



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

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Monday, December 11, 2017
WELL WORK PERMIT
Vertical / Plugging

CONSOL GAS COMPANY
1000 CONSOL ENERGY DRIVE

CANNONSBURG, PA 163176506

Re: Permit approval for 10917
47-001-00355-00-00

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

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

James A. Martin
Chief

Operator's Well Number: 10917
Farm Name: McCAULEY, EDNA
U.S. WELL NUMBER: 47-001-00355-00-00
Vertical / Plugging
Date Issued: 12/11/2017

Promoting a healthy environment.

12/15/2017

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 _____, 2017
2) Operator's
Well No. 10917
3) API Well No. 47-001 - 00355

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 x or Underground storage ____) Deep ____ / Shallow x

5) Location: Elevation 440.6m = 1445.53ft Watershed Tygart Valley River
District Pleasant County Barbour Quadrangle Philippi

6) Well Operator Consol Gas Company 7) Designated Agent Christopher Turner
Address 1000 Consol Energy Drive Address P.O. Box 1248
Canonsburg, PA 15317 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified Name Kenneth Greynolds
Address 613 Broad Run Road
Jane Lew WV 26378
9) Plugging Contractor Name Coastal Drilling East LLC
Address 70 Gums Springs Road
Morgantown, WV 26508

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

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

Work order approved by inspector [Signature] Date 10-27-17

Plugging Work Order for Permit 47-001-00355**CNX Gas – McCauley 7116****TD-4030'****Elevation- 1438'****Original Drill Date 6/27/1967**

1. Install control head.
2. Check TD 4030', well is perforated 3936'-3942' in Riley.
3. Load hole with gel for well control as necessary.
4. Confirm CT of 4-1/2" production casing.
5. TIH w/1-1/2" workstring and set bottom cement plug from TD to TOC.
6. Cut 4-1/2" casing at TOC
7. Remove 4-1/2" casing.
8. TIH w/workstring to 4-1/2" casing cut and place 100' cement plug across cut.
9. TOOH workstring to 1538' and place 200' cement plug from 1538' to 1338'
10. TOOH 1-1/2" workstring
11. Attempt to pull 8-1/4" casing.
 - Well records indicated 8-1/4" is CTS
 - If unable to pull 8-1/4" casing, confirm cement and perforate if necessary
12. TIH 1-1/2" workstring, set 100' cement plug across 8-1/4" casing shoe. (~896')
13. TOOH to 100' and CTS.
14. Install 6" x 14' monument (10' below grade, 4' above grade) API 47-001-00355

Work Order approved by Inspector *Amel C. Jayvee* Date: 10-27-17

Note: All cement will be Class A. All spacers between plugs will be 6% gel.



COVER COAL @ 342 - 346 AND 410 - 415
WITH 150' CLASS A CEMENT FROM 450' - 300'
JMM

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12/15/2017



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary ~~XXX~~
Spudder
Cable Tools
Storage

Quadrangle PHILIPPI
Permit No. BAR-355

WELL RECORD

Oil or Gas Well Gas
(KIND)

Company Consolidated Gas Supply Corporation
Address Clarksburg, W. Va.
Farm Edna McCauley Acres 73.94
Location (waters) _____
Well No. 10917 Elev. 1138'
District Elegant County Barbour
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced 6-21-67
Drilling completed 6-27-67
Date Shot Not shot From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 41 M Cu. Ft.
Rock Pressure 1430 lbs. 18 hrs.
Oil None bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) No
WELL FRACTURED (DETAILS) 8-2-67 With 400 gal mud acid, 55,000# sand, 800# glass beads and 806 bbl water.
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 823 M
ROCK PRESSURE AFTER TREATMENT 11 days 1400#
Fresh Water 38' Feet Salt Water 1640' Feet
Producing Sand Riley Depth 4229-52'

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13	19	19	
10			Size of
8 1/4	896	896	
6 5/8			Depth set
5 3/16			
4 1/2	4030	4030	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record. 8" cemented with 47 bags
CASING CEMENTED SIZE No. Ft. Garaton Date
Amount of cement used (bags) 4 1/2" with 100 bags-Dowell
Name of Service Co. Dowell & Garaton
COAL WAS ENCOUNTERED AT 342 FEET 48 INCHES
410 FEET 60 INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Shale			9	30			
Sand			30	342	Water	38'	Show
Coal			342	346			
Sand & Shale			346	410			
Coal			410	415			
Sand & Shale			415	1275			
BIG LIME & BIG INJUN			1275	1465			
Shale			1465	1490			
Gantz			1490	1650	Water	1640'	
Sand & Shale			1650	2230			
Fifth Sand			2230	2260			
Sand & Shale			2260	4295	Gas	Riley 3932-39'	
BENSON	Riley 3839-3952'		4295	4325			

