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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)

Friday, May 24, 2019  
 WELL WORK PERMIT  
 Horizontal 6A / Drilling Deeper

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

Re: Permit approval for WILEY N GRN WZ 1H  
 47-103-03098-00-00

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.

Please be advised that form WR-35, Well Operators Report of Well Work 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: WILEY N GRN WZ 1H  
 Farm Name: COASTAL LUMBER COMPANY  
 U.S. WELL NUMBER: 47-103-03098-00-00  
 Horizontal 6A Drilling Deeper  
 Date Issued: 5/24/2019

**PERMIT CONDITIONS 4710303098**

West Virginia Code § 22-6A-8(d) 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.

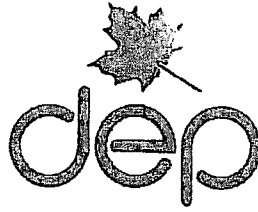
**CONDITIONS**

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: \_\_\_\_\_ 05/24/2019  
4710303098

## PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov).



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

**ORDER  
ISSUED UNDER  
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: American Energy Marcellus, LLC  
3501 NW 63<sup>rd</sup> Street  
Oklahoma City, OK 73116

DATE: June 25, 2015  
ORDER NO.: 2015-W-6

**INTRODUCTION**

This Order (hereinafter "Order") is issued by the Office of Oil and Gas (hereinafter "OOG"), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to American Energy Marcellus, LLC. (hereinafter "AEM" or "Operator"), collectively the "Parties."

**FINDINGS OF THE CHIEF**

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. AEM is a "person" as defined by W. Va. Code §22-6-1(n), with a corporate address as 3501 NW 63<sup>rd</sup> Street Oklahoma City, Oklahoma.
3. On March 12, 2015, AEM submitted well work permit applications identified as API#s 47-103-03098, 47-103-03099, 47-103-03100, 47-103-03101, 47-103-03102, 47-103-03103, 47-103-03104 and 47-103-03105 located on the Wiley GRN WZ Pad in Green District of Wetzel County, West Virginia.
4. On March 12, 2015, AEM requested a waiver for Wetland #1 outlined in Exhibit B, from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as 47-103-03098, 47-103-03099, 47-103-03100, 47-103-03101, 47-103-03102, 47-103-03103, 47-103-03104 and 47-103-03105 located on the Wiley GRN WZ Pad in Green District of Wetzel County, West Virginia.

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### CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to... (3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.”

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**ORDER**

Therefore, the Office of Oil and Gas grants AEM a waiver for Wetland #1 from well location restriction requirements in W. Va. Code §22-6A-12(b) for gas well permit applications identified as API#s 47-103-03098, 47-103-03099, 47-103-03100, 47-103-03101, 47-103-03102, 47-103-03103, 47-103-03104 and 47-103-03105 located on the Wiley GRN WZ Pad in Green District of Wetzel County, West Virginia. The Office of Oil and Gas hereby **ORDERS** that AEM shall meet the following site construction and operational requirements for the Wiley GRN WZ well pad:

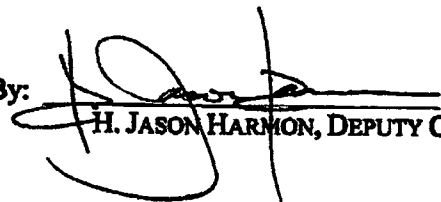
- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least two feet (2') in height;
- b. Filter/silt socks and erosion control blankets shall be installed on all slopes and down gradient locations of the pad and topsoil pile areas as erosion and sediment controlling BMPs;
- c. Wetland #1 shall have a double compost filter sock stack and super silt fencing installed adjacent to the wetland;
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (1/2") rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 25th day of June, 2015.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

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

By:

  
H. JASON HARMON, DEPUTY CHIEF

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**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**WELL WORK PERMIT APPLICATION**

1) Well Operator: Tribune Resources, LLC 494522341 Wetzel Green P Grove/C Point  
Operator ID County District Quadrangle

2) Operator's Well Number: Wiley N GRN WZ 1H Well Pad Name: Wiley N GRN WZ

3) Farm Name/Surface Owner: Coastal Lumber Company Public Road Access: CR 13, CR 13/3 and CR 13/8

4) Elevation, current ground: 1286.8' Elevation, proposed post-construction: 1286.8'

5) Well Type (a) Gas X Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
Other Drill Deeper

(b) If Gas Shallow X Deep \_\_\_\_\_  
Horizontal X

6) Existing Pad: Yes or No Yes

*DMAH 5/19/19*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target formation: Marcellus Down-Dip well, Target top TVD: 7225', Target base TVD: 7275', Anticipated Thickness: 50', Anticipated Pressure: 4600 psi

8) Proposed Total Vertical Depth: 7355'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17,701'

11) Proposed Horizontal Leg Length: 10,000'

12) Approximate Fresh Water Strata Depths: 535'

13) Method to Determine Fresh Water Depths: Based on drilling history of nearby wells

14) Approximate Saltwater Depths: 1315'

15) Approximate Coal Seam Depths: 1065'

16) Approximate Depth to Possible Void (coal mine, karst, other): Not that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No X

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

WW-6B  
(04/15)

API NO. 47- 103 - 03098  
 OPERATOR WELL NO. Wiley N GRN WZ 1H  
 Well Pad Name: Wiley N GRN WZ

05/24/2019

18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<b>Size (in)</b>	<b>New or Used</b>	<b>Grade</b>	<b>Weight per ft. (lb/ft)</b>	<b>FOOTAGE: For Drilling (ft)</b>	<b>INTERVALS: Left in Well (ft)</b>	<b>CEMENT: Fill-up (Cu. Ft.)/CTS</b>
Conductor	20"	New	J-55	98#	120'	120'	225 SX/CTS
Fresh Water	13 3/8"	New	J-55	54.5#	1105'	1105'	1035 SX/CTS
Coal							
Intermediate	9 5/8"	New	J-55	40#	3400'	3400'	1400 SX/CTS
Production	5 1/2"	New	P-110	20#	17,701'	17,701'	Lead 1390 cu/ft/ 2700 cu/ /total 100%
Tubing							
Liners							

*DWMA 5/19/19*

<b>TYPE</b>	<b>Size (in)</b>	<b>Wellbore Diameter (in)</b>	<b>Wall Thickness (in)</b>	<b>Burst Pressure (psi)</b>	<b>Anticipated Max. Internal Pressure (psi)</b>	<b>Cement Type</b>	<b>Cement Yield (cu. ft./k)</b>
Conductor	20"	26"	0.438"	2110	50	Class A	1.2/50% Excess
Fresh Water	13 3/8"	17 1/2"	0.38"	2730	800	Class A	1.2/30% Excess
Coal							
Intermediate	9 5/8"	12 1/4"	0.395"	3950	1500	Class A	1.26/30% Excess
Production	5 1/2"	8 3/4"	0.361"	12,640	5000	50/50 Poz; Class A	1.35/10% Excess
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				



WW-6B  
(10/14)

API NO. 47- 103 - 03098 **05/24/2019**  
OPERATOR WELL NO. Wiley N GRN WZ 1H  
Well Pad Name: Wiley N GRN WZ

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

20" conductor has been set to 100' with cement back to surface. A rig capable of drilling the well to TD will be moved in to complete the well. We will drill to 1,105' on fluid and set a 13-3/8" fresh water casing string. Drilling will continue to 3,400' where 9-5/8" casing will be set. Note: If we should encounter a void during drilling, a cement basket will be placed above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. (\*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cement to surface). We will continue drilling the well to total depth and run/cement casing as per the attached program.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

We plan to hydraulically fracture/stimulate the well utilizing the "slickwater" frac technique. We will plug and perforate through cased hole and frac with an anticipated max pressure that will not exceed 10,000 psi.

*Dmk  
3-26-15*

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 42.3

22) Area to be disturbed for well pad only, less access road (acres): 5.7

23) Describe centralizer placement for each casing string:

Conductor: NA  
Surface: Centralizer every 3 joints or 120'  
Intermediate: Centralizer every 3 joints or 120'  
Production: Run 1 spiral centralizer every 120' from TD to the top of the curve  
Run 1 spiral centralizer every 200' from the top of the curve to surface

24) Describe all cement additives associated with each cement type:

Conductor: Class A cement (see attachment for description)  
Surface: Class A cement (see attachment for description)  
Intermediate: Class A cement (see attachment for description)  
Production: 50/50 Poz/Class A lead, Class A cement tail (see attachment for description)

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25) Proposed borehole conditioning procedures:

The wellbore will be properly circulated clean at TD of each hole section until as much residual drill cuttings have been removed from the wellbore as possible, residual gas has been circulated out and the mud and wellbore are both in good, stable condition. Mud properties will be adjusted, if needed, to ensure clean hole. Hole cleaning times will vary by hole section and from well to well.

\*Note: Attach additional sheets as needed.

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 103 - 03098 County Wetzel District Green  
Quad P Grove/C Point Pad Name Wiley N GRN WZ Field/Pool Name \_\_\_\_\_  
Farm name Coastal Lumber Company Well Number Wiley N GRN WZ 1H  
Operator (as registered with the OOG) Tribune Resources, LLC  
Address 3861 Ambassador Caffery Parkway City Lafayette State LA Zip 70503

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4373363.4 Easting 526484.4  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1286.8' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)

CACL2

POL-E-FLAKE

Date permit issued 6/26/2015 Date drilling commenced 9/9/2015 Date drilling ceased 9/9/2015  
Date completion activities began NA Date completion activities ceased NA  
Verbal plugging (Y/N) \_\_\_\_\_ Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft \_\_\_\_\_ Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft \_\_\_\_\_ Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft \_\_\_\_\_ Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) \_\_\_\_\_

Reviewed by:  
DWH 5/23/19

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WR-35  
Rev. 8/23/13

API 47-103 - 03098 Farm name Coastal Lumber Company Well number Wiley N GRN WZ 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	26"	20"	120'	New	J-55		Y
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	300	15.68	1.21	66.12		
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 120' Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated \_\_\_\_\_ Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) \_\_\_\_\_

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

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WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

WR-35  
Rev. 8/23/13

API 47- 103 - 03098 Farm name Coastal Lumber Company Well number Wiley N GRN WZ 1H

**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)

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**MAY 10 2019**  
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Please insert additional pages as applicable.

