

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, June 28, 2021
WELL WORK PLUGGING PERMIT
Not Available Plugging

VIKING INTERNATIONAL RESOURCES CO., INC. 1300 FORT PIERPONT DR., SUITE 201 MORGANTOWN, WV 26508

Re: Permit approval for HECK 30 47-085-08022-00-00

This well work permit 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 any additional specific 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. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, 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 35 CSR 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) 926-0450.

Operator's Well Number: HECK 30

Farm Name: FLANNERY, DONALD & ALL

U.S. WELL NUMBER: 47-085-08022-00-00

Not Available Plugging Date Issued: 6/28/2021



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.
- 4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

WW-4B Rev. 2/01

1) Date	, 2021
2) Operator's	
Well No. Heck#	30
3) API Well No.	47-085 - 08022

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

APPLICATION FOR A PERM	IT TO PLUG AND ABANDON
4) Well Type: Oil/ Gas x/ Liquid (If "Gas, Production x or Und	linjection/ Waste disposal/ derground storage} Deep/ Shallow
5) Location: Elevation 850' District Grant	Watershed Gillespie Run County Ritchie Quadrangle Cairo
6) Well Operator Address Virco Address Morgantown, WV 26508	7) Designated Agent Brittany Woody Address Morgantown, WV 26508
8) Oil and Gas Inspector to be notified Name Derek Haught Address PO Box 85 Smithville, WV 26178	9)Plugging Contractor Name NA Address
10) Work Order: The work order for the man See Attachment	ner of plugging this well is as follows:
	Office of Oil and Gas
	MAY 1 0 2021
	WV Department of Environmental Protection
Notification must be given to the district work can commence.	oil and gas inspector 24 hours before permitted
Work order approved by inspector	M Haught Date 5/5/21



Production Engineer(s) -

Responsible for providing a working procedure specified for the well that the work is being performed on. Responsible for coordinating work and seeing that it is finished in a timely manner.

Procedure for Setting Downhole Plug:

- 1. Verify all HSE requirements are understood and followed
- 2. Verify proper documentation is included in working procedure
- MIRU plugging rig and equipment. Install all sediment and erosion controls and secondary containment.
- 4. Dig out around wellhead and set 4-5 ft of 20" conductor. Hand cement outside of conductor with bag cement.
 - a. This is to control and capture inadvertent returns from the backside of the 6-5/8" casing
- Check pressures and bleed off if present. RU and pull rods and tubing out of the well if present. Tally tubing if pulled and then NORM test.
- 6. Check TD with cable tools. Top of Fish(TOF) should be @ 1600ft
 - a. NOTE: If TD is significantly different from the well record TD notify WVDEP Inspector as well as SWN manager and engineer
- 7. TIH w/ work string to TOF 1600ft, pump tubing capacity, pump 30 bbls of 6% gel, spot cement plug from 1600 1285 ft (57 sacks Class A)
- 8. TOOH w/ work string above cement plug and flush tubing to ensure cement is clear of pipe. WOC.
- 9. Check TOC @ 1285 ft, reset plug if needed, if not TOOH w/ work string to 900 ft
- 10. Pump 20 bbls of 6% gel then spot cement plug from 900 ft 800 ft (17 sacks Class A)
- 11. TOOH w/ work string. Find free point on 6 5/8" casing (Est. free point @ 600 -700 ft), and cut/rip casing (around 650 ft)
- 12. TOOH w/ 65/8" casing pulling several joints
- 13. TIH w/ work string to set cement plug across casing cut to 700ft. Pump 15 bbls of 6% gel ahead and spot cement plug from 700 ft 600 ft (44 sacks Class A)
- 14. TOOH w/ work string. Pull remaining 6-5/8" casing and NORM test.
- 15. TIH w/ work string to 300 ft, if well has not circulated pump 6% gel until wellbore circulates. Then spot cement plug from 300 ft 200 ft (44 sacks Class A),
- 16. TOOH w/ work string to 150 ft. Spot cement plug from 150 ft Surface (100 sacks Class A)
- 17. TOOH w/ work string, top off well with cement if needed
- 18. Erect monument per WVDEP regulations
- 19. RDMO equipment, dispose of circulated fluids properly, reclaim location and access road per WVDEP regulations

