



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Tuesday, December 7, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill


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


Re: Permit approval for HOGE S GRN WZ 4H
47-103-03469-00-00

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: HOGE S GRN WZ 4H
Farm Name: STATE OF WV PUBLIC LD 
U.S. WELL NUMBER: 47-103-03469-00-00
Horizontal 6A New Drill
Date Issued: 12/7/2021

Promoting a healthy environment.

12/10/2021

PERMIT CONDITIONS

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: _____

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.

12/10/2021

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 Center Point
Operator ID County District Quadrangle

2) Operator's Well Number: Hoge S GRN WZ 4H Well Pad Name: Hoge S GRN WZ

3) Farm Name/Surface Owner: State of WV Public Land Corp. Public Road Access: County Rt 13/8

4) Elevation, current ground: 1380' Elevation, proposed post-construction: 1379'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation: Marcellus, Down-Dip well, Target top TVD 7368', Target base 7380', Anticipated thickness: 50', Anticipated Pressure: 4600 psi

8) Proposed Total Vertical Depth: 7474'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19,797'

11) Proposed Horizontal Leg Length: 11,563'

12) Approximate Fresh Water Strata Depths: 504'

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

14) Approximate Saltwater Depths: 1002'

15) Approximate Coal Seam Depths: 1194'

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

RECEIVED
Office of Oil and Gas
NOV 03 2021

RECEIVED
WV Department of Environmental Protection
Office of Oil and Gas

NOV 13 2021

WV Department of Environmental Protection

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

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

1) Well Operator: Tibune Resources, LLC
Operator ID: 49452341
County: Wetzel
District: Green
Center Point: Quadangle

2) Operator's Well Number: Hoge S GRN WZ 4H
Well Pad Name: Hoge S GRN WZ

3) Farm Name/Surface Owner: State of WV Public Land Corp.
Public Road Access: County Rt 1318

4) Elevation, current ground: 1380'
Elevation, proposed post-construction: 1379'

5) Well Type (a) Gas Oil
Underground Storage

Other
(b) If Gas Shallow Deep

(c) Horizontal
(d) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target formation: Marcellus, Down-Dip well, Target top TVD 7388', Target base 7380', Anticipated thickness: 50', Anticipated Pressure: 4600 psi

8) Proposed Total Vertical Depth: 7474'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 19,787'

11) Proposed Horizontal Log Length: 11,563'

12) Approximate Fresh Water Strat Depth: 504'

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

14) Approximate Saltwater Depth: 1002'

15) Approximate Coal Seam Depth: 1194'

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

(a) If Yes, provide Mine Info: Name: The State of West Virginia, Public Land Corporation

Depth: _____

Seam: _____

Owner: _____

18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. FL)/CTS
Conductor	20"	New	J-55	98#	120'	120'	SX/CTS
Fresh Water	13 3/8"	New	J-55	54.5#	650'	650'	SX/CTS
Coal							
Intermediate	9 5/8"	New	J-55	40#	3500'	3500'	SX/CTS
Production	5 1/2"	New	P-110	20#	19,797'	19,797'	
Tubing							
Liners							

* Updated

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
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	1.378/30% Excess
Production	5 1/2"	8 3/4"	0.361"	12,640	5000	Class A	1.04/10% Excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

RECEIVED
 Office of Oil and Gas
 DEC 06 2021
 WV Department of
 Environmental Protection

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

The well will be spud using a conductor rig. It will drill down to 100', as per the casing program. 20" conductor casing will be set with cement back to surface. The conductor rig will be moved off location and a rig capable of drilling to TD will be moved in to finish the well to TD. 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:

Multi-stage slickwater fracturing with frac sand. Wireline conveyed pump down frac plug perforating to isolate frac stages. Maximum pressure will be 10,000 psig. and maximum rate will be 95 bpm.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 50.7

22) Area to be disturbed for well pad only, less access road (acres): 13.6

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

RECEIVED
Office of Oil and Gas

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)

NOV 03 2021

WV Department of
Environmental Protection

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.

Cement Additives for WW-6B**Conductor:**

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

Surface (Tail):

- HALCEM (TM) System

Intermediate (Tail):

- HALCEM (TM) System

Production (Tail):

