



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Wednesday, October 16, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

BRC OPERATING COMPANY, LLC
200 CRESCENT COURT, SUITE 1900

DALLAS, TX 75201

Re: Permit approval for TIOGA LUMBER 6
47-067-00896-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: TIOGA LUMBER 6
Farm Name: PARDEE & CURTIN REALTY
U.S. WELL NUMBER: 47-067-00896-00-00
Vertical Plugging
Date Issued: 10/16/2019

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date August 5, 20 19
2) Operator's
Well No. Tioga #6
3) API Well No. 47-067 - 00896

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1,554' Watershed Anthony Creek
District Hamilton County Nicholas Quadrangle Tioga 7.5'

6) Well Operator BRC Operating Company, LLC 7) Designated Agent Charles Brightman
Address 200 Crescent Court, Suite 1900 Address 286 Sunday Rd.
Dallas, TX 75201 Hico, WV 25854

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Jeremy James Name Halliburton
Address P.O. Box 36 Address 4999 East Pointe Dr.
Clendenin, WV 25045 Zanesville, OH 43701

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

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Notification must be given to the district oil and gas inspector 24 hours before work can commence. by the Department of Environmental Protection

Work order approved by inspector  Date 8-28-19

BRC Operating Company, LLC

**Tioga Lumber Well No. 6
API No. 47-067-00896
Nicholas County, WV**

Plug and Abandonment Procedure

TD: 1,836'

PBTD: 1,836'

Conductor Casing: 13-3/8" @ 28'

Surface Casing: 9-5/8" @ 630'. Cmt'd to surface

Intermediate Casing: 7", 17#, set @ 1108'. Cmt'd to surface

Production Casing: 4-1/2" set @ 1,815'. Top of cement @ 1000' (Est)
Hole size: 6-1/4"

Tubing: Undetermined. Records unavailable

Packer: Undetermined

Perforations: No perforations. Operations were suspended on 9/11/2008

Elevation: 1,409'

Location: Lat: 38.442140° Long: -80.703650°

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OCT 15 2019

**WV Department of
Environmental Protection**

Tubular Data and Hole Capacities

Dimensions, Strengths, and Depths									
Casing Liner Tubing	Grade	Weight lb/ft	Conn.	ID in.	Drift in.	Collapse psi	Burst psi	Jt. Strength (K#)	Depth feet
13-3/8"									28'
9-5/8"									630'
7"		17#		6.538	6.413	1,100	10,970	121,000	1,108'
4-1/2"	J-55	11.6		4.00	3.875	4,960	5,350	162,000	1,815'
2-3/8"		4.7#	EUE	1.995	1.901	9980	9840	60,300	Workstring
Capacities			bbls/ft.			cu.ft./ft.			
2-3/8" workstring			0.00387 bbls/ft			0.02171 cu.ft./ft.			
4-1/2" casing			0.01625 bbls/ft			0.0912 cu.ft./ft.			
7" casing			0.0167 bbls/ft			0.0937 cu.ft./ft.			
2-3/8" x 4-1/2" annulus			0.0101 bbls/ft			0.0565 cu. ft./ft.			
2-3/8" x 6-1/4" annulus			0.0325 bbls/ft			0.1823 cu. ft./ft.			
2-3/8" x 7" annulus			0.0360 bbls/ft			0.2024 cu. ft./ft.			
Well capacity to plug depth (w/ tbg) = ~30 bbls									

Plug Data

Plug	Sacks	Mix Water BBLs	Plug Depth	Displ BBLs <i>2-3/8" Tbg</i>	Tag
#1	60	~7.4	1800'- 1024' (inside 4-1/2")	~3.4	
			<i>Recover ~ 1000' of 4-1/2" casing To be based on CBL or Free Point</i>		
#2	25	~3.0	1000'- 874' (Inside 7")	~3.0	Yes
#3	25	~3.0	680'- 554'	~2.0	
#4	25	~3.0	120'- surface. (7" casing) Circ hole clean at 10' to accommodate well monument		

