



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

Austin Caperton, Cabinet Secretary
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 T. W. REILLY 8
47-103-02205-00-00

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: T. W. REILLY 8
Farm Name: WV PUBLIC LANDS CORP.
U.S. WELL NUMBER: 47-103-02205-00-00
Vertical Plugging
Date Issued: 7/3/2019

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.

1) Date _____, 20_____
2) Operator's
Well No. Reilly, TW 8
3) API Well No. 47-103 - 02205 *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 1298' 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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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

Reilly, TW 8

API No. 47-103-02205
 Elevation 1298'
 Latitude 39.487029
 Longitude -80.661988

TD 3450'
 Perfs Gordon 3180' 3212'

	Casing		Cement	
	Size	Depth	Sxs	Est. Top
Surface				
Intermediate	7"	580	145	circ.
Production	4-1/2"	3376	150	2200
Liner				

Procedure

Free point 4-1/2" production casing, back off, rip/cut, or perforate casing as direct by s

RIH w/ work string, pump Gel 6% spacer between cement plugs.

Plugs	Material	Depth		Thickness feet
		Bottom	Top	
Formation	Cement	3150	3050	100
	Gel	3050	2250 est	800
4-12" casing	Cement	2250' est	2150' est +/- 50'	100
	Gel	2150	est. 1350'	800
Pitts' Coal	Cement	est 1350'	est 1042' Top 1092'	308
	Gel	1042	100	942
Top Plug	Cement	100'	Surface	100

Gel: Fresh water with 6% + Bentonite clay by weight

Cement: Class A

Tag all cement tops to confirm depth

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

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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 CORP Operator Well No.: T.W. REILLY 8

LOCATION: Elevation: 1,298' Quadrangle: CENTERPOINT 7.5'

District: GREEN County: WETZEL
Latitude: 4,750 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 10,475 Feet west of 80 Deg 37 Min 00 Sec.

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

Agent: PHILIP S. ONDRUSEK

Inspector: MIKE UNDERWOOD

Permit Issued: 12/27/06

Well work Commenced: 02/01/07

Well work Completed: _____

Verbal plugging _____

permission granted on: _____

Rotary X Cable _____ Rig _____

Total Depth (feet) 3450'

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.
7"	580'	580'	145 sks
4 1/2"	3375.75'	3375.75'	150 sks
			RECEIVED Office of Oil and Gas APR 19 2019

OPEN FLOW DATA

* WATERFLOOD INJECTOR

WV Department of
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Producing formation Gordon Pay zone depth (ft) 3180'-3212'

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: 2/11/08

Treatment :

Shot Perforated interval (3180'-3212') w/ Gas Gun, displaced 500 gals 15%HCl acid into formation.

Well Log :

0	882	Sand and Shale
882	896	Sand
896	934	Shale
934	984	Sand
984	1016	Shale
1016	1028	Sand
1028	1095	Shale
1095	1106	Sand
1106	1203	Shale
1203	1228	Sand
1228	1244	Shale
1244	1262	Sand
1262	1484	Shale
1484	1510	Sand
1510	1610	Shale
1610	1627	Sand
1627	1692	Shale
1692	1740	Sand
1740	1768	Shale
1768	1788	Sand
1788	1918	Shale
1918	1960	Sand
1960	1978	Shale
1978	2048	Sand
2048	2120	Shale
2120	2146	Sand
2146	2314	Shale
2314	2328	Sand
2328	2360	Shale
2360	2424	Big Lime
2424	2586	Big Injun
2586	3165	Shale
3162	3176	Gordon Stray
3176	3216	Gordon
3216	3218	Shale
3218	3222	Sand
3222	3320	Shale
3320	3326	Sand
3326	3450	Shale
3450		TD

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WV Department of
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WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
Reilly, TW 8
3) API Well No.: 47 - 103 - 02205

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(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 _____
_____	_____
6) Inspector <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:

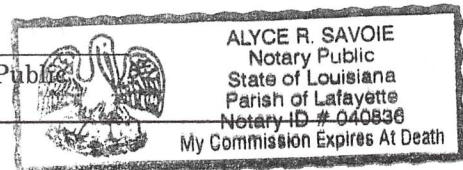
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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	<u>Tribune Resources, LLC</u>	RECEIVED Office of Oil and Gas
By:	<u>Lee Lawson</u>	
Its:	<u>Regulatory/HSE Director</u>	APR 19 2019
Address	<u>3861 Ambassador Caffery Blvd., Suite 600</u>	WV Department of Environmental Protection
	<u>Lafayette, LA 70503</u>	
Telephone	<u>(337) 769-4064</u>	

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 deprivacyofficer@wv.gov.

WW-9
(5/16)

API Number 47 - 103 - 02205
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 Centerpoint

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 _____)

*DMH
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.

Company Official Signature *Lee Lawson*

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Company Official (Typed Name) Lee Lawson

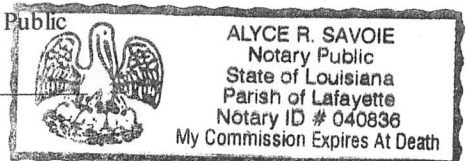
WV Department of Environmental Protection

Company Official Title Regulatory/HSE Director

Subscribed and sworn before me this 25th 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 Inspector 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]

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

[Empty response box for question 4]

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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.