- NeoCem (TM) System

RECEIVED
Office of Oil and Gas

NOV 13 2021

WV Department of
Environmental Protection

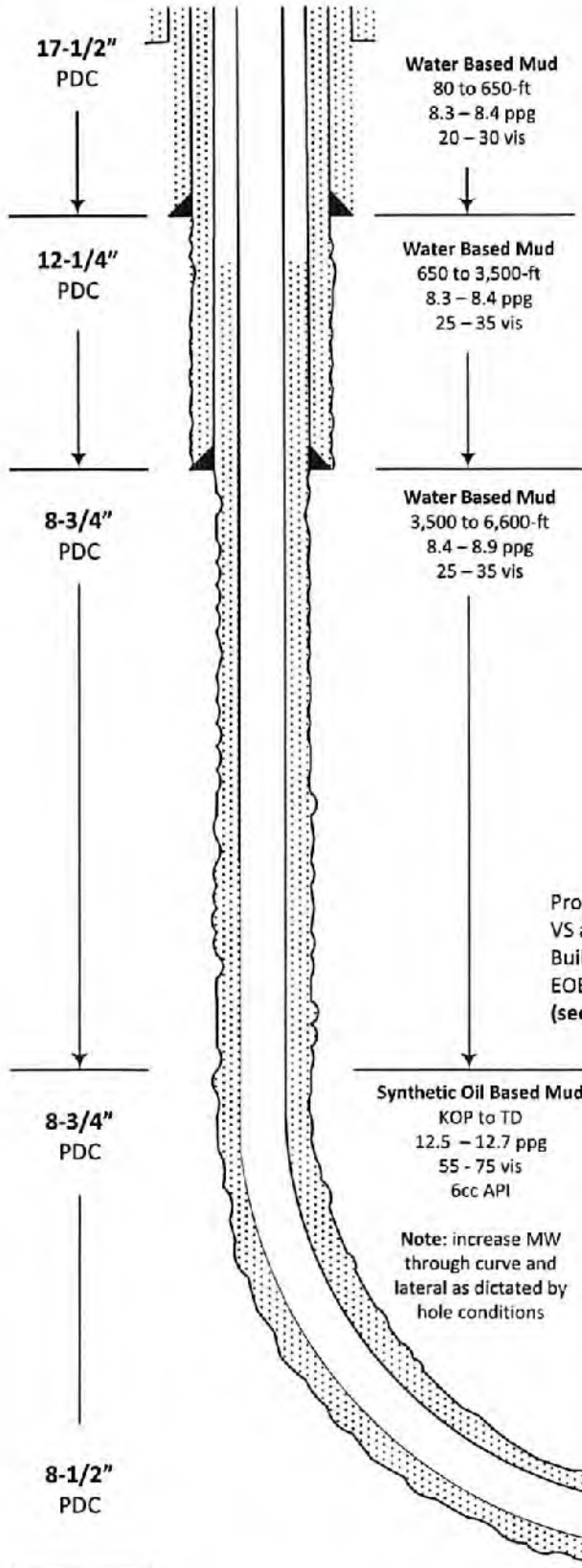
12/10/2021



TRIBUNE
RESOURCES

Hoge S GRN WZ 4H

County, State: Wetzel, West Virginia		Township: Grant	Location: Marcellus
Coordinates: NAD 27	SHL Lat/Long: 39.479743718 N, 80.696337762 W	R/R / Elevation: 1,404'/1,379'	AFF DC/CWC:
	BHL Lat/Long: 39.45064200 N, 80.67624674 W		USDW: 504'
Rig: H&P Rig 608	Target Line:		Property #: AFF #:



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	650	36
Intermediate	12-1/4"	9-5/8"	40	J-55	LTC	2,570	3,950	3,500	22
Production	8-3/4"	5-1/2"	20	P-110	TBD	11,080	12,640	19,797	22

Interval	Slurry	Weight	Ft ³	Yield	Excess	Cement Top
Conductor	Lead					
	Tail	15.6 ppg	225	1.20 cuft/sk	50%	Surface
Surface	Lead					
	Tail	15.6 ppg	635	1.20 cuft/sk	30%	Surface
Intermediate	Lead					
	Tail	15 ppg	1,405	1.378 cuft/sk	30%	Surface
Production	Lead					
	Tail	15.2 ppg	4,986	1.04 cuft/sk	10%	1,750

Proposed KOP at 6,598-ft MD
VS at KOP is -600-ft (nudge)
Build 8°/100-ft to 89.5° inc., 150° azi.
EOB at 7,869-ft MD
(see directional plan for specific details)

Formation	TVD	Sub Sea
Freshwater	504'	900'
Saltwater	1,002'	402'
Pittsburgh Coal	1,194'	210'
Big Injun	2,479'	-1,075'
Big Injun Base	2,679'	-1,275'
Berea	3,051'	-1,647'
Gordon	3,257'	-1,853'
Gordon Base	3,323'	-1,919'
Middlesex	7,081'	-5,677'
Geneseo	7,219'	-5,815'
Tully	7,255'	-5,851'
Hamilton	7,278'	-5,874'
Marcellus	7,349'	-5,945'
Purcell	7,364'	-5,960'
Lower Marcellus	7,369'	-5,965'
Onondaga	7,395'	-5,995'

RECEIVED
Office of Oil and Gas

DEC 03 2021

WV Department of
Environmental Protection

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

EOC at 7,869-ft MD / 7,369-ft TVD
89.5° inc., 150° azi., 93-ft VS
(see directional plan for specific
details)

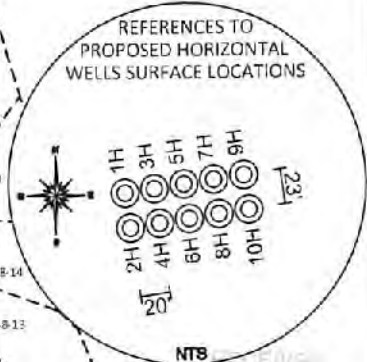
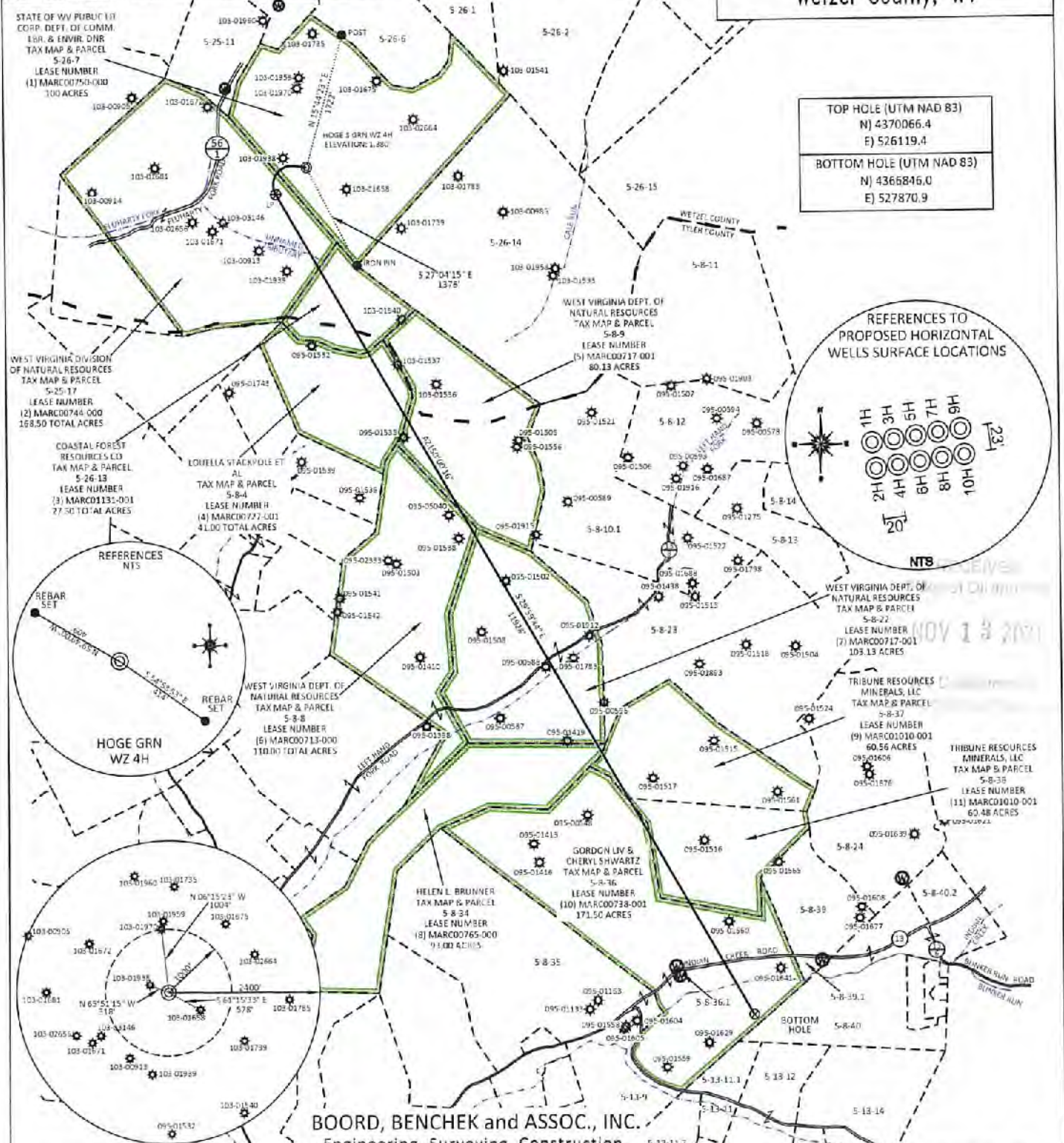
TD at 19,797-ft MD / 7,474-ft TVD
89.5° inc., 150° azi., 12,021-ft VS

