



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, August 28, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

TRIBUNE RESOURCES, LLC
3861 AMBASSADOR CAFFERY PARKWAY, SUITE 600

LAFAYETTE, LA 70503

Re: Permit approval for E. LEASURE NO. I-21
47-103-01738-00-00

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: E. LEASURE NO. I-21
Farm Name: CAIMAN ENERGY
U.S. WELL NUMBER: 47-103-01738-00-00
Vertical Plugging
Date Issued: 8/27/2019

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.

WW-4B
Rev. 2/01

1) Date _____, 20____
2) Operator's
Well No. Leasure, E. I-21
3) API Well No. 47-103 - 01738

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 1439' Watershed Fluharty Fork
District Green County Wetzel Quadrangle Centerpoint

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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MAY 16 2019
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 [Signature] Date 5-1-19

Leasure, E. I-21

API No. 47-103-01738
 Elevation 1439'
 Latitude 39.496456
 Longitude -80.690259

TD 3578'
 Perfs Gordon 3382' ?

	Casing		Cement	
	Size	Depth	Sxs	Est. Top
Surface	8-5/8"	709	325	Circ-est.
Intermediate				
Production	4-1/2"	3500	275	1900'
Liner				

Procedure

Free point 4-1/2" 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.

Plugs	Material	Depth		Thickness	
		Bottom	Top		
Formation	Cement	3320'	3220'	100	
	Gel	3220'	1900'	1320	
4-12" casing	Cement	est 1900'	est 1800'	+/- 50'	100
	Gel	1800'	est. 1200'		600
Pitts' Coal	Cement	1200'	1084'	Top 1134'	116
	Gel	1084'	250'		834
Surface Casing	Cement	est 250'	est 150'		100 IF cement is not circulated
	Gel	150'	100'		50
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

★ ADD 100' CLASS A CEMENT PLUG FROM 759' TO 659' ACROSS 8 5/8" CASING S.HOR. DMH 5-1-19

JWM

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

Well Operator's Report of Well Work

Farm name: Knight, John & Bonnie Operator Well No.: E. Leasure #1-21

LOCATION: Elevation: 1,439.00 Quadrangle: Center Point
District: Green County: Wetzel
Latitude: 1,300 Feet south of 39 Deg 30 Min 0 Sec.
Longitude: 6,775 Feet west of 80 Deg 40 Min 0 Sec.

Company: PENNZOIL PRODUCTS COMPANY
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: Randal Mick

Permit Issued: 6/16/97
Well work Commenced: 6/20/97
Well work Completed: 7/29/97

Verbal plugging permission granted on:
Rotary X Cable _____ Rig _____
Total Depth (feet) 3578'
Fresh water depths (ft) NA

Salt water depths (ft) NA

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.
8-5/8"	709'	709'	325 Sacks
4 1/2"	3499.60'	3499.60'	275 Sacks

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3382'
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: PENNZOIL PRODUCTS COMPANY
By: [Signature]
Date: 3/17/98

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Treatment :

Perforated Gordon sand with 36 holes from 3389'-3414' K.B. Fractured with 300 gals 15% HCL and 215 bbls gelled water and 11,000 lbs. 20/40 sand

Well Log :

All depth are relative to K.B. This well was directionally drilled.

0	718 Sand and Shale
718	788 sand
788	1034 Shale
1034	1100 sand
1100	1298 Shale
1298	1460 sand
1460	1784 Shale
1784	1827 sand
1827	1882 Shale
1882	1988 sand
1988	2284 Shale
2284	2324 sand
2324	2492 Shale
2492	2610 Big Lime
2610	2774 Big Injun
2774	3358 Shale
3358	3382 Gordon Stray
3382	3397 Gordon
3397	3578 Shale

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WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
Leasure, E. I-21

3) API Well No.: 47 - 103 - 01738

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

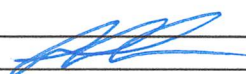
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Caiman Energy</u>	Name <u>N/A</u>
Address <u>5949 Sherry Lane</u> ✓	Address _____
<u>Suite 1300</u>	_____
(b) Name <u>Dallas, TX</u>	(b) Coal Owner(s) with Declaration
Address <u>75225</u>	Name _____
_____	Address _____
(c) Name _____	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.

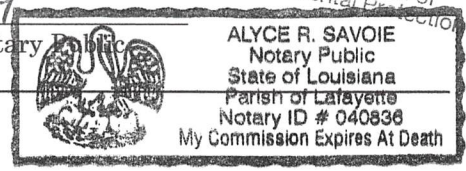
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental 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 Tribune Resources, LLC
 By: Lee Lawson 
 Its: Regulatory/HSE Director
 Address 3861 Ambassador Caffery BLVD, Suite 600
Lafayette, LA 70503
 Telephone 337-769-4064

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MAY 16 2019

Subscribed and sworn before me this 5th day of April, 2019
Alyce R. Savoie
My Commission Expires with life

Notary Public



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.

WW-9
(5/16)

API Number 47 - 103 - 01738
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) Fluharty 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

WELL EFFLUENT WILL BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY.

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
5-1-19

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.