WR-35  
Rev. 8/23/13

API 47- 103 - 03098

Farm name Coastal Lumber Company

Well number Wiley N GRN WZ 1H

**PRODUCING FORMATION(S)**

**DEPTHS**

TVD

MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow

OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd  
GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	
	NAME	TVD	MD	MD	
		0		0	

Please insert additional pages as applicable.

Drilling Contractor Express Energy Services  
Address 9800 Richmond Ave Suite 500

City Houston

State TX Zip 77042

Logging Company \_\_\_\_\_  
Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company Allied Oil & Gas Services, LLC  
Address PO Box 93999

City Southlake

State TX Zip 76092

Stimulating Company \_\_\_\_\_  
Address \_\_\_\_\_  
Please insert additional pages as applicable.

City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Completed by LEE L LAWSON  
Signature 

Telephone 337-769-4064  
Date 5-8-2019

Title REG/HSE DIRECTOR

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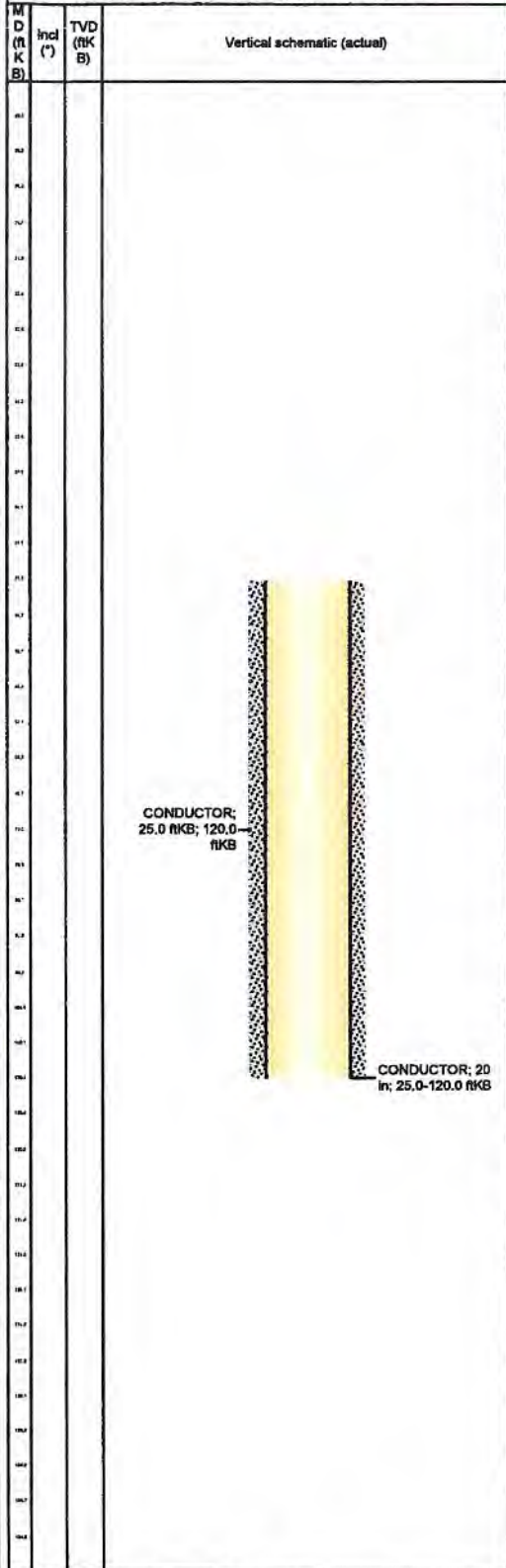
**Casing, Liner and Cement report**

Well Name: **WILEY N GRN WZ 1H**

**CONDUCTOR**

API 47103030980000	Surface Legal Location GREEN TOWNSHIP	Field Name	License #	State WEST VIRGINIA	Well Configuration Type HORIZONTAL
Ground Elevation (ft)	Casing Flange Elevation (ft)	RKB (ft)	KB-Casing Flange Distance (ft)	Well Spud Date	Rig Release Date

HORIZONTAL, ORIGINAL HOLE, 7/24/2018 10:02:32 AM



Wellbore									
Wellbore Name <b>ORIGINAL HOLE</b>			Profile Type			Vertical Section Direction (°)			
Section Des <b>CONDUCTOR</b>		Size (in) 26		Act Top (ftKB) 25.0		Act Btm (ftKB) 120.0			
KID: Offs & Key Depths									
Date	Point or Interval	Type	Subtype	Description	Prop?	Top Dept...	Bottom D...		
Wellhead									
Type									
Des		Make		Model		SN		WP Top (psi)	
Mud Check									
Date	Type	Depth (ftKB)	Dens (lb/gal)	Vis (s/qt)	Gel (10s) (lb/100ft²)	Gel (10m) (lb/100ft²)	PV OR (cP)	YP OR (lb/100ft²)	
Casing									
Casing Description <b>CONDUCTOR</b>			Run Date 9/9/2015 00:00		Set Depth (ftKB) 120.0		Wellbore <b>ORIGINAL HOLE</b>		
Centralizers					Scratchers				
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
2	CASING JOINTS	20	19.12	94.00	J-55	95.00	25.0	120.0	
Cement: CONDUCTOR									
Cementing Start Date 9/9/2015			Cementing End Date 9/9/2015			Wellbore <b>ORIGINAL HOLE</b>			
Evaluation Method					Eval Result				
Comment									
Cement Stage: CONDUCTOR									
Top Depth (ftKB) 25.0		Bottom Depth (ftKB) 120.0		Full Return? Vol Ceme... Yes		Top Plug? No		Bottom Plug? No	
Q Pump Init (bb/min) 2		Final Pump Rate (bb/min) 2		Avg Pump Rate (bb/min) 2		Final Pump Pressure (psi) 23.0		Plug Bump Pressure (psi)	
Pipe Reciprocated? No		Stroke (ft)		Reciprocation Rate (spm)		Pipe Rotated? No		Pipe RPM (rpm)	
Tagged Depth (ftKB)		Tag Method		Depth Plug Drilled Out...		Drill Out Diameter (in)		Drill Out Date	
Cement Fluid: CONDUCTOR									
Fluid Type <b>LEAD</b>		Fluid Description <b>CLASS A CEMENT</b>				Amount (s...) 300		Class A	Volume Pumped (bbf) 66.0
Estimated Top (ftKB) 25.0		Est Btm (ftKB) 120.0		Yield (ft³/sack) 1.21		Mix H2O Ratio (gal/sack) 5.21		Free Water (%)	
Density (lb/gal) 15.60		Plastic Viscosity (cP)			Thickening Time (hr)		1st Compressive Strength (psi)		
Cement Fluid Additives									
Add		Type		Amount		Amount Units		Conc	Conc Unit
CACL2								3.0	%
POL-E-FLAKE								0.25	PPS

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**Cement Additives****Conductor/Surface:**

- Class A Cement
- 2% Calcium Chloride
- 0.25 PPS Flake LCM

**Intermediate (Lead/Tail):**

- Class A Cement
- 1% Calcium Chloride
- 0.25 PPS Flake LCM

- Class A Cement
- 1% Calcium Chloride
- 0.25 PPS Flake LCM
- 5% Gypsum
- 10 BWOW Salt

**Production (Lead/Tail):**

- Class A Cement
  - Pozzolan Extender
  - 0.2% Solid Antifoam
  - 0.3% LT Retarder
  - 0.3% LT Fluid Loss
  - 3% Bentonite
  - 0.1% LT Fluid Loss
- 
- Class A Cement
  - 0.2% Solid Antifoam
  - 0.2% LT Retarder
  - 0.25% LT Fluid Loss
  - 0.15% LT Fluid Loss
  - 0.25% Dispersant HMW

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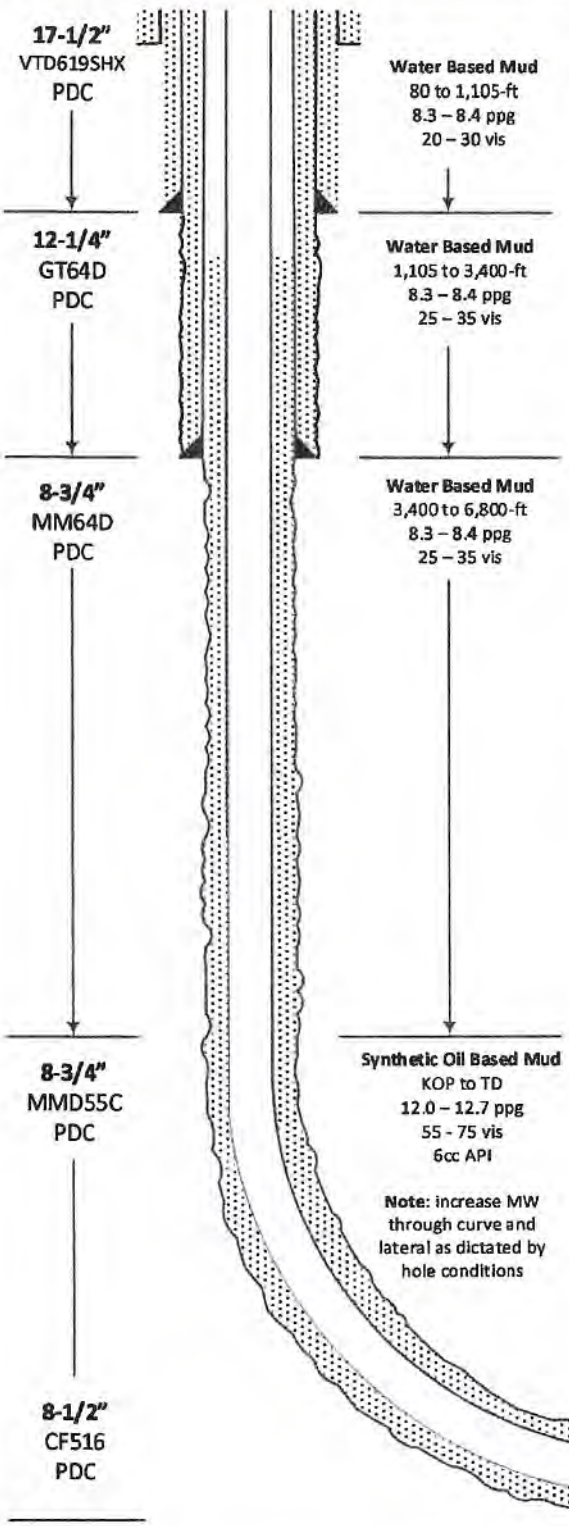
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**TRIBUNE**  
RESOURCES

