02/15/2019



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, February 15, 2019 WELL WORK PLUGGING PERMIT Vertical Plugging

TEAVEE OIL & GAS, INC. 112 BROOKS STREET

CHARLESTON, WV 253010000

Re: Permit approval for TV-107 47-079-01144-00-00

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.

James A. Martin Chief Operator's Well Number: TV-107 Farm Name: YOUNG, BERNIE O., SR. U.S. WELL NUMBER: 47-079-01144-00-00 Vertical Plugging Date Issued: 2/15/2019

Promoting a healthy environment.

# 47 - 079 - 011 44P 02/15/2019

# **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

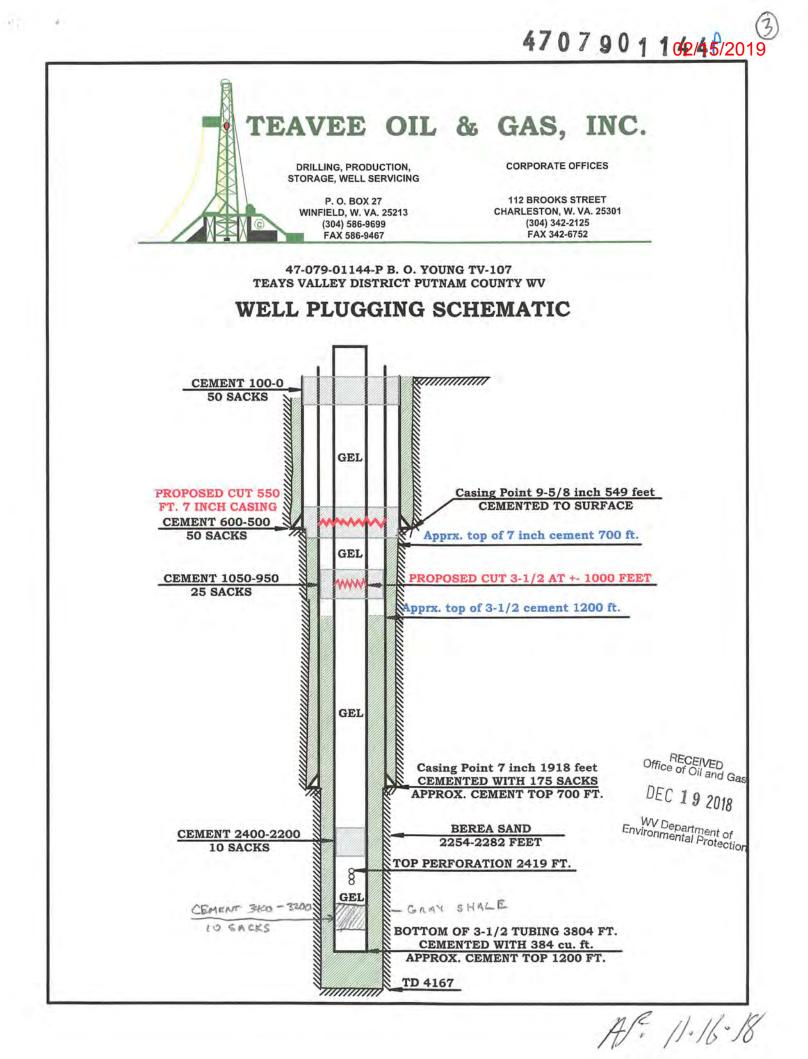
- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars 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.

