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west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, January 17, 2020  
WELL WORK PLUGGING PERMIT  
Vertical Plugging

ROSS AND WHARTON GAS COMPANY, INC.  
RT. 5, BOX 29

BUCKHANNON, WV 262010000

Re: Permit approval for B-459  
47-033-02680-00-00

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: B-459  
Farm Name: VINCENT  
U.S. WELL NUMBER: 47-033-02680-00-00  
Vertical Plugging  
Date Issued: 1/17/2020

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## 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

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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 November 14, 2019  
2) Operator's  
Well No. George Vincent #B-459  
3) API Well No. 47-033 - 02680

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 1311' Watershed Tenmile Creek  
District Sardis County Harrison Quadrangle Wallace

6) Well Operator Ross & Wharton Gas Co. Inc. 7) Designated Agent Mike Ross  
Address 354 Morton Avenue Address P.O. Box 219  
Buckhannon, WV 26201 Coalton, WV 26257

8) Oil and Gas Inspector to be notified Name Sam Ward  
Address P.O. Box 2327  
Buckhannon, WV 26201  
9) Plugging Contractor Name N/A  
Address \_\_\_\_\_

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

Free point and recover casing's & tubular's

6% Gel between plug's

*PBTD ≈ 4000'*

Set cement plug 3750' to ~~TD (4040')~~ 100' above top perf

Set cement plug 1900' to 2050' gas show, Big Lime

Set 100' cement plug across casing cut,

Set cement plug 1200' to 1350' elevation plug and 8 5/8" casing plug

Set cement plug 150' to surface, groundwater protection plug, and surface plug

Tag plug's as necessary, Set monument with API number

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Office of Oil and Gas

JAN 10 2020

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

*S. J. Wharton*

Date

12/20/2019

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SEP 29 1983



IV-35  
(Rev 8-81)

Date December 11, 1981  
Operator's Well No. B-459  
Farm E.E.S. Rogers Estate  
API No. 47 - 033 - 2680

State of West Virginia  
OIL & GAS DIVISION  
DEPT. OF MINES  
Department of Mines  
Oil and Gas Division

Revised

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil    / Gas X / Liquid Injection X / Waste Disposal     
(If "Gas," Production    / Underground Storage    / Deep    / Shallow X /)  
LOCATION: Elevation: 1311' Watershed Tennile Creek  
District: Sardis County Harrison Quadrangle Wallace 7.5

COMPANY J & J Enterprise Inc. % Berry Energy Consultants & Mgrs.  
ADDRESS P.O. Box 5, Clarksburg, WVa. 26301  
DESIGNATED AGENT Same  
ADDRESS     
SURFACE OWNER E.E.S. Rogers Heirs  
ADDRESS Box 108 Lumberport WVa. 26386  
MINERAL RIGHTS OWNER George M. Vincent et al Rt. 1, Box 100A Lumberport, W.Va. 26386  
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casey, Rt. 2 Box 232-D ADDRESS Jane Lew, WVa., 26378  
PERMIT ISSUED October 17, 1981  
DRILLING COMMENCED 11-24-81  
DRILLING COMPLETED 12-4-81

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size <u>2000</u> <u>11-3/4</u> <u>Cond.</u>	<u>Pulled</u>		
<u>13-10"</u>			
<u>9 5/8</u>			
<u>8 5/8</u>	<u>1266.60</u>	<u>1266.60</u>	<u>To Surface</u>
<u>7</u>			
<u>5 1/2</u>			
<u>4 1/2</u>	<u>4029.45</u>	<u>4029.45</u>	<u>200 Sks.</u>
<u>3</u>			
<u>2</u>			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON   

GEOLOGICAL TARGET FORMATION Benson Depth 4900 feet  
Depth of completed well 4040 feet Rotary X / Cable Tools     
Water strata Depth: Fresh Damp @ 270' feet; Salt None feet  
Coal seam depths: 270-273 & 680-685' Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation BALLTOWN Pay zone depth 3898-3914' feet  
Gas: Initial open flow Trace Mcf/d Oil: Initial open flow N/A Bbl/d  
Final open flow 231,000 Mcf/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests    hours  
Static rock pressure 1575# psig (surface measurement) after 14 <sup>DAYS</sup> ~~HOURS~~ shut in  
(If applicable due to multiple completion--)  
Second producing formation    Pay zone depth    feet  
Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow    Mcf/d Oil: Final open flow    Bbl/d  
Time of open flow between initial and final tests    hours  
Static rock pressure    psig (surface measurement) after    hours shut in

(Continue on reverse side)

H.C.R. 2680  
Environmental Protection  
WV Department of

JAN 20 2020

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Office of Oil and Gas

NEW YORK

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Water Fraced: January 5, 1982

Balltown: 10,000, 80/100, 72,000, 20/40, 723 Bbls. water.

