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west virginia department of environmental protection

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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](http://www.dep.wv.gov)

Wednesday, July 3, 2019  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

TRIBUNE RESOURCES, LLC  
3861 AMBASSADOR CAFFERY PARKWAY, SUITE 600  
LAFAYETTE, LA 70503

Re: Permit approval for H. M. JAMISON 15  
47-103-02203-00-00

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

A handwritten signature in blue ink, appearing to read 'James A. Martin', is written over the printed name and title.

Operator's Well Number: H. M. JAMISON 15  
Farm Name: WV PUBLIC LANDS  
U.S. WELL NUMBER: 47-103-02203-00-00  
Vertical Plugging  
Date Issued: 7/3/2019

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47-103-02203P

## 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

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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.

1) Date \_\_\_\_\_, 20\_\_\_\_\_  
2) Operator's  
Well No. JAMISON, H M 15  
3) API Well No. 47-103 - 02203 P

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 \_\_\_\_ / Liquid injection X / Waste disposal \_\_\_\_ /  
(If "Gas, Production \_\_\_\_ or Underground storage \_\_\_\_ ) Deep \_\_\_\_ / Shallow \_\_\_\_

5) Location: Elevation 1038' Watershed Piney Fork  
District Green County Wetzel Quadrangle Centerpoint 7.5

6) Well Operator Tribune Resources, LLC 7) Designated Agent Harman Brown  
Address 3861 Ambassador Caffery Blv Address 18396 Mountaineer Hwy  
Lafayette, LA 70503 Littleton, WV 26581

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name Derek Haught Name TBD  
Address P.O. Box 85 Address \_\_\_\_\_  
Smithville, WV 26178

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

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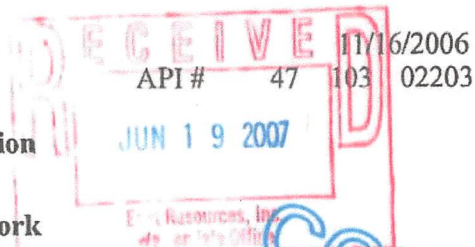
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WV Department of  
Environmental Protection

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

Work order approved by inspector  Date 4-11-19

WR-35



State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

COPY

Farm name: WV PUBLIC LANDS

Operator Well No.: JAMISSON 15

LOCATION: Elevation: 1,478'

Quadrangle: CENTERPOINT 7.5'

District: GREEN

County: WETZEL

Latitude: 5,000 Feet south of 39 Deg 30 Min 0 Sec.

Longitude: 9,300 Feet west of 80 Deg 37 Min 30 Sec.

Company: EAST RESOURCES, INC.  
P.O. BOX 5519  
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 11/16/06

Well work Commenced: 01/02/07

Well work Completed: 06/11/07

Verbal plugging

permission granted on:

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 3,640

Fresh water depths (ft) \_\_\_\_\_

Salt water depths (ft) \_\_\_\_\_

Is coal being mined in area (Y/N) N

Coal Depths (ft): NA

Casing/ tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4"	756'	756'	560 sks
8 5/8"	1809'	1809'	150 sks
4 1/2"	3577'	3577'	300 sks
			RECEIVED Office of Oil and Gas

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OPEN FLOW DATA

\* WATERFLOOD INJECTOR

This well drilled directionally S35W @ a distance of 415 ft.

Producing formation Gordon Pay zone depth (ft) 3430-3466'

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

Second producing formation \_\_\_\_\_ 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

NOTE: ON BACK OF THIS FORM, 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 ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EAST RESOURCES, INC.

By: [Signature]

Date: 6/18/07

WV Department of Environmental Protection

**Treatment :** Treated perforations (3430'-3466') (4SPF) via 4 1/2 casing w/ 250 gals. 15% HCl acid, 313 bbls cross linked gel, and 20,500 # 30/50 sand.

**Well Log :**

0	1110	Sand and Shale
1110	1160	Sand
1160	1268	Shale
1268	1280	Sand
1280	1366	Shale
1366	1400	Sand
1400	1710	Shale
1710	1770	Sand
1770	1874	Shale
1874	1920	Sand
1920	1974	Shale
1974	2172	Sand
2172	2186	Shale
2186	2220	Sand
2220	2306	Shale
2306	2320	Sand
2320	2492	Shale
2492	2506	Sand
2506	2520	Shale
2520	2530	Sand
2530	2590	Big Lime
2590	2780	Big Injun
2780	3408	Shale
3408	3428	Gordon Stray
3428	3466	Gordon
3466	3470	Shale
3470	3473	Sand
3473	3515	Shale
3515	3522	Sand
3522	3640	Shale
3640		TD

## Jamison, HM 15

API No 47-103-02203

	Casing		Cement	
	Size	Depth	Sx's	Est top
Surface	11-3/4	756'	560	Surface
Production	8-5/8	1809'	150	1120'
Liner	4-1/2	3577	300	1580'

Elevation 1478'  
 TD 3640'  
 Perfs Gordon 3430' - 3466'

Free point 4-1/2" production casing, back off, rip/cut, or perforate casing as direct by state inspector. Free point 8-5/8" production casing, back off, rip/cut, or perforate casing as direct by state inspector. RIH w/ work string, pump Gel 6% spacer between cement plugs. Set cement plugs as followed.