*Cement to be Class "A" and Mixed to 15.6#, 5.2 gal/sk

* 6% Gel water to be positioned between plugs

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OCT 15 2013

WV Department of
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Procedure

1. MIRU. Conduct pre-job safety meeting and discuss JSA with everyone on location. JSA should cover: heavy lifts, pinch points, location hazards, pressure hazards, and proper PPE. Make sure everyone knows they have the right to stop the job. **Notify DEP (304-951-2596) 24 hours prior to plugging operations.**
2. Check tubing and casing strings for pressure and record. Test lines to 250 psi low and HASP (Highest Anticipated Surface Pressure plus 250 psi). Prior to the start of any pumping operation, P&A supervisor and pump operator shall verify that the valves and lines involved in the operation, are aligned properly, and are rated to the maximum pressure to be applied.
3. Bleed off any existing pressure. Fill tubing & casing as needed. NU BOPs. Function test same.
4. POOH with exiting tubing.
5. RIH with 2-3/8" tubing to ~ 1800' and circulate well with FW. POOH.
6. RU E-line & RIH to ~1800'. Run CBL from 1800' - surface. POOH.
Remaining procedure is based on 1000' casing recovery.
7. RIH with 2-3/8" tubing to ~ 1800'. Prepare to cement.
8. Mix/Pump 60 sx (12.6 bbl. slurry) Class "A", 15.6# Cement. Displace plug with ~ 3.4 bbls to position 776' cement plug @ 1800' - 1024'.
Note: 6% gel water to be positioned between all plugs.
9. Pull to ~1000' and reverse out clean, "WOC", and tag plug.
10. POOH, ND BOPs, tubinghead, & B-section. Conduct casing recovery operations based on CBL and/or free point test.
11. NU BOPs. RIH with 2-3/8" workstring to ~ 1000'.and establish circulation. Prepare to cement.
12. Mix/Pump 25 sx (5.3- bbl. slurry) Class "A", 15.6# Cement. Displace plug with ~ 3 bbls to position 126' cement plug @ 1000' - 874'.
13. Pull clear of cement, reverse out clean, "WOC", and tag plug.
14. LD tubing to 680' and prepare to cement.
15. Mix/Pump 25 sx (~5.3- bbl. slurry) Class "A", 15.6# Cement. Displace plug with ~ 2 bbls to position 126' cement plug @ 680' - 554'.
16. LD tubing to ~120'. Prepare to cement.
17. Mix/Pump 25 sx (5.3- bbl. slurry) Class "A", 15.6# Cement from ~120' to surface.
18. POOH, ND, and top out as needed leaving top of cement at 10' to accommodate well monument.
19. RDMO.