Perforations: 3898-3914 - 14 Holes, .41

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Cond.			0	12	
Sand			12	110	
Shale			110	150	
Sand			150	225	
Sandy Shale			225	270	
Coal			270	273	Hole Damp @ 270'
Sand			273	560	
Sand & Shale			560	680	
Coal			680	685	
Sand & Shale			685	1185	
Sand			1185	1270	
Sandy Shale			1270	1954	
Big Lime			1954	2048	Gas Ck @ 2010', 2/10 - 1" w/water
Sand			2048	2054	
Big Injun			2054	2096	Gas Ck @ 3701', 6/10 - 1" W/water
Sand & Shale			2096	2600	
Fifty Foot			2600	2650	
Sand			2650	2664	
Thirty Foot			2664	2682	
Shale			2682	2706	
Gordon Stray			2706	2720	
Sand			2720	2742	
Gordon			2742	2803	
Sand			2803	2812	
Fourth Sand			2812	2838	
Shale			2838	2884	
Fifth Sand			2884	2914	
Sand & Shale			2914	3605	
Speechly			3605	3610	
Sand & Shale			3610	3817	
Balltown			3817	3940	
Shale			3940	4040 TD	

(Attach separate sheets as necessary)

J. E. ENTERPRISES INC  
Well Operator

By: W. J. [Signature]  
Date: 6-16-82 9-19-83

Note: Regulation 2.02(i) provides as follows:  
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."

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 Office of Oil and Gas  
 JAN 10 1983  
 WV Department of  
 Environmental Protection





Select County: (033) Harrison

Enter Permit #: 02680

Reset

Select datatypes:  (Check All)

Location  Production  Plugging

Owner/Completion  Stratigraphy  Sample

Pay/ShowWater  Logs  Bin Hole Loc

Table Descriptions  
 County Code Translations  
 Permit Numbering Series  
 Usage Notes  
 Contact Information  
 Data Fields  
 WINGS Plus  
 Pipeline Plus New

Well: County = 33 Permit = 02680

Location Information: [View Map](#)  
 COUNTY PERMIT TAX DISTRICT QUAD 16 QUAD 16 LAT DD LON DD UTIME UTMN  
 4703302680 Harrison 2880 Sards Wallace Clarkburg 39.38306 -80.46051 546452.6 4359425.4

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SURFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN_OPERATOR	AT_COMPLETION	PROP_VD	PROP_TRGT_FM	TFM_EST_PR
4703302680	12/4/1981	Original Loc	Completed	E S Rogers Est	B-459				J & J Enterprises, Inc.				

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FIT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TUD	TMD	NEW_ITG	KOD	G_BEF	G_AFT	O_BEF	O_AFT	NQI_BEF	NQI_AFT	P_BEF	P_AFT	T_AFT	BH_P_BEF	BH_P_AFT
4703302680	12/4/1981	1/24/1981	1311	Ground Level	Brown-Lambertport	Balltown	Balltown	Development Well	Gas	Robby Fractured	4040	4040				0	231	0	0	0	0	0	0	0	0	0

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4703302680	12/4/1981	Pay	Gas	Vertical	3898	Balltown	3914	Balltown	0	231	0	0	0