ы.		4707901144		
WW-4 Rev.	B 2/01	1) Date 10/29 , 10/21% 5/2019 2) Operator's Well No. TV-107 3) API Well No. 47-079 - 01144-		
	DEPARTMENT OF ENVI	EST VIRGINIA RONMENTAL PROTECTION OIL AND GAS		
	APPLICATION FOR A PER	MIT TO PLUG AND ABANDON		
4)	Well Type: Oil/ Gas _XX / Liqui	d injection/ Waste disposal/		
	(If "Gas, Production <u>XX</u> or Un	derground storage) Deep/ Shallow XX		
5)	Location: Elevation 730 feet	Watershed Left Fork of Five & Twenty Mile Creek		
	District <u>Teays Valley</u>	County Putnam Quadrangle Mount Olive WV		
6)	Well Operator Teavee Oil & Gas, Inc	7) Designated Agent_Duane K. Bowers		
	Address P. O. Box 27	Address P. O. Box 27		
	Winfield, WV 25213	Winfield, WV 25213		
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor		
	Name Allen Flowers	Name Rick Duckworth Well Services		
	Address 165 Grassy Lick Lane	Address 1740 Lower Mill Road		
	Liberty, WV 25124	Frametown, WV 26623		
10)	<ol> <li>Improve access road to well site</li> <li>improve well location and dig pit</li> <li>move holding tanks to location and dig emergency p</li> <li>move service rig over well and all cementing equipm</li> <li>RIH to TD with 1-1/2 inch tubing gel hole</li> <li>cement plug at 2400 to 2300, pump 10 sacks</li> <li>pull 1-1/2 inch tubing to surface</li> <li>freepoint 3-1/2 inch tubing at or near 1000 feet cut an</li> <li>RIH 1-1/2 inch tubing to 1050 set cement plug 1050-9</li> <li>pull all 1-1/2 tubing to surface</li> <li>freepoint 7 inch casing at or near 550 feet cut and p</li> <li>RIH 1-1/2 inch tubing to 600 feet set cement plug at</li> <li>pull 1-1/2 inch tubing to 100 feet set top hole plug 1</li> <li>set 7 inch casing monument with plate welded on c</li> <li>remove all pipe, well service equipment</li> </ol>	nent 150 across 3-1/2 tubing 150 across 3-1/2 inch tubing cut, pump 25 sacks 150 across 3-1/2 inch tubing cut, pump 25 sacks 1600-500 feet across 7 inch casing cut, pump 50 sacks 19 2018 19 2018 19 2018 19 2018 19 2018 19 2018 10 2018		
_	* ADDITIONAL CLASS A CEMENT PLUG FAL	om 3400'- 3200'. 9 Mr 1M		

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

Work order approved by inspector

Date 11-16-2018



- See Elitrizon	A CONTRACTOR OF A CONTRACTOR A	47	07	9011	402/15/2019
WR-35				14, 1987	2
Sinte of Wes	t Mirnini	Dperato Well No		107	
DEPARTMENT OF			O. Young	r, et al	
Gil und Gas	-	API NO.	47 - '0'	79 - 1144	
WELL OPERATOR	S PEDOPT				
A AP OF					
SHILLING, FRACTURING AND/OR STIM	ULATING, O	R PHYSICAL	CHANGE		
WELL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production / Undergrow LOCATION: Elevation: 728.35 Watershed	und Storag	e Disposal e/ Deep	/,Sha	110w_X/)	
District: Teays Valley County Put	nam	Quadrangle	Mount	Olive, WV	
COMPANY Teavee Oil & Gas, Inc.					
1901 Kanawha Valley Bldc. ADDRESS Charleston, WV	Inning	Used in	Left	Cement	
DESIGNATED AGENT Duane Bowers	Casing	Drilling		fill up Cu. ft.	
ADDRESS P. O. Box 27, Winfield, WV 25213	Size	Diating	LII WELL		
SURFACE OWNER B. O. YOUNG, et al	20-16				
ADDRESS Bainbridge, Ga.	Cond. 13-10"				
MINERAL RIGHTS OWNER R. O. YOUNG, et al	9 5/8	549	5/19	190 sks.	
ADDRESS Bainbridge, Ga.	8 5/8				
OIL AND GAS INSPECTOR FOR THIS WORK Jerry	7	1918	1918	175 sks.	
Tephabock ADDRESS Ripley, WV	5 1/2	1110	1/10	IT ORDI	
PERMIT ISSUED October 23, 1986	4 1/2				
DRILLING COMMENCED 11/29/86	3 1/2		3801	215 sks.	Ç.
DRILLING COMPLETED 12/4/86	2				
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED CN	Liners used				
GEOLOGICAL TARGET FORMATION Marcellus shale		Dep	th 4150	feet	
Depth of completed well 4167 feet					
Water strata depth: Fresh 250 feet;	and the second se				
Coal seam depths: N/A				e area? No	
OPEN FLOW DATA					
Producing formation Brown shale	Par	v zone der	th 2400-	3610 feet	•
Gas: Initial open flow 135 Mcf/d					<b>3</b> e
Final open flow 80 Mcf/d					-
Time of open flow between init					Diffice RECEIVER
Static rock pressure 610 psig (surface			and the second division of the second divisio		Ffice of Oil and Gas
(If applicable due to multiple completion	n)				
Second producing formation N/A	Pa	y zone dep	oth	feet	WDan
(If applicable due to multiple completion Second producing formation N/A Gas: Initial open flow Mcf/d Final open flow Mcf/d	Oil: In	itial oper	flow	вы А	Wironmental Prote of
					rotection
Time of open flow between ini					
Static rock pressurepsig (surfac	e measurem	ent) after	ho	urs shut in	C
		(Conti	rue on r	everse side	)