Prepared by: Tim McGilvray

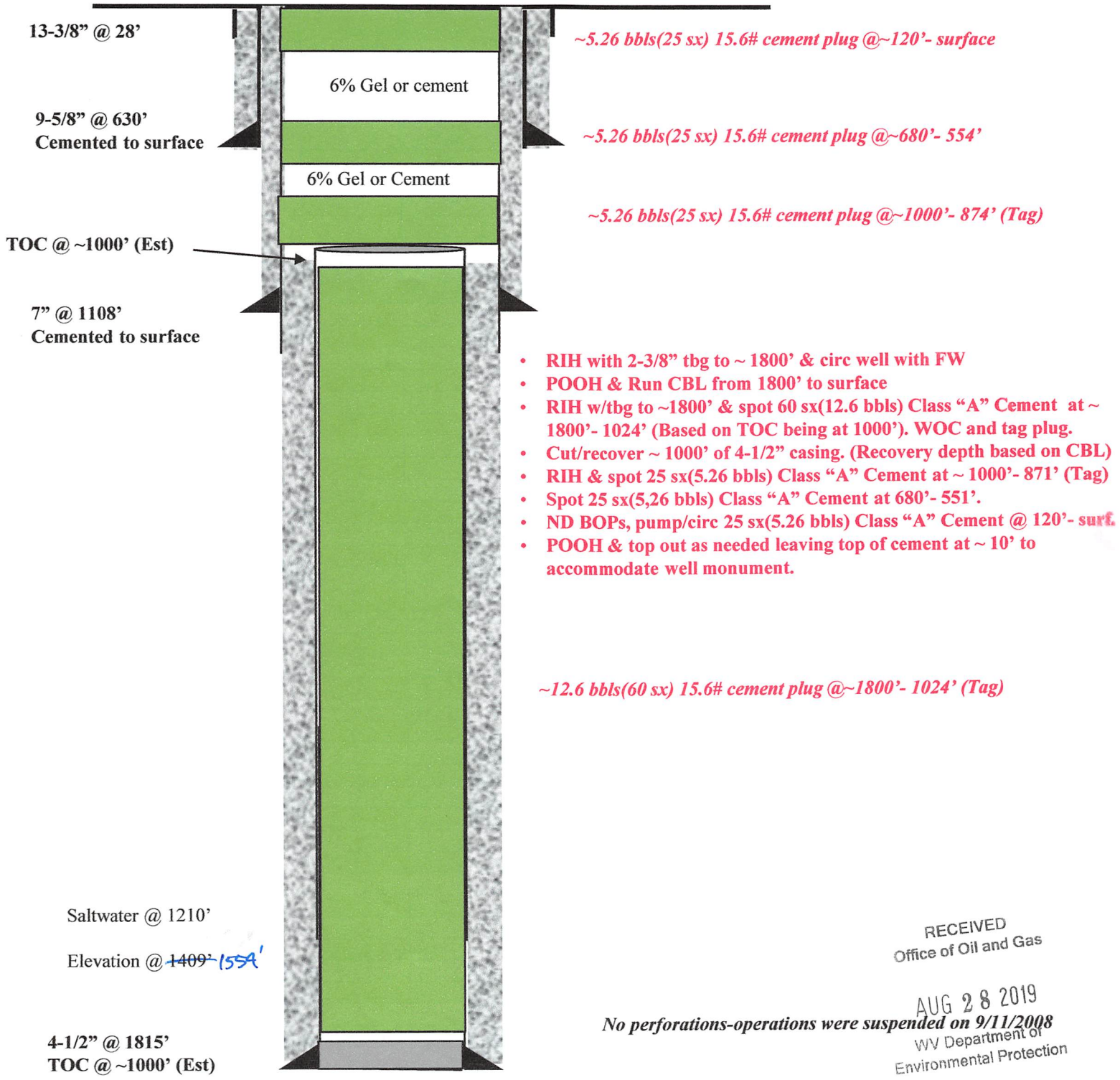
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Date: 10/15/2019
Office of Oil and Gas

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BRC Operating Company, LLC
Tioga Lumber #6
API No. 47-067-00896
Proposed Wellbore Schematic