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703302680	J & J Enterprises, Inc.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4703302680	J & J Enterprises, Inc.	1984	1,947	47	42	0	110	125	13	314	229	390	234	182	280
4703302680	J & J Enterprises, Inc.	1985	1,740	0	240	0	83	0	240	0	0	0	0	0	0
4703302680	J & J Enterprises, Inc.	1986	1,961	175	201	155	160	156	93	0	233	166	227	185	150
4703302680	J & J Enterprises, Inc.	1987	1,173	92	100	19	48	91	106	172	170	88	137	111	39
4703302680	Eastern American Energy Corp.	1988	1,447	158	228	142	173	159	160	310	117	0	0	0	0
4703302680	Eastern American Energy Corp.	1991	0	0	0	0	0	0	0	0	0	0	0	0	0
4703302680	Ross & Wharton Gas Co., Inc.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4703302680	Eastern American Energy Corp.	1994	221	0	0	0	55	65	47	38	16	0	0	0	0
4703302680	Ross & Wharton Gas Co., Inc.	1994	194												
4703302680	Ross & Wharton Gas Co., Inc.	1995	195												
4703302680	Ross & Wharton Gas Co., Inc.	1996	661												
4703302680	Ross & Wharton Gas Co., Inc.	1997	148												
4703302680	Ross & Wharton Gas Co., Inc.	1998	1,130												
4703302680	Ross & Wharton Gas Co., Inc.	2000	553												
4703302680	Ross & Wharton Gas Co., Inc.	2002	2												
4703302680	Ross, Mike	2003	2												
4703302680	Ross & Wharton Gas Co., Inc.	2008	60												
4703302680	Ross & Wharton Gas Co., Inc.	2009	60												
4703302680	Ross & Wharton Gas Co., Inc.	2010	0												
4703302680	Ross & Wharton Gas Co., Inc.	2011	0												
4703302680	Ross & Wharton Gas Co., Inc.	2013	0												
4703302680	Ross & Wharton Gas Co., Inc.	2014	0												
4703302680	Ross & Wharton Gas Co., Inc.	2016	0												
4703302680	Ross & Wharton Gas Co., Inc.	2017	0												
4703302680	Ross & Wharton Gas Co., Inc.	2018	60												

Production Oil Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703302680	J & J Enterprises, Inc.	1982	0	0	0	0	0	0	0	0	0	0	0	0	0
4703302680	J & J Enterprises, Inc.	1984	58												
4703302680	J & J Enterprises, Inc.	1985	184												
4703302680	J & J Enterprises, Inc.	1986	187												
4703302680	Eastern American Energy Corp.	1987	0												
4703302680	Eastern American Energy Corp.	1988	0												
4703302680	Eastern American Energy Corp.	1991	37												
4703302680	Ross & Wharton Gas Co., Inc.	1993	0												
4703302680	Ross & Wharton Gas Co., Inc.	1994	0												
4703302680	Ross & Wharton Gas Co., Inc.	1995	196												
4703302680	Ross & Wharton Gas Co., Inc.	1996	197												
4703302680	Ross & Wharton Gas Co., Inc.	1997	188												
4703302680	Ross & Wharton Gas Co., Inc.	1998	1,130												
4703302680	Ross & Wharton Gas Co., Inc.	2000	58												
4703302680	Ross & Wharton Gas Co., Inc.	2001	35												
4703302680	Ross & Wharton Gas Co., Inc.	2002	0												
4703302680	Ross & Wharton Gas Co., Inc.	2003	0												
4703302680	Ross & Wharton Gas Co., Inc.	2008	0												
4703302680	Ross & Wharton Gas Co., Inc.	2009	0												
4703302680	Ross & Wharton Gas Co., Inc.	2010	0												
4703302680	Ross & Wharton Gas Co., Inc.	2011	0												
4703302680	Ross & Wharton Gas Co., Inc.	2013	0												
4703302680	Ross & Wharton Gas Co., Inc.	2014	0												
4703302680	Ross & Wharton Gas Co., Inc.	2016	0												
4703302680	Ross & Wharton Gas Co., Inc.	2017	0												
4703302680	Ross & Wharton Gas Co., Inc.	2018	0												

