



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 CAMPBELL 1
47-067-00876-00-00

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: CAMPBELL 1
Farm Name: GEORGE, OKEY LEE
U.S. WELL NUMBER: 47-067-00876-00-00
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. Campbell #1
- 3) API Well No. 47-067 - 00876

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 1,525' Watershed Cobb Run of 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
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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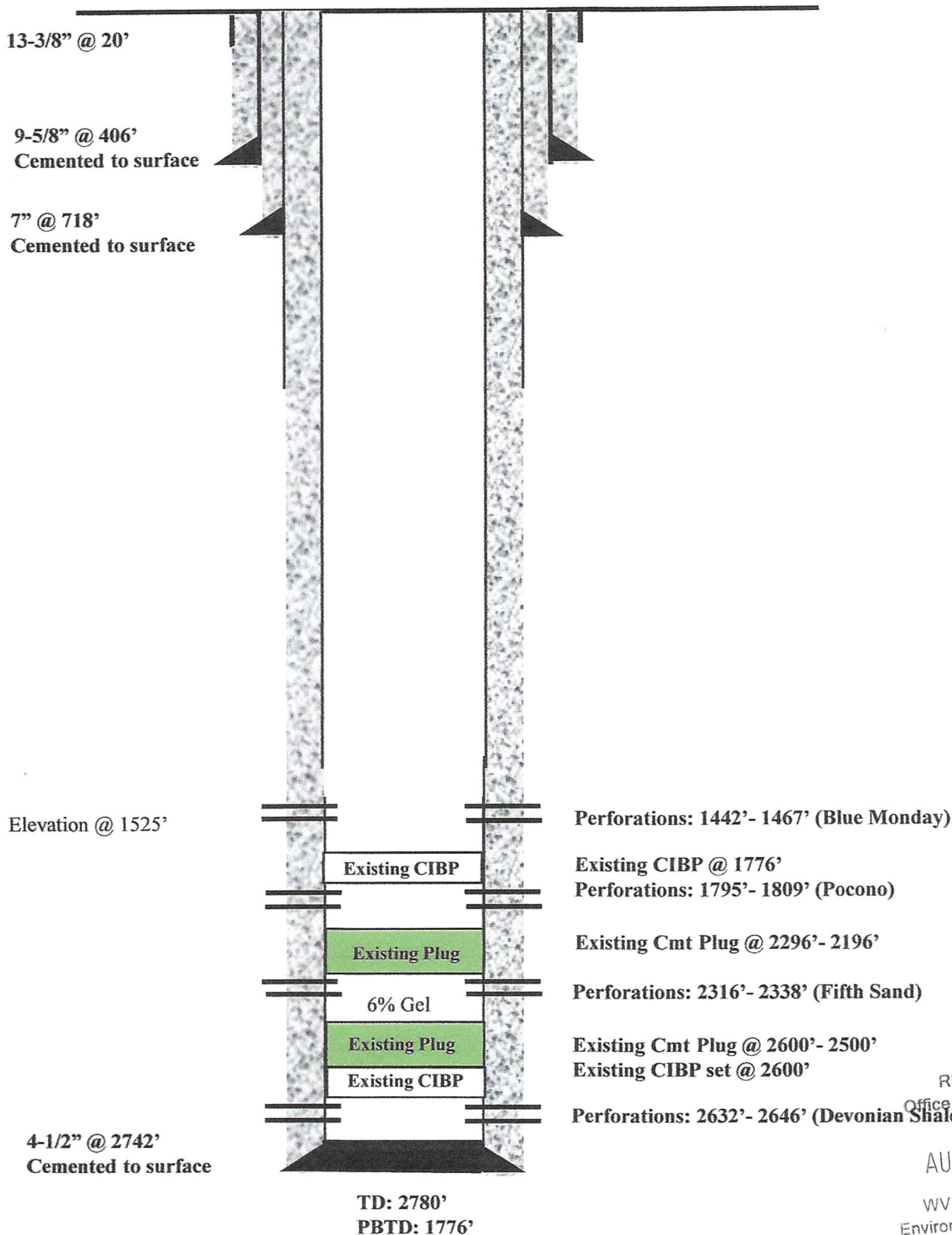
WV Department of
Environmental Protection

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
Campbell #1
API No. 47-067-00876
Present Wellbore Schematic**

Prepared by: Tim McGilvray



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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
13-3/8"									20'
9-5/8"									406'
7"									718'
4-1/2"	J-55	No report		4.090	3.965	3,310	4,380	101,000	2,742'
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 ~25 bbls									