Prepared by: Tim McGilvray



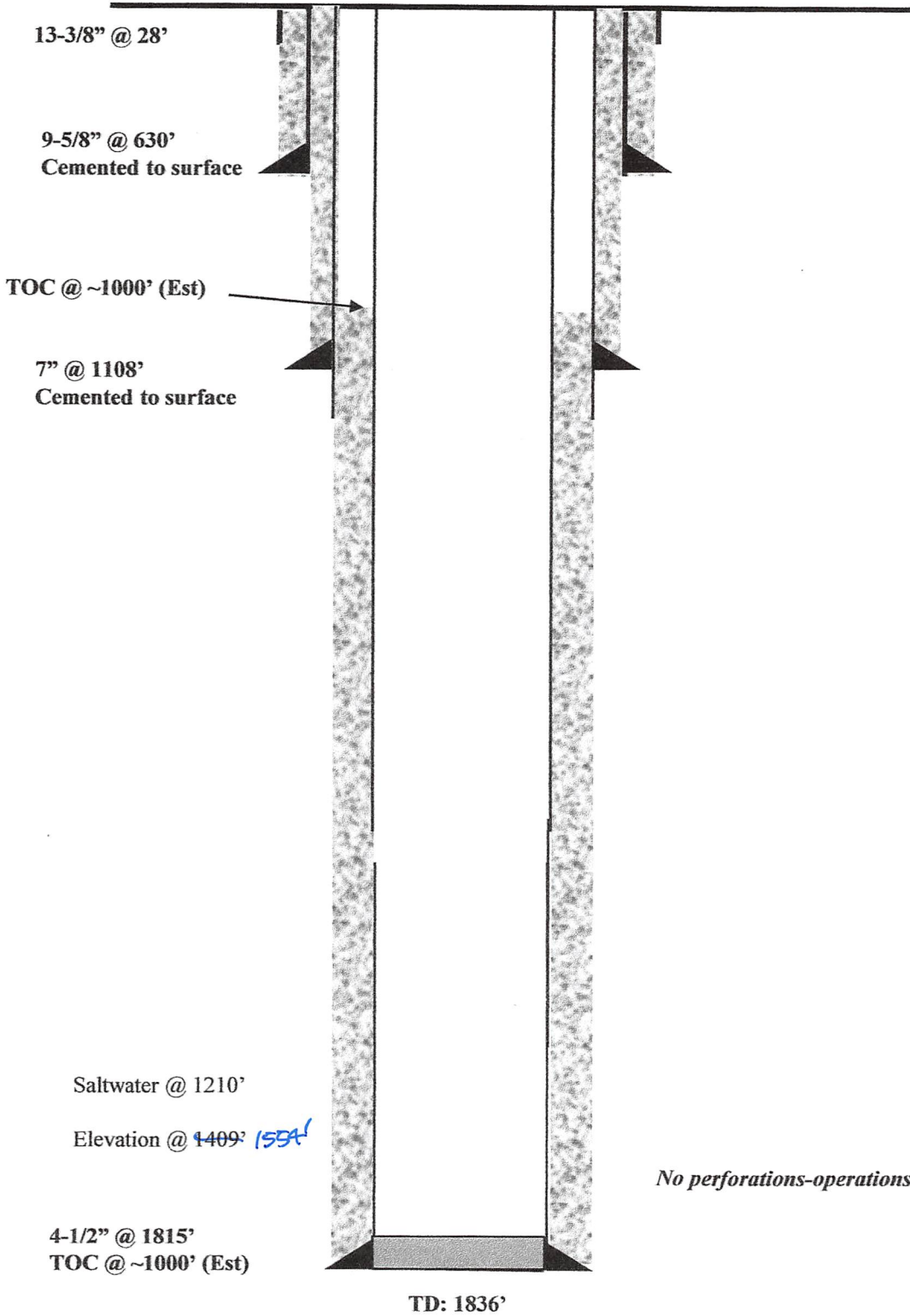
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WV Department of
Environmental Protection

No perforations-operations were suspended on 9/11/2008

47-067-00896 P

**BRC Operating Company, LLC
Tioga Lumber #6
API No. 47-067-00896
Present Wellbore Schematic**

Prepared by: Tim McGilvray



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Environmental Protection

No perforations-operations were suspended on 9/11/2008

WR-35

Date March 19, 2010
API # 47- 067 - 00896

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm Name: Pardee Curtin Realty LLC Operator Well No.: Tioga Lumber #6

LOCATION: Elevation: 1409- 1554' Quadrangle: Tioga
District: Hamilton County: Nicholas
Latitude: 5970' feet South of 38° DEG. 27' MIN. 30" SEC.
Longitude: 10620' feet West of 80° DEG. 42' MIN. 00" SEC.