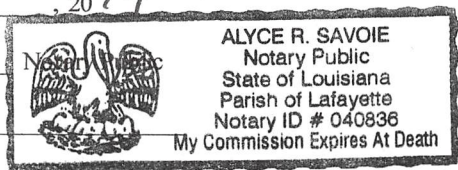
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 [Signature]
Company Official (Typed Name) Lee Lawson
Company Official Title Regulatory/HSE Director

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Subscribed and sworn before me this 5th day of April

[Signature]
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: _____

Title: Oil + Gas Inspector

Date: 5-1-19

Field Reviewed? () Yes () No

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N/A

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

Operator Name: Tribune Resources, LLC

Watershed (HUC 10): Fluharty 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.

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

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

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

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

N/A

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

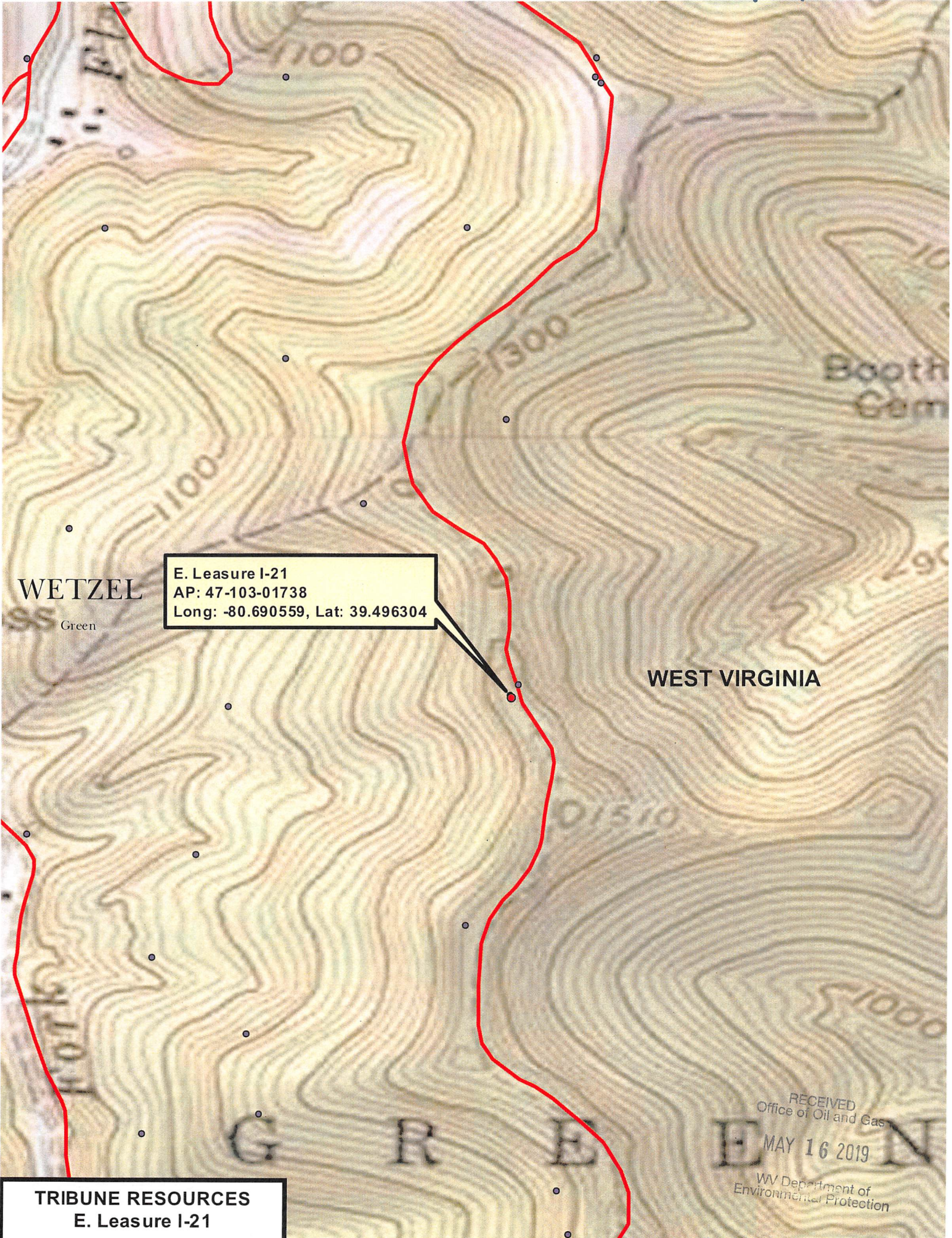
7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

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

Signature: _____

Date: _____

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E. Leaseure I-21
 AP: 47-103-01738
 Long: -80.690559, Lat: 39.496304

WETZEL
 Green

WEST VIRGINIA

G R E E N

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TRIBUNE RESOURCES
 E. Leaseure I-21

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-103-01738 WELL NO.: I-21

FARM NAME: E. Leasure

RESPONSIBLE PARTY NAME: Tribune Resources

COUNTY: Wetzel DISTRICT: Green

QUADRANGLE: Centerpoint

SURFACE OWNER: Caiman Energy

ROYALTY OWNER: _____

UTM GPS NORTHING: 4371900.02

UTM GPS EASTING: 526606.87 GPS ELEVATION: 1439'

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 **X**

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.

Heather C. Briff
Signature

Agent
Title

4-17-19
Date

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