



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 BLAIR 1
47-067-00873-00-00

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: BLAIR 1
Farm Name: PARDEE&CURTIN REALTY 
U.S. WELL NUMBER: 47-067-00873-00-00
Vertical Plugging
Date Issued: 10/16/2019

PERMIT CONDITIONS

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

CONDITIONS

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

1) Date August 5, 2019
2) Operator's
Well No. Blair 1
3) API Well No. 47-067 - 00873

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 1,794' Watershed Rich Fork of Powell Creek
District Hamilton County Nicholas Quadrangle Widen 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 Name Jeremy James
Address P.O. Box 36
Clendenin, WV 25045
9) Plugging Contractor Name Halliburton
Address 4999 East Pointe Dr.
Zanesville, OH 43701

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

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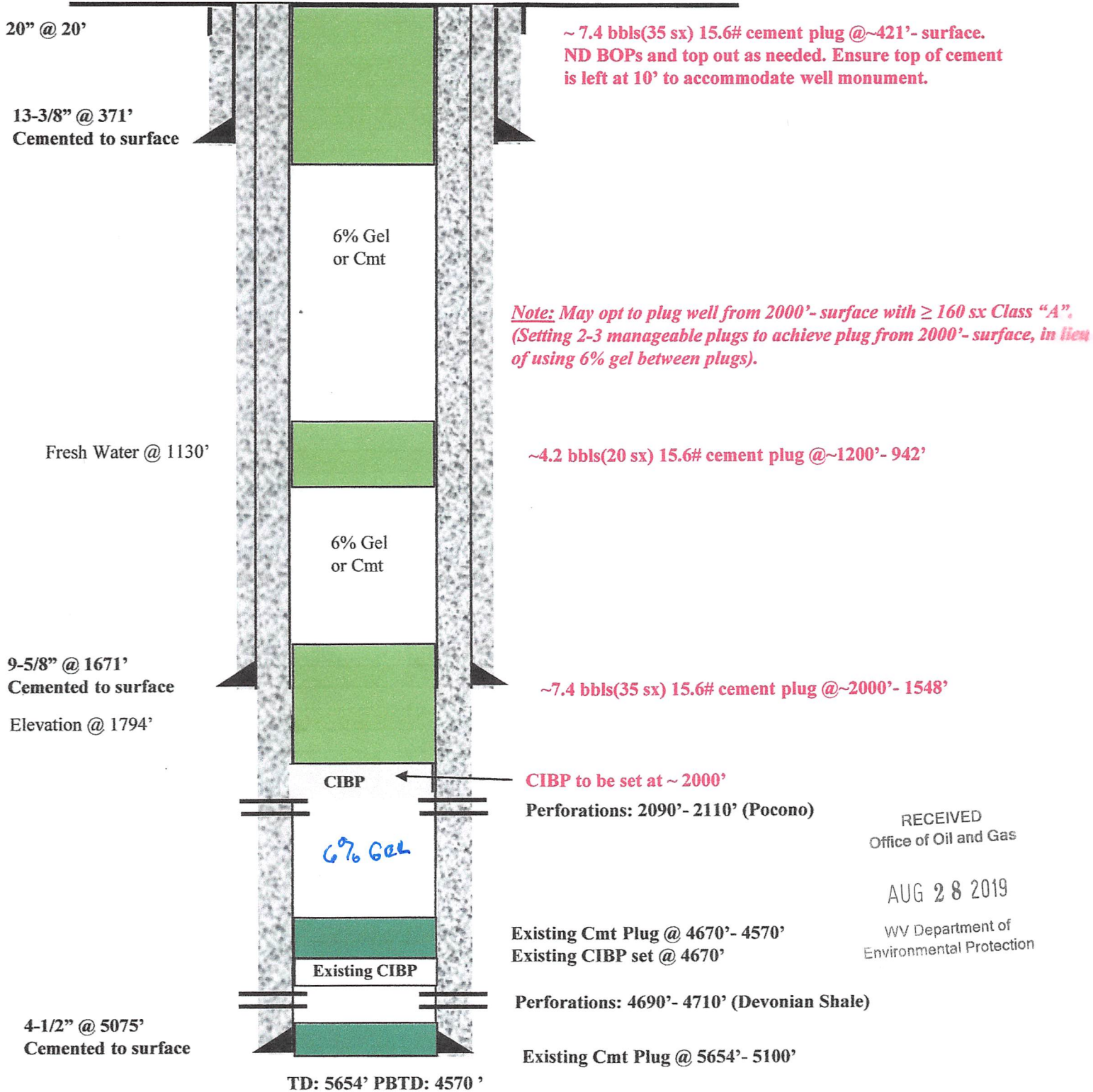
WV Department of
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector  Date 8-28-19