Plug Data

Plug	Sacks	Mix Water BBLS	Plug Depth	Displ BBLS 2-3/8" Tbg	Tag
#1	40	~5.0	~1776'- 1259'	~4.5	
#2	65	~8.0	~770'- 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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BRC Operating Company, LLC

**Campbell Well No. 1
API No. 47-067-00876
Nicholas County, WV**

Plug and Abandonment Procedure

TD: 2,780'
PBTD: 1,776'
Conductor Casing: 13-3/8" @ 20'
Surface Casing: 9-5/8" @ 406'. Cmt'd to surface
Intermediate Casing: 7" @ 718'. Cmt'd to surface
Production Casing: 4-1/2" set @ 2,742'. Cmt'd to surface
Tubing: Undetermined. Records unavailable
Packer: Undetermined
Perforations: 1442' - 1467'
Elevation: 1,525'
Location: Lat: 38.466288° Long: -80.727697°

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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 exiting tubing.
5. RIH with 2-3/8" to ~ 1776' and circulate well with FW. Prepare to cement.
6. Mix/Pump 40 sx (~8.4- bbl. slurry) Class "A", 15.6# Cement. Displace plug with ~ 4.5 bbls to position 517' cement plug @ 1776' - 1259'.

Note: 6% gel water to be positioned between all plugs.

7. LD tubing to 770'. Prepare to cement.
8. Mix/Pump 65 sx (13.7- bbl. slurry) Class "A", 15.6# Cement from 770' - surface. POOH, ND, and top out as needed leaving top of cement at 10' to accommodate well monument.
9. RDMO.

Prepared by: Tim McGilvray

Date: 10-12-2019

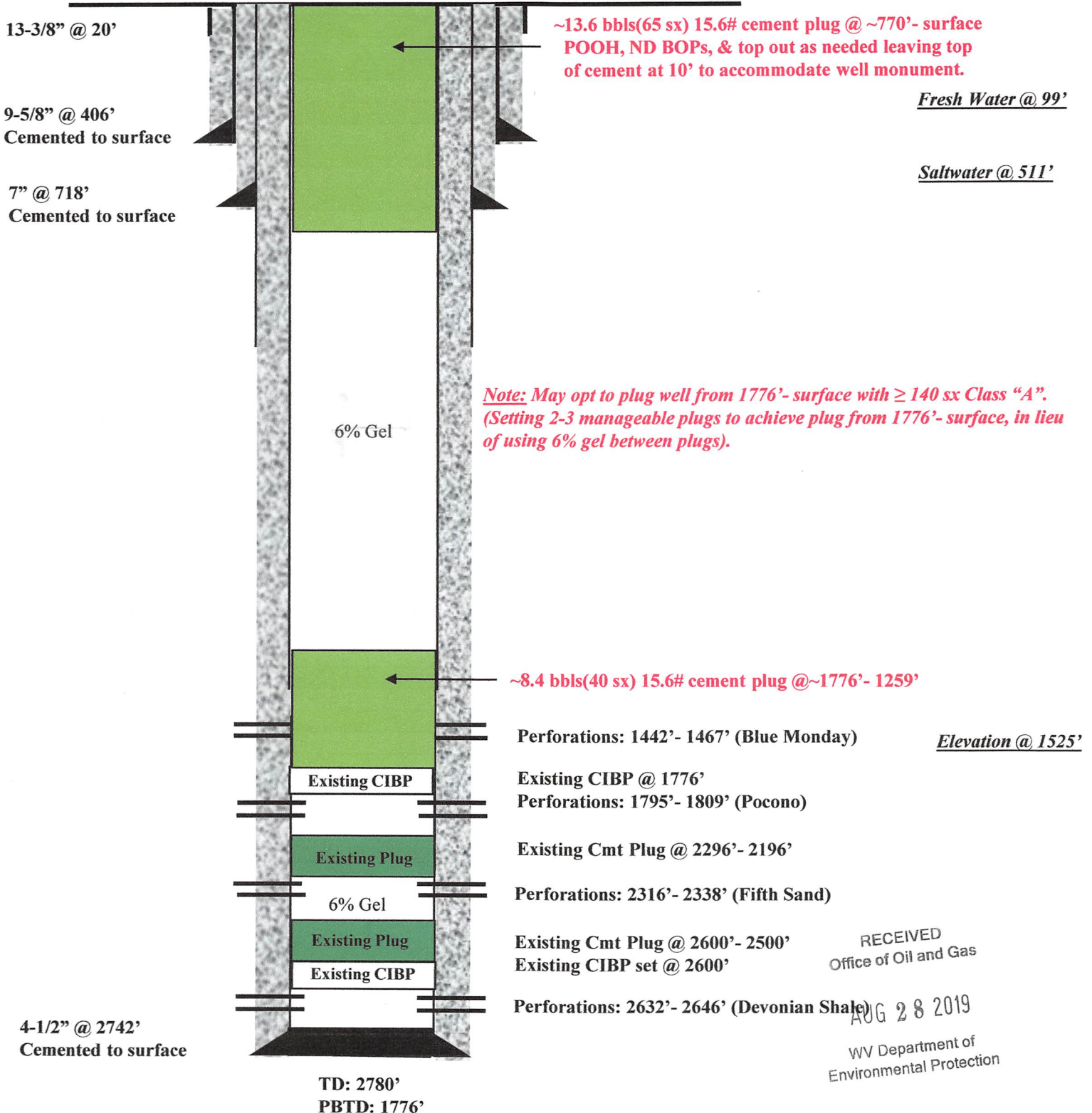
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**BRC Operating Company, LLC
Campbell #1
API No. 47-067-00876
Proposed Wellbore Schematic**