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Office of Oil and Gas

MAY 1 0 2021

WV Department of Environmental Protection



Well Info:

Well Name – W.L. Heck #30 API – 47-085-0-8022 Location – 39.143098, -81.199088 County, State – Ritchie, WV Elevation – 850 ft Well Casing Record –

Casing Size	Casing Depth	Comment
10"	122 ft	Pulled - Open Hole 12"
8 1/4"	920 ft	Pulled - Open Hole 9-3/4"
6 5/8"	1335 ft	Left in well - Open Hole 8"
No Casing	1807 ft	Open Hole - 6-1/4"

Perforations -

Top Salt Sand: 1629'

Shot Interval: 1646' - 1666'

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Office of Oil and Gas

Comments -

· Hole diameter sizes are assumptions. No record of hole sizes in well file.

MAY 1 0 2021

***BHA was lost when attempting to drill well deeper. Lost (5) 2-7/8" DCs, 6-1/4"
bit, bit sub and float – 128.60 ft. Top of Fish (TOF) @1600 ft.

WV Department of Environmental Protection

Purpose:

Provide a procedure for safely and effectively plugging & abandoning a well.

Scope:

This procedure pertains to all SWN Production Company, LLC (SWN) personnel and third parties involved in or near the following procedure on a SWN location in the SW Appalachia Division.

HSE:

- Must wear 4-Gas Monitor at all times, powered on, and calibrated up to date
- · Complete JSEA, LOTO, and Hot Work documents as needed
- Follow proper PPE requirements per "2015 HSE Handbook". Verify pressure control equipment integrity
- Always express STOP work authority if deemed necessary
- · Hold pre-job safety meeting
- Must follow SWN Conventional Well P&A Minimum Requirements Document
- · Access road and location to be constructed per WVDEP regulations and pre-seeded
- All tubulars pulled from the well need to be NORM tested. Contractor gets all salvage pulled from the well
- All fluids circulated from the wellbore are to be disposed of properly and documentation provided

Responsibilities:

47-085-08022-0000



Well No. 30, W. T. Heok,

Oia.

STAN. 1816 Perer

Grant District, Ritichie County. W . Va.

Drilled by John Crothers

Commenced Drilling Feb. 24, 1920, Finished March 16, 1920.

All 81" and 10" Casing pulled out.

10" Casing 8\frac{1}{2}" " 6-5/8" " Top Salt Sand First Oil Best Pay Through Salt Sand Total depth	DRILL D, I,;	122 920 1335 1629 1647 1664 1680 1682	ft.
		1002	-

Shot Macrh 16, 1920, with 60 qts. 2-4 x 10 Shells, 16 ft. anchor Shot from 1646 to 1666 ft.

Frank McClafferty

SERIAL NO.	FARM TOM.	L. Heck	•	WELL NO 30
ELEVATION	N	s. 21	E	w. 32 '
CUNTRACTOR		ACRES	M.	AP No.
WATERS OFGilles	spie nun			
DISTRICT Grant	COUNT	x Ritchie	67.50	W. Va.
DRILLING COMMENCED		COMPLETED	Mch. 19 19	20
SANDE	Top	Воттом	ELEV. TOP	Office of Oil and Gas
PGH. COAL OR BIG LIME				
				MAY 1 0 2021
				WV Department of
			-	Environmental Protection
			-	ACKERS AND DEPTH SET
NITIAL PROD.	1 bb1.	SAND SOT		
AS TEST			DE	PTH
HOT OL	JARTS	**		
EMARKS not dril	led there			••

