade GFS I osci riocessed Differential		Environmental Protection	
Real-1	Time Differential		
4. Letter size copy of the top 1 the undersigned, hereby certify this d belief and shows all the information re prescribed by the Office of Oil and Ga	quired by law and the regulation	knowledge and	
Signature	Title	1-4-/5 Date	