Prepared by: Tim McGilvray



WR-36

Date March 16, 2006
 API # 47-067-00876

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

Farm Name: George, Okey Lee Operator Well No.: Campbell #1

LOCATION: Elevation: 1525' Quadrangle: Tioga
 District: Hamilton County: Nicholas
 Latitude: 12320' feet South of 36° DEG. 30' MIN. 00" SEC.
 Longitude: 5600' feet West of 80° DEG. 42' MIN. 30" SEC.

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

Agent: Thomas S. Liberatore
 Inspector: Richard S. Campbell
 Permit Issued: 8/10/2005
 Well Work Commenced: October 29, 2005
 Well Work Completed: February 18, 2006
 Verbal Plugging: _____
 Permission granted on:
 Rotary X Cable _____
 Total Depth (feet) 2780' PBD 1776'
 Fresh Water Depths (ft) 99'
 Salt Water Depths (ft) 511'
 Is coal being mined in area (Y/N)? NO
 Coal Depths (ft) NONE REPORTED

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13-3/8"	20'	20'	
9-5/8"	406'	406'	192
7"	718'	718'	198
4-1/2"		2742'	283
PLUG BACK SHOWN ON BACK			

OPEN FLOW DATA

Producing Formation BLUE MONDAY Pay Zone _____
 Depth (ft) 1442'-1467'
 Gas: Initial Open Flow TSTM MCF/d Oil: Initial Open Flow 0 Bbl/d
 Final Open Flow 30 (COMMINGLED) MCF/d Final Open Flow 0 Bbl/d
 Time of open flow between initial and final tests 4 Hours
 Static rock pressure 300 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

WV Department of Environmental Protection

By: W. A. [Signature] Drilling Superintendent

Date: 5/26/06

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 MAY 26 2006
 WV Department of Environmental Protection

AUG 28 2019

NIC 087

STAGE	PERFS	ACID 15% HCl	FOAM	SAND (lbs)	NITROGEN (scf)	BDP	ATP	MTP	ISIP
1-Devonian Shale	2632-2646 (20)	250	75Q	41,300	375,800	2017	1907	2017	1633
2-Fifth Sand	2316-2338 (16)	250	75Q	24,100	218,000	1941	1788	1914	1651
3-Pocono	1795-1809 (28)	250	75Q	40,600	245,500	1600	1513	1600	1418
4-Blue Monday	1442-1467 (50)	500	75Q	46,400	281,000	1211	1663	1963	1854

FORMATION	TOP	BOTTOM	REMARKS
Siltstone	Surface	172	
Shale and Siltstone	172	300	
Sandstone and Shale	300	445	
Shale and Siltstone	445	755	
Sandstone	755	783	
Shale and Sandstone	783	947	
Shale	947	1115	
Maxton Sandstone	1115	1154	
Shale	1154	1293	
Siltstone	1293	1318	
Shale	1318	1355	
Little Lime	1355	1398	
Shale	1398	1424	
Blue Monday	1424	1468	
Big Lime	1468	1730	
Shale	1730	1751	
Pocono	1751	1814	
Shale	1814	2060	
Berea	2060	2062	
Shale	2062	2188	
Sandstone	2188	2195	
Shale	2195	2313	
Sandstone	2313	2338	
Shale	2338	2380	
Shale and Siltstone	2380	2696	
Siltstone and Shale	2696	2780	TD