Company: Cabot Oil & Gas Corporation
5 Penn Center West, Suite 401
Pittsburgh, PA 15276-0120

Agent: Brian D. Hall
Inspector: Barry Stollings
Permit Issued: 10/22/2007
Well Work Commenced: August 29, 2008
Well Work Completed: September 11, 2008
Verbal Plugging: _____
Permission granted on: _____
Rotary X Cable _____
Total Depth (feet) 1836'
Fresh Water Depths (ft) 90'
Salt Water Depths (ft) 1210'
Is coal being mined in area (Y / N) ? YES
Coal Depths (ft) NONE REPORTED

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
13-3/8"	28'	28'	NA
9-5/8"	630'	630'	471 cu. ft.
7"	1108'	1108'	310 cu. ft.
4-1/2"		1815'	104 cu. ft.
Suspended operations 09/11/08			

OPEN FLOW DATA

Producing Formation NOT TREATED Pay Zone _____
Depth (ft) NA
Gas: Initial Open Flow NA MCF/d Oil: Initial Open Flow NA Bbl/d
Final Open Flow NA MCF/d Final Open Flow NA Bbl/d
Time of open flow between initial and final tests NA Hours
Static rock pressure NA psig surface pressure after NA Hours

Second Producing Formation NA Pay Zone _____
Depth (ft) NA
Gas: Initial Open Flow NA MCF/d Oil: Initial Open Flow NA Bbl/d
Final Open Flow NA MCF/d Final Open Flow NA Bbl/d
Time of open flow between initial and final tests NA Hours
Static rock pressure NA psig surface pressure after NA Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE

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Office of Oil & Gas

MAR 22 2010

WV Department of
Environmental Protection

For: CABOT OIL & GAS CORPORATION

By: [Signature]
Date: March 19, 2010

Jason R. Clark
Drilling Manager

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WELL - TIOGA 6

FORMATION	TOP	BOTTOM	REMARKS
Silt / Shale	0'	920'	
Sandstone	920'	974'	
Silt / Shale	974'	1030'	
Sandstone	1030'	1050'	
Silt / Shale	1050'	1140'	
Maxton	1140'	1205'	
Silt / Shale	1205'	1370'	
Little Lime	1370'	1440'	
Blue Monday	1440'	1450'	
Shale	1450'	1488'	
Big Lime	1488'	1766'	
Pocono	1766'	1836'	
TD	1836'		

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WV Department of
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FORM WV 6 LONG. 80°42'13.9" 10,620' LATITUDE 38°27'30"

V. HARTNETT 130 ACRES±

IRON ROD (FOUND)

PARDEE LEASE 18,600 ACRES± WELL NO. TIOGA #6

ANTHONY CREEK

ACCESS ROAD

PARDEE & CURTIN REALTY, LLC 12,404.2 ACRES±

WELL NO. 6 STATE PLANE COORDINATES (SOUTH ZONE)
 (N) 525,168
 (E) 2,084,822
 LAT=(N) 38.441889
 LONG=(W) 80.703861

NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 08/23/07.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 42 AT PAGE 264.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF NICHOLAS COUNTY IN JULY, 2006.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES

4" SUGAR MAPLE
 N 75° W 138.20' (SLOPE 138.50')
 WOODS
 WELL NO. 6
 CO. RT. 1/9
 GRAVEL TURNOUT
 S 05° W 162.80'
 8" YELLOW POPLAR

1" = 100'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*

GREGORY A. SMITH LICENSED PROFESSIONAL SURVEYOR No. 677 STATE OF WEST VIRGINIA

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE AUGUST 24, 20 07
 OPERATORS WELL NO. TIOGA #6
 API WELL NO. 47-067-00896
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 5769P6 (235-51)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1000'

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

WELL TYPE: OIL ___ LIQUID GAS X INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1,554' WATERSHED ANTHONY CREEK DISTRICT HAMILTON COUNTY NICHOLAS

SURFACE OWNER PARDEE & CURTIN REALTY, LLC QUADRANGLE TIOGA 7.5'
 ROYALTY OWNER PARDEE MINERALS, LLC ACREAGE 12,404.2±
 PROPOSED WORK: LEASE ACREAGE 18,600± LEASE NO. 47-12427

DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___ OTHER ___
 PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 5,990'