Production NGL Information: (Volumes in Bbl) \*\* some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	AMN	NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703302680	Ross & Wharton Gas Co., Inc.	2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4703302680	Ross & Wharton Gas Co., Inc.	2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4703302680	Ross & Wharton Gas Co., Inc.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4703302680	Ross & Wharton Gas Co., Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	AMN	WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703302680	Ross & Wharton Gas Co., Inc.	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4703302680	Ross & Wharton Gas Co., Inc.	2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH	TOP_DEPTH	QUALITY	THICKNESS	THICKNESS	QUALITY	ELEV	DATUM
4703302680	Original Log	Undertuffed coal	Well Record	270	Reasonable	3	Reasonable	3	Reasonable	1311	Ground Level
4703302680	Original Log	Pittsburgh coal	CBM Drillers Pick	150	Reasonable	142	Reasonable	142	Reasonable	1311	Ground Level
4703302680	Original Log	Greenhanger Group	Well Record	1594	Reasonable	94	Reasonable	94	Reasonable	1311	Ground Level
4703302680	Original Log	Big Lime	Well Record	2054	Reasonable	42	Reasonable	42	Reasonable	1311	Ground Level
4703302680	Original Log	(unidir)	Well Record	2500	Reasonable	50	Reasonable	50	Reasonable	1311	Ground Level
4703302680	Original Log	Fifty-foot	Well Record	2664	Reasonable	18	Reasonable	18	Reasonable	1311	Ground Level
4703302680	Original Log	Thirty-foot	Well Record	2706	Reasonable	14	Reasonable	14	Reasonable	1311	Ground Level
4703302680	Original Log	Gordon Stray	Well Record	2742	Reasonable	61	Reasonable	61	Reasonable	1311	Ground Level
4703302680	Original Log	Gordon	Well Record	2812	Reasonable	26	Reasonable	26	Reasonable	1311	Ground Level
4703302680	Original Log	Fourth	Well Record	2884	Reasonable	30	Reasonable	30	Reasonable	1311	Ground Level
4703302680	Original Log	Fifth	Well Record	3605	Reasonable	5	Reasonable	5	Reasonable	1311	Ground Level
4703302680	Original Log	Specklely	Well Record	3817	Reasonable	123	Reasonable	123	Reasonable	1311	Ground Level

Wellline (E-Log) Information:

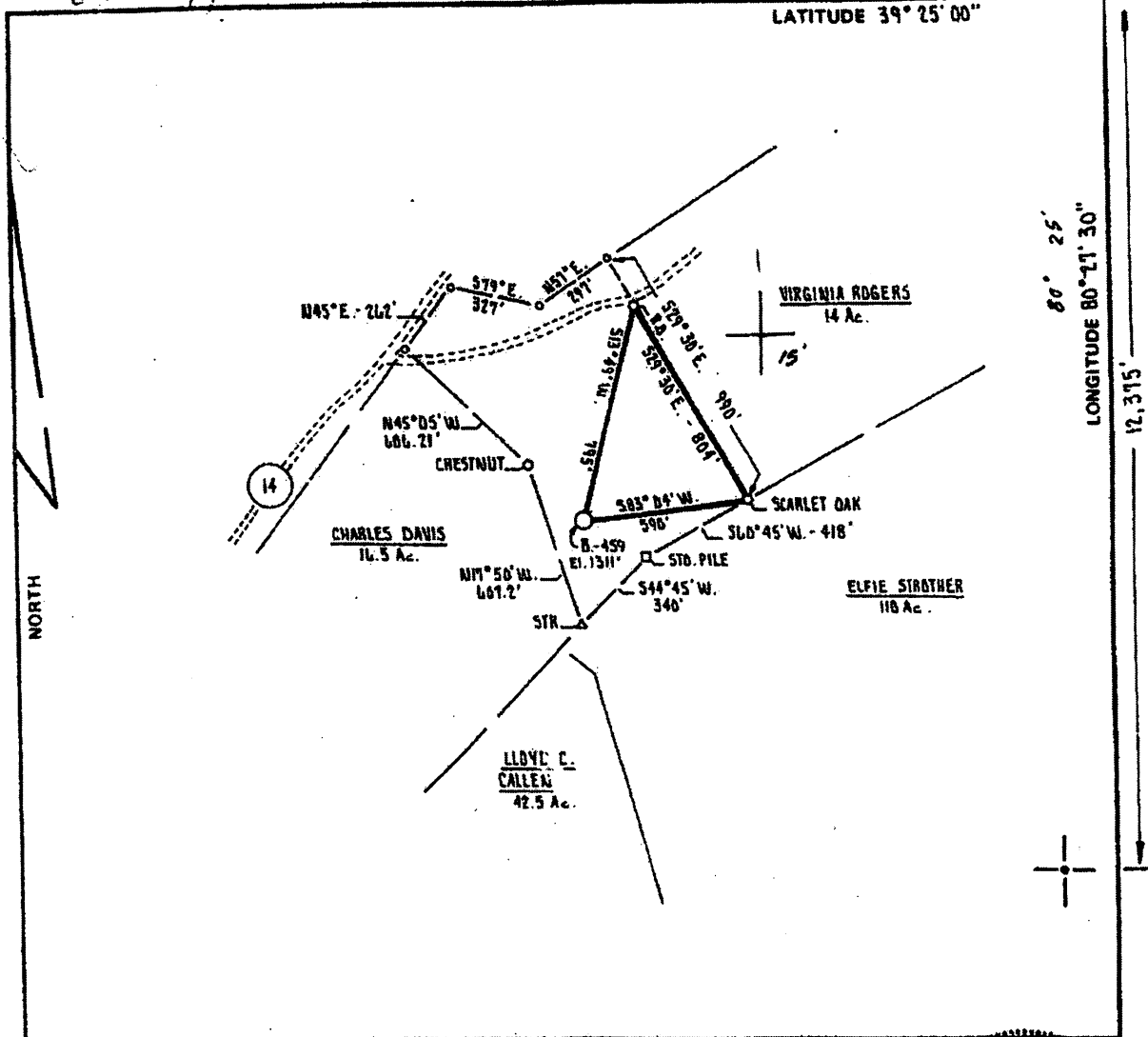
API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_MAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	L_TOP	L_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O_TOP	O_BOT	INCHZ	INCHZ	INCHZ	REDUCED	KOP	LOGMID	ELEV_KB	ELEV_GL	ELEV_DF	LOG_MSRD_FROM
4703302680	1893	4046					1893	4040	1900	1900	4046	4046																		