- Plug 1; 3410' - 3360'
- Plug 2; 50' in and 50' out of 4-1/2" production casing stub est @ 1550'
- Plug 3; 50' in and 50' out of 4-1/2" production casing stub est @ 1100'
- Plug 4; 1040' - 940' Pittsburgh Coal top 990' ?
- Plug 5; 806' - 706' Surface casing in and out plug
- Plug 6; 100' - surface

Clean up location. Erect monument with API No per WV code

Tagged cement tops

Gel spacer is fresh water containing at less 6% of Bentonite clay by weight.

Cement plugs are Class A cement

PLUG 2: 50' IN AND 50' OUT OF CASING CUT.  
 CASING CUT MAY BE BELOW THE 8 5/8" CASING  
 SHOE @ ≈ 2000'.

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 Environmental Protection

WW-4A  
Revised 6-07

1) Date: \_\_\_\_\_  
2) Operator's Well Number  
JAMISON, H M 15

3) API Well No.: 47 - 103 - 02203

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

<b>4) Surface Owner(s) to be served:</b>	<b>5) (a) Coal Operator</b>
(a) Name <u>West Virginia Public Lands Corp.</u>	Name <u>N/A</u>
Address <u>Building 3, Room 643</u>	Address _____
<u>1900 Kanawha Blvd. East</u>	_____
(b) Name <u>Charleston, WV</u>	(b) Coal Owner(s) with Declaration
Address <u>26305-0665</u>	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
<b>6) Inspector</b> <u>Derek Haught</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 85</u>	Name _____
<u>Smithville, WV 26178</u>	Address _____
Telephone <u>304-206-7613</u>	_____

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

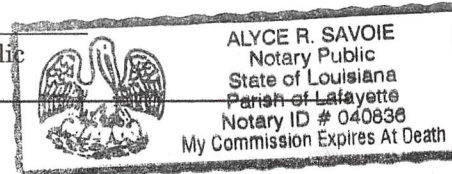
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 Tribune Resources, LLC  
 By: Lee Lawson  
 Its: Regulatory/HSE Director  
 Address 3861 Ambassador Caffery Blvd., Suite 600  
Lafayette, LA 70503  
 Telephone (337) 769-4064

Subscribed and sworn before me this 25th day of March 2019  
Alyce R. Savoie Notary Public  
 My Commission Expires with life



**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](mailto:depprivacyoffier@wv.gov).

WW-9  
(5/16)

API Number 47 - 103 - 02203  
Operator's Well No. \_\_\_\_\_

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

Operator Name Tribune Resources, LLC OP Code 494514693  
Watershed (HUC 10) Piney Fork Quadrangle Pine Grove

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:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection ( UIC Permit Number \_\_\_\_\_)
- Reuse (at API Number \_\_\_\_\_)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

*D.M.H.*  
*4-11-19*

Will closed loop system be used? If so, describe: Yes

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

-If oil based, what type? Synthetic, petroleum, etc. NA

Additives to be used in drilling medium? NA

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. NA

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

-Landfill or offsite name/permit number? Wetzel County Landfill - Permit No. SWPUID: 17-10-04

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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.

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Company Official Signature *Lee Lawson*

Company Official (Typed Name) Lee Lawson

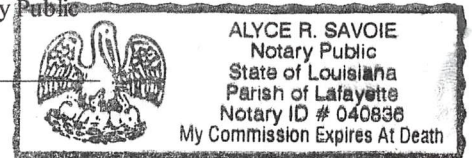
Company Official Title Regulatory/HSE Director

WV Department of Environmental Protection

Subscribed and sworn before me this 25<sup>th</sup> day of March, 2019

*Alyce R. Savoie* Notary Public

My commission expires with life





Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH \_\_\_\_\_

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-10-20

Fertilizer amount 500 lbs/acre

Mulch Straw 2 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

Tall Fescue 40

Ladino Clover 5

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.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_

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Title: Oil + Gas Injector Date: 4-11-19

Field Reviewed? (  ) Yes (  ) No

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

Operator Name: Tribune Resources, LLC  
Watershed (HUC 10): Piney Fork Quad: Centerpoint  
Farm Name: \_\_\_\_\_

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

[Empty response box for question 1]

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

[Empty response box for question 2]

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

[Empty response box for question 3]

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

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[Empty response box for question 4]

WV Department of  
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- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