WELL OPERATOR CABOT OIL & GAS CORP. DESIGNATED AGENT THOMAS S. LIBERATORE

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 of Oil and Gas
 AUG 2 2019
 DEPT. OF ENVIRONMENTAL PROTECTION
 COLLECTOR

WW-4A
Revised 6-07

1) Date: August 5, 2019
2) Operator's Well Number
Tioga #6 _____
3) API Well No.: 47 - 067 - 00896

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

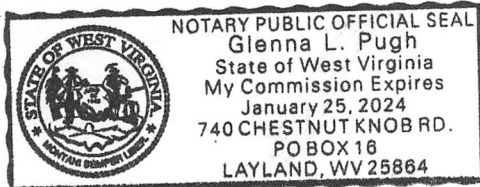
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Tioga Timberlands LLC</u>	Name _____
Address <u>702 Professional Park Dr., Suite 104S</u>	Address _____
<u>Summersville, WV 26651</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Tioga Minerals LLC</u>
	Address <u>135 Corporate Center Dr, Suite 510</u>
	<u>Scott Depot, WV 25560</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Jeremy James</u>	(c) Coal Lessee with Declaration
Address <u>P.O Box 36</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-951-2596</u>	

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

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

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

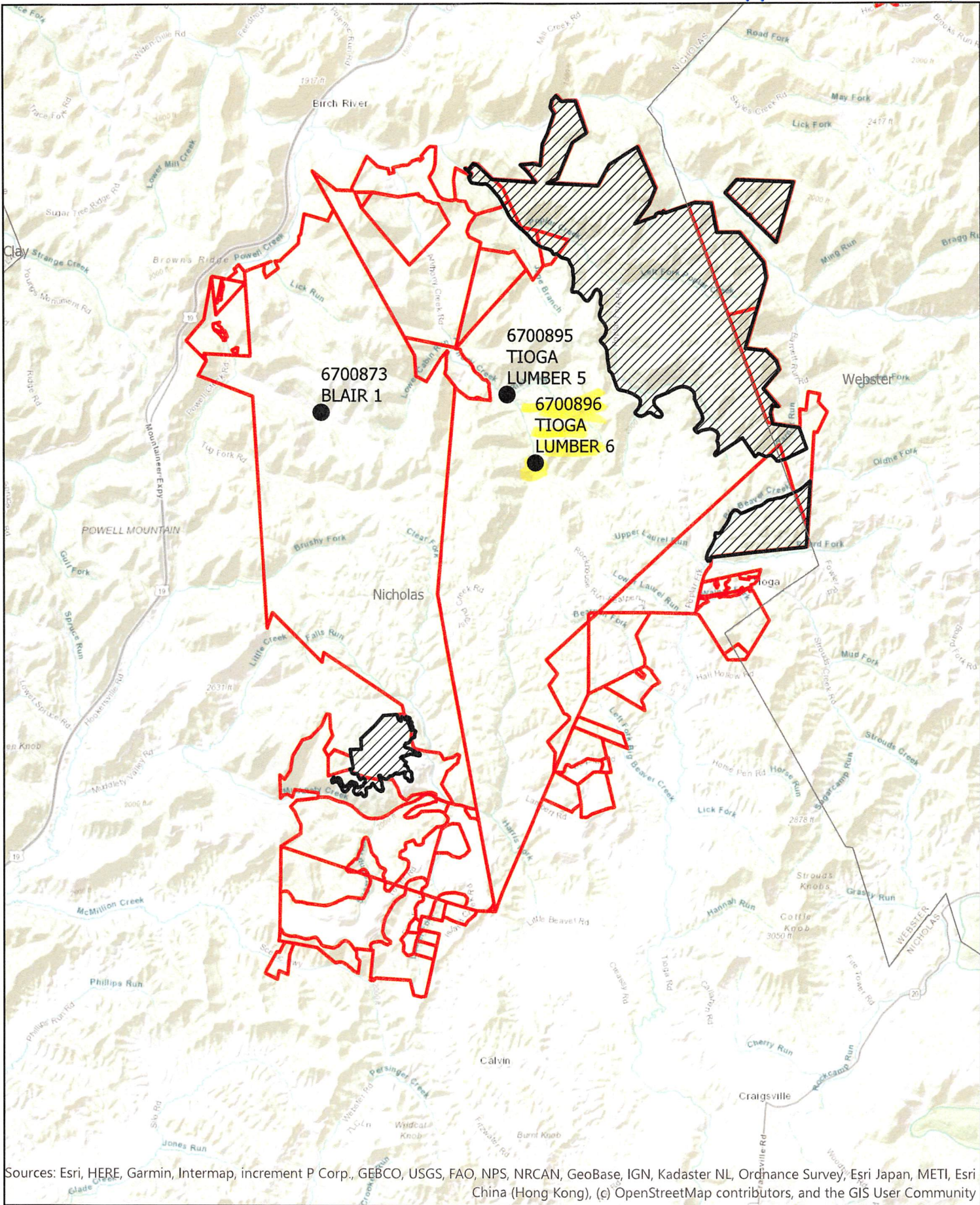
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator BRC Operating Company, LLC
 By: Charles Brightman _____
 Its: Agent _____
 Address 286 Sunday Rd. _____
Hico, WV 25854 _____
 Telephone 304-880-8121 _____