7/0//2000 13:12 6283924	ROB BARKER		PAGE 18
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	6%6d		1) MIRU Equipment. Duy out around wellhead and set
20, CUMP PUB	777777	OPENHILE SECTION	4-5 H. 6, 20 " Condidor. Hond coment outside of
250,350 250,350	1 / / / / / N		conductor of bag cornert
477		9 1/4 O.D	2) Check pressure all blood att it grove t. RU
	6%		adpull rodo and tubing it present in well.
PINIPING	, GE		Tolly taking and foot for NORM.
CONTPING	VIIII		3) Cheet T.D. of well of cable touls. Topof
44873	11///		fish should be 2 Approximately 1600 ft.
	69 661		Note: It T.D. is significantly different from
			Taxorda T.D. anduct WDEP inspectiv.
00 CHAPIUE	777777	1 84 osgstva	4) TIH of workstring to T.D. Purp 3066kg
0501	XIIIII	91041-Pulled	6% gel. Spet and pluz from T.D - 1285 H (575x5-Closs A).
10545		TOPEL HOLE	5) Took of workstring Obove CEMENT top. WOC.
	0160	Secure	Reset contply if Too is below 1285 ft.
	6660) B''0.D.	Took of workstring to \$50H. Pungo 20 bbs
שע' :			of 6 to get . Spot coul play from 9504-8504
			(10 sx 5 - Class A)
NT PING	/////	6% cg 60/338H.	6) Took of weekstring. RU to find free point
85-1600 57545	<i>{////</i> }	OPENIBLE 1. SECTION-64 O.D.	ON 6 % Casing (Est. F. P. & 550'-650')
90	$\langle //// \rangle$	SECTION-69 O.D.	Cut/RIP 686 "Csq ad pull several joints.
	{////}	- 7.0.F2 1595H	7) TIH a work string to set contply coress cosing out (600 H). Spot out plug from
	1164	3HQ-128.60-H	680A-580H. (44 sxs-ClpssA)
	》	Bd Sub Float	8) TOUT of workstring at pull remaining 686"
	ATT	Shet introd: 1646-66	casing. Int 68 res for Norm.
300'		DD 100 180744	9) TIH of werkstring to 3504. If wellbure has
			Not circulated Purps 20 bb/ 6% get and
Total SPC	ks ('mt =	263 sxs (m, n, n, n, m)	spot cout plus from 350H-250H
			(445xs-Class 4)
			10) Took with workswing to 150H. Circulated
			11) TOOK of workstring
			12) ERECT MONUMENT THE WORT REGS.
	7008 N Com	Houston Dlang Eth Clos-	B) Romo Equipment Dispess of Circulated Hines
	7906 N. Sami Houston, TX 7		ce: 281.931.8884 main: 1.800.BLOWOUT ax: 281.931.8302 ' web: www.boots-coots.com
	to a secondario de la companio de l		19) begin tocation and few was to 48 DE 100

WW-4A Revised 6-07

1) Date:			1	
2) Operator's Well Numb				
Heck #30				
3) API Well No.: 47 -	085	_ :	08022	