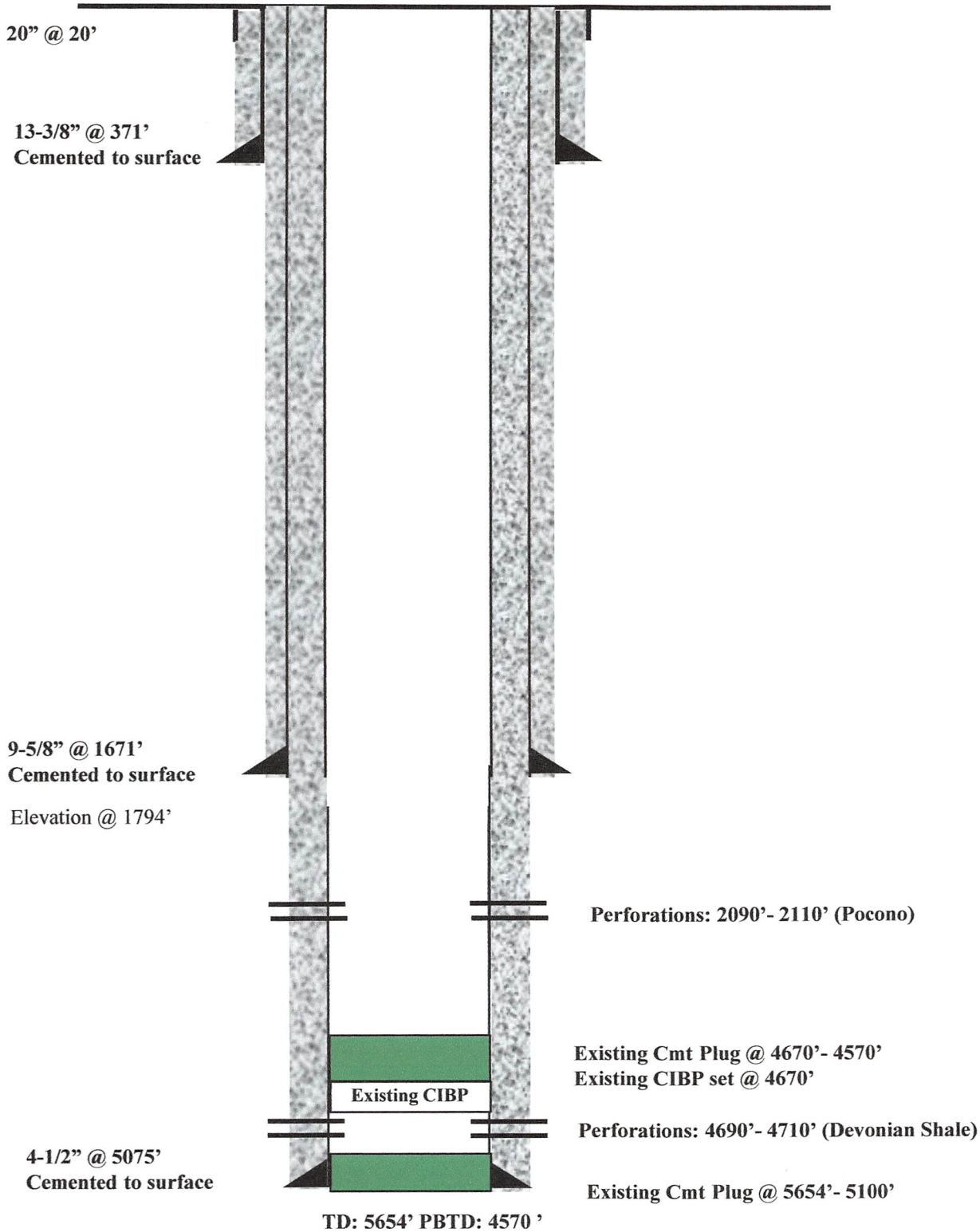
BRC Operating Company, LLC
Blair #1
API No. 47-067-00873
Proposed Wellbore Schematic