PLUGGED BACK AS FOLLOWS:

2600' CIBP

2600'-2500' Class "A" cmt

2500'-2296' 6% Gel

2296'-2196' Class "A" cmt

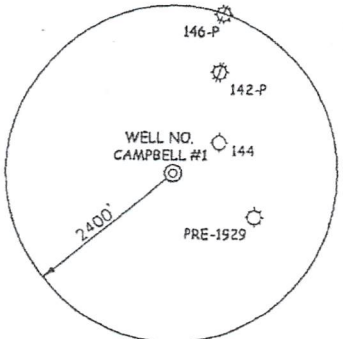
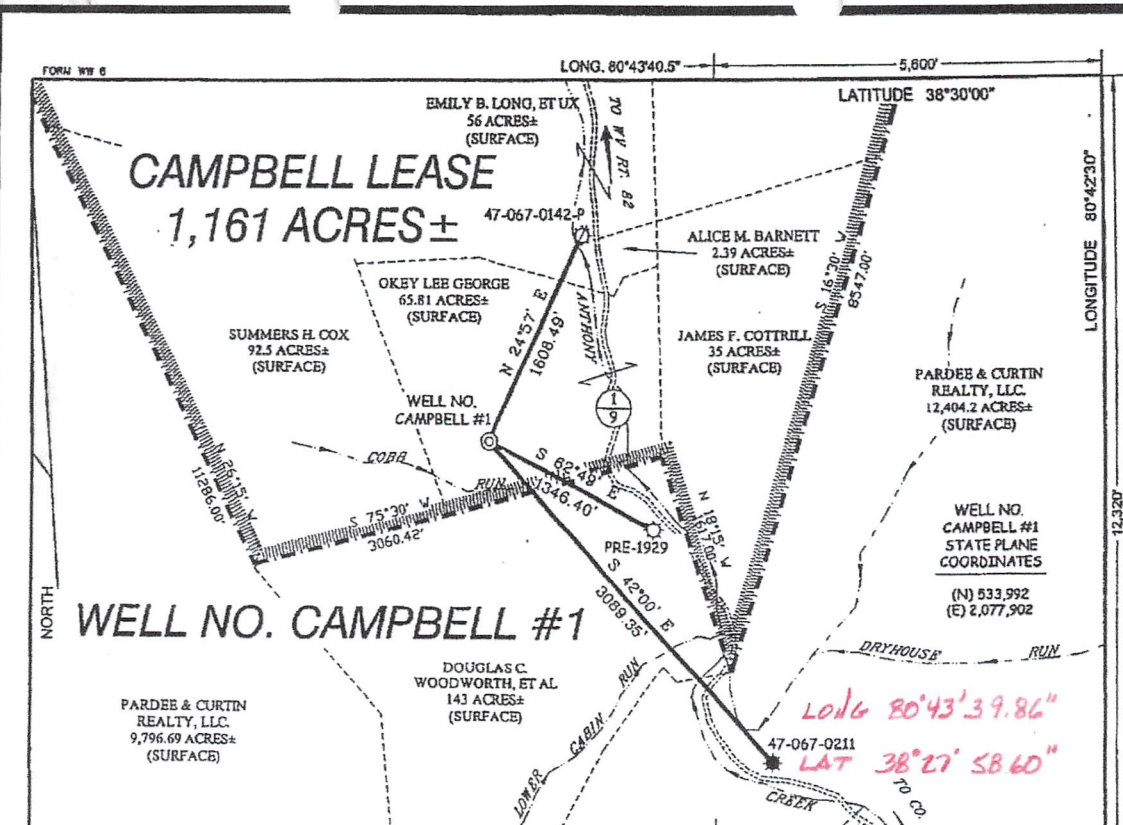
2196'-1776' Brine

1776' CIBP

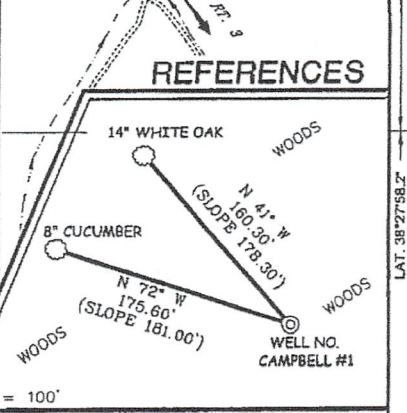
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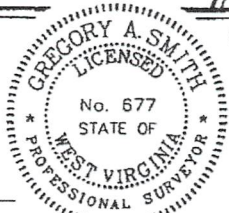


- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 05/31/05.
 3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 105 PAGE 501.
 4. SURFACE OWNER AND ADJOINER INFORMATION 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).