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

		a) Coal Operator	
(a) Name	Donald Flannery and Alicia B. Flannery	Name N/A	
Address	10576 Gillespie Run Road	Address	
	Petroleum, WV 26161		
(b) Name		(b) Coal Owner(s) with	Declaration
Address		Name	
	/ 	Address	
(c) Name		Name	
Address		Address	Office of Oil and Gas
6) Inspector	Derek Haught	(c) Coal Lessee with De	eclaration MAY 1 0 2021
Address	PO Box 85	Name	
	Smithville, WV 26178	Address	WV Department of
Telephone	304-206-7613		Environmental Protection
	plat (surveyor's map) showing the well location		
The reason However, y Take notice accompany Protection, the Applica	you received these documents is that you have rig you are not required to take any action at all. e that under Chapter 22-6 of the West Virginia Cod ying documents for a permit to plug and abandon a with respect to the well at the location described or	hts regarding the application which are e, the undersigned well operator propose well with the Chief of the Office of Oil and in the attached Application and depicted or certified mail or delivered by hand	summarized in the instructions on the reverses side. It is to file or has filed this Notice and Application and and Gas, West Virginia Department of Environmental on the attached Form WW-6. Copies of this Notice, to the person(s) named above (or by publication in
The reason However, y Take notice accompany Protection, the Applica	n you received these documents is that you have rig you are not required to take any action at all. e that under Chapter 22-6 of the West Virginia Cod ying documents for a permit to plug and abandon a ving documents for a permit to plug and abandon a vinth respect to the well at the location described or ation, and the plat have been mailed by registered sumstances) on or before the day of mailing or deliver	hts regarding the application which are e, the undersigned well operator propose well with the Chief of the Office of Oil a n the attached Application and depicted or certified mail or delivered by hand rry to the Chief.	es to file or has filed this Notice and Application and and Gas, West Virginia Department of Environmental on the attached Form WW-6. Copies of this Notice,
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The reason However, y Take notice accompany Protection, the Applica certain circ	wou received these documents is that you have rig you are not required to take any action at all. e that under Chapter 22-6 of the West Virginia Codying documents for a permit to plug and abandon a with respect to the well at the location described on ation, and the plat have been mailed by registered numstances) on or before the day of mailing or deliver Well Operator By: Its: Address Telephone sworn before me this Documents for a permit to plug and abandon a with respect to the well at the location described on ation, and the plat have been mailed by registered numstances. The plug and abandon a with respect to the well at the location described on ation, and the plat have been mailed by registered numstances. The plug and abandon a with respect to the well at the location described on ation, and the plat have been mailed by registered numstances. The plug and abandon a with respect to the well at the location described on ation, and the plat have been mailed by registered numstances. The plug and abandon a with respect to the well at the location described on ation, and the plat have been mailed by registered numstances. The plug and abandon a with respect to the well at the location described on ation, and the plat have been mailed by registered numstances. The plug and abandon a with respect to the well at the location described on ation, and the plug and abandon a with respect to the well at the location described on ation, and the plug an	e, the undersigned well operator propose well with the Chief of the Office of Oil and the attached Application and depicted or certified mail or delivered by hand may to the Chief. Virco Brittany Woody Senior Regulatory Analyst 1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508 304-884-1610 OFFICE Notary Public, St. ELIZABIE 1224 Minimum 12 Public, St. ELIZABIE 123 Minimum 12 Public, St. ELIZABIE 123 Minimum 12 Public, St. ELIZABIE 124 Minimum 12 Public, St. ELIZABIE 124 Minimum 12 Public, St. ELIZABIE 125 Public, St. ELIZ	es to file or has filed this Notice and Application and and Gas, West Virginia Department of Environmental on the attached Form WW-6. Copies of this Notice, to the person(s) named above (or by publication in the person of the

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.

3622	U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only For delivery information, visit our website at www.usps.com®
4024 0000	Certified Mali Fee Extra Services & Fees (check box, add fee as appropriate) Tebum Receipt (hardcopy) Return Receipt (electronic) Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery
7020 1290	Donald Flannery & Alicia B. Flannery

RECEIVED
Office of Oil and Gas

MAY 1 0 2021

WV Department of Environmental Protection

47085080226

SURFACE OWNER WAIVER

Operator's Well Number

Hec	k #	30	
100	m	Ų U	

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

RECEIVED
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION: Office of Oil and Gas

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

MAY 1 0 2021

WV Department of Environmental Protection

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the plann	ed work described in these materials, and I have no
objection to a permit being issued on those materials.	
DOD DYDGIMION DY A NAMED AT DEDGON	700 01 1 000- 10

FOR EXECUTION BY A NATURAL PERSON ETC.

FOR EXECUTION BY A CORPORATION,

	Date	Name	Virco	
Signature	-	By	Brittany Woody	
		Its	Senior Regulatory Analyst	Date

WW-9 (5/16)