# Wiley N GRN WZ 1H

County: <b>Wetzel, West Virginia</b>	Township: <b>Grant</b>	Location:	Formation: <b>Marcellus</b>
Coordinates: <b>NAD 27</b>	SHE Lat/Long: <b>39.50941182 N, 80.69210337 W</b>	R/W / Elevation:	A/E DC/CWC:
	BHL Lat/Long: <b>39.483534482 N, 80.676760377 W</b>		USOW: <b>535'</b>
Rig:	Target Line:		Property #:
			A/E #:



Interval	Hole size (in)	Size (in)	Weight #/ft	Grade	Conn.	Collapse (PSI)	Burst (PSI)	Depth (ft)	Cost \$/ft
Conductor	26"	20"	-	-	-	-	-	120	-
Surface	17-1/2"	13-3/8"	54.5	J-55	BTC	1,130	2,730	1,105	36
Intermediate	12-1/4"	9-5/8"	40	J-55	LTC	2,570	3,950	3,400	22
Production	8-3/4"	5-1/2"	20	P-110	TBD	11,080	12,640	17,701	22

Interval	Slurry	Weight	Ft <sup>3</sup>	Yield	Excess	Cement Top
Conductor	Tall	15.6 ppg	225	1.20 cuft/sk	50%	Surface
	Lead	15.6 ppg	1,035	1.20 cuft/sk	30%	Surface
Surface	Lead	15.2 ppg	775	1.26 cuft/sk	30%	Surface
	Tall	15.6 ppg	625	1.3 cuft/sk	30%	1,900
Intermediate	Lead	13.8 ppg	1,390	1.35 cuft/sk	10%	1,750
	Tall	15.0 ppg	2,790	1.29 cuft/sk	10%	6,800

Formation	TVD	Sub Sea
Freshwater	535'	653'
Pittsburgh Coal	1,065'	123'
Saltwater	1,315'	-127'
Big Injun	2,355'	-1,167'
Big Injun Base	2,555'	-1,367'
Berea	2,915'	-1,727'
Gordon	3,135'	-1,947'
Gordon Base	3,220'	-2,032'
Middlesex	6,942'	-5,754'
Geneseo	7,085'	-5,897'
Tully	7,113'	-5,925'
Hamilton	7,137'	-5,949'
Marcellus	7,225'	-6,037'
Purcell	7,232'	-6,044'
Lower Marcellus	7,234'	-6,046'
Basal Marcellus	7,258'	-6,070'
Onondaga	7,275'	-6,087'
Oriskany		

*DMH 5/9/19*

Proposed KOP at 6,808-ft MD  
VS at KOP is -252-ft (nudge)  
Build 10°/100-ft to 89.3° inc., 150° azi.  
EOB at 7,684-ft MD  
(see directional plan for specific details)

EOC at 7,701-ft MD / 7,240-ft TVD  
89.3° inc., 150° azi., 314-ft VS  
(see directional plan for specific details)

TD at 17,701-ft MD / 7,355-ft TVD  
89.3° inc., 150° azi., 10,313-ft VS

Note: increase MW through curve and lateral as dictated by hole conditions



Wiley 1H Area of Review

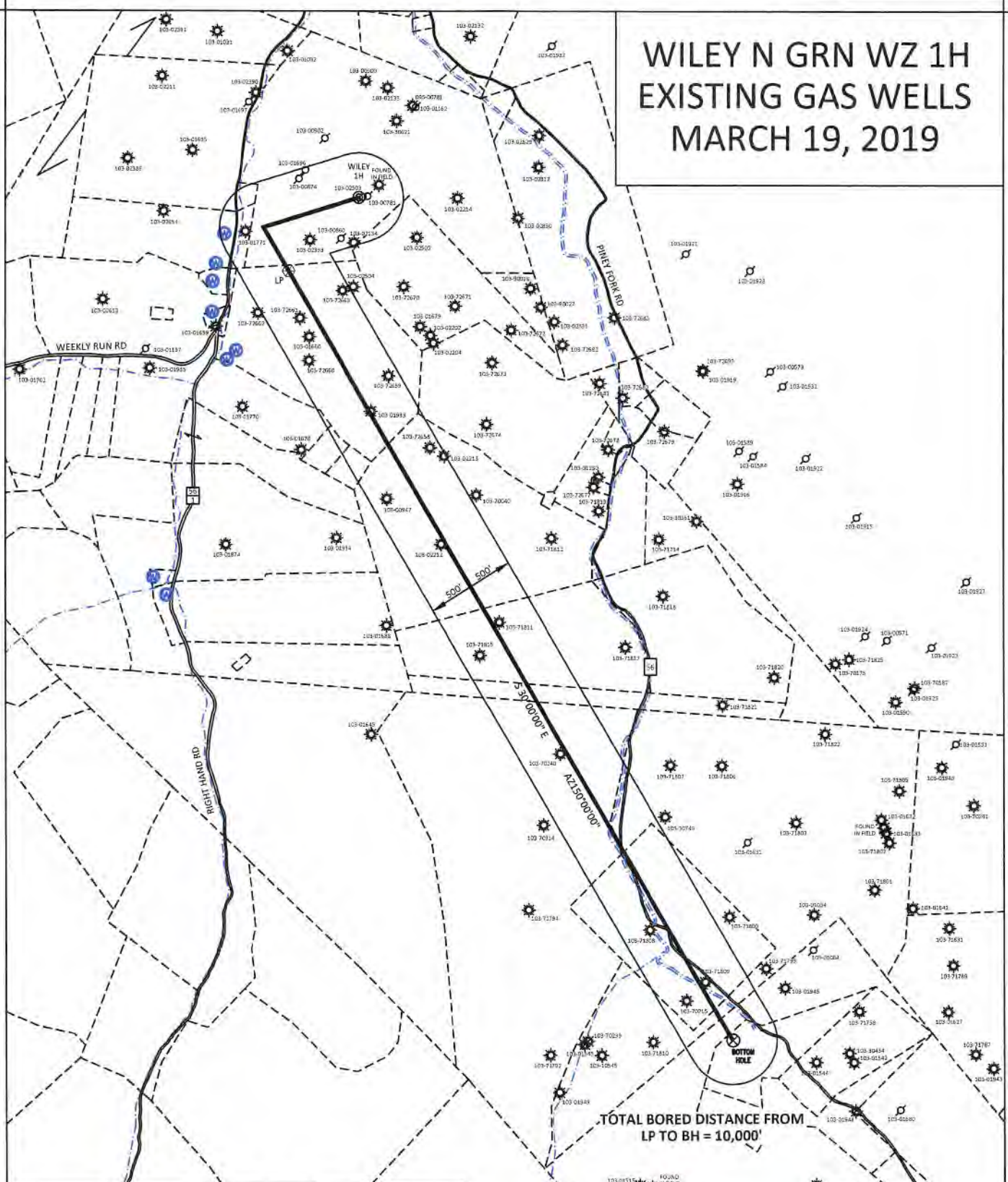
API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Producing Formation
47-103-01696	Coastal Lumber Co	G-27	Pennzoil Products Company	39.510280	-80.197609	5-23-4	3052	NA
47-103-00874	Coastal Lumber Co	6	Pennzoil Products Company	39.509845	-80.694007	5-23-4	3057	NA
47-103-01771	Coastal Lumber Co	F-26	Pennzoil Products Company	39.508395	-80.69644	5-23-6.1	2814	NA
47-103-72662	J R Moore	1	NA	39.505899	-80.695901	5-23-12	NA	NA
47-103-72661	J R Moore	6	NA	39.505754	-80.694215	5-23-12	NA	NA
47-103-01660	Elza & Joyce Anderson	G-25	Pennzoil Products Company	39.505205	-80.693819	5-23-12	3038	NA
47-103-72660	J R Moore	5	NA	39.500274	-80.690635	5-23-12	3099	NA
47-103-00947	John & Stanley Pittman	NA	Pennzoil Products Company	39.660222	-80.184096	5-23-26	NA	NA
47-103-02212	Theodore Adamerovich	NA	East Resources, Inc	39.498776	-80.688388	5-23-26	NA	NA
47-103-71815	Ephraim Leaseure	7	NA	39.495437	-80.686872	5-23-33	NA	NA
47-103-70240	John J Reilly	3	South Penn Oil (S. Penn Nat. Gas)	39.492396	-80.68352	5-26-2	3019	NA
47-103-71808	Henry Nolan	10	NA	39.487020	-80.679953	5-26-3	NA	NA
47-103-70215	Henry Nolan	2	South Penn Oil (S. Penn Nat. Gas)	39.484856	-80.678465	5-26-3	2895	NA
47-103-71809	Henry Nolan	4	NA	39.485423	-80.677709	5-26-3	NA	NA
47-103-71811	James A Booth	6	NA	39.496453	-80.689117	5-23-33	NA	NA
47-103-02213	Theodore Adamerovich	NA	East Resources, Inc	39.501580	-80.688202	5-23-26	NA	NA
47-103-72658	James A Booth	4	NA	39.501835	-80.688969	5-23-26	NA	NA
47-103-01933	Timmy A Morris	6	East Resources, Inc	39.503030	-80.691197	5-23-12	3279	NA
47-103-72659	J R Moore	3	NA	39.504012	-80.690655	5-23-12	NA	NA
47-103-72663	J R Moore	2	NA	39.506625	-80.692529	5-23-12	NA	NA
47-103-02504	Timmy Morris	NA	East Resources, Inc	39.506637	-80.691545	5-23-12	3350	NA
47-103-02393	Coastal Lumber Co	NA	East Resources, Inc	39.50822	-80.693878	5-23-4	3170	NA
47-103-00860	C P McCoy	8	NA	39.50823	-80.692618	5-23-4	3083	NA
47-103-02134	Coastal Lumber Co	11	East Resources, Inc	39.50825	-80.692135	5-23-4	3320	NA
FOUND IN FIELD	NA	NA	NA	39.509809	-80.691313	5-23-4	NA	NA
47-103-00781	McCoy Heirs	9	Pennzoil Company	39.509527	-80.691593	5-23-4	NA	NA
47-103-02503	Coastal Lumber Co	16	NA	39.509499	-80.691766	5-23-4	3410	NA

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# WILEY N GRN WZ 1H EXISTING GAS WELLS MARCH 19, 2019



SCALE: 1" = 1,500'



TOTAL BORED DISTANCE FROM LP TO BH = 10,000'

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WW-9  
(4/16)

API Number 47 - 103 - 03098

Operator's Well No. WVE, N GRN WZ 1H

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 494522341

Watershed (HUC 10) Fishing Creek

Quadrangle Pine Grove/ Center Point

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: Closed loop system. No pits will be used.