Subscribed and sworn before me this 28 day of August 2019 RECEIVED
Glenna L. Pugh Office of Oil and Gas
 My Commission Expires January 25 2024 Notary Public
 AUG 28 2019

Oil and Gas Privacy Notice
 The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at _____
 WV Department of Environmental Protection



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

1 inch equals 8,000 Feet

**Map Showing
Bluescape Wells
with Adjacent Coal Leases on
Tioga Minerals and Berthy Blair Minerals Properties**

WW-9
(5/16)

API Number 47 - 067 - 00896
Operator's Well No. Tioga #6

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

Operator Name BRC Operating Company, LLC OP Code _____

Watershed (HUC 10) Anthony Creek Quadrangle Tioga 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

ALL WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF PROPERLY, OFFSITE. ywn

Will closed loop system be used? If so, describe: n/a

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

-If oil based, what type? Synthetic, petroleum, etc. n/a

Additives to be used in drilling medium? n/a

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a

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

-Landfill or offsite name/permit number? n/a

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Charles Brightman*

Company Official (Typed Name) Charles Brightman

Company Official Title Designated agent

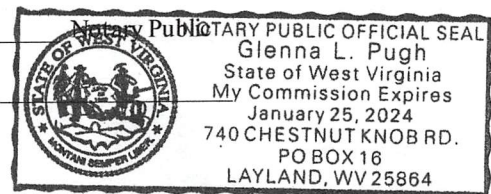
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Office of Oil and Gas

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WV Department of
Environmental Protection

Subscribed and sworn before me this 28 day of August, 2019

Glenna L. Pugh
My commission expires January 25, 2024



Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH _____

Lime 5gals Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-10

Fertilizer amount 500 lbs/acre

Mulch 500lbs Tons/acre


Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
<u>n/a</u>		<u>Tall fescue blend</u>	<u>250</u>