API Number 4	7 _ 085	_08022	
Operator's Well		#30	

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Virco	OP Code 7434	
Watershed (HUC 10) Gillespie Run	Quadrangle Cairo	
	ls of water to complete the proposed well work? Yes No 🗸	
Will a pit be used? Yes No ✓		
If so, please describe anticipated pi		
Will a synthetic liner be used in the	e pit? Yes No If so, what ml.?	
Proposed Disposal Method For Tre		
Land Application	(if selected provide a completed form WW-9-GPP)	7
Underground Inje	ection (UIC Permit Number TBD pending selection of plugging contractor	
Off Site Disposa	(Supply form WW-9 for disposal location)	RECEIVED e of Oil and Gas
Other (Explain_		
	JU	N 1 2021
Will closed loop systembe used? If so, des	F. Arek	Department of
Drilling medium anticipated for this well (v	ertical and horizontal)? Air, freshwater, oil based, etc. N/A Enviror	nmental Protection
-If oil based, what type? Synthetic	c, petroleum. etc. N/A	
Additives to be used in drilling medium?	N/A	
Drill cuttings disposal method? Leave in pi	it. landfill. removed offsite, etc. N/A	
-If left in pit and plan to solidify w	hat medium will be used? (cement, lime, sawdust) N/A	
-Landfill or offsite name/permit nu		
West Virginia solid waste facility. The noti where it was properly disposed.	e Office of Oil and Cas of any load of drill cultings or associated wasterejice shall be provided within 24 hours of rejection and the permittee shall alse to the terms and conditions of the CENERAL WATER POLLUTION	so disclose
on April 1, 2016, by the Office of Oil and provisions of the permit are enforceable by or regulation can lead to enforcement action. I certify under penalty of law the application form and all attachments thereto the information. I believe that the information submitting false information, including the	Cas of the West Virginia Department of Environmental Protection 1 the law. Violations of any term or condition of the general permit and/or other in at 1 have personally examined and am familiar with the information sugard that, based on my inquiry of those individuals immediately responsibilition is true, accurate, and complete. I am aware that there are significant	er applicable law bhitted on this ble for o btaining
Company Official Signature Company Official (Typed Name) Brittany	Woody	
Company Official Title Senior Regulatory		
Subscribed and swom before me this	oth day of John 20 23	~~~~~
My commission expires 5	Buc	OFFICIAL SEAL ublic, State Of West Virginia ELIZABETH A DAY 632 Winery Road ckhannon, WC 6200 () ission Expires May 05, 202

Operator's Well No. HPCV #30

pposed Revegetation Treatmen	nt: Acres Disturbed ONE	Preveg etation pH	5.5
Lime Two	Tons/acre or to correct to pH 6	3.5	
Fertilizer type 10-20-			
Fertilizer amount_500		acre	
Mulch 50 Bales	2.5 Tons/ac	re	
Mulch			
	Seed !	Mixtures	
Temp	orary	Permane	nt
Seed Type	lbs/acre	Seed Type	lbs/acre
5000 1, p-		Orchard Grass	30%
		Rye (annual @BT)	35%
		Timothy (Climax)	25%
		Claver (Med Ped)	10%
Attach: Maps(s) of road, location, pit a provided). If water from the pit, W), and area in acres, of the	t will be land applied, provide was	tion (unless engineered plans includiter volume, include dimensions (L. V	ng this info have been V, D) of the pit, and dimens
ravided) If water from the pi	e land application area.	in course plane include	ng this info have been V, D) of the pit, and dimens
rovided). If water from the part, W), and area in acres, of the	e land application area.	in course plane include	ng this info have been V, D) of the pit, and dimens
rovided). If water from the pi L, W), and area in acres, of the Photocopied section of involve	e land application area. ed 7.5' topographic sheet.	in course plane include	ng this info have been V, D) of the pit, and dimens RECEIVED Office of Oil and Gas MAY 1 0 2021
Plan Approved by: Direction of involved the provided of the provided in acres, of the provided section of involved the provided by: Denote the provided in acres, of the provided involved the provided involved the provided involved the provided in acres, of the provided involved	e land application area. ed 7.5' topographic sheet.	in course plane include	ng this info have been V, D) of the pit, and dimens RECEIVED Office of Oil and Gas
rovided). If water from the pi L, W), and area in acres, of the Photocopied section of involve	e land application area. ed 7.5' topographic sheet.	in course plane include	ng this info have been V, D) of the pit, and dimens RECEIVED Office of Oil and Gas MAY 1 0 2021
rovided). If water from the pi L, W), and area in acres, of the Photocopied section of involve Plan Approved by: Deno	e land application area. ed 7.5' topographic sheet.	in course plane include	ng this info have been V, D) of the pit, and dimens RECEIVED Office of Oil and Gas MAY 1 0 2021
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WW-9- GPP Rev. 5/16

Page	1 of 2
API Number 47 - 085	- 08022
Operator's Well No.	