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number see attached sheet titled UIC wells and landfills )
- Reuse (at API Number next anticipated well )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain \_\_\_\_\_)

DmH  
3-26-19

Will closed loop system be used? If so, describe: Yes. See attached sheet titled Closed Loop Typical Description

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

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

Additives to be used in drilling medium? See attached sheet titled Drilling Additives

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

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

-Landfill or offsite name/permit number? See attached sheet titled UIC Wells and Landfills

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 August 1, 2005, 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 

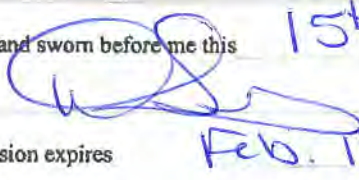
Company Official (Typed Name) Lee Lawson

Company Official Title Regulatory/ HSE Director

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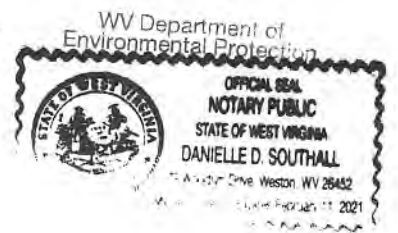
MAR 28 2019

Subscribed and sworn before me this 15<sup>th</sup> day of March, 2019

  
Feb. 11, 2021

Notary Public

My commission expires



47 : 0 3 0 3 0 9 8  
05/24/2019

Form WW-9

Operator's Well No. Wiley N GRN WZ 1H

**Tribune Resources, LLC**

Proposed Revegetation Treatment: Acres Disturbed 42.3 Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 5.7

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch minimum of 2-3 Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

See Attached

See Attached

**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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

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

Title: Oil & Gas Inspector

Date: 3-26-19

Field Reviewed?  Yes  No

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## Closed Loop System: Typical Design

4710303098 3/5/24/2019

Consists of a series of open top tanks that separate liquids and solids. A typical closed loop system is comprised of:

- Open top tanks
- Screened shale shakers
- Drying shakers
- Centrifuges
- Hydro cyclones

Cutting are solidified on location and transferred off-site for disposal.

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Drilling Additive Information

Well Pad Name:		Wiley Pad			Max		Physical	
Product	Container /Unit Size	Container Units	Max Daily Unit Quantity	Average Unit Quantity	Total Quantity (Unit Size X Max Unit Quantity)	Units	State (solid, liquid, other)	Storage Location
Anco Mul XL	275	gal	5,000	2,500	5,000	gal	liquid	Chem Storage Area
Bulk Barite	1	ton	60	30	60,000	lbs	solid	Barite Tank
Barite 100#	100	lbs sack	400	200	400	lbs	solid	Chem Storage Area
Lime	50	lbs sack	137	70	6,850	lbs	solid	Chem Storage Area
Anco Trol	50	lbs sack	100	50	5,000	lbs	solid	Chem Storage Area
Anco Phalt S	50	lbs sack	500	250	2,500	lbs	solid	Chem Storage Area
Calcium Chloride	50	lbs sack	112	60	5,600	lbs	solid	Chem Storage Area
Petrogell 100	50	lbs sack	120	60	7,200	lbs	solid	Chem Storage Area
Anco Mul OW	275	gal tote	900	550	900	gal	liquid	Chem Storage Area
Anco Mul P	275	gal tote	900	550	900	gal	liquid	Chem Storage Area
Anco Mul S	275	gal tote	2,000	800	2,000	gal	liquid	Chem Storage Area
Anco Mul Thin	275	gal tote	2,000	800	2,000	gal	liquid	Chem Storage Area
Calcium Carbonate M	50	lbs sack	420	240	21,000	lbs	solid	Chem Storage Area
Calcium Carb (F)	50	lbs sack	500	240	25,000	lbs	solid	Chem Storage Area
LCF Blend	50	lbs sack	500	240	25,000	lbs	solid	Chem Storage Area
Thunderplug	50	lbs sack	500	240	25,000	lbs	solid	Chem Storage Area
Cedar Fiber	50	lbs sack	500	240	25,000	lbs	solid	Chem Storage Area
Walnut Hulls M	50	lbs sack	500	240	25,000	lbs	solid	Chem Storage Area
Anco Bar SS	3,000	lbs sack	60	20	180,000	lbs	solid	Chem Storage Area
OBM	1	bbl	2,400	1,700	100,800	gal	liquid	OBM Tanks
ANCO Gel	50	lbs sack	70	25	3,500	lbs	solid	Chem Storage Area
Claytone EM	50	lbs sack	200	100	10,000	lbs	solid	Chem Storage Area

lb = pounds

gal = gallons

bbl = barrels

05/24/2019

4710303098

## Landfills and UIC Wells

### Landfills

Wetzel County Landfill SWF-1021/WV0109185

Brooke County Landfill SWF-1013/WV0109029

### UIC

#### **K&H**

Well # 1: SWIW # 8 API Number: 34-009-2-3821-00

Well #2: SWIW # 10 API Number: 34-009-2-3823-00

Well # 3: SWIW #11 API Number: 34-009-2-3824-00

#### **Red Bird Development**

Well # 1: SWIW # 18 API Number: 34-167-2-9731-00-00

Well # 4: SWIW # 24 API Number: 34-167-2-9767-00-00

#### **Deep Rock**

HEINRICH #1 - SWIW #21 API# 34-167-2-9445

HEINRICH #2- SWIW #22 API# 34-167-2-9464

VOCATIONAL SCHOOL #2 - SWIW #20 API# 34-167-2-9543

AMERICAN GROWERS #1 - SWIW #26 API# 34-167-2-9766

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05/24/2019

4710303098

**Temporary and Permanent Seed Mix**

250 lbs. /acre

**Mix Details**

Medium red clover	4%
Alsike clover	4%
Birds foot trefoil	5%
Forage tall fescue	45%
Forage perineal rye	20%
Annual rye	11%
Winter wheat	10%

**Straw**

Winter – 3 ton per acre

Summer – 2 ton per acre

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# Wiley N GRN WZ 1H, 3H, 5H, 7H & 9H Site Safety Plan

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3-26-19

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4710303098

WILEY N GRN WZ 1H  
PINE GROVE, WV  
CENTER POINT, WV

05/24/2019

LEWIS WETZ

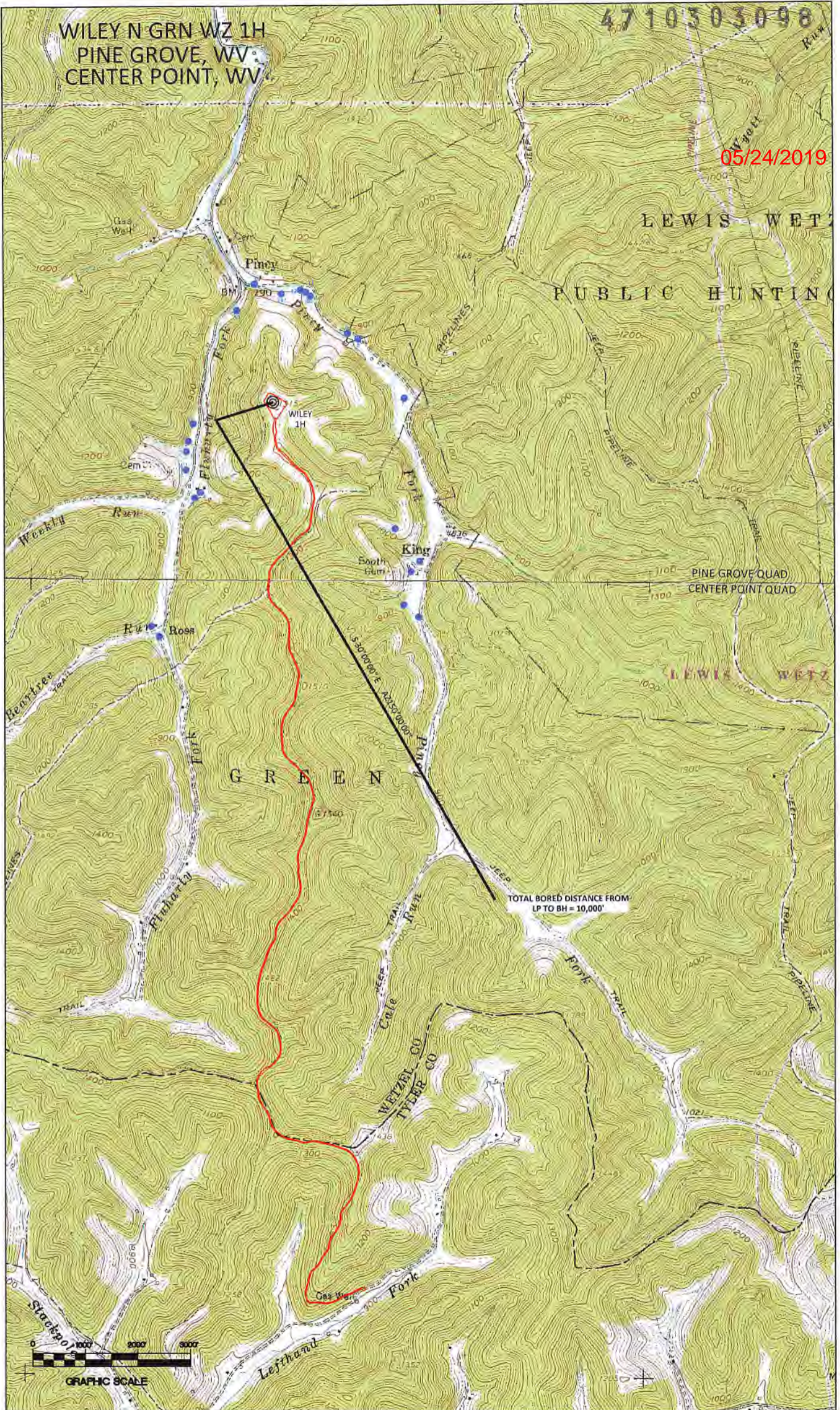
PUBLIC HUNTING

PINE GROVE QUAD  
CENTER POINT QUAD

LEWIS WETZ

GREEN

TOTAL BORED DISTANCE FROM  
LP TO BH = 10,000'