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6 4707901 102/45

## DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

٢

Perforated 2410-3612 with 50 holes (.39) Broke well down with 1300 gallon HCl 15%, fractured with 90% foam, 700 sacks 20/40 sand, 150 sacks 10/20 sand, 260 barrel 3% KCl water, total N<sub>2</sub> 1,490,000 scf. Started © 50 bbl/min. 20/40 s and, started 10/20 sand @ 40 bbl/min. Well broke down % 2650 psig. treated 3460-4000 psig. Well shut in © 1640 psig. Slew well back throw h 1/4" choke 12 hours, 1" 12 hours, 2" 48 hours.

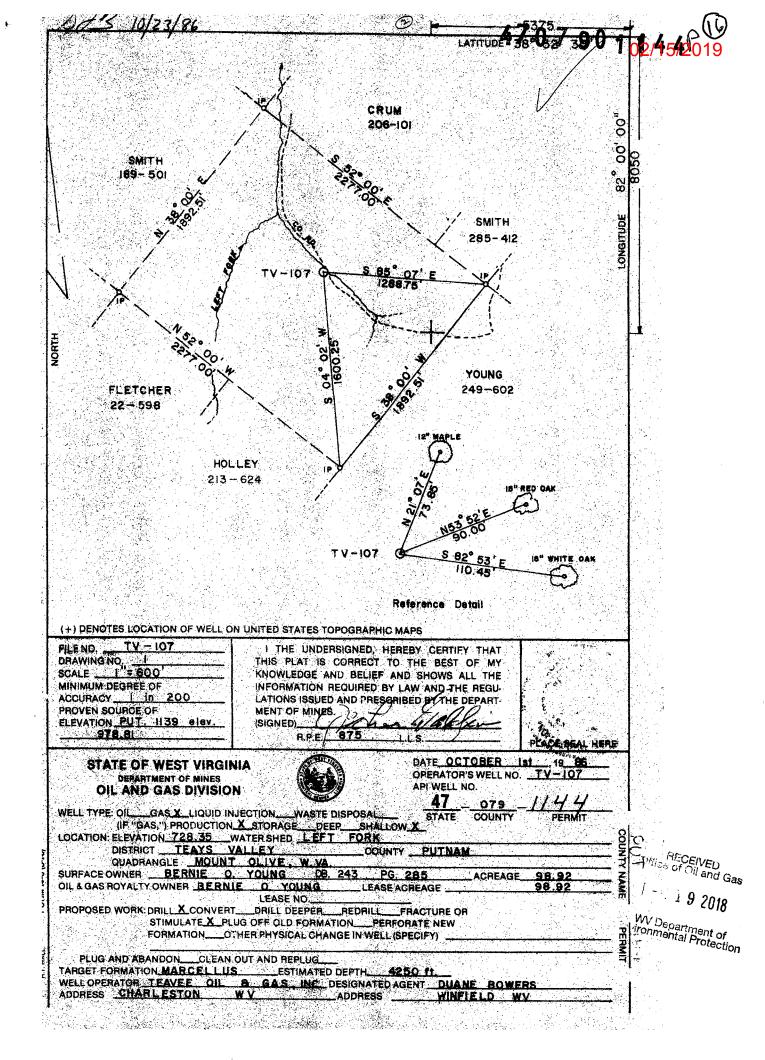
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Surface Red rock sand Slate Sand & slate Slate gray Salt sand Clate and shell Sand Slate Sand Slate Sand Pig'lime Sand brown Big injun Slate and shells Weir shells * Slate and shells * Slate and shells * Slate and shells * Coffee shale * Gray slate and shale *Gordon stray * Gray shale * Brown shale * White slate * Marcellus shale	0 60 100 600 700 800 1100 1300 1300 1300 1300 1585 1710 1585 1710 1755 1830 1921 2109 2213 2251 2282 2478 2190 3310 3710 1021	60 400 600 700 800 1100 1130 1290 1310 1400 1520 1585 1710 1755 1830 1924 2109 2243 2254 2282 2478 2190 3310 3710 4021 1167	Salt water 850 Gas show Gas - 2406-21:18 Gas show Gas show
* Indicates electric log tops.			