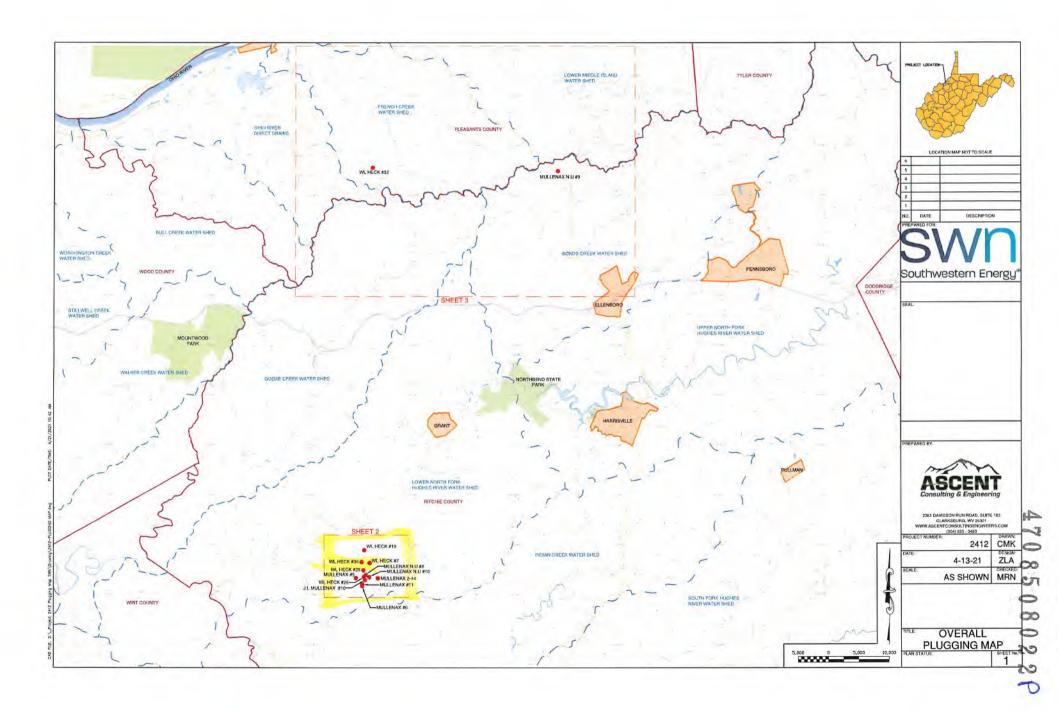
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS GROUNDWATER PROTECTION PLAN

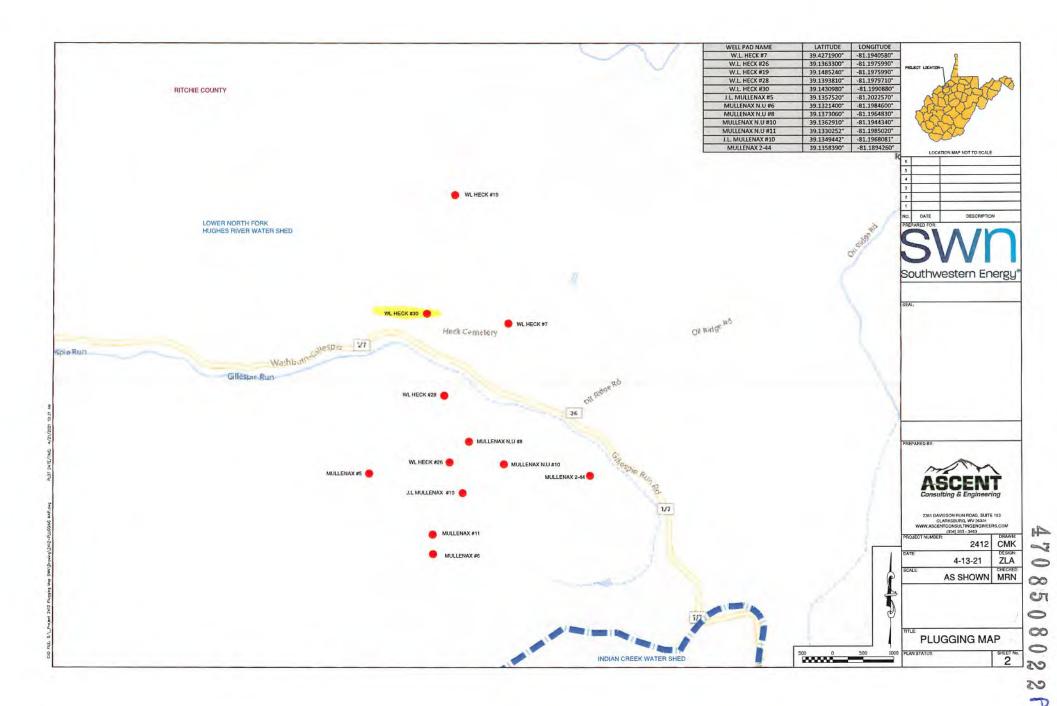
Operator Name: Virco	(-)
Watershed (HUC 10): Gillespie Run	Quad: Cairo
Farm Name:	
 List the procedures used for the treatment and discharg groundwater. 	ge of fluids. Include a list of all operations that could contaminate the
Plug to abandon operations.	
Describe procedures and equipment used to protect gro	oundwater quality from the list of potential contaminant sources above.
Containment will be in place around the wel	
List the closest water body, distance to closest water discharge area.	body, and distance from closest Well Head Protection Area to the
N/A	
Summarize all activities at your facility that are already	regulated for groundwater protection.
N/A	