12/10/2021

TRIBUNE
RESOURCES, LLC
Proposed
HOGE S GRN WZ 4H
Green District
Wetzel County, WV

TOP HOLE (NAD 83) N) 359117.4 E) 1630840.4 LAT.) 39°28'47.3" LONG.) 80°41'46.7" DEC. LAT.) 39.479797 DEC. LONG.) 80.696300	LP (NAD 83) N) 358783.8 E) 1630448.8 LAT.) 39°28'43.9" LONG.) 80°41'51.62" DEC. LAT.) 39.478867 DEC. LONG.) 80.697672	BOTTOM HOLE (NAD 83) N) 348453.9 E) 1636411.8 LAT.) 39°27'02.8" LONG.) 80°40'33.8" DEC. LAT.) 39.450725 DEC. LONG.) 80.676069
TOP HOLE (NAD 27) N) 359081.3 E) 1662281.3 LAT.) 39°28'47.0" LONG.) 80°41'47.3" DEC. LAT.) 39.479715 DEC. LONG.) 80.696477	LP (NAD 27) N) 356747.8 E) 1661889.8 LAT.) 39°28'43.6" LONG.) 80°41'52.3" DEC. LAT.) 39.478785 DEC. LONG.) 80.697848	BOTTOM HOLE (NAD 27) N) 348417.7 E) 1667852.6 LAT.) 39°27'02.3" LONG.) 80°40'34.5" DEC. LAT.) 39.450642 DEC. LONG.) 80.676247

TOP HOLE (UTM NAD 83) N) 4370066.4 E) 526119.4
BOTTOM HOLE (UTM NAD 83) N) 4366846.0 E) 527870.9



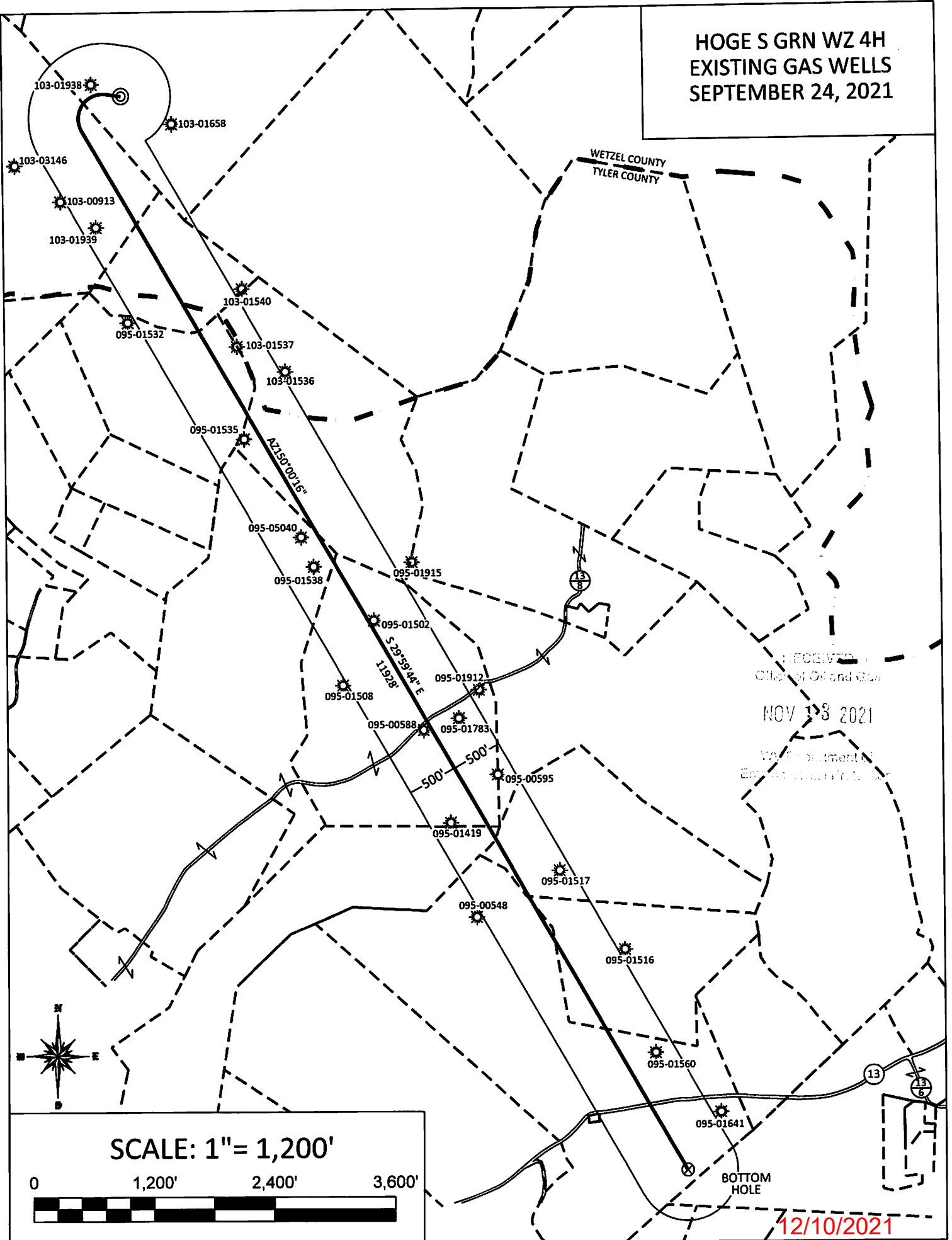
NO DWELLINGS FOUND WITHIN 550'
OF THE CENTER OF THE WELL PAD
NO WATER WELLS FOUND WITHIN 250'
OF THE CENTER OF WELL PAD