Prepared by: Tim McGilvray



BRC Operating Company, LLC
Blair #1
API No. 47-067-00873
Present Wellbore Schematic

Prepared by: Tim McGilvray



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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 any existing tubing.
 5. RU E-line. RIH with gauge ring/junk basket to ~ 2000'. POOH
 6. RIH and set CIBP for 4-1/2" casing at ~ 2000'. POOH **MAKE SURE GEL IS BELOW CIBP.**
 7. RIH with 2-3/8" to ~ 2000' and circulate well with FW. Prepare to cement.
 8. Mix/Pump 35 sx (~7.4- bbl. slurry) Class "A", 15.6# Cement. Displace plug with ~ 5.6 bbls to position 452' cement plug @ 2000' - 1548'.
- Note: 6% gel water to be positioned between all plugs.**
9. LD tubing to 1200'. Prepare to cement.
 10. Mix/Pump 20 sx (4.2- bbl. slurry) Class "A", 15.6# Cement. Displace plug with ~ 3.4 bbls to position 258' cement plug @ 1200' - 942'.
- Note: 6% gel water to be positioned between all plugs.**
11. LD tubing to 421'. Prepare to cement.
 12. Mix/Pump 35 sx (~7.4- bbl. slurry) Class "A", 15.6# Cement from 421' - surface.
 13. POOH, ND, and top out as needed leaving top of cement at 10' to accommodate well monument.
 14. RDMO.

Prepared by: Tim McGilvray

Date: 10-12-2019

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BRC Operating Company, LLC

**Blair Well No. 1
API No. 47-067-00873
Nicholas County, WV**

Plug and Abandonment Procedure

TD: 5,654'
PBTD: 4,570'
Conductor Casing: 20" @ 20'
Surface Casing: 13-3/8" @ 371'. Cmt'd to surface
Intermediate Casing: 9-5/8" @ 1671'. Cmt'd to surface
Production Casing: 4-1/2" set @ 5,075'. Cmt'd to surface
Tubing: Undetermined. Records unavailable
Packer: Undetermined
Perforations: 2090' - 2110'
Elevation: 1,794'
Location: Lat: 38.451037° Long: -80.751295°

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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
20"									20'
13-3/8"									371'
9-5/8"									1671'
4-1/2"	J-55	No report		4.090	3.965	3,310	4,380	101,000	5,075'
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.			
2-3/8"x 4-1/2" annulus			0.0101 bbls/ft			0.0565 cu. ft/ft.			
Well capacity to plug depth ~35 bbls									

Plug Data

Plug	Sacks	Mix Water BBLs	Plug Depth	Displ BBLs <i>2-3/8" Tbg</i>	Tag
#1			CIBP @ 2000'		
#2	35	4.3	2000'- 1548'	~5.6	
#3	20	~2.5	1200'- 942'	~3.4	
#4	35	~4.3	421'- surface 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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WR-35

Date December 21, 2006
API # 47- 067 - 00873

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.: Blair #1

LOCATION: Elevation: 1794' Quadrangle: Widen
District: Hamilton County: Nicholas
Latitude: 2700' feet South of 38° DEG. 27' MIN. 30" SEC.
Longitude: 400' feet West of 80° DEG. 45' MIN. 00" SEC.

Company: Cabot Oil & Gas Corporation
900 Lee Street East, Suite 500
Charleston, WV 25301

Agent: Thomas S. Liberatore
Inspector: Terry Urban
Permit Issued: 7/21/2005
Well Work Commenced: November 13, 2005
Well Work Completed: April 27, 2006
Verbal Plugging: _____
Permission granted on:
Rotary Cable
Total Depth (feet) 5654' / PBTD 4570'
Fresh Water Depths (ft) 104', 1130'
Salt Water Depths (ft) 1759'
Is coal being mined in area (Y / N)? YES
Coal Depths (ft) 54'-61'

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
20"	20'	20'	N/A
13-3/8"	371'	371'	365
9-5/8"	1671'	1671'	798
4-1/2"		5075'	1015
Squeeze 4-1/2" csg. @ 2658'-2660'			439
2-3/8"		2088'	N/A
PLUG BACK SHOWN ON BACK PAGE			