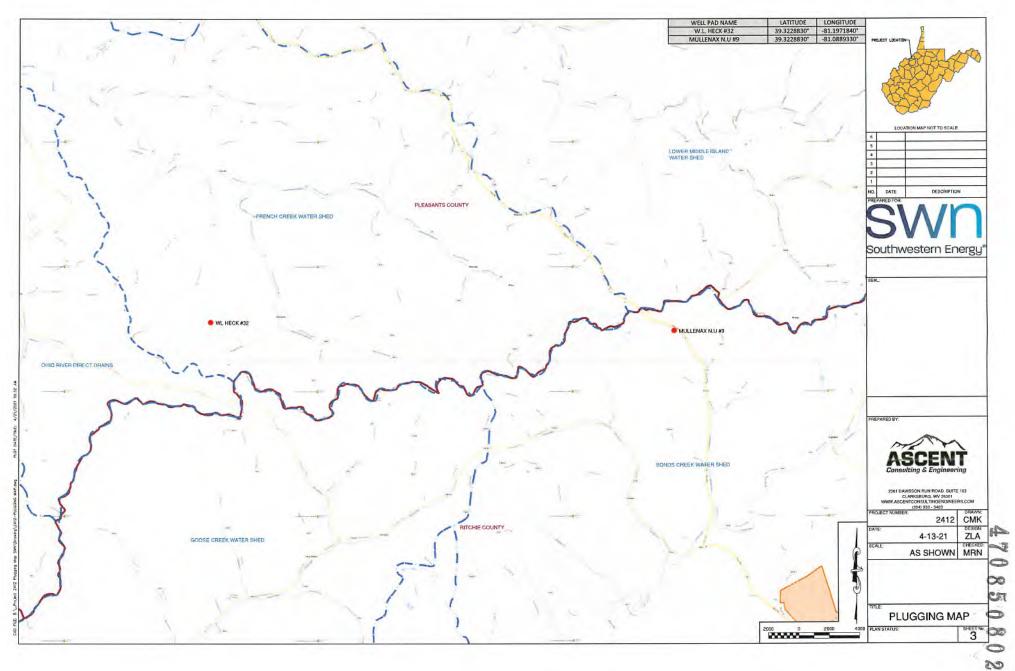
5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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API Number 47 - 085 - 08022
Operator's Well No._____

N/A	
Provide a statement that no waste material will be used for deicing or fill material on the property.	
No waste materials will be used for the deicing of area or equipment. Waste mate will not be used for material fill on the property.	rials, if any,
Describe the groundwater protection instruction and training to be provided to the employees. Job provide direction on how to prevent groundwater contamination.	ocedures shall
utilized on every work site.	
Provide provisions and frequency for inspections of all GPP elements and equipment.	
	RECEIVED
nspections will be done before and during operations by designated employees.	Office of Oil and C
nspections will be done before and during operations by designated employees.	Company of the same of the sam