Downloadable Log Images: **We advise you to save the log images file to your PC for viewing.** To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)  
**geologic log types:**  
 d density (includes bulk density, compensated density, density porosity, grain density, matrix density, etc.)  
 e photoelectric absorption (P/E or Pe, etc.)  
 g gamma ray  
 h induction (includes dual induction, medium induction, deep induction, etc.)  
 i laterolog  
 m dipmeter  
 n neutron (includes neutron porosity, sidewall neutron-SMN, etc.)  
 o other<sup>1</sup>  
 s sonic or velocity  
 t temperature (includes borehole temperature, BHT, differential temperature, etc.)  
 z spontaneous potential or potential  
**mechanical log types:**  
 b cement bond  
 c caliper  
 o other<sup>1</sup>  
 p perforation depth control or perforate

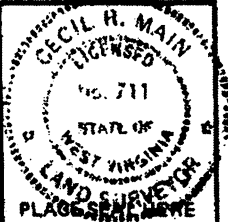
<sup>1</sup>other logs may include, but are not limited to, such curves as audio, bit size, CCL-casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL-Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well  
 There is no Sample data for this well



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION INTERSECTION (20) <sup>and</sup>  
(10) ELEV: 993'

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 MINES.  
 (SIGNED) Cecil H. Main  
 R.P.E. \_\_\_\_\_ L.L.S. 711



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE SEPTEMBER 21<sup>ST</sup> 19 81  
 OPERATOR'S WELL NO. B-459  
 API WELL NO. \_\_\_\_\_  
47 - 033 - 2680  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1311' WATERSHED TENMILE CREEK  
 DISTRICT SARDIS COUNTY HARRISON  
 QUADRANGLE WALLACE T.S.  
 SURFACE OWNER E.E.S. ROGERS ESTATE ACREAGE 17 Ac.  
 OIL & GAS ROYALTY OWNER GEORGE M. VINCENT, ET AL. LEASE ACREAGE 17 Ac.  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION BENSON ESTIMATED DEPTH 4800'  
 WELL OPERATOR J. AND J. ENTERPRISES, INC. DESIGNATED AGENT BERRY ENERGY CONSULTANTS AND MANAGERS, INC.  
 ADDRESS BERRY ENERGY CONSULTANTS AND MANAGERS, INC. ADDRESS SUITE 309 PROFESSIONAL BUILDING  
SUITE 309 PROFESSIONAL BLDG. : CLARKSBURG, W.Va. 26301 CLARKSBURG, WEST VIRGINIA 26301

WV Department of Environmental Protection

JAN 10 2020

RECEIVED  
 Office of Oil and Gas



WW-4A  
Revised 6-07

1) Date: November 14, 2019  
2) Operator's Well Number  
George Vincent #B-459  
3) API Well No.: 47 - 033 - 02680

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

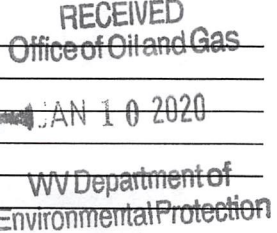
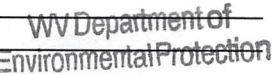
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>American Mountaineer Energy Inc. c/o Murray Energy Corp</u>	Name _____
Address <u>46226 National Rd. W</u>	Address _____
<u>St. Clairsville, OH 43950</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>N/A</u>
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	_____