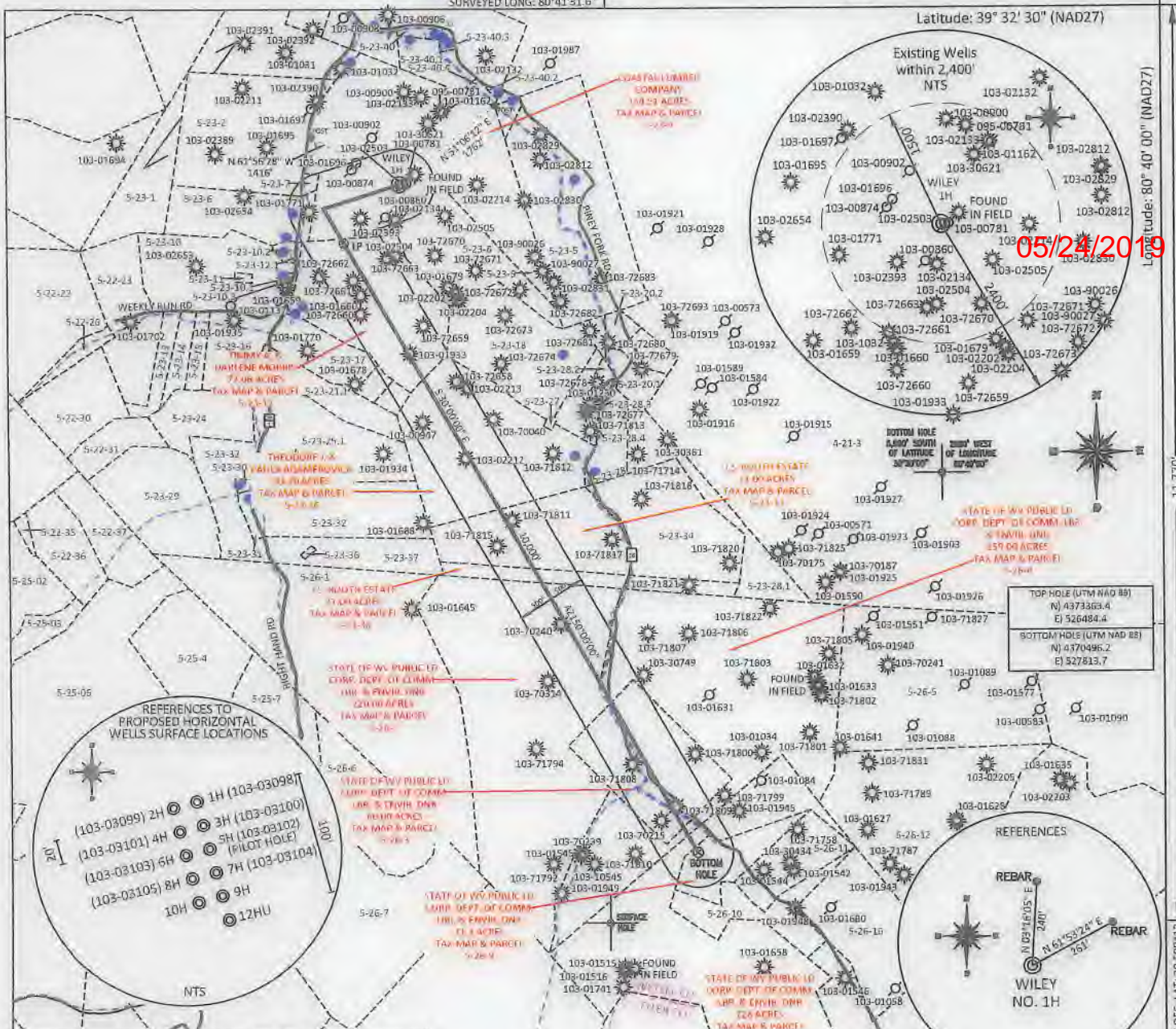


SURFACE HOLE DEC. LONG: 80.692103  
SURVEYED LONG: 80°41'31.6"

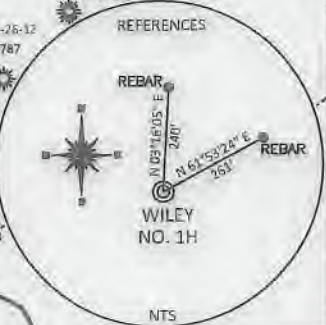
7,200'

Latitude: 39° 32' 30" (NAD27)

Longitude: 80° 40' 00" (NAD27)



05/24/2019




TOP HOLE (UTM NAD 83)
N) 4373363.4
E) 526484.4
BOTTOM HOLE (UTM NAD 83)
N) 4370496.2
E) 527813.7

REFERENCE NOTES  
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records WETZEL County, West Virginia JULY 2018  
State Plane Coordinates: NAD 83 Lat/Long by differential submeter mapping grade GPS  
Drafted by: E.A.M.

API # & DISTANCE TO WELL	
103-00900	N 03°17'36" E 1307'
103-02133	N 14°39'25" E 1268'
095-00781	N 30°17'42" E 1192'
103-01162	N 32°14'33" E 1192'
103-00902	N 30°28'52" W 788'
103-30621	N 26°15'10" E 956'
103-01696	N 63°12'19" W 681'
FOUND IN FIELD	N 57°49'31" E 266'
103-00781	N 83°20'23" E 95'
103-00874	N 72°46'56" W 711'
103-02503	N 88°18'41" E 45'
103-01771	S 73°34'19" W 1337'
103-02214	S 89°40'14" E 1110'
103-00860	S 23°46'21" W 500'
103-02393	S 49°25'03" W 728'
103-02505	S 55°34'01" E 788'
103-02134	S 06°10'12" W 508'
103-02504	S 03°29'26" W 1004'
103-72663	S 10°01'00" W 1059'
103-72670	S 26°45'06" E 1118'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed:   
L.L.S. #2124 Ernest J. Benchek III



FILE #: TRB1  
DRAWING #: 2887  
SCALE: PLAT: 1" = 2200' TIC: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304  
Well Type:  Oil  Waste Dipsal  Production  Deep  Gas  Liquid Injection  Storage  Shallow  
WATERSHED: FISHING CREEK  
COUNTY/DISTRICT: WETZEL / GREEN  
SURFACE OWNER: COASTAL LUMBER COMPANY  
OIL & GAS ROYALTY OWNER: CHARLES W. McCOY Jr ET AL  
LEASE NUMBERS:  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY):  
TARGET FORMATION: MARCELLUS  
WELL OPERATOR: TRIBUNE RESOURCES, LLC  
ADDRESS: 3861 AMBASSADOR CAFFERY PARKWAY SUITE 600  
CITY: LAFAYETTE STATE: LA ZIP CODE: 70503  
DATE: MARCH 21, 2019  
OPERATOR'S WELL #: WILEY N GRN WZ 1H  
API WELL #: 47 103 03098  
STATE COUNTY PERMIT  
AS-BUILT ELEVATION: 1,286.8'  
PINE GROVE, WV - TOPHOLE  
QUADRANGLE: CENTER POINT, WV - BOTTOM HOLE  
ACREAGE: 154.51 +/-  
ACREAGE: 1160.07 +/-  
ESTIMATED DEPTH: TMD: 17,701' TVD: 7355'  
DESIGNATED AGENT: HARMAN BROWN  
ADDRESS: 18396 MOUNTAINEER HIGHWAY  
CITY: WILEYVILLE STATE: WV ZIP CODE: 26581

WW-6A1  
(5/13)

Operator's Well No. Wiley N GRN WZ 1H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that --

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

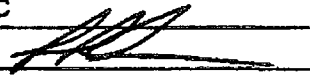
Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Attached				

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Tribune Resources, LLC  
 By: Lee Lawson   
 Its: Regulatory/ HSE Director

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant.

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan,
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as

Tribune Resources, LLC is the record title owner of the leases identified herein. Listed below each lease is the applicable chain of title by which Tribune Resources, LLC was vested with title thereto. Please note, throughout the chain of title, various mergers and name changes occurred between the referenced companies. In several instances, no documentation was filed in the county records evidencing such a merger or name change. In those cases, we've directed your attention to the records of the West Virginia Secretary of State, where said documentation can be found.