OPEN FLOW DATA

Producing Formation POCONO Pay Zone Depth (ft) 2090'-2110'
Gas: Initial Open Flow TSTM MCF/d Oil: Initial Open Flow 0 Bbl/d
Final Open Flow 60 MCF/d Final Open Flow 0 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock pressure 200 psig surface pressure after 16 Hours

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

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

For: CABOT OIL & GAS CORPORATION

By: [Signature]
Date: 2/22/06

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Drilling Superintendent
Office of Chief
JAN 09 2007
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0873
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STAGE	PERFS	ACID 15% HCl	FOAM	SAND (lbs)	NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Devonian Shale	4690-4710 (40)	350	75Q	40,600	594,200	2478	2460	2478	1588
2-Pocono	2090-2110 (40)	250	75Q	40,600	252,700	1149	1071	1089	966

FORMATION	TOP	BOTTOM	REMARKS
Sandstone	Surface	20	
Shale and Siltstone	20	54	
Coal	54	61	
Shale and Siltstone	61	556	
Sandstone	556	601	
Shale	601	657	
Sandstone	657	702	
Shale and Sandstone	702	1050	
Sandstone	1050	1077	
Shale and Siltstone	1077	1166	
Sandstone	1166	1175	
Shale	1175	1253	
Sandstone	1253	1274	
Shale	1274	1400	
Sandstone	1400	1409	
Shale and Siltstone	1409	1647	
Little Lime	1647	1694	
Shale	1694	1424	
Blue Monday	1424	1769	
Big Lime	1769	2033	
Shale	2033	2038	
Pocono	2038	2150	
Shale	2150	2534	
Sandstone	2534	2539	
Shale	2539	2656	
Sandstone and Shale	2656	2678	
Shale and Siltstone	2678	3070	
Siltstone and Shale	3070	3382	
Shale	3382	3836	
Siltstone and Shale	3836	3978	
Shale	3978	4258	
Shale and Siltstone	4258	4460	
Shale	4460	4513	
Shale and Siltstone	4513	4547	
Shale	4547	4715	
Siltstone and Shale	4715	4800	
Shale	4800	5654	

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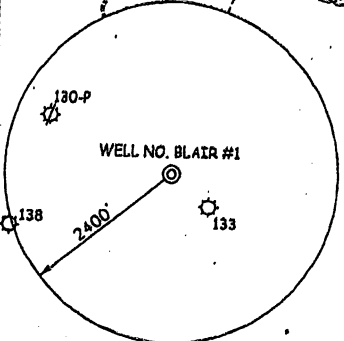
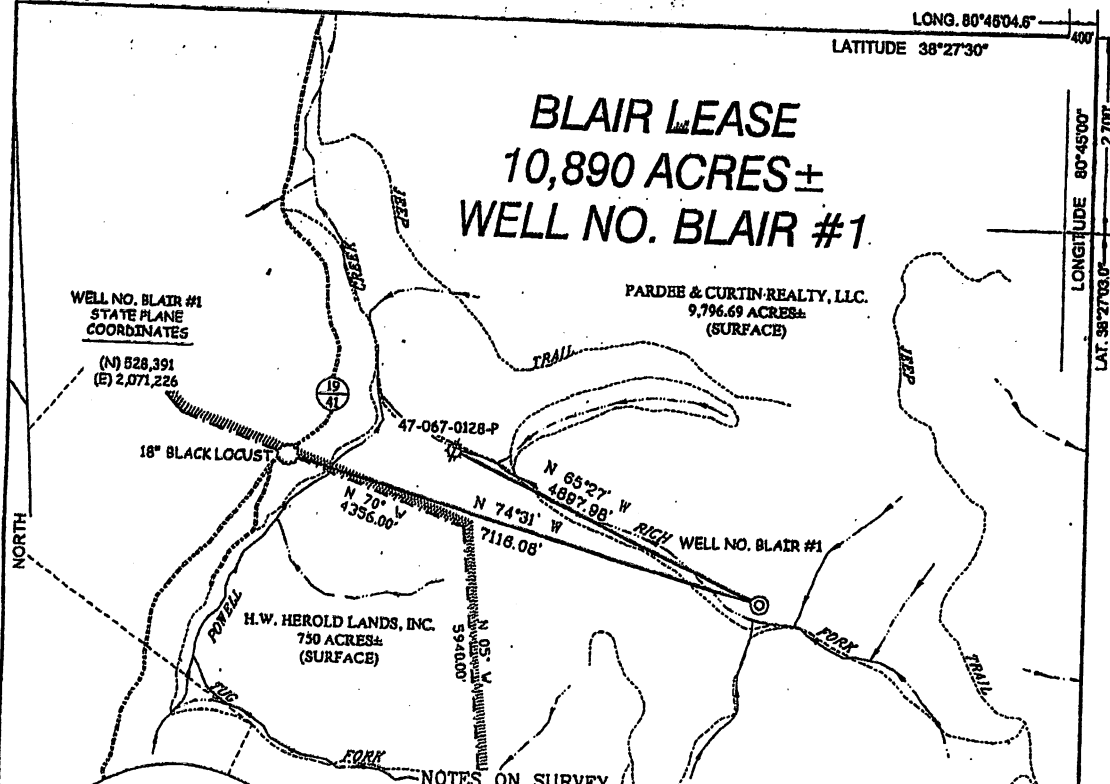
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Environmental Protection