BOARD, BENCHEK and ASSOC., INC.
Engineering, Surveying, Construction,
and Mining Services
Southpointe, PA 15317 Phone: 724-746-1055

SEPTEMBER 24, 2021
SCALE 1"=1,800'

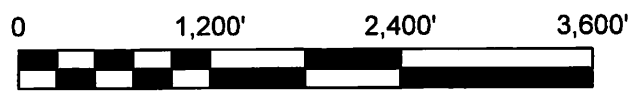
12/10/2021

HOGE S GRN WZ 4H
EXISTING GAS WELLS
SEPTEMBER 24, 2021



RECEIVED
Office of Oil and Gas
NOV 18 2021
Wellbore Treatment
Engineering and Production

SCALE: 1" = 1,200'



12/10/2021

WW-9
(4/16)

API Number 47 - 103 -
Operator's Well No. Hoge S GRN WZ 4H

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 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 _____)

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

RECEIVED
Office of Oil and Gas

NOV 13 2021

WV Department of
Environmental Protection

Subscribed and sworn before me this 10th day of October, 2021

My commission expires Feb 11, 2026



12/10/2021

Tribune Resources, LLC

Proposed Revegetation Treatment: Acres Disturbed 13.6 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: *Degan Nanni*

Comments: _____

RECEIVED
Office of Oil and Gas

NOV 13 2021

WW-9
Environmental Protection

Title: Oil & Gas Inspector

Date: 10-26-21

Field Reviewed?

Yes

No

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

Deep Rock

Heinrich #1: SWIW #21 API Number: 34-167-2-9445-00
Heinrich #2: SWIW #22 API Number: 34-167-2-9464-00
Vocational School #2: SWIW #20 API Number: 34-167-2-9543-00
American Growers #1: SWIW #26 API Number: 34-167-2-9766-00

RECEIVED
Office of Oil and Gas
NOV 13 2021
West Virginia Dept of
Environmental Protection

12/10/2021

Closed Loop System: Typical Design

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

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

RECEIVED
Office of Oil and Gas
NOV 13 2021
RECEIVED
NOV 03 2021
WV Department of
Environmental Protection
WV Department of
Environmental Protection

12/10/2021

Drilling Additive Information - Tier II Reporting
 (Please provide information for all chemicals & products for which an MSDS/SDS is required under 29 CFR 1910.1200)

Well Pad Name: Hoge Pad

Date Products/Chemicals Arrived On-Site:
 Number of Days Products/Chemicals Will be CTBD

Product	Container /Unit Size	Container Units	Max Daily Unit Quantity	Average Unit Quantity	Max Total Quantity (Unit Size X Max Unit Quantity)	Units	Physical State (solid, liquid, other)	Storage Location
Aquagel	50	lbs sack	60	30	3,000	lbs	solid	Chem Storage Area
Potassium Chloride	50	lbs sack	100	50	5,000	lbs	solid	Chem Storage Area
ADAPTA-L	5	gal can	20	12	100	gal	liquid	Chem Storage Area
Barite - Bulk	2,000	lbs bulk	30	25	60,000	lbs	solid	Barite Tank
Calcium Chloride Powder	50	lbs sack	600	400	30,000	lbs	solid	Chem Storage Area
DRILTREAT	55	gal drum	12	8	660	gal	liquid	Chem Storage Area
LE SUPERMUL	55	gal drum	40	25	2,200	gal	liquid	Chem Storage Area
RHEMOD L	55	gal drum	4	3	220	gal	liquid	Chem Storage Area
Lime	50	lbs sack	280	200	14,000	lbs	solid	Chem Storage Area
Base Oil	1	gal	36,000	24,000	36,000	gal	liquid	Chem Storage Area
SOBM	1	bbl	2,400	1,700	2,400	bbl	liquid	Pit Storage