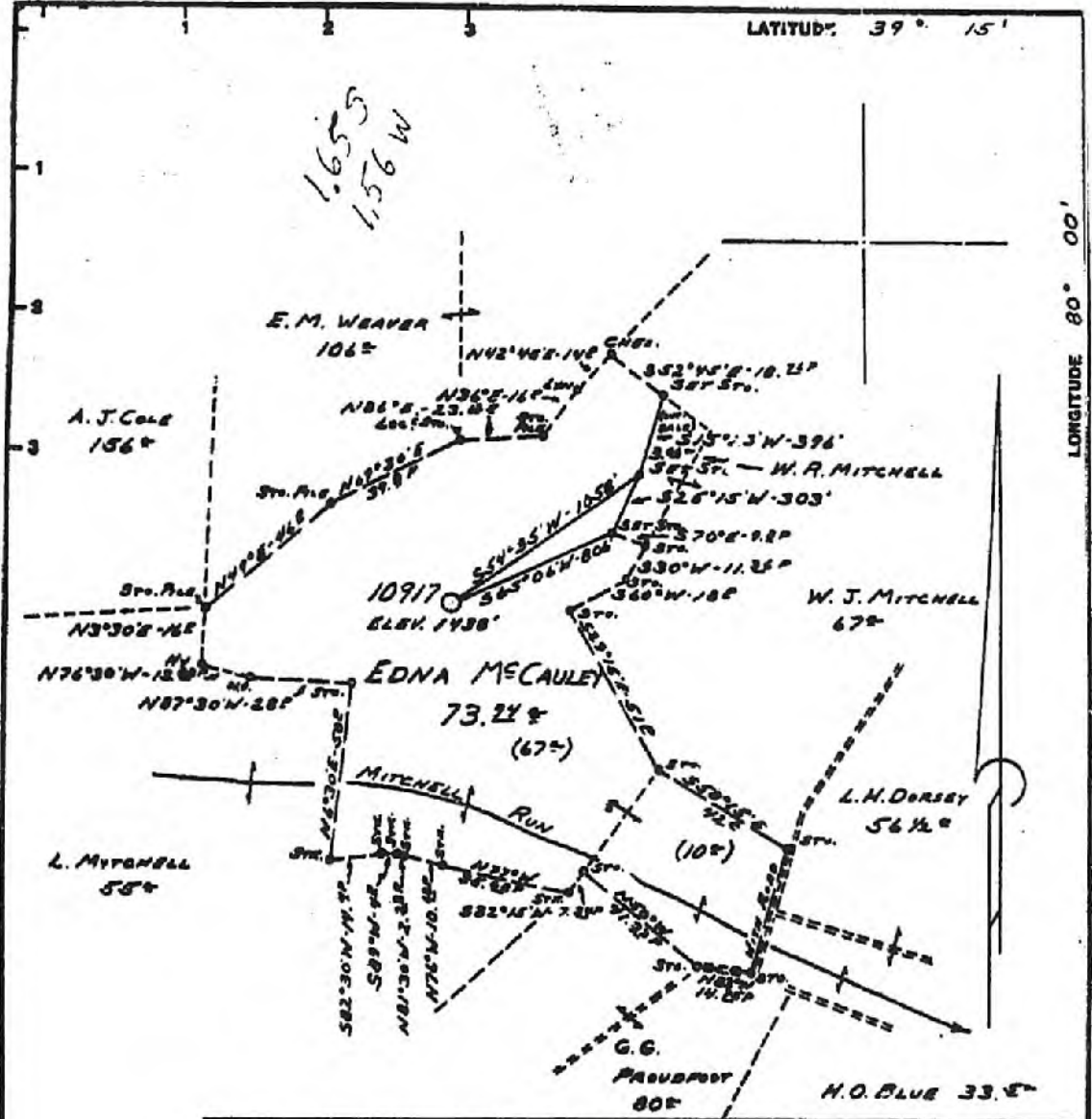
TOTAL DEPTH 4420'

Measurements taken from Kelly Bushing 9' above ground level.



Consolidated Gas Supply Corporation
145 West Main Street
Clarksburg, W. Va.

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Minimum Error of Closure 1" IN 300'
 Source of Elevation A.M. CHISELED SQUARE ON CULVERT HEAD WALL ALONG
W.VA. STATE RD 1014 (PHILIPPI 7 1/2' TOPO MAP) ELEV. 1386'
 "I, the undersigned, hereby certify that this map is correct to the best of my knowl-
 edge and belief and shows all the information required by paragraph 6 of the rules
 and regulations of the oil and gas section of the mining laws of West Virginia."