TD

1st PLUG BACK (open hole):
Class "A" cement from TD @ 5654' to 5100'
2nd PLUG BACK (in 4-1/2" casing):
CIBP @ 4670'
Class "A" cement from 4670'-4570'

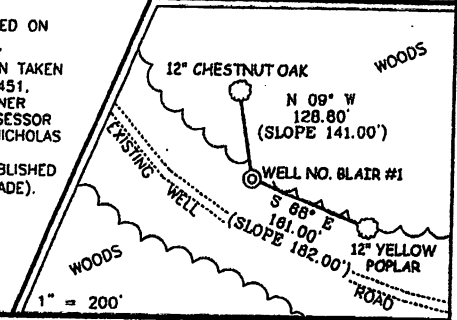
FORM WV 6
 LONG. 80°46'04.6"
 LATITUDE 38°27'30"

BLAIR LEASE 10,890 ACRES ± WELL NO. BLAIR #1



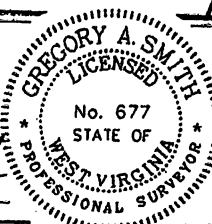
- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 05/31/05.
 3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED BOOK 31 PAGE 451.
 4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF NICHOLAS COUNTY IN MAY, 2005.
 5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 10, 20 05 RECEIVED
 OPERATORS WELL NO. BLAIR #1 Office of Oil and Gas
 API WELL NO. 47-067-00873
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 6789P1 (181-58)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2,000'

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

WELL TYPE: OIL GAS LIQUID WASTE IF "GAS" PRODUCTION INJECTION DISPOSAL STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1,784' WATERSHED RICH FORK OF POWELL CREEK
 DISTRICT HAMILTON COUNTY NICHOLAS QUADRANGLE WIDEN 7.5'
 SURFACE OWNER PARDEE & CURTIN REALTY, L.L.C. ACREAGE 9,798.69±
 ROYALTY OWNER PARDEE MINERALS, L.L.C. LEASE ACREAGE 10,890±
 PROPOSED WORK: LEASE NO. 47-12428
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
 FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ORISKANY
 ESTIMATED DEPTH 3100'

COUNTY NAME NIC
 PERMIT 0673

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 Department of Environmental Protection

WW-4A
Revised 6-07

1) Date: August 5, 2019
2) Operator's Well Number
Blair 1
3) API Well No.: 47 - 067 - 00873

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

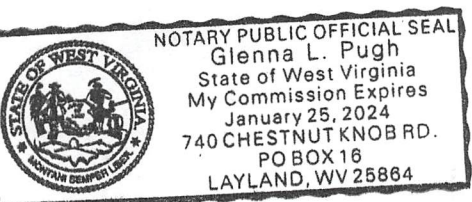
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Berth Blair Timberlands LLC</u>	Name _____
Address <u>702 Professional Park Dr, Suite 104S</u>	Address _____
<u>Summersville, WV 26651</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Berth Blair Minerals LLC</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