WELL LOG

(Attach separate sheets as necessary)

Well	Operator	as, Inc.		
y: 1	ha.	Bowen	Designated	Arent
· · · · · · · · · · · · · · · · · · ·	Olu	100		

Note: Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic (1) detailed geological record of all formations, including (2) with, emphasized in the drilling of a well."



	47 1) Date: 2) Operator's Well Num	10/29/2018	104/45/2019 ng TV-107
	3) API Well No.: 47 -	079	01144-
STATE OF WE		FOIL AND GA	S

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

		(a) Coal Operator	NVA
(a) Name	Edward H. Crum WAIVEY	Name	N/A
Address	1414 Moses Branch Road	Address	
	Fraziers Bottom WV 25082		
(b) Name		(b) Coal Owne	er(s) with Declaration
Address	-	Name	N/A
		Address	
(c) Name		Name -	
Address		Address	
i i u u o o o			
6) Inspector	Allen Flowers	(c) Coal Lesse	e with Declaration
Address	165 Grassy Lick Lane	Name	N/A
	Liberty, WV 25124	Address	
Telephone	(304) 552-8308		

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	Teavee Oil & Gas, Inc.	
	By:	June Gene	
	Its:	Designated Agent	
	Address	112 Brooks Street	Office of Oil and Gas
		Charleston, WV 25301	Gas
	Telephone	(304) 586-9699	DEC 1 9 2018
Subscribed and sworn before m My Commission Expires	he this 15th day	vof Wavember Notery P	WV Department of Environmental Protection public
Oil and Gas Privacy Notice			STATE OF WEST VIRGINIA
regulatory duties. Your personal business or as needed to comply w	information may be discl with statutory or regulate our personal information	tion, such as name, address and phin osed to other State agencies of third ory requirements, including Freedom . If you have any questions about our depprivacyoffier@wy.gov.	of Information Are Expression of State

WW-4A Revised 6-07 SURFACE OWNER WAIVER



**Operator's Well** Number

TV-107

## 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. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. 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.

Comments must be in writing. 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.

mments. The Chief has the power to deny or condition a well work permit based on comments on the following the the power to deny or condition a well work permit based on comments on the following of  $G_{il}$  and  $G_{as}$ . grounds: DEC 19 2018

- 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;
- The proposed well work fails to protect fresh water sources or supplies;
- WV Department of Environmental Protecti 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one ction 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 planned work described in these materials, and I have no objection to a permit being issued on those materials. FOR EXECUTION BY A CORPORATION. FOR EXECUTION BY A NATURAL PERSON

ETC.

Signature

\_\_\_\_ Date 12/14/2019 Name Bv

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Date

Signature

Date

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WW-9	4/0/901 104/15/20
(5/16)	API Number 47 - <u>079</u> - <u>01144-</u> Operator's Well No. <u>TV-107</u>
DEPARTMENT OF ENVI OFFICE O	WEST VIRGINIA RONMENTAL PROTECTION F OIL AND GAS OSAL & RECLAMATION PLAN
Operator Name Teavee Oil & Gas, Inc.	OP Code 306769
Watershed (HUC 10) Left Fork of Five & Twenty Mile Creek	Quadrangle Mount Olive WV
Do you anticipate using more than 5,000 bbls of water to comple Will a pit be used? Yes X No I Brine, Cru If so, please describe anticipated pit waste: Brine, Cru	
Will a synthetic liner be used in the pit? Yes X	No If so, what ml.? 20
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide	e a completed form WW-9-GPP)
Underground Injection (UIC Permit	Number)
Reuse (at API Number Off Site Disposal (Supply form WW	( 9 for dispesal location)
Other (Explain	
Will closed loop systembe used? If so, describe: Fluids will I Drilling medium anticipated for this well (vertical and horizonta -If oil based, what type? Synthetic, petroleum, etc.	be flowed back to tanks and an emergency pit dug below tanks al)? Air, freshwater, oil based, etc. <u>Plugging Operation</u> N/A
Additives to be used in drilling medium? N/A	
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?	lisposal Tank Yard
	as of any load of drill cuttings or associated waste rejected at any within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a or regulation can lead to enforcement action. I certify under penalty of law that I have personally application form and all attachments thereto and that, based on r	conditions of the GENERAL WATER POLLUTION PERMIT issued ginia Department of Environmental Protection. I understand that the uny term or condition of the general permit and/or other applicable law r examined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for obtaining e, and complete. I am aware that there are significant penalties for timprisonment.