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. *Gregory A. Smith*
677



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JUNE 14, 20 05

OPERATORS WELL NO. CAMPBELL #1

API WELL NO. 47 - 67 - 00876

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 5770P1 (181-60)

PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 1,000'

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

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

LOCATION: ELEVATION 1,525' WATERSHED COBB RUN OF ANTHONY CREEK

DISTRICT HAMILTON COUNTY NICHOLAS QUADRANGLE TIOGA 7.5'

SURFACE OWNER OKEY LEE GEORGE ACREAGE 65.81±

ROYALTY OWNER ROBERT R. CAMPBELL, ET AL LEASE ACREAGE 1,161±

PROPOSED WORK: LEASE NO. 47-12431

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 DEVONIAN SHALE

ESTIMATED DEPTH 5,990'

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

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Office of Oil and Gas
AUG 25 2019
WV Department of Environmental Protection
COUNTY NAME
PERMIT 0876

47-067-00876P

WW-4A
Revised 6-07

1) Date: August 5, 2019
2) Operator's Well Number
Campbell #1
3) API Well No.: 47 - 067 - 00876

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

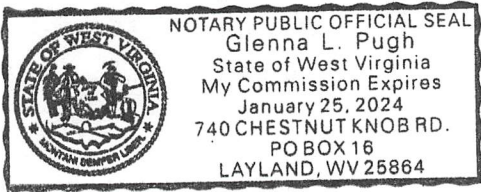
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>George Okey Lee & AE JA</u>	Name _____
Address <u>30999 Ridgeway Dr</u>	Address _____
<u>Walker, LA 70785</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Tioga Minerals LLC</u>
	Address <u>135 Corporate Center 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

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Office of Oil and Gas

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

AUG 28 2019
WV Department of Environmental Protection

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 _____

47-067-00876P

WW-9
(5/16)

API Number 47 - 067 - 00876
Operator's Well No. Campbell #1

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) Cobb Run of 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 _____)

ANY WELL EFFLUENT WILL BE CONTAINED IN TANKS & DISPOSED OF OFF-SITE. g.w.m

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 [Signature]

Company Official (Typed Name) Charles Brightman

Company Official Title Designated Agent

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WV Department of
Environmental Protection

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

My commission expires January 25, 2024



NOTARY PUBLIC OFFICIAL SEAL
Glenna L. Pugh
State of West Virginia
My Commission Expires
January 25, 2024
740 CHESTNUT KNOB RD.
PO BOX 16
LAYLAND, WV 25864

Proposed Revegetation Treatment: Acres Disturbed .5 Prevegetation pH _____

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

Fertilizer type 10-20-20 _____

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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Office of Oil and Gas

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WV Department of
Environmental Protection

Title: inspector OOG _____

Date: 8-28-19 _____

Field Reviewed? () Yes () No

NORTH

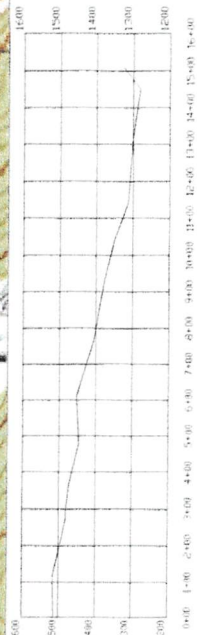
BRC OPERATING CO. LLC.
200 Crescent Court, Suite 200
Dallas, TX 75201

1" = 1000'
Tioga Quad

HUPP Surveying & Mapping

P.O. BOX 647 GRANISVILLE, WV 26147
PH: (304) 354-7035 E-MAIL: hupp@frontier.net

Form W-9



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Office of Oil and Gas

AUG 28 2019

WV Department of
Environmental Protection

BRC OPERATING CO., LLC.
CAMPBELL #1 (47-067-00876)

WW-7
8-30-06



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

API: 47-067-00876 WELL NO.: Campbell #1

FARM NAME: _____

RESPONSIBLE PARTY NAME: BRC Operating Company, LLC

COUNTY: Nicholas DISTRICT: Hamilton

QUADRANGLE: Tioga 7.5'

SURFACE OWNER: George Okey Lee & AE JA

ROYALTY OWNER: Robert Campbell & Mary Campbell

UTM GPS NORTHING: 4257586.75

UTM GPS EASTING: 523755.32 GPS ELEVATION: 1525

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

RESIDENT AGENT
Title

9/5/19
Date

WV Department of
Environmental Protection