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

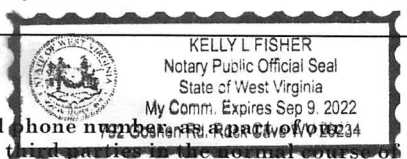
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverse 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	<u>Ross &amp; Wharton Gas Co, Inc.</u>	
By:	<u><i>Mike Ross</i></u>	
Its:	<u>President</u>	
Address	<u>354 Morton Ave.</u>	
Telephone	<u>304-472-4289</u>	
	<u>Buckhannon, WV 26201</u>	

Subscribed and sworn before me this 14<sup>th</sup> day of November, 2019  
Kelly L. Fisher Notary Public  
My Commission Expires September 9, 2022



**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number for 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).

WW-9  
(5/16)

API Number 47 - 033 - 02680  
Operator's Well No. \_\_\_\_\_

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

Operator Name Ross & Wharton Gas Co. Inc. OP Code 306580

Watershed (HUC 10) Tenmile Creek Quadrangle Wallace

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

ANY WELL EFFLUENT MUST BE CONTAINED IN TANKS AND DISPOSED OF OFFSITE. JWA

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 \_\_\_\_\_)

SDW  
12/20/2019

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JAN 10 2020

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

WV Department of Environmental Protection

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

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

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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 Mike Ross

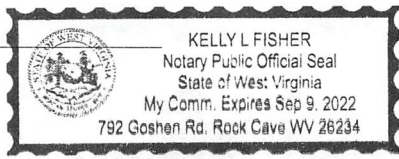
Company Official (Typed Name) Mike Ross

Company Official Title President

Subscribed and sworn before me this 14<sup>TH</sup> day of November, 20 19

Kelly L. Fisher Notary Public

My commission expires September 9, 2022



Proposed Revegetation Treatment: Acres Disturbed 1 Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	30	Fescue	30
Contractor's Mix		Contractor's Mix	

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: [Signature]

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

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Title: COG Inspector Date: 12/20/2019

Field Reviewed? ( ) Yes ( X ) No



N/A

47-033-02680P

WW-9- GPP  
Rev. 5/16

Page 2 of 2  
API Number 47 - 033 - 02680  
Operator's Well No. \_\_\_\_\_

N/A

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

No material will be used

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

N/A

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

N/A

Signature: Wick Ross

Date: 11-14-19

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N/A

47-033-02680 P

WW-9- GPP  
Rev. 5/16

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API Number 47 - 033 - 02680  
Operator's Well No. \_\_\_\_\_

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

Operator Name: Ross & Wharton Gas Co. Inc.  
Watershed (HUC 10): Tenmile Creek Quad: Wallace  
Farm Name: \_\_\_\_\_

- 1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

N/A

- 2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

N/A

- 3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Tenmile Creek

- 4. Summarize all activities at your facility that are already regulated for groundwater protection.