Company Official Signature	Office of Oil and Gas
Company Official (Typed Name) Duane K. Bowers	DEC 19 2018
Company Official Title Vice President	Environmental Protection
Subscribed and sworn before me this 15th day of NOVEMBED.	20/1
- A CALL No	OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA

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COURTLANDT L. SMITH

ONE COMSTOCK PLACE CHARLESTON, WV 25314 My Commission Expires July 10, 2021

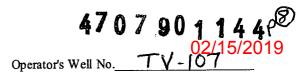
My commission expires

4

Form WW-9

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osed Revegetation Trea	tment: Acres Disturbed	<.75 Preveg etat	ion pH <u>6.5</u>
Lime 2	Tons/acre or to correct	to pH7	
Fertilizer type 10	) 10 10		
Fertilizer amount_	500	lbs/acre	
Mulch	hay 2	Tons/acre	
		Seed Mixtures	
Te	emporary	Р	ermanent
Seed Type	lbs/acre	Seed Type	lbs/acre
		Kentucky 31 Tall Fes	scue 50#
		Winter Wheat	100#
		Ladino Clover	10#

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

			· <u></u> `			
Plan Approved by:	- Aller			<u> </u>		_
Comments:						-
			<u>,. ,</u>			_
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						_
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						_
	_					 Dr
	$\sim$			11 16.1	Office	RECEIVED of Oil and Gas
Title:	Retor		Date:	11-16-1	DEC	<sup>or Oil and</sup> Gas 19 2018
Field Reviewed?	(Yes	(	)No		En WDon	- • 2018
	$\mathcal{O}$				- Wironmen	Partment of tal Protection
						-ocuon

47079001/15/2043

WW-9- GPP Rev. 5/16

	rage	· ⁄	_ 01	14	
API Number 47 -				<u> </u>	
Operator's Well N	ío.				

Quad: Mount Olive WV

17

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

Operator Name: Teavee Oil & Gas, Inc.

Watershed (HUC 10): Left Fork of Five & Twenty Mile Creek

Farm Name: B. O. Young

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

There is nothing in our plugging operation that will contaminate the ground water.

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

On site tanks will be utilized to catch all flow back from the plugging precedures. An emergency pit will be dug below all tanks and a 20 mil liner installed.

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Left Fork of Five & Twenty Mile Creek is 100 feet from well site.

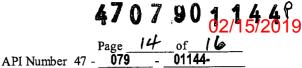
4. Summarize all activities at your facility that are already regulated for groundwater protection.

None

RECEIVED Office of Oil and Gas DEC 1 9 2018 WV Department of Environmental protection

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

WW-9- GPP Rev. 5/16



Operator's Well No. TV-107

N/A

Provide a statement that no waste material will be used for deicing or fill material on the property. 6.

This is a plugging operation, no drill cuttings are anticipated. All fluids will be hauled to our central gathering tank farm and WV Oil & Brine Gathering Services will inject the liquids into their wells. All Crude Oil will be skimmed and barreled, for sale. No waste material will be used for deicing or fill material at this location.

Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall 7 provide direction on how to prevent groundwater contamination.

All company and contract employees are trained in house to identify leaks from the well head and flow lines, and all equipment. Operator qualification training for spill materials is part of our training mission. All contractors will be held responsible to meet and or exceed all company operations and safety protocol.

Provide provisions and frequency for inspections of all GPP elements and equipment. 8.

Daily inspection of all tanks, flow lines and well head equipment will be inspected for leaks and or spills. Spills will be promptly and securely controlled, cleaned, disposed of, and reported to the proper personnel. Containment pads will be used under all connections subject to leak in the flow line to prevent leakage onto the ground and location.

Signature:

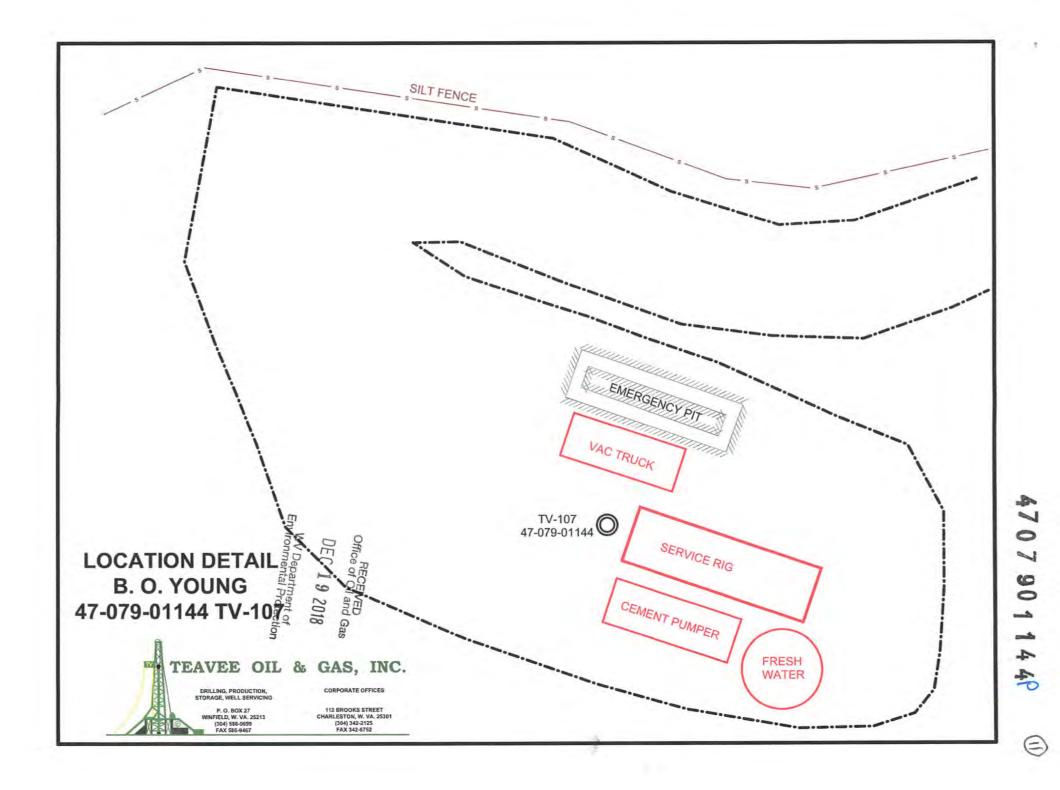
11/14/2018

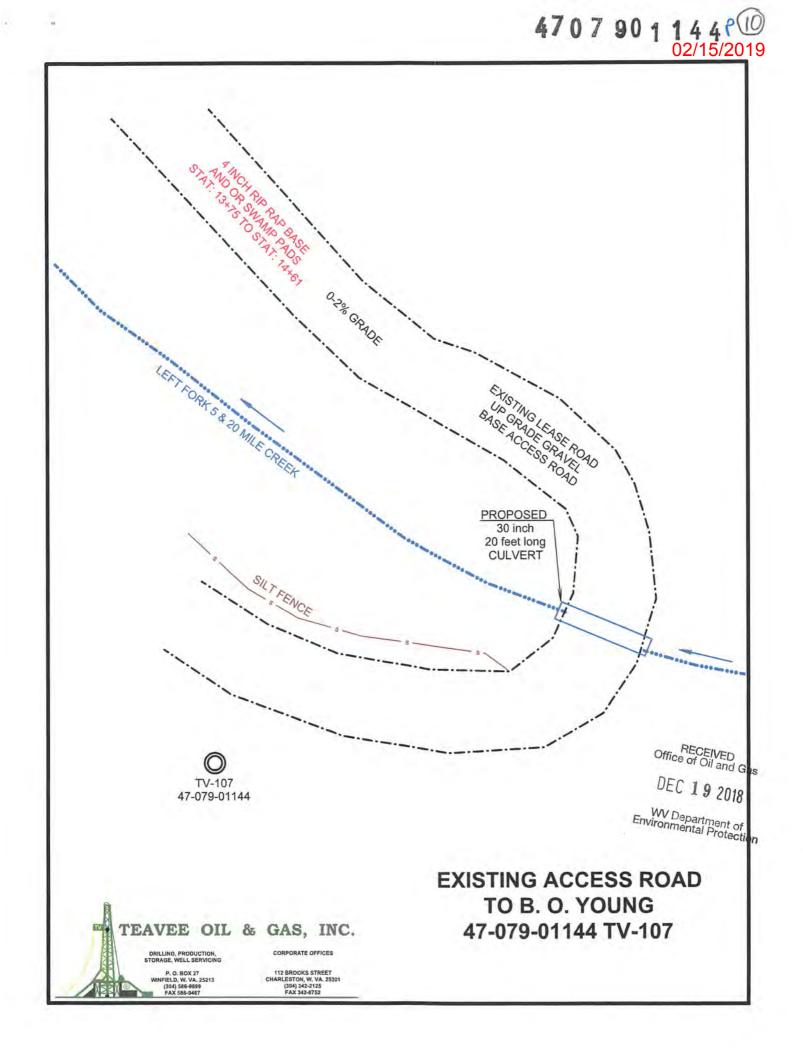
Date:

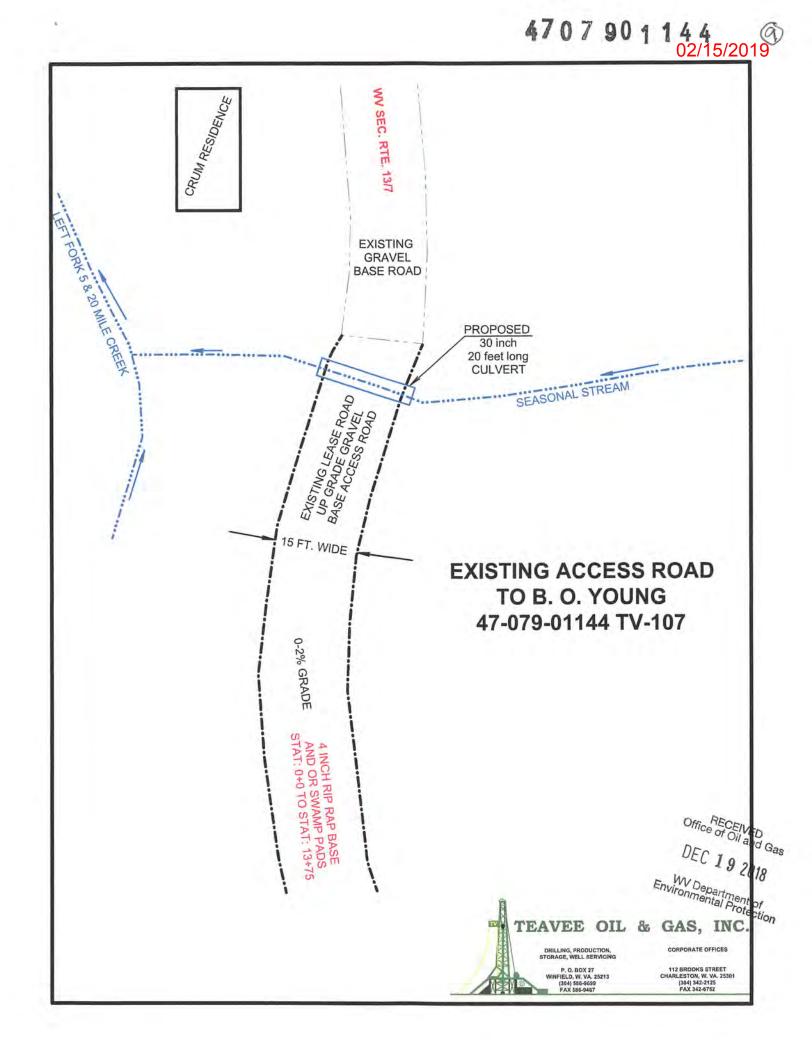
Office of Oil Oil and Gas DEC 19 2018

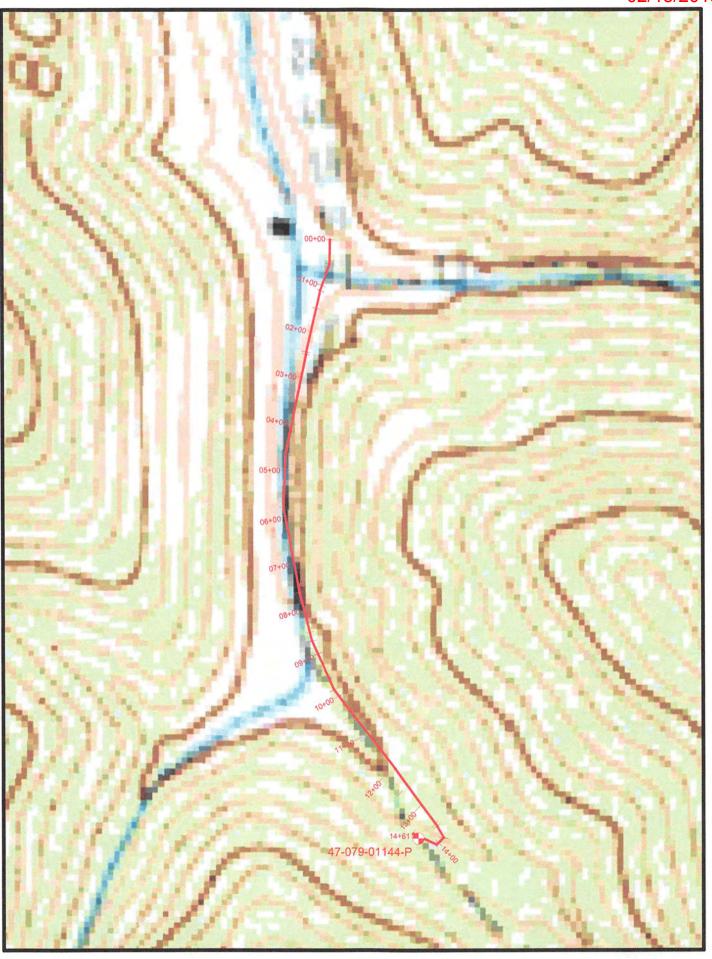
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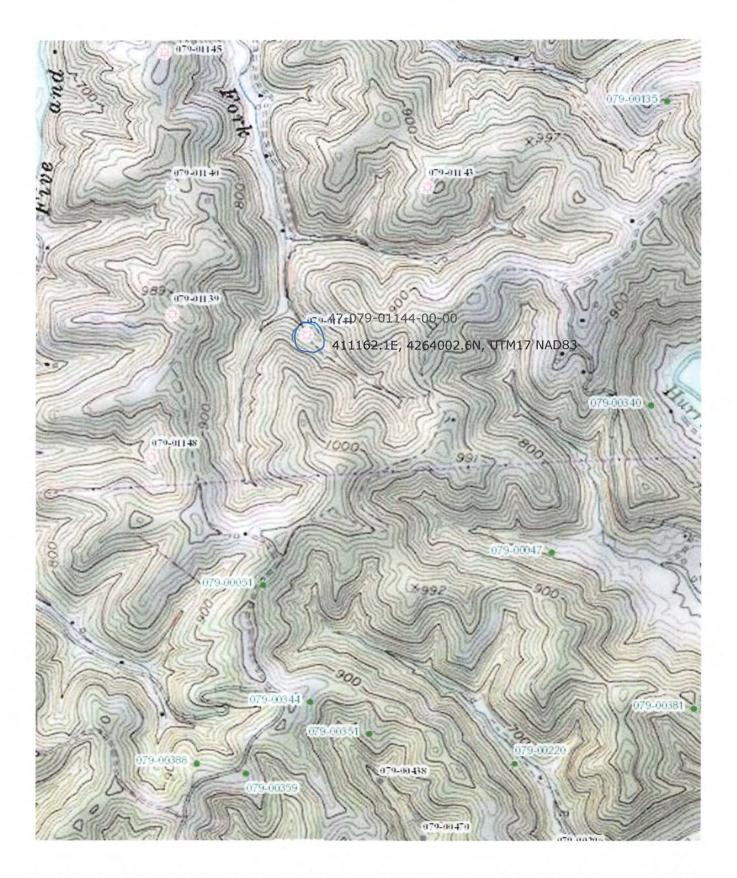
WV Department of Environmental Protection











http://deparcgis1/ooggis/index.html?x=411162.1&y=4264002.6&datum=NAD83&pntlabe... 2/12/2019

47079011404/15/2019

WW-7 8-30-06



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

API:	47-079-	01144-P	WELL NO	).: <u> </u>	V-107
FARM NAME:	B. O. Yo	ung			
RESPONSIBLE P	ARTY	NAME:	Teavee Oil &	Gas, Inc.	
COUNTY:	P	Putnam	DISTRICT:	Teays	Valley
QUADRANGLE:	Мо	ount Olive WV			
SURFACE OWNI	ER:	Edward H. Crum			
ROYALTY OWN	ER:	Edward H. Crum			
UTM GPS NORT	HING:	4264002.6			
UTM GPS EASTI	NG:	411162.1	GPS ELEV	ATION:_	('08r) 222.5
WV State Plane Coord	linates:	Northing: 555088	Easting: 1676947 E	Elevation: 730	)

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 <u>x</u>: Post Processed Differential <u>x</u>

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.

Quant Bow	Professional Surveyor	10/29/2018		
Signature	Title	Date		

Office of Oil and Gas

DEC 19 2018

WV Department of Environmental Protection