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

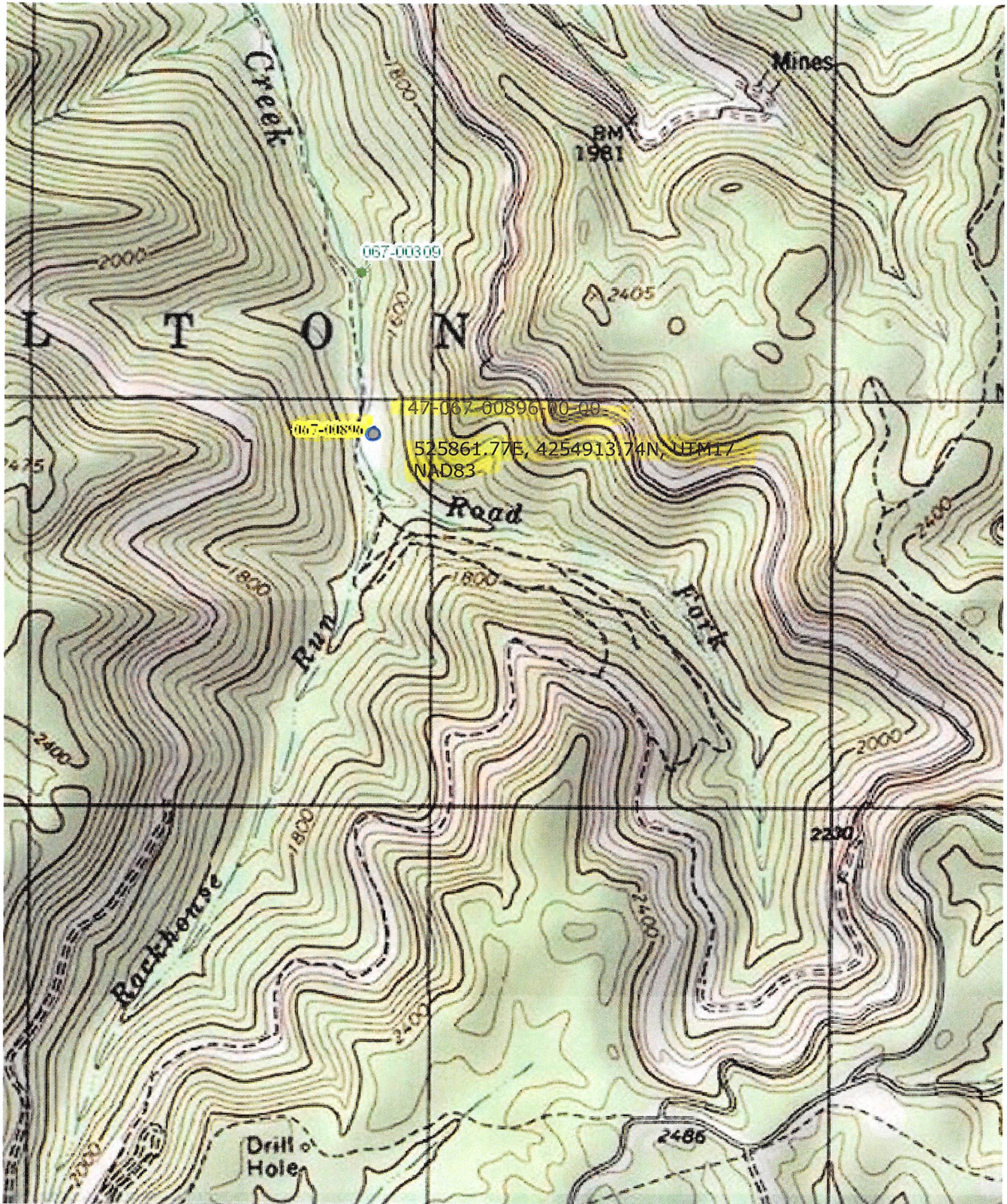
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AUG 28 2019
WV Department of
Environmental Protection

Title: inspector OOG

Date: 8-28-19

Field Reviewed? Yes No



WW-7
8-30-06



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

API: 47-067-00896 WELL NO.: Tioga #6

FARM NAME: _____

RESPONSIBLE PARTY NAME: BRC Operating Company, LLC

COUNTY: Nicholas DISTRICT: Hamilton

QUADRANGLE: Tioga 7.5'

SURFACE OWNER: TIOGA TIMBERLANDS LLC

ROYALTY OWNER: Pardee Minerals, LLC

UTM GPS NORTHING: 4254913.74

UTM GPS EASTING: 525861.77 GPS ELEVATION: 1554

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

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
Survey grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____
Mapping Grade GPS ____ : Post Processed Differential ____
Real-Time Differential ____

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

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

RECEIVED
Office of Oil and Gas

SEP 09 2019

[Signature]
Signature

DEWEARD ALBERT
Title

9/5/19
Date