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

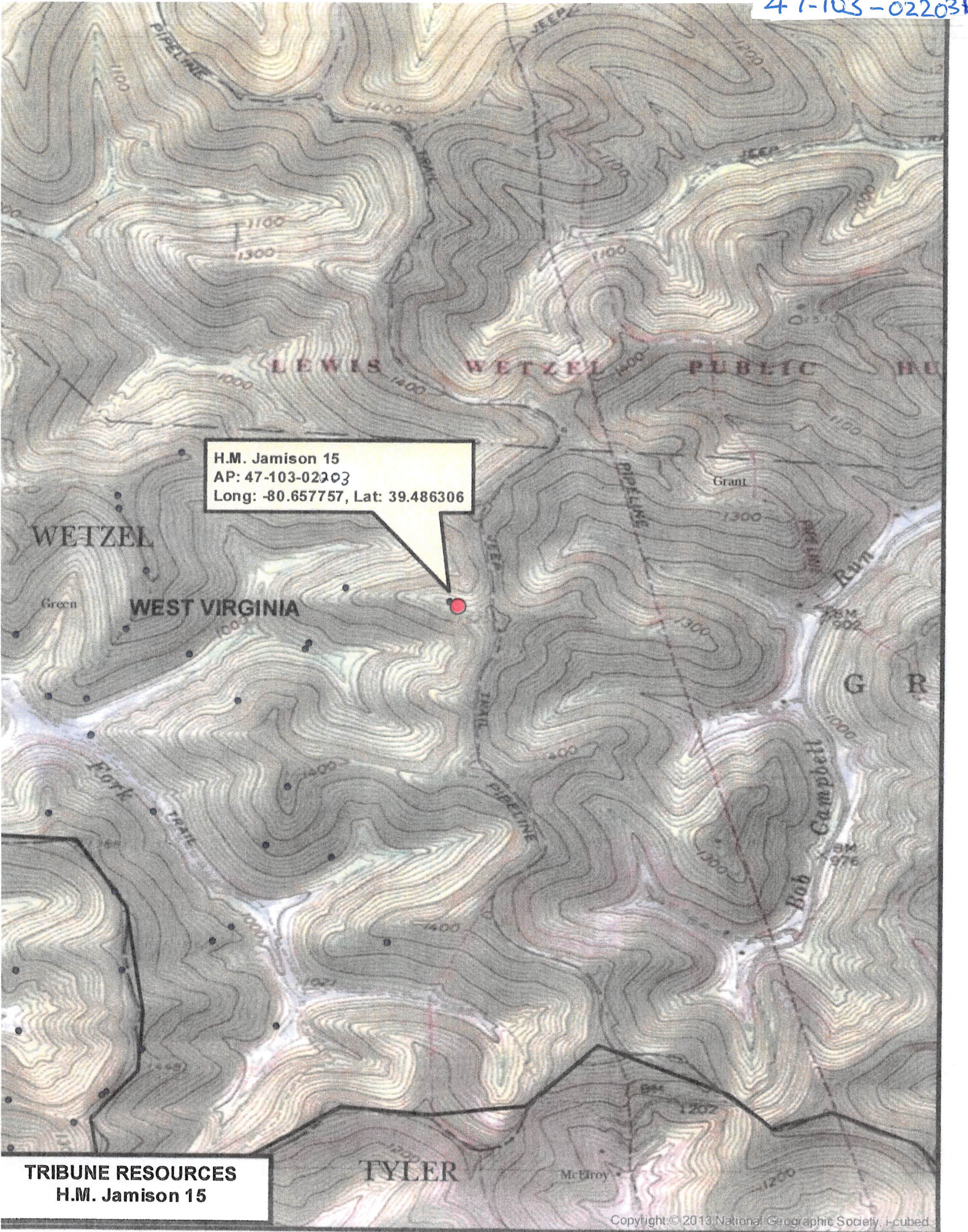
7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

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

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APR 19 2019  
WV Department of  
Environmental Protection

Signature: \_\_\_\_\_

Date: \_\_\_\_\_



H.M. Jamison 15  
AP: 47-103-02203  
Long: -80.657757, Lat: 39.486306

TRIBUNE RESOURCES  
H.M. Jamison 15

47-103-02203P

WW-7  
8-30-06



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

API: 47-103-02203 WELL NO.: 15

FARM NAME: H M Jamison

RESPONSIBLE PARTY NAME: Tribune Resources

COUNTY: Wetzel DISTRICT: Green

QUADRANGLE: Centerpoint

SURFACE OWNER: West Virginia Public Lands Corp.

ROYALTY OWNER: \_\_\_\_\_

UTM GPS NORTHING: ~~43.70796~~ 4370796. N

UTM GPS EASTING: ~~52.9435~~ 529435. E GPS ELEVATION: 1478'

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:

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

Survey grade GPS \_\_\_\_\_: Post Processed Differential \_\_\_\_\_

Real-Time Differential \_\_\_\_\_

Mapping Grade GPS \_\_\_\_\_: Post Processed Differential

Real-Time Differential \_\_\_\_\_

- 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]  
Signature

Agent  
Title

4-5-19  
Date

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