Parcel No.	Lessor/Assignor	Lessee/Assignee	Royalty/Instrument	Book/Page
5-23-4	<b>John R. McCoy etal</b>	<b>J.F. Guffey</b>	<b>1/8</b>	<b>46/445</b>
	J.F. Guffey	W.M. Graham	Assignment	56/286
	W.M. Graham	W.H. Nimick	Assignment	56/288
	W.H. Nimick	South Penn Oil Company	Assignment	49/268
	South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455
	South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478
	South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil United, Inc.	Assignment	246/491
	Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
	Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
	Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
	PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
	Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
	East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
	East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records	
5-23-12	<b>Beulah K. Kirby etvir</b>	<b>C.E. Beck</b>	<b>1/8</b>	<b>58A/161</b>
	C.E. Beck	Pennzoil Company	Assignment	58A/229
	Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
	Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
	Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
	PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
	Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
	East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
	East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records
5-23-26	<b>James A. and M.E. Booth</b>	<b>South Penn Oil Company</b>	<b>1/8</b>	<b>47/198</b>
	South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455
	South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478
	South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil United, Inc.	Assignment	246/491
	Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577	

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	Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
	Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
	PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
	Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
	East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
	East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records
<b>5-23-33</b>	<b>Jerry M. Booth</b>	<b>HG Energy</b>	<b>1/8</b>	<b>136A/882</b>
	East Resources, Inc and HG Energy, Inc	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records
<b>5-23-38</b>	<b>Jerry M. Booth</b>	<b>HG Energy</b>	<b>1/8</b>	<b>136A/882</b>
	East Resources, Inc and HG Energy, Inc	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records
<b>5-26-2</b>	<b>Wadsworth Brothers, Inc.</b>	<b>Pennzoil Company</b>	<b>1/8</b>	<b>65A/420</b>
	Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
	Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
	Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
	PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
	Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
	East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
	East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records
<b>5-26-4</b>	<b>Geo. V. and Josphine M. Reilly</b>	<b>South Penn Oil Company</b>	<b>1/8</b>	<b>47/34</b>
	South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455
	South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478
	South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil United, Inc.	Assignment	246/491
	Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
	Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
	Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
	PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
	Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
	East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
	East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records
<b>5-26-3</b>	<b>Henry and Mary Noland</b>	<b>W.R. McIntyre</b>	<b>1/8</b>	<b>46/93</b>
	W.R. McIntyre	South Penn Oil Company	Assignment	17A/450
	South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455
	South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478
	South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records

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	Pennzoil Company	Pennzoil United, Inc.	Assignment	246/491
	Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
	Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
	Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
	PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
	Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
	East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
	East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records
<b>5-26-9</b>	<b>Henry and Mary Noland</b>	<b>W.R. McIntyre</b>	<b>1/8</b>	<b>46/93</b>
	W.R. McIntyre	South Penn Oil Company	Assignment	17A/450
	South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455
	South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478
	South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil United, Inc.	Assignment	246/491
	Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
	Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
	Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
	PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
	Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
	East Resources, Inc.	HG Energy, LLC	Assignment	118A/253
	East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	153A/238
	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records
<b>5-26-15</b>	<b>M.H. Penick and C.C. Penick</b>	<b>South Penn Oil Company</b>	<b>14%</b>	<b>47/216</b>
	South Penn Oil Company	South Penn Natural Gas Company	Assignment	33A/455
	South Penn Natural Gas Company	South Penn Oil Company	Assignment	215/478
	South Penn Oil Company	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil United, Inc.	Assignment	246/491
	Pennzoil United, Inc.	Pennzoil Company	Cert. of Name Change	WV Sec. of State records
	Pennzoil Company	Pennzoil Products Company	Assn. & Supp. Assn.	319/397 & 322/577
	Pennzoil Products Company	Pennzoil Exploration and Production Company	Assignment	363/384
	Pennzoil Exploration and Production Company	PennzEnergy Exploration and Production, L.L.C.	Cert. of Merger	12/177
	PennzEnergy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	12/278
	Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	370/580
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	American Energy - Marcellus, LLC	Ascent Resources - Marcellus, LLC	Cert. of Name Change	WV Sec. of State records
	Ascent Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Name Change	WV Sec. of State records

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March 15, 2019


Ms. Laura Adkins  
WV DEP Office of Oil & Gas  
601 57<sup>th</sup> St., SE  
Charleston, WV 25304

Dear Ms. Adkins,

RE: Tribune Resources, LLC proposed New Well: Wiley N GRN WZ 1H in Wetzel County, West Virginia. Drilling under Piney Fork Road and Middle Ridge Road.

Tribune Resources, LLC ("Tribune") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concerns as to Tribune's right to drill under Piney Fork Road and Middle Ridge Road. Please be advised that Tribune has leased all mineral owners under said route(s), as it relates to the above-referenced well. Thank you.

Sincerely,



Patrick Cassidy, CPL  
Senior Landman

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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE CERTIFICATION

Date of Notice Certification:

3/28/19

API No. 47- 103 - 03098  
Operator's Well No. Wiley N GRN WZ 1H  
Well Pad Name: Wiley N GRN WZ

**Notice has been given:**

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	WV	UTM NAD 83	Eastings:	526484.4
County:	Wetzel		Northing:	4373363.4
District:	Green	Public Road Access:		CR 13, CR 13/3 and CR 13/8
Quadrangle:	Pine Grove/ Center Point	Generally used farm name:		Coastal Lumber Company
Watershed:	Fishing Creek			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.


<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p>	<p><b>OOG OFFICE USE ONLY</b></p>
<p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	
	<p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>

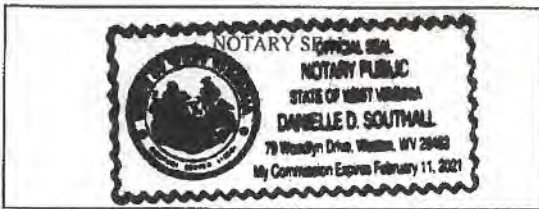
**Required Attachments:**

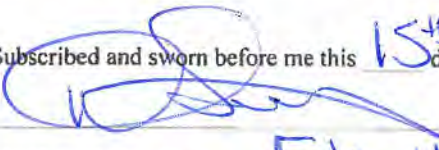
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

**Certification of Notice is hereby given:**

THEREFORE, I Lee Lawson, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, 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 and imprisonment.

Well Operator:	Tribune Resources, LLC	Address:	3861 Ambassador Caffery Parkway
By:	Lee Lawson 		Lafayette, LA 70503
Its:	Regulatory/ HSE Director	Facsimile:	(337) 769-4340
Telephone:	(337) 769-4064	Email:	lee.lawson@tribuneresources.com



Subscribed and sworn before me this 15<sup>th</sup> day of March  
  
 \_\_\_\_\_ Notary Public  
 My Commission Expires Feb. 11, 2021

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

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**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF APPLICATION**

**Notice Time Requirement:** notice shall be provided no later than the **filing date of permit application.**

**Date of Notice:** 3/28/19 **Date Permit Application Filed:** 3/28/19

**Notice of:**

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: Coastal Lumber Company  
Address: PO Box 709  
Buckhannon, WV 26201

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: Consol Energy  
Address: 1000 Consol Energy Drive Suite 100  
Canonsburg, PA 15317

COAL OPERATOR

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: None  
Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

\*Please attach additional forms if necessary

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WV Department of Environmental Protection

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

**This Notice Shall Include:**

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [wvdep.wv.gov/oil-and-gas/pages/default.aspx](http://wvdep.wv.gov/oil-and-gas/pages/default.aspx).

**Well Location Restrictions**

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

**Water Well Testing:**

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

**Water Testing Laboratories:**

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

**Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:**

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

**Written Comment:**

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

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Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

### **Time Limits and Methods for Filing Comments.**

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) 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.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

### **Comment Requirements**

Your comments must be in writing and 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.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

### **Permit Denial or Condition**

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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05/24/2019

WW-6A  
(8-13)

API NO. 47- 103 - 03098  
OPERATOR WELL NO. Wiley N GRN WZ 1H  
Well Pad Name: Wiley N GRN WZ

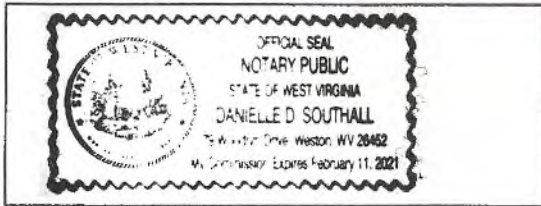
Notice is hereby given by:  
Well Operator: Tribune Resources, LLC  
Telephone: (337) 769-4064  
Email: lee.lawson@tribuneresources.com

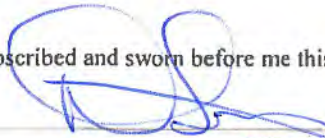


Address: 3861 Ambassador Caffery Parkway  
Lafayette, LA 70503  
Facsimile: (337) 769-4340

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this 15<sup>th</sup> day of March, 2019  
  
\_\_\_\_\_  
Notary Public  
My Commission Expires Feb. 11, 2021

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47 10 03098

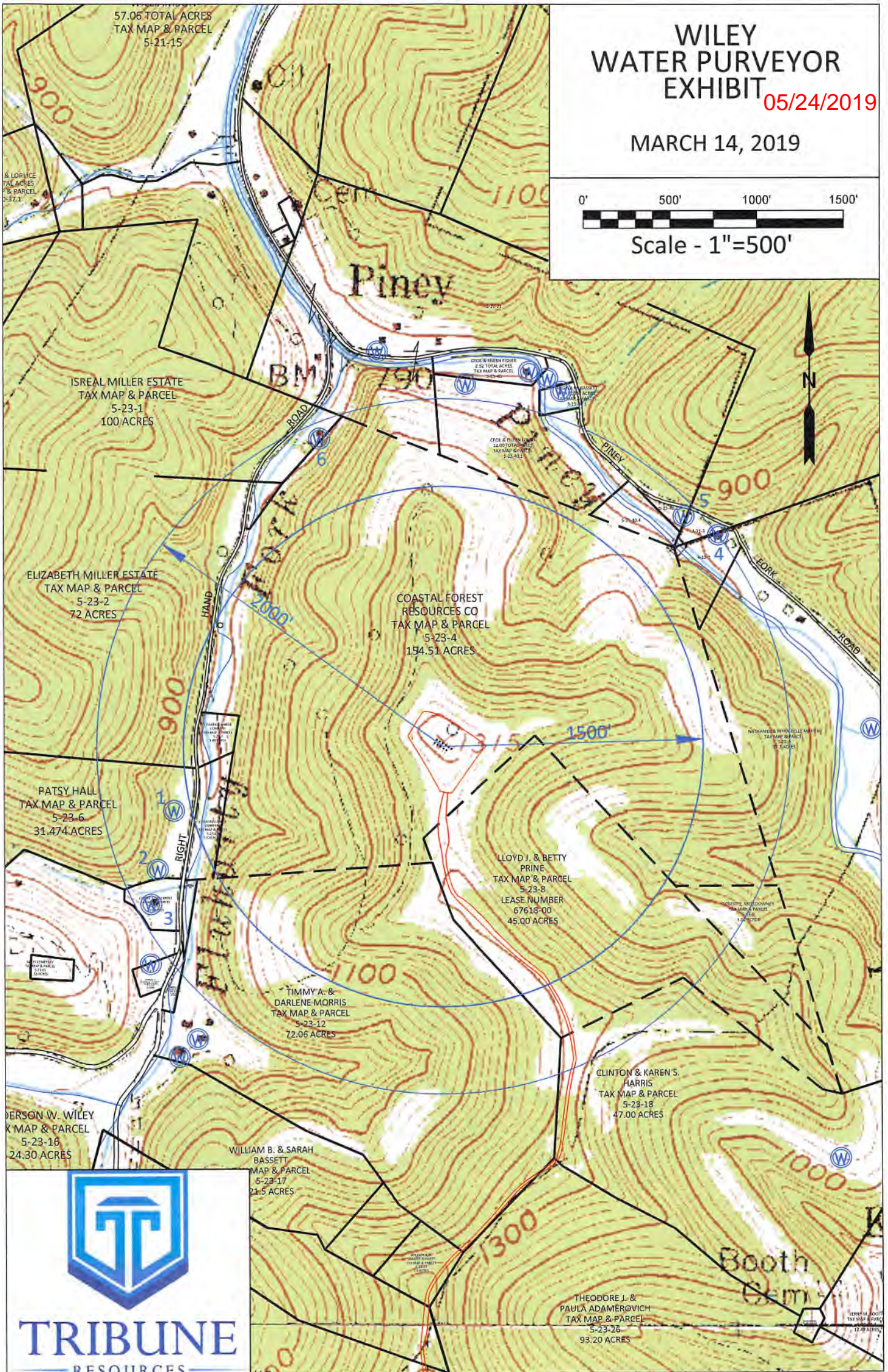
# WILEY WATER PURVEYOR EXHIBIT

05/24/2019

MARCH 14, 2019



Scale - 1"=500'