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Office of Oil and Gas

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WV Department of Environmental Protection

Subscribed and sworn before me this 08 day of August 2019
Glenna L. Pugh Notary Public
 My Commission Expires January 25, 2024

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 _____

Berthy Blair Tract

Well:

Blair #1, API 47-067-00873

Surface Owner:

Berth Blair Timberlands LLC
702 Professional Park Drive
Suite 104S
Summersville, WV 26651

Coal Owners:

Berth Blair Minerals LLC
135 Corporate Center Drive, Suite 510
Scott Depot, WV 25560

(You can send below notices to Berthy Blair Minerals LLC as manager)

J.N. Berthy Heirs
c/o Kay Goodwin
106 Centre Court Road
Charleston, WV 25314

Thomas J. Blair III & Irene Blair
1321 Mt. Vernon Pl.
Charleston, West Virginia 25314

Emma C. Bramble
139 Springbrook Court
Lancaster PA 17603

Harry E. Curtis Jr.
309 Heathwood Lane
Easley SC 29640

Coal Operator/Lessees:

None

Tioga Tract

Wells:

Tioga Lumber 5, API 47-067-00895
Tioga Lumber 6, API 47-067-00896

Surface Owner:

Tioga Timberlands LLC
702 Professional Park Drive
Suite 104S

Summersville, WV 26651

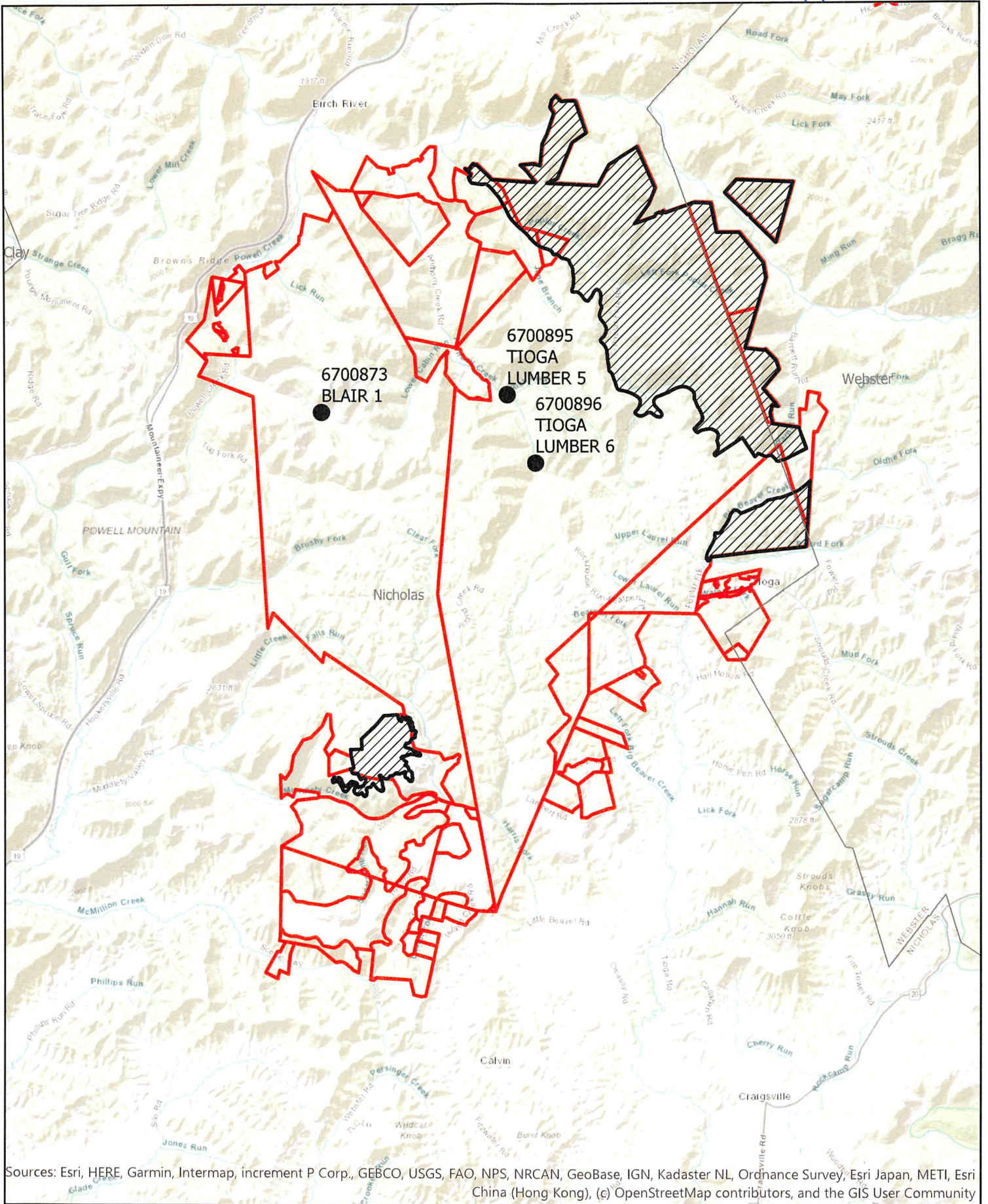
Coal Owner:

Tioga Minerals LLC
135 Corporate Center Drive, Suite 510
Scott Depot, WV 25560

Coal Operator/Lessees:

None

Note: There is a gate on access road to the Blair #1. Let us know and we will leave it open during plugging



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 - 00873
Operator's Well No. 47-067-00873

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) Rich Fork of Powell Creek Quadrangle Widen 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

ALL WELL EFFLUENT MUST BE CONTAINED IN TANK AND DISPOSED OF SITE PROPERLY.

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

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

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.

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Office of Oil and Gas

Company Official Signature *Charles Brightman*

AUG 28 2019

Company Official (Typed Name) Charles Brightman

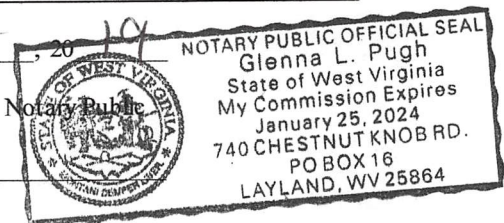
WV Department of Environmental Protection

Company Official Title Designated Agent

Subscribed and sworn before me this 28 day of August

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

n/a

Tall fescue blend

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: Jeremy James

Comments: _____

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Office of Oil and Gas

AUG 28 2019

WV Department of
Environmental Protection

Title: inspector 006

Date: 8-28-19

Field Reviewed? () Yes () No

NORTH

Page 1 of 1

BRC OPERATING CO. LLC.
200 Crescent Court, Suite 200
Dallas, TX 75201

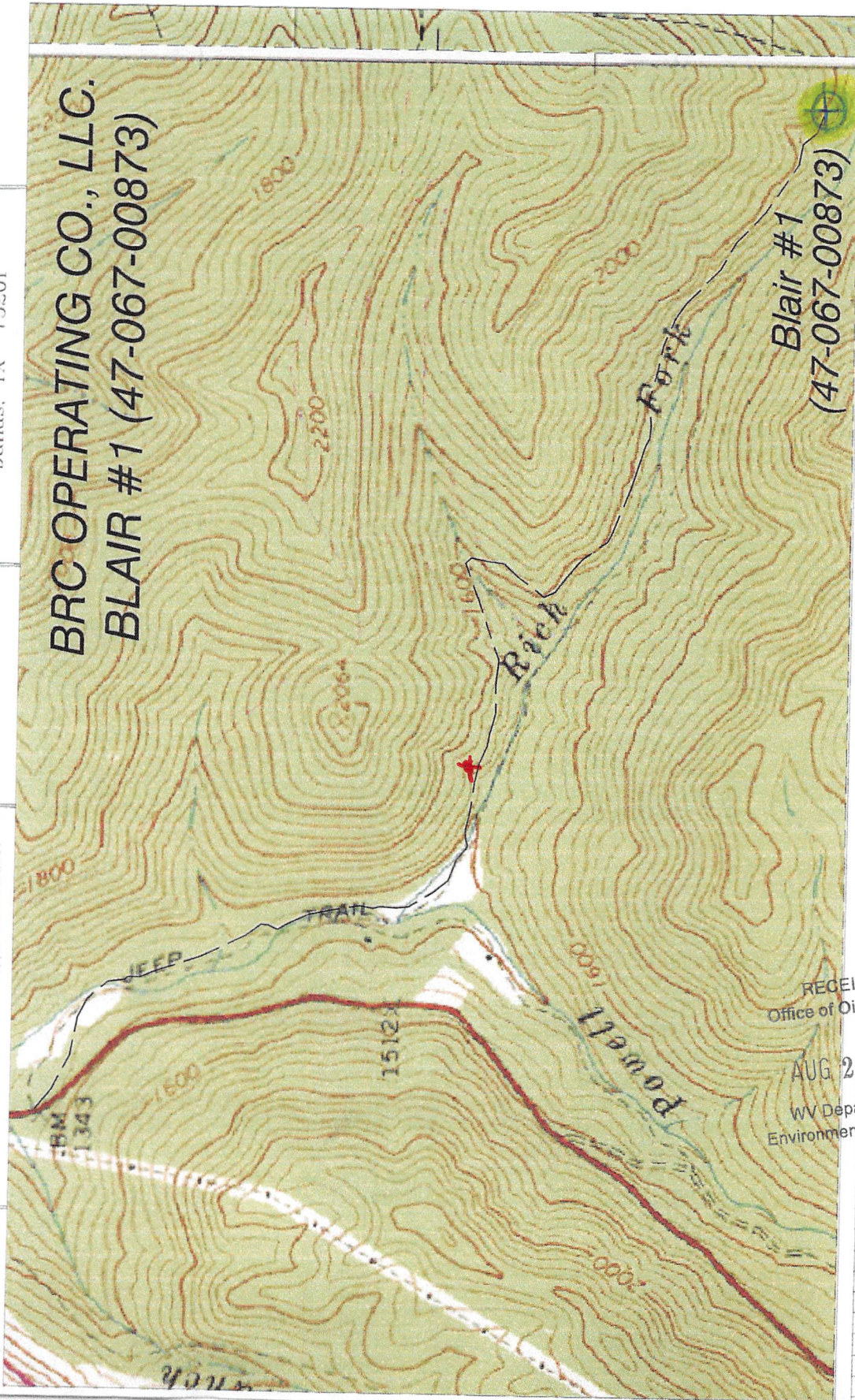
1" = 1000'
Widen Quad

HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147
Ph: (304) 354-7035 E-MAIL: hupp@frontiernet.net

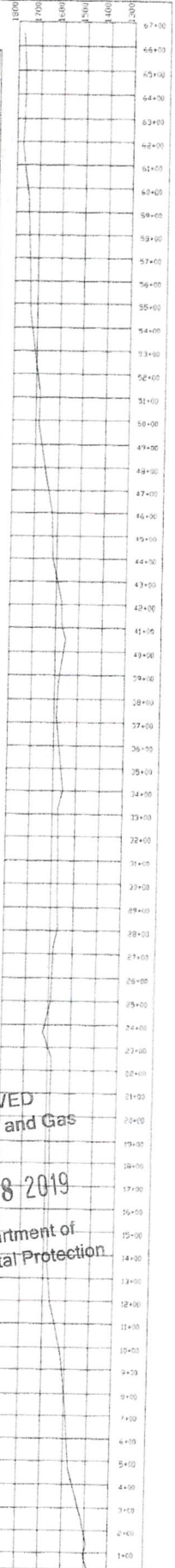
Form W-9

**BRC OPERATING CO., LLC.
BLAIR #1 (47-067-00873)**



**Blair #1
(47-067-00873)**

RECEIVED
Office of Oil and Gas
AUG 28 2019
WV Department of
Environmental Protection



WW-7
8-30-06



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

API: 47-067-00873 WELL NO.: Blair 1

FARM NAME: _____

RESPONSIBLE PARTY NAME: BRC Operating Company, LLC

COUNTY: Nicholas DISTRICT: Hamilton

QUADRANGLE: Widen 7.5'

SURFACE OWNER: BERTH BLAIR TIMBERLANDS LLC

ROYALTY OWNER: Pardee Minerals, LLC

UTM GPS NORTHING: 4255888.66

UTM GPS EASTING: 521701.23 GPS ELEVATION: 1794

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

WV Department of
Environmental Protection

Frank S. [Signature]
Signature

DEBRA ANN [Signature]
Title

9/5/19
Date