New Location
 Drill Deeper
 Abandonment

MAP SHEET 42-A 5-17, E-32 FD. 1443 PG. 10-11 & 16

Company CONSOLIDATED GAS SUPPLY CORP.
 Address CLARKSBURG, W.VA.
 Farm EDNA MCCAULEY
 Tract Acres 73.24 Lease No. 73260
 Well (Farm) No. 10917 Serial No. 10917
 Elevation (Spirit Level) 1438'
 Quadrangle PHILIPPI N.E.
 County BARBOR District PLEASANT
 Engineer JACOB M. JACOB
 Engineer's Registration No. 2397
 File No. _____ Drawing No. _____
 Date 5-22-67 Scale 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. BAR-355

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

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WW-4A
Revised 6-07

1) Date: _____
2) Operator's Well Number
10917

3) API Well No.: 47 - 001 - 00355

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>Randall L. McCauley</u>	Name <u>Sentinel Mine</u>
Address <u>2621 Arden Rd.</u>	Address <u>RT3, Box 146</u>
<u>Phillippi, WV 26416</u>	<u>Phillippi, WV 26416</u>
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>See attached</u>
(c) Name _____	Address _____
Address _____	Name _____
	Address _____
6) Inspector <u>Kenneth Greynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Road</u>	Name <u>N/A</u>
<u>Jane Lew WV 26378</u>	Address _____
Telephone <u>304-206-6613</u>	Address _____

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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.

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
 Douglas E. Smith, Notary Public
 Cecil Twp., Washington County
 My Commission Expires Dec. 6, 2020
 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Well Operator Consol Gas Company
 By: Raymond Hoon
 Its: Permitting Supervisor
 Address 1000 Consol Energy Drive
Canonsburg, PA 15370
 Telephone 724-485-3540

Subscribed and sworn before me this 19th day of October, 2017
Douglas E. Smith Notary Public
 My Commission Expires 12-6-2020

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 depprivacyofficer@wv.gov.

WW-4A Attachment

McCauley 10917 API# 47-001-00355

Coal Owner(s):

HCC Investments, Inc.
c/o Wilmington Securities, Inc.
100 West Commons Blvd., Ste. 303
New Castle, DE 19720

CoalQuest Development LLC
300 Corporate Centre Drive
Scott Depot, WV 25560

Randall L. McCauley
2621 Arden Rd.
Philippi, WV 26416

Gary D. McCauley
247 Proudfoot Road
Philippi, WV 26416

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WW-9
(5/16)

47-001-00355P

API Number 47 - 001 - 00355
Operator's Well No. _____

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

Operator Name Consol Gas Company OP Code 494495754

Watershed (HUC 10) Tygart Valley River Quadrangle Philippi

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 Waste Management or Ryan Environmental will use vacuum trucks, and properly dispose of any fluid or waste returns)

Will closed loop system be used? If so, describe: no

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

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

Additives to be used in drilling medium? na

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

-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 *Raymond Hoon*

Company Official (Typed Name) Raymond Hoon

Company Official Title Permitting Supervisor

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Environmental Protection

Subscribed and sworn before me this 19th day of October, 20 17

Douglas E. Smith Notary Public

My commission expires 12-6-2020

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Douglas E. Smith, Notary Public
Cecil Twp., Washington County
My Commission Expires 12-6-2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Operator's Well No. _____

Proposed Revegetation Treatment: Acres Disturbed less than 1 acre Prevegetation pH _____

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch hay or straw 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
Tall Fescue	40
Landino Clover	5

Seed Type	lbs/acre
Tall Fescue	40
Landino Clover	5

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: RECLAIM, SEED & MULCH ASAP

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Title: OIL & GAS INSPECTION Date: 10-27-17

Field Reviewed? () Yes () No

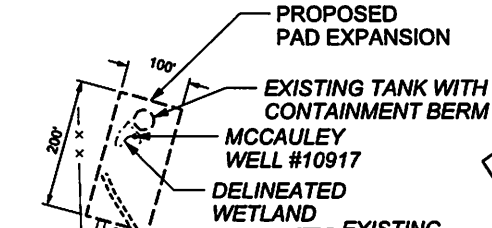
THIS PLAN IS FOR THE PLUGGING OF AN EXISTING WELL.
THE ENTIRE LENGTH OF ACCESS IS EXISTING WELL ROAD.
STONE WILL BE ADDED WHERE NECESSARY.



01-09- 15-0004-0000-0000
MCCAULEY RANDALL L