**TRIBUNE**  
RESOURCES

57.06 TOTAL ACRES  
TAX MAP & PARCEL  
5-21-15

& LORICE  
PAL ACRES  
& PARCEL  
5-37-1

ISREAL MILLER ESTATE  
TAX MAP & PARCEL  
5-23-1  
100 ACRES

ELIZABETH MILLER ESTATE  
TAX MAP & PARCEL  
5-23-2  
72 ACRES

PATSY HALL  
TAX MAP & PARCEL  
5-23-6  
31.474 ACRES

PERSON W. WILEY  
TAX MAP & PARCEL  
5-23-16  
24.30 ACRES

WILLIAM B. & SARAH  
BASSETT  
TAX MAP & PARCEL  
5-23-17  
21.5 ACRES

TIMMY A. &  
DARLENE MORRIS  
TAX MAP & PARCEL  
5-23-12  
72.06 ACRES

COASTAL FOREST  
RESOURCES CO  
TAX MAP & PARCEL  
5-23-4  
194.51 ACRES

LLOYD J. & BETTY  
PRINE  
TAX MAP & PARCEL  
5-23-8  
LEASE NUMBER  
67618-00  
45.00 ACRES

CLINTON & KAREN S.  
HARRIS  
TAX MAP & PARCEL  
5-23-18  
47.00 ACRES

THEODORE J. &  
PAULA ADAMOVICH  
TAX MAP & PARCEL  
5-23-26  
93.20 ACRES

1994 M. 2007  
TAX MAP & PARCEL  
11-29 ACRES



**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

**Notice Time Requirement:** Notice shall be provided at least TEN (10) days prior to filing a permit application.  
**Date of Notice:** 03/14/2019 **Date Permit Application Filed:** 3/28/19

**Delivery method pursuant to West Virginia Code § 22-6A-16(b)**

- HAND DELIVERY       CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

**Notice is hereby provided to the SURFACE OWNER(s):**

Name: Coastal Lumber Company  
Address: P.O. Box 709, Buckhannon, WV 26201

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

**Notice is hereby given:**

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia  
County: Wetzel  
District: Green  
Quadrangle: Center Point  
Watershed: Fishing Creek

UTM NAD 83 Easting: 1632218.6043  
Northing: 368916.4805  
Public Road Access: CR 13, CR 13/3 and CR 13/B  
Generally used farm name: \_\_\_\_\_

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Environmental Protection

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

Well Operator: Tribune Resources, LLC  
Address: 3861 Ambassador Caffery Parkway Ste. 600  
Lafayette, LA 70503  
Telephone: 337-769-0032  
Email: lee.lawson@tribuneresources.com  
Facsimile: 337-769-4340

Authorized Representative: Lee Lawson  
Address: 3861 Ambassador Caffery Parkway Ste. 600  
Lafayette, LA 70503  
Telephone: 337-769-4064  
Email: lee.lawson@tribuneresources.com  
Facsimile: 337-769-4340

**Oil and Gas Privacy Notice:**

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-6A5  
(1/12)

Operator Well No. Wiley N GRN WZ 1H

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.  
Date of Notice: 03/14/2019 Date Permit Application Filed: 3/28/19

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)  
(at the address listed in the records of the sheriff at the time of notice):

Name: Coastal Lumber Company Name: \_\_\_\_\_  
 Address: P.O. Box 709, Buckhannon, WV 26201 Address: \_\_\_\_\_

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>1632218.6043</u>
County: <u>Wetzel</u>	UTM NAD 83 Northing: <u>369916.4805</u>
District: <u>Green</u>	Public Road Access: <u>CR 13, CR 13/3 and CR 13/8</u>
Quadrangle: <u>Center Point</u>	Generally used farm name: _____
Watershed: <u>Fishing Creek</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Well Operator: Tribune Resources, LLC Address: 3861 Ambassador Caffery Parkway Ste. 600  
 Telephone: 337-769-4064 Lafayette, LA 70503  
 Email: lea.lawson@tribunerresources.com Facsimile: 337-769-4340

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as 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 or your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



05/24/2019  
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110  
Charleston, West Virginia 25305-0430 • (304) 558-3505

Thomas J. Smith, P. E.  
Secretary of Transportation/  
Commissioner of Highways

February 19, 2019

Jill M. Newman  
Deputy Commissioner

James A. Martin, Chief  
Office of Oil and Gas  
Department of Environmental Protection  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304

Subject: DOH Permit for the Wiley Pad, Tyler County  
Wiley N GRN WZ 1H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0571 which has been transferred to Tribune Resources, LLC for access to the State Road for a well site located off of Tyler County 13/8 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENTS and provided the required Bonds. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.  
Regional Maintenance Engineer  
Central Office O&G Coordinator

Cc: Dee Southall, Thrasher  
For Tribune Resources, LLC  
CH, OM, D-6  
File

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Wiley Well

Fracture Additive List

Trade Name	Supplier	Purpose	Ingredients	CAS Number
Water	Company 1	Carrier/Base Fluid	Water	7732-18-5
Sand (Proppant)	PSC	Proppant	Silica Substrate	
Hydrochloric Acid (15%)	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0
Hydrochloric Acid (7.5%)	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0
PROHIB II	Producers Service Corp	Inhibitor	Dimethylcocoamine, bis(chloroethyl) ether, diquatery ammonium salt	68607-28-3
			2-Butoxyethanol	111-76-2
			Ethylene Glycol	107-21-1
			Methyl Alcohol	67-56-1
			Nonyl Phenol Ethoxylate, Branched	127087-87-0
			Propargyl Alcohol	107-19-7
			Coco alkyldimethylamines	61788-93-0
			Water	7732-18-5
FRA 407	Producers Service Corp	Friction Reducer	Petroleum Distillates	64742-47-8
			Polyacrylamide salt	Proprietary
			Sodium Chloride	7647-14-5
			Ammonium Chloride	12125-02-9
			Ethoxylate Alcohol	Proprietary
			Tall oil	Proprietary
			Proprietary Ingredient	Proprietary
			Water	7732-18-5
BIO CLEAR 2000	Producers Service Corp	Biocide	2,2-dibromo-3-nitrilopropionamide	10222-01-2
			Polyether	25322-68-3
			Proprietary Ingredient	Proprietary
			Proprietary Ingredient	Proprietary
			Deionized Water	7732-18-5
PRO SCALE CLEAR 112	Producers Service Corp	Scale Inhibitor	ethylene glycol	107-21-1
			Polymer	Proprietary
			Water	7732-18-5
PRO FLO 102 M	Producers Service Corp	Surfactant	Methyl Alcohol	67-56-1
			N-dodecyl-2-pyrrolidone	2687-96-9
			Water	7732-18-5
			Ethoxylate Alcohol	Proprietary
PRO BREAKER 4	Producers Service Corp	Breaker	Ethylene Glycol	107-21-1
			Sucrose	57-50-1
			Polyether Polyol	9003-11-6
			Sodium Bicarbonate	144-55-8
			Hexamethylenetetramine	100-97-0
			Proprietary Ingredient	Proprietary
			Proprietary Ingredient	Proprietary
			Proprietary Ingredient	Proprietary
			Water	7732-18-5
PRO GEL 4.0L	Producers Service Corp	Gelling Agent	Distillates (Petroleum), hydrotreated light	64742-47-8
			Nonylphenol, Ethoxylate	9016-45-9
			Guar Gum	9000-30-0
			Nonionic Surfactant	60828-78-6

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# WILEY GRN WZ WELL PAD AS-BUILT

GREEN & McELROY DISTRICT, WETZEL & TYLER COUNTY, WV  
DECEMBER 2015

**REVISED 4-22-19**

PLANS PREPARED BY:

**BOORD BENCHEK & ASSOCIATES, INC.**  
ENGINEERING, SURVEYING, CONSTRUCTION AND MINING SERVICES  
SOUTHPOINTE, PA 15317 PHONE: 724-746-1055

4710303098

**WEST VIRGINIA 811**  
TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848  
TICKET NUMBER: 1503403104

SHEET INDEX

1. TITLE SHEET
- 2-3. EVACUATION ROUTE/  
PREVAILING WINDS
4. AS-BUILT OVERVIEW
- 5-36. AS-BUILT
- 37-49. ACCESS ROAD PROFILE
50. RECLAMATION PLAN OVERVIEW
- 51-82. RECLAMATION PLAN
- 83-84. DETAILS

TOTAL DISTURBED AREA: 42.3 ACRES  
ROAD DISTURBED AREA: 34.7 ACRES  
WILEY PAD DISTURBED AREA: 5.7 ACRES  
REILLY PAD DISTURBED AREA: 1.9 ACRES

OWNER



**TRIBUNE**  
RESOURCES

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

**WVDEP OOG  
ACCEPTED AS-BUILT**

*WJ* 4/23/2019

**WILEY N GRN WZ API NUMBERS**

1H 47-103-03098
2H 47-103-03099
3H 47-103-03100
4H 47-103-03101
5H 47-103-03102
6H 47-103-03103
7H 47-103-03104
8H 47-103-03105
9H 47-103-03147
10H 47-103-03148
12HU 47-103-03121

**REILLY S GRN WZ API NUMBERS**

1H 47-103-03088
2H 47-103-03089
3H 47-103-03090
4H 47-103-03091
5H 47-103-03092
6H 47-103-03093
7H 47-103-03094
8H 47-103-03095

ACCESS ROAD LENGTH: 21,183'  
ACCESS ROAD AVG. WIDTH: 17'  
WELL PAD ELEVATION: 1288'



ANDREW BENCHEK  
P.E.