NOV 18 2021
 W.D. Johnson
 Environmental Protection

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

RECEIVED
Office of the Registrar

NOV 18 2021

WYOMING
Department of Agriculture

12/10/2021

Hoge N GRN WZ 2H, 4H,6H,7H,8H,9H & 10H Site Safety Plan



Stephen Harkin
10-26-21

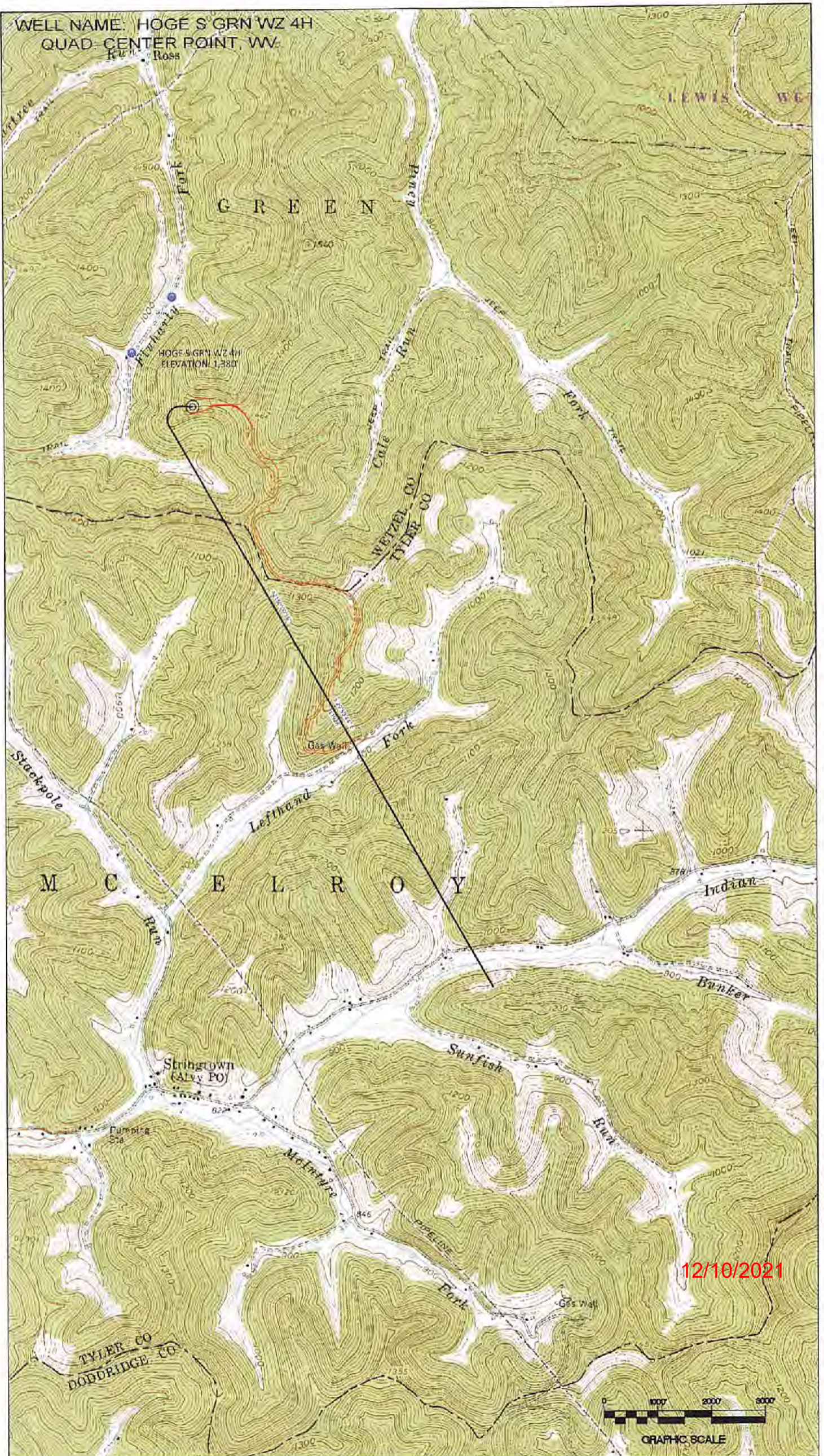
TRIBUNE
RESOURCES

RECEIVED
Office of Oil and Gas

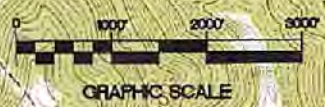
NOV 13 2021

WV Department of
Environmental Protection

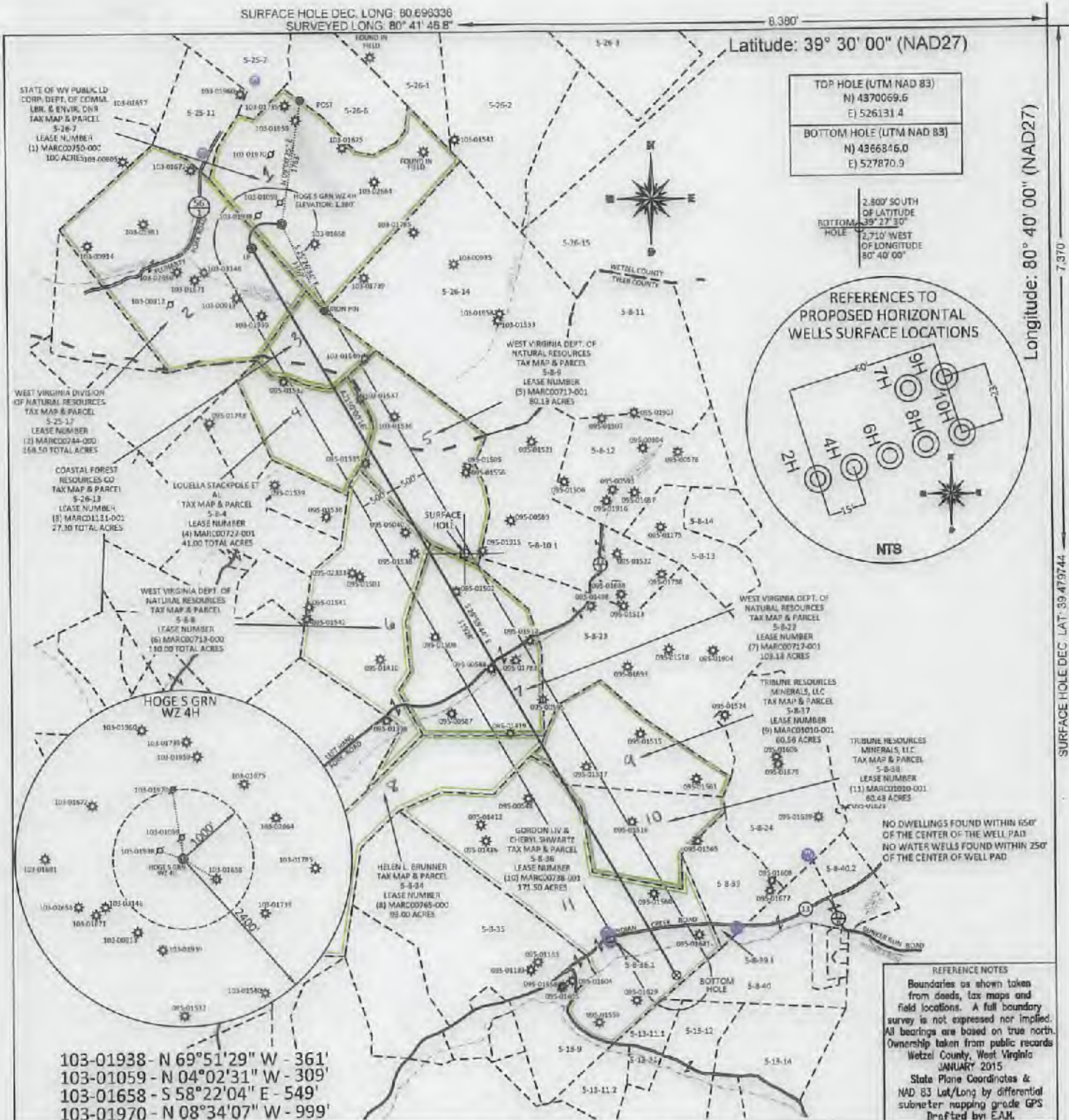
WELL NAME: HOGE S GRN WZ 4H
QUAD: CENTER POINT, WV