West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-085-08022	WELL NO.: 30
FARM NAME: Heck	
RESPONSIBLE PARTY NAME: Vi	rco
COUNTY: Ritchie	DISTRICT: Grant
QUADRANGLE: Cairo	
SURFACE OWNER: Donald FI	annery & Alicia B. Flannery
	lannery & Alicia B. Flannery
UTM GPS NORTHING: 4,332,6	
UTM GPS EASTING: 482,793.3	
preparing a new well location plat for a	chosen to submit GPS coordinates in lieu of plugging permit or assigned API number on the will not accept GPS coordinates that do not meet
preparing a new well location plat for a above well. The Office of Oil and Gas withe following requirements:	plugging permit or assigned API number on the vill not accept GPS coordinates that do not meet North, Coordinate Units: meters, Altitude: (MSL) – meters.
preparing a new well location plat for a above well. The Office of Oil and Gas with the following requirements: 1. Datum: NAD 1983, Zone: 17 height above mean sea level 2. Accuracy to Datum – 3.05 m 3. Data Collection Method: Survey grade GPS × : Post Proces	plugging permit or assigned API number on the vill not accept GPS coordinates that do not meet North, Coordinate Units: meters, Altitude: (MSL) – meters. eters RECEIVED Office of Oil and Gas ssed Differential MAY 1 0 2021
preparing a new well location plat for a above well. The Office of Oil and Gas with the following requirements: 1. Datum: NAD 1983, Zone: 17 height above mean sea level 2. Accuracy to Datum – 3.05 m 3. Data Collection Method: Survey grade GPS × : Post Procest	plugging permit or assigned API number on the vill not accept GPS coordinates that do not meet North, Coordinate Units: meters, Altitude: (MSL) – meters. eters RECEIVED Office of Oll and Gas ssed Differential MAY 1 0 2021 Differential WV Department of
preparing a new well location plat for a above well. The Office of Oil and Gas with the following requirements: 1. Datum: NAD 1983, Zone: 17 height above mean sea level 2. Accuracy to Datum – 3.05 m 3. Data Collection Method: Survey grade GPS × : Post Procest Real-Time Mapping Grade GPS _ : Post Procest	plugging permit or assigned API number on the vill not accept GPS coordinates that do not meet North, Coordinate Units: meters, Altitude: (MSL) – meters. eters RECEIVED Office of Oil and Gas ssed Differential Differential WV Department of Environmental Protection
preparing a new well location plat for a above well. The Office of Oil and Gas with the following requirements: 1. Datum: NAD 1983, Zone: 17 height above mean sea level 2. Accuracy to Datum – 3.05 m 3. Data Collection Method: Survey grade GPS: Post Process Real-Time Mapping Grade GPS: Post Process Real-Time 4. Letter size copy of the topo I the undersigned, hereby certify this data	plugging permit or assigned API number on the will not accept GPS coordinates that do not meet North, Coordinate Units: meters, Altitude: (MSL) – meters. eters Seed Differential Differ
preparing a new well location plat for a above well. The Office of Oil and Gas with the following requirements: 1. Datum: NAD 1983, Zone: 17 height above mean sea level 2. Accuracy to Datum – 3.05 m 3. Data Collection Method: Survey grade GPS × : Post Process Real-Time Mapping Grade GPS _ : Post Process Real-Time 4. Letter size copy of the topo I the undersigned, hereby certify this data belief and shows all the information requirescribed by the Office of Oil and Gas.	plugging permit or assigned API number on the will not accept GPS coordinates that do not meet North, Coordinate Units: meters, Altitude: (MSL) – meters. eters Seed Differential Differ

Heck #30

4708508022

11/10/2016

PLUGGING PERMIT CHECKLIST

Plugging Permit	
WW-4B	
WW-4B signed by inspector	
WW-4A	
SURFACE OWNER WAIVER or PROOF THAT APPLICATION WAS SENT	BY REGISTERED OR CERITFIED
COAL OWNER/COAL OPERATOR/COAL LESSEE WAIVERS or PROOF T	THAT APPLICATION WAS SENT
WW-9 PAGE 1 (NOTARIZED)	
WW-9 PAGE 2 with attached drawing of road, location, pit and prop	posed area for land application
WW-9 GPP PAGE 1 and 2 if well effluent will be land applied	
RECENT MYLAR PLAT OR WW-7	RECEIVED Office of Oil and Gas
WELL RECORDS/COMPLETION REPORT	MAY 1 0 2021
TOPOGRAPHIC MAP OF WELL, SHOWING PIT IF PIT IS USED	
MUST HAVE VALID BOND IN OPERATOR'S NAME	WV Department of Environmental Protection
NA CHECK FOR \$100 IF PIT IS USED	