N/A

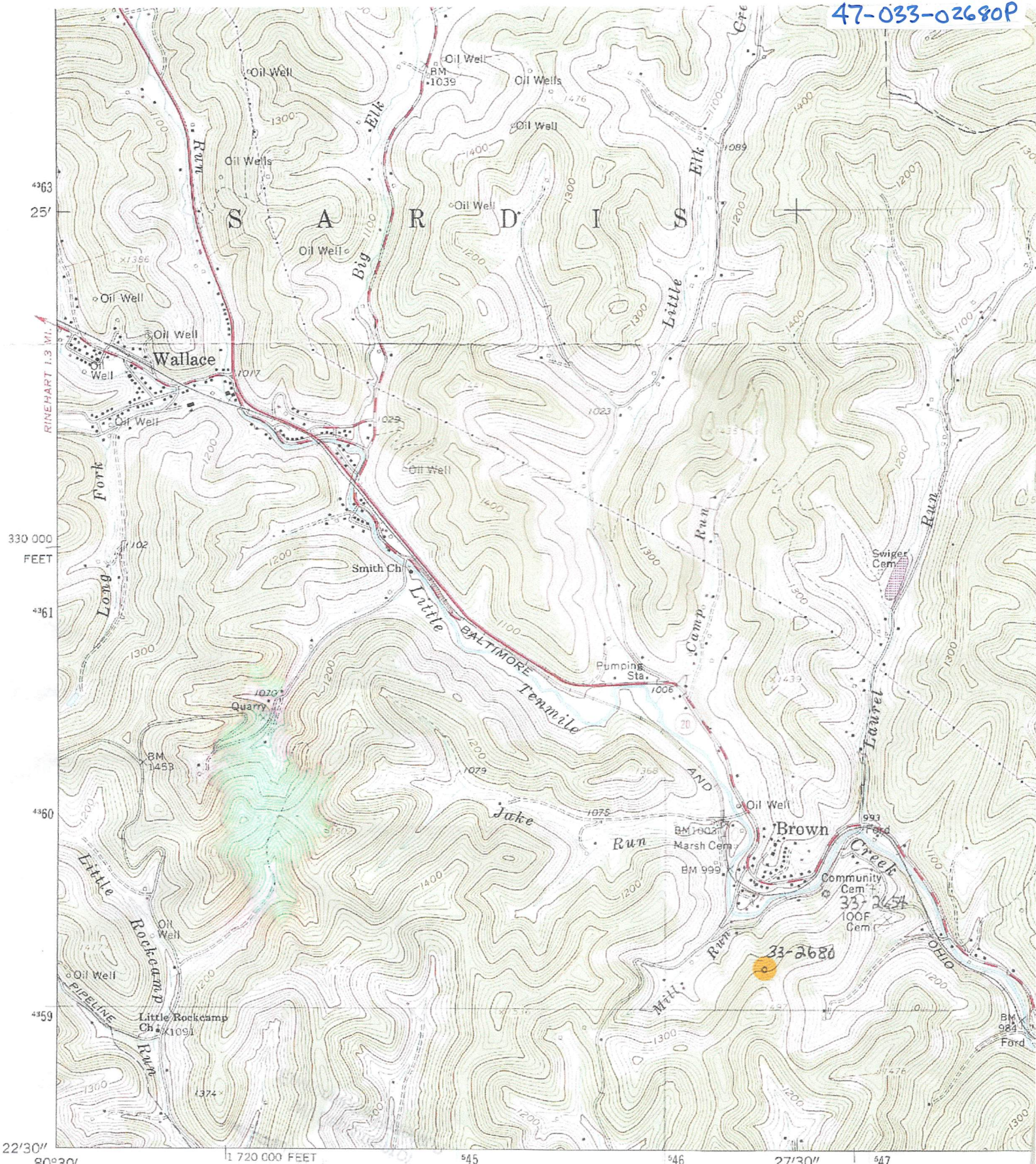
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JAN 10 2020

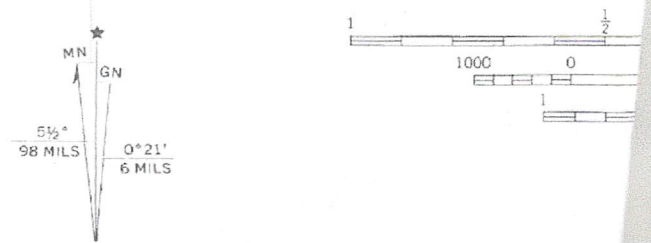
- 5. Discuss any existing groundwater quality data for your facility or an adjacent property.

WV Department of  
Environmental Protection





Mapped, edited, and published by the Geological Survey  
 Control by USGS and USC&GS  
 Topography by photogrammetric methods from aerial  
 photographs taken 1957. Field checked 1960  
 Polyconic projection. 1927 North American datum  
 10,000-foot grid based on West Virginia coordinate system,  
 north zone  
 1000-meter Universal Transverse Mercator grid ticks,  
 zone 17. shown in blue



22°30'  
 80°30'

1 720 000 FEET 545 546 27'30" 547

4363  
 25'  
 RINEHART 1:3 MIL.  
 330 000  
 FEET  
 4361  
 4360  
 4359  
 22'30"



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-033-02680 WELL NO.: B-459

FARM NAME: George Vincent

RESPONSIBLE PARTY NAME: Mike Ross

COUNTY: Harrison DISTRICT: Sardis

QUADRANGLE: Wallace

SURFACE OWNER: American Mountaineer Energy Inc. c/o Murray Energy Corp

ROYALTY OWNER: George Vincent et. ux.

UTM GPS NORTHING: 4359425.4

UTM GPS EASTING: 546462.6 GPS ELEVATION: 1311'

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.

Signature

President

Title

11-14-2019

Date

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JAN 10 2020

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Environmental Protection