12/10/2021



GRAPHIC SCALE



FILE #: TRB1
 DRAWING #: 2514
 SCALE: PLAT - 1" = 2000'
TICK MARK - 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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: [Signature]
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WYDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: FISHING CREEK ELEVATION: 1,380' = Current
1,371.25' = Proposed

COUNTY/DISTRICT: WETZEL / GREEN QUADRANGLE: CENTER POINT, WV

SURFACE OWNER: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVR. DNR ACREAGE: 100.00

OIL & GAS ROYALTY OWNER: STATE OF WV PUBLIC LD CORP. DEPT. OF COMM. LBR & ENVR. DNR ACREAGE: 1015.60 +/-

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 ESTIMATED DEPTH: TVD: 7,511' TMD: 20,067'

WELL OPERATOR: TRIBUNE RESOURCES, LLC DESIGNATED AGENT: HARMAN BROWN

ADDRESS: 3861 AMBASSADOR CAFFERY PARKWAY SUITE 600 ADDRESS: 18396 MOUNTAINEER HIGHWAY

CITY: LAFAYETTE STATE: LA ZIP CODE: 70503 CITY: WILEYVILLE STATE: WV ZIP CODE: 26581

DATE: OCTOBER 11, 2021
 OPERATOR'S WELL #: HOGES GRN WZ 4H
 API WELL #: 47 103 03469 HGA
 STATE COUNTY PERMIT

**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

RECEIVED
Office of Oil and Gas

NOV 18 2021

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

WV Department of
Environmental Protection

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 6, Subarticle 2(a)(2)

IN LIEU OF FILING LIENS AND OTHER CONTINUING CONTRACTS

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 prepared the Notice and Application for the Applicant, and that: (1) the true and correct facts described in this Application, jointly or severally depend on the accompanying plan, and described in the Case as well as Exhibits and Recitals; and (2) the parties and transaction data (if modified) set forth in or attached to this Application claim the right to certain producing mineral interests in or on areas as follows:

These Resources (1) are the mineral interests of the decedent (identified below), listed below each lease in the available chain of title by which the Trust Beneficiary, LLC was vested with the benefits, claims, title, through the chain of title, mineral interests and name change occurred, interests, the interest and minerals. In several instances, a business valuation was filed in the West Virginia Secretary of State, when said documentation was required.

Table with columns: Tract, Tax Map & Parcel, For Lease No., LESSEE OWNER, Lease/Assignment, Royalty/Mineral Int, Book/Page. Rows 1-10 list various tracts and associated companies/leases.

RECEIVED Office of Oil and Gas DEC 06 2021 WV Department of Environmental Protection

12/10/2021

			East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	451404
			American Energy - Marcellus, LLC	Ascendant Resources - Marcellus, LLC	Affidavit of Business Name Change	4391130
			Ascendant Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Amend to the Cert. of Authority	84371
11	05-08-20	MARCON726-001	F.Z. Day	South Penn Oil Company	US	27269
			South Penn Oil Company	South Penn Natural Gas Company	Assignment	154218
			South Penn Oil Company	South Penn Oil Company	Assignment	154218
			Perivotal Company	Perivotal Company	Cert of Name Change	WV Sec. of State records
			Perivotal Company	Perivotal United, Inc.	Assignment	178221
			Perivotal United, Inc.	Perivotal Company	Cert of Name Change	WV Sec. of State records
			Perivotal Company	Perivotal Products Company	Assn. & Supp. Assn.	285258 & 789417
			Perivotal Products Company	Perivotal Exploration and Production Company	Assignments	325178
			Perivotal Exploration and Production Company	Perivotal Energy Exploration and Production, L.L.C.	Cert. of Merger	85318
			Perivotal Energy Exploration and Production, L.L.C.	Devon Energy Production Company, L.P.	Cert. of Merger	85318
			Devon Energy Production Company, L.P.	East Resources, Inc.	Assignment	323748
			East Resources, Inc.	HG Energy, LLC	Assignment	379490
			East Resources, Inc. and HG Energy, LLC	American Energy - Marcellus, LLC	Assignment	451404
			American Energy - Marcellus, LLC	Ascendant Resources - Marcellus, LLC	Affidavit of Business Name Change	4391130
			Ascendant Resources - Marcellus, LLC	Tribune Resources, LLC	Cert. of Amend to the Cert. of Authority	84371

RECEIVED
Office of Oil and Gas

DEC 06 2021

WV Department of
Environmental Protection

12/10/2021



October 15, 2021

Mr. Taylor Brewer
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

Re: Application for a Permit to Drill
Hoge S GRN WZ 4H

Mr. Brewer,

Tribune Resources, LLC has the right to drill, extract and produce the minerals from any roads crossed by the proposed laterals for the Hoge S GRN WZ 4H well by virtue of the lease identified on page WW-6A1 of the accompanying permit application.

No action on your part is required. If you have any questions or concerns, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'LL', with a long horizontal flourish extending to the right.

Lee L. Lawson
Regulatory/HSE Director
Tribune Resources, LLC

RECEIVED
Office of Oil and Gas

NOV 13 2021

WV Department of
Environmental Protection

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

Date of Notice Certification: _____

API No. 47- 103 - _____
Operator's Well No. Hoge S GRN WZ 4H
Well Pad Name: Hoge S 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	Easting: 526131.369
County: Wetzel		Northing: 4370069.582
District: Green	Public Road Access:	County Rt 13/8
Quadrangle: Center Point	Generally used farm name:	State of WV Public Land Corp.
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>*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 style="padding-left: 40px;"><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 align="center">OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/NOT REQUIRED</p> <p><input checked="" type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input checked="" type="checkbox"/> RECEIVED</p>
---	---

RECEIVED
OFFICE OF OIL AND GAS
NOV 18 2021
WV OIL AND GAS

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.

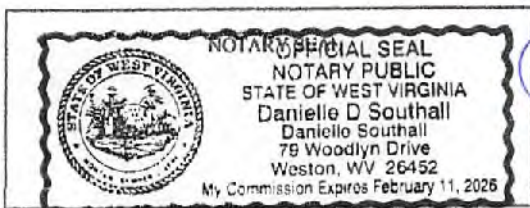
12/10/2021

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
By: Lee Lawson
Its: Regulatory/ HSE Director
Telephone: (337) 769-4864

Address: 3861 Ambassador Caffery Parkway
Lafayette, LA 70503
Facsimile: (337) 769-4340
Email: lee.lawson@tribuneresources.com



Subscribed and sworn before me this 10th day of October.
[Signature] Notary Public
My Commission Expires Feb 11, 2026

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.