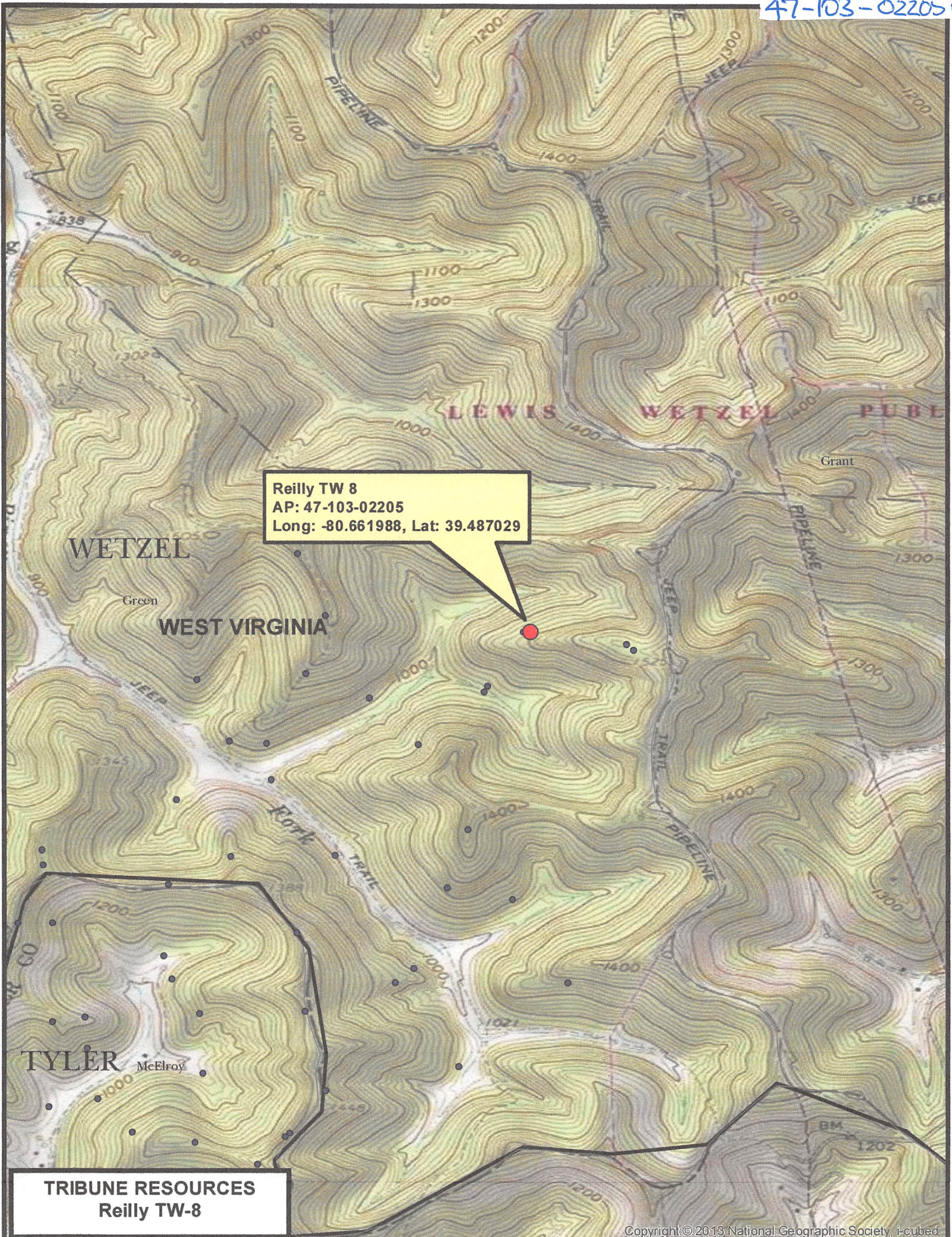
7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

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

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Environmental Protection

Signature: _____

Date: _____



Reilly TW 8
AP: 47-103-02205
Long: -80.661988, Lat: 39.487029

TRIBUNE RESOURCES
Reilly TW-8

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-103-02205 WELL NO.: 8

FARM NAME: T W Reilly

RESPONSIBLE PARTY NAME: Tribune Resources

COUNTY: Wetzel DISTRICT: Green

QUADRANGLE: Centerpoint

SURFACE OWNER: West Virginia Public Lands Corp.

ROYALTY OWNER: _____

UTM GPS NORTHING: ~~43.70863~~ 4370863 N

UTM GPS EASTING: ~~52.9059~~ 529059 E GPS ELEVATION: 1298'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

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

Survey grade GPS _____: Post Processed Differential _____

Real-Time Differential _____

Mapping Grade GPS _____: Post Processed Differential

Real-Time Differential _____

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

[Signature] Agent 4-5-19
 Signature Title Date

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