DATE

SITE LOCATION



**PROPERTY OWNER PROJECT BOUNDARY ACREAGE**

PROPERTY OWNER	PARCEL #	ACRES
WV DEPARTMENT OF NATURAL RESOURCES COMMERCE DIVISION	5-8-22	2.3
WV DEPARTMENT OF NATURAL RESOURCES COMMERCE DIVISION	5-8-8	0.4
WV DEPARTMENT OF NATURAL RESOURCES COMMERCE DIVISION	5-8-9	4.4
JAMES & BETTY McCOY	5-8-10.1	0.6
COASTAL FOREST RESOURCES	5-26-13	1.2
STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR	5-26-14	2.6
STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR	5-26-7	2.3
STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR	5-26-2	0.5
STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVIR. DNR	5-26-1	3.3
WV STATE OF COMMERCE BUREAU OF NATURAL RESOURCES DIV. PUBLIC	5-26-6	0.03
DALLISON LUMBER	5-23-37	0.5
J.S. BOOTH ESTATE	5-23-33	0.8
J.S. BOOTH ESTATE	5-23-38	0.7
JOHN S. KNIGHT	5-23-32	0.3
THEODORE J. & PAULA ADAMEROVICH	5-23-26	3.4
HG ENERGY LLC	5-23-25.1	0.3
HG ENERGY LLC	5-23-21.1	0.2
WILLIAM B. & SARAH E. BASSETT	5-23-23	0.1
TAMMY A. & DARLENE MORRIS	5-23-12	0.51
CLINTON & KAREN S. HARRIS	5-23-18	1.1
LLOYD J. & BETTY PRINE	5-23-8	7.66
COASTAL FOREST RESOURCES	5-23-4	9.1

**COORDINATES**

**CENTER OF WELLS (NAD 83)**  
LAT: 39.509409°  
LONG: 80.691827°  
(NAD 27)  
LAT: 39.509327°  
LONG: 80.692005°

**SITE ENTRANCE (NAD 83)**  
LAT: 39.463195°  
LONG: 80.684883°  
(NAD 27)  
LAT: 39.463112°  
LONG: 80.685060°

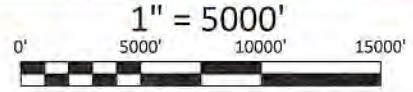


**TITLE SHEET**

WILEY GRN WZ WELL PAD  
GREEN & McELROY DISTRICT, WETZEL & TYLER COUNTY, WV

**SHEET**

1  
OF  
84



**WVDEP OOG  
ACCEPTED AS-BUILT**

*WJL* 4/23/2019

LLOYD J. & BETTY  
PRINE  
TAX MAP & PARCEL  
5-23-9  
45.00 ACRES

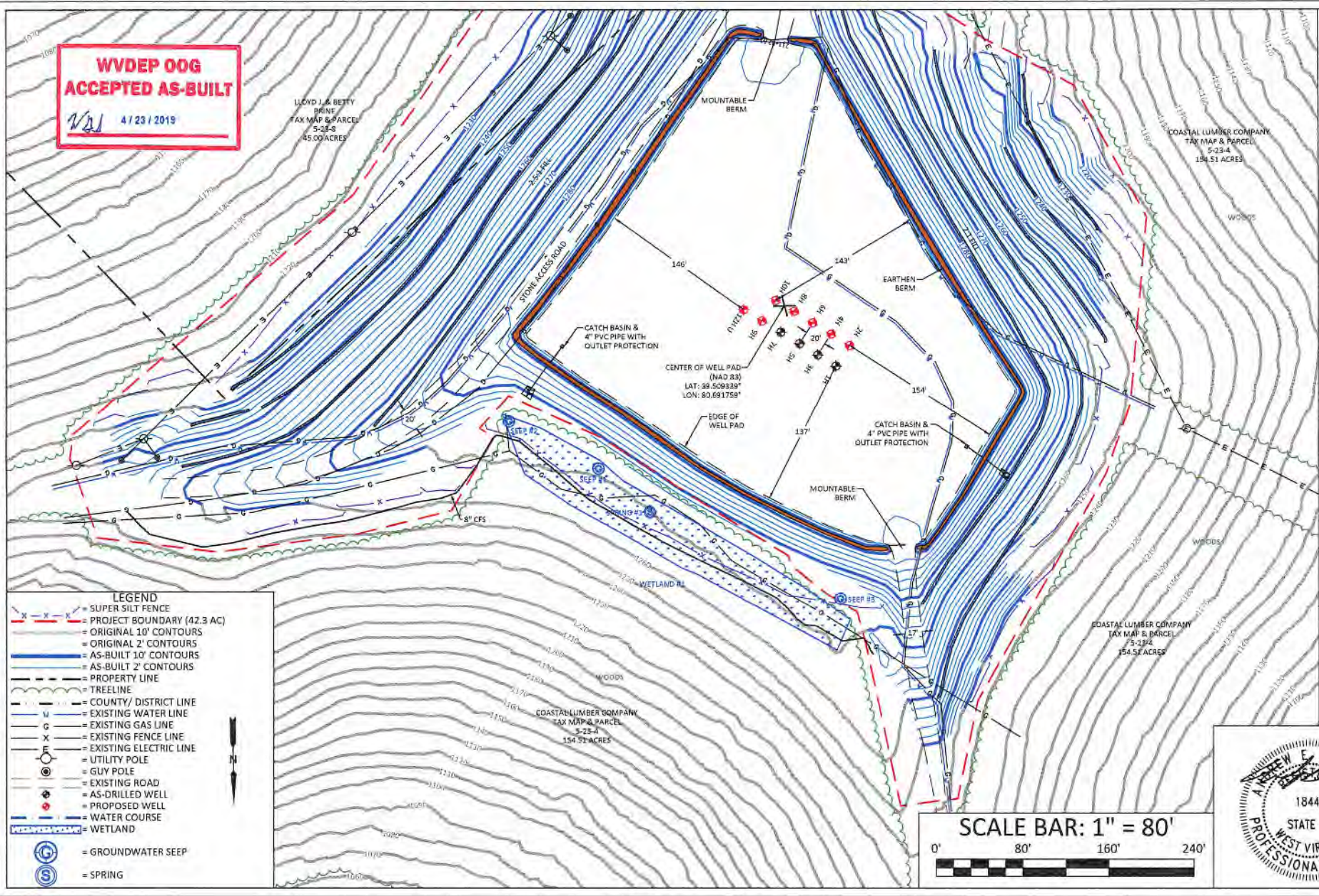
COASTAL LUMBER COMPANY  
TAX MAP & PARCEL  
5-23-4  
154.51 ACRES

**BOORD, BENCHEK and ASSOC., INC.**  
Engineering, Surveying, Construction,  
and Mining Services  
Southport, VA 15317 Phone: 724-746-0055

**AS-BUILT**

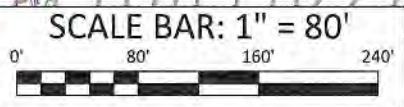
THIS DOCUMENT WAS PREPARED BY:  
BOORD, BENCHEK AND ASSOC., INC.  
FOR: TRIBUNE RESOURCES, LLC

DATE:  
DECEMBER 2015  
WILEY GRN WZ  
WELL PAD  
GREEN & McELROY  
DISTRICTS,  
WETZEL & TYLER  
COUNTIES, WV



**LEGEND**

- SUPER SILT FENCE
- PROJECT BOUNDARY (42.3 AC)
- ORIGINAL 10' CONTOURS
- ORIGINAL 2' CONTOURS
- AS-BUILT 10' CONTOURS
- AS-BUILT 2' CONTOURS
- PROPERTY LINE
- TREELINE
- COUNTY/ DISTRICT LINE
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING FENCE LINE
- EXISTING ELECTRIC LINE
- UTILITY POLE
- GUY POLE
- EXISTING ROAD
- AS-DRILLED WELL
- PROPOSED WELL
- WATER COURSE
- WETLAND
- GROUNDWATER SEEP
- SPRING



SHEET 34 OF 88

**WEST VIRGINIA 811**

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**WILEY GRN WZ WELL PAD  
AS-BUILT  
GREEN & McELROY DISTRICT, WETZEL & TYLER COUNTY, WV  
DECEMBER 2015**

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RECEIVED  
Office of Oil and Gas  
MAR 28 2019

WV Department of  
Environmental Protection

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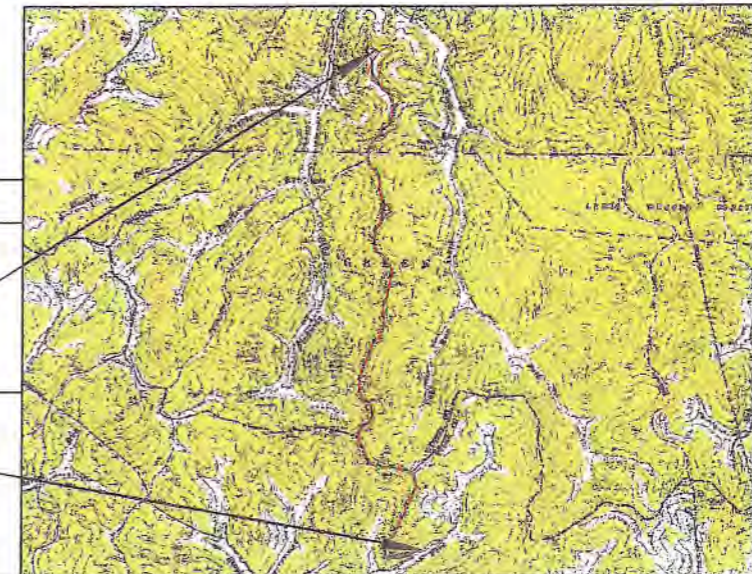
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DAH  
3-26-19

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**SHEET**

1  
OF  
84

1" = 5000'