RECEIVED
Office of Oil and Gas

NOV 19 2021

WV DEPARTMENT OF
ENVIRONMENTAL PROTECTION

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: _____ **Date Permit Application Filed:** _____

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: State of WV Public Land Corp. Dept. Of Comm. LBR. & Envir. DNR
 Address: Capitol Complex, Bldg. 6, Room 525
Charleston, WV 25301

Name: _____
 Address: _____

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

Name: WV Dept. of Natural Resources Commerce Division
 Address: Capitol Complex, Bldg. 6, Room 525
Charleston, WV 25301

Name: _____
 Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: Richard B. Dallison and Jaynee C. Dallison
 Address: 28855 Shortline Highway
Folsom, WV 26348

COAL OPERATOR

Name: The State of West Virginia, Public Land Corporation
 Address: Capitol Complex, Bldg. 6, Room 525
Charleston, WV 25301

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

Name: See Attached
 Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
 Address: _____

*Please attach additional forms if necessary

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.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

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 57th St. SE
Charleston, WV 25304
(304) 926-0450

RECEIVED
Office of Oil and Gas

NOV 18 2021

WV Department of
Environmental Protection

12/10/2021

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.

WW-6A
(8-13)

API NO. 47- 103 -
OPERATOR WELL NO. Hoga S GRN WZ 4H
Well Pad Name: Hoga S GRN WZ

Notice is hereby given by:

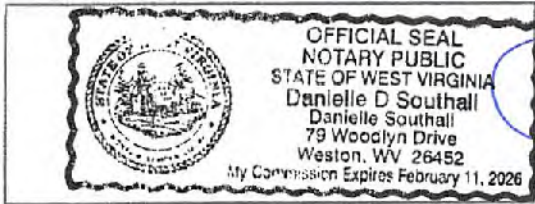
Well Operator: Tribune Resources, LLC
Telephone: (337) 769-4064
Email: lee.lewson@tribuneresources.com

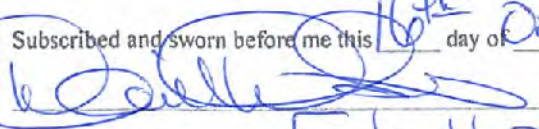


Address: 3861 Ambassador Caffery Parkway
Lafayette, LA 70503
Facsimile: (337) 769-4340

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.



Subscribed and sworn before me this 16th day of October, 2021.

Notary Public
My Commission Expires Feb. 11, 2026

RECEIVED
Office of Oil and Gas
NOV 13 2021
WV Department of
Environmental Protection

12/10/2021

Hoge S GRN WZ 2H, 4H, 6H 8H & 10H

Water Purveyors

Richard Heimbrod	PO Box 25	Clarington, OH 43915 ✓
Russell, Paul & Carol Stackpole	PO Box 423 Dodd St.	Middlebourne, WV 26149 ✓
Coastal Forest Resources	PO Box 709	Buckhannon, WV 26201 ✓
William Carl Thompson	3412 S. Weymouth Road	Medina, WV 44256 ✓
WV Division of Natural Resources	Capital Complex, Bldg 6, Room 525	Charleston, WV 25301 ✓
Yellow House Sportsman Club	1522 Main St.	Wellsburg, WV 26070 ✓

RECEIVED
Office of Oil and Gas
NOV 13 2021
WV Department of
Environmental Protection

12/10/2021

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: 10/15/2021 **Date Permit Application Filed:** _____

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

CERTIFIED MAIL **HAND**
RETURN RECEIPT REQUESTED **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: State of West Virginia Public Land Corp Department of Conservation, L&R & Environmental, DNR **Name:** _____
Address: Capital Complex, Bldg. 6 Room 525 **Address:** _____
Charleston WV, 25301 _____

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: West Virginia **UTM NAD 83 Easting:** 526131.369
County: Wetzel **Northing:** 4370069.582
District: Green **Public Road Access:** CR 13, CR 13/3 and CR 13/8
Quadrangle: Center Point **Generally used farm name:** _____
Watershed: Fishing Creek

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Tribune Resources, LLC **Address:** 3861 Ambassador Caffery Parkway Ste. 600
Telephone: 337-769-0032 Lafayette, LA 70503
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.

12/10/2021



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
Division of Highways

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

Byrd E. White, III
Secretary of Transportation/
Commissioner of Highways

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

September 10, 2021

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

Subject: DOH Permit for the Hoge Pad, Tyler County
HOGE S GRN WZ 4H 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 Tyler County Route 13/8 SLS MP 0.945.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

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

Cc: Lee L. Lawson
Tribune Resources, LLC
CH, OM, D-6
File

RECEIVED
Office of the Secretary of Transportation

NOV 18 2021

1900 Kanawha Blvd East
Charleston, WV 25305

Hoge Pad Completion Chemical List							
Trade Name	Supplier	Purpose	Ingredients	CAS#	Max Ingredient Concentration in Additive (% by mass)	Max Ingredient Concentration in HF Fluid (% by mass)	
			Water	7732-18-5	100	87.75	
Sand, White	BJS	Proppant	Crystalline Silica (Quartz)	14808-60-7	100	11.58	
			Water	7732-60-7	100	0.54	
FRW-18	BJS	Friction Reducer	Acrylamide Modified Acrylic Polymer	Trade Secret	60	0.041	
HCl, 7.5%	BJS	Acidizing	Hydrochloric Acid	7647-01-0	7.5	0.03815	
			Petroleum Distillates	64742-47-8	30	0.02061	
			Sodium Chloride	7647-14-5	5	344	
FraCare SI-01	BJS	Scale Inhibitor	Sorbitan monooleate ethoxylated	Trade Secret	5	0.00344	
			Sorbitan monooleate	Trade Secret	5	0.00344	
			Alcohols ethoxylated	Trade Secret	5	0.00344	
BIOC11139A	BJS	Biocide	Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30	0.00263	
ResCare IC 300L	BJS	Iron Control	Citric Acid	77-92-9	60	0.00222	
GW-3LDF	BJS	Gelling Agent	Guar Gum	9000-30-0	60	0.00171	
			Organo Phosphorus Salt	Trade Secret	5	0.00129	
CI-14	BJS	Corrosion Inhibitor	Glutaraldehyde	111-30-8	10	0.00088	
			Petroleum Distillates	64742-47-8	30	0.00086	
			Paraffinic Petroleum Distillate	64742-55-8	30	0.00086	
			Methanol	67-56-1	100	0.00085	
			Acetic Acid	127-08-2	1	0.00069	
			Purified Water	7732-18-5	99.2	0.00062	
			Ethanol	64-17-5	5	0.00044	
			Polyoxyalkylenes	68951-67-7	30	0.00026	
Calcium Chloride	BJS	Salts	Calcium Chloride	10043-52-4	98	0.00021	
			Isotridecanol, ethoxylated	9043-30-5	5	0.00014	
			1-Butoxy-2-Propanol	5131-66-8	5	0.00014	
			Crystalline Silica (Quartz)	14808-60-7	5	0.00014	
			Fatty Acids	61790-12-3	10	0.00009	
			Tetrasodium EDTA	64-02-8	0.1	0.00007	
			Acetic Acid, Potassium Salt	64-19-7	0.1	0.00007	
			Modified Thiourea Polymer	68527-49-1	7	0.00006	
			Propargyl Alcohol	107-19-7	5	0.00004	
			Olefin	64743-02-8	5	0.00004	
			Formaldehyde	50-00-0	1	0.00001	
			Hydrochloric Acid	7647-01-0	1	0.00001	
ThinFrac MP	BJS	Friction Reducer	Poly (acrylamide-co-acrylic acid) partial sodium salt	62649-23-4	30	0.00001	
			2-Butoxy-1-Propanol	15821-83-7	0.1	0	
			Sodium Benzoate	532-32-1	0.4	0	
			Ammonium Chloride	12125-02-9	3	0	
			Sorbitan Monooleate	1338-43-8	0.5	0	
			Polyoxyethylene sorbitan monooleate	9005-65-6	0.5	0	
			Hemicellulase	9025-56-3	0.2	0	
			Potassium sorbate	23634-61-5	0.2	0	
			Ethoxylated Alcohol	68551-12-2	2	0	
			Oleamide DEA	93-84-4	2	0	

RECEIVED
Office of Oil and Gas

NOV 18 2021

WV Division of
Environmental Protection

12/10/2021



TWO WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR MUST CONTACT THE WV ONE CALL SYSTEM, INC., 1-800-245-4848
TICKET NUMBER: 1503002460

OWNER



TRIBUNE
RESOURCES

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

**WVDEP 008
ACCEPTED AS-BUILT**
[Signature] 12/2/2021

HOGUE GRN WZ AS-BUILT GREEN & McELROY DISTRICTS, WETZEL & TYLER COUNTIES, WV MARCH 2019

SHEET INDEX

- TITLE SHEET
- 2-3. EVACUATION ROUTE/PREVAILING WIND
4. AS-BUILT OVERVIEW
- 5-18. AS-BUILT
19. ACCESS ROAD PROFILE
20. RECLAMATION PLAN OVERVIEW
- 21-34. RECLAMATION PLAN
35. DETAILS

TOTAL DISTURBED AREA: 50.7 AC.
PRIMARY ACCESS ROAD DISTURBED AREA: 32.5 AC.
ACCESS ROAD #1 DISTURBED AREA: 3.5 AC.
ACCESS ROAD #2 DISTURBED AREA: 1.1 AC.
WELL PAD DISTURBED AREA: 13.6 AC.

ACCESS ROAD LENGTH: 1451'
ACCESS ROAD AVG. WIDTH: 17'
WELL PAD ELEVATION: 1379'

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

Bryan Haver
10-26-21



ANDREW BENCHEK
P.E.



PROPERTY OWNER PROJECT BOUNDARY ACREAGE

PROPERTY OWNER	PARCELS	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	5-8-0	4.4
WV DEPARTMENT OF NATURAL RESOURCES	5-25-12	1.4
JAMES & BETTY MCCOY	5-3-101	0.6
CONANT FOREST RESOURCES	5-26-13	1.7
STATE OF WV PUBLIC LD CORP. DEPT. OF COM. L&E ENVR. DIV.	5-26-14	1.1
STATE OF WV PUBLIC LD CORP. DEPT. OF COM. L&E ENVR. DIV.	5-26-7	19.8
STATE OF WV PUBLIC LD CORP. DEPT. OF COM. L&E ENVR. DIV.	5-26-7	0.5
STATE OF WV PUBLIC LD CORP. DEPT. OF COM. L&E ENVR. DIV.	5-26-1	2.3
WV STATE OF COMMERCE BUREAU OF NATURAL RESOURCES DIV.	5-26-6	0.01
LIBBIC	5-23-32	0.5
BRIDGESHELL LUMBER	5-23-33	0.6
J.S. BOOTH ESTATE	5-23-30	0.7
J.S. BOOTH ESTATE	5-23-30	0.1
THE HOPE, J. & PAULA ADAMS ROYCH	5-23-26	3.1
WV ENERGY LLC	5-23-25	0.3
WV ENERGY LLC	5-23-21	0.2
WILLIAM H. & KAREN E. BASSETT	5-23-23	0.1
TAMARA A. & DANIEL R. BOGGS	5-23-19	0.3
CLINTON & KAREN S. FOWERS	5-23-18	1.1
BETTY & BETTY TRINE	5-23-8	2.8

IN ACCORDANCE WITH WV 35 CSR 8 THE FOLLOWING EROSION & SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES ESTABLISHED BY THE CHIEF AND PROVIDED IN THE OFFICE'S EROSION AND SEDIMENT CONTROL FIELD MANUAL A GENERAL CONSTRUCTION SEQUENCE, DESCRIPTION OF STABILIZATION METHODS, AND DETAILS & SPECIFICATIONS FOR EROSION & SEDIMENT BEST MANAGEMENT PRACTICES HAVE BEEN INCLUDED IN THE PROVIDED DETAIL SHEETS.

COORDINATES

CENTER OF WELLS
(NAD 83)
LAT: 39.479837°
LONG: 80.696237°
(NAD 27)
LAT: 39.479755°
LONG: 80.696413°

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



TITLE SHEET
HOGUE GRN WZ AS-BUILT
GREEN & McELROY DISTRICTS, WETZEL & TYLER COUNTIES, WV

SHEET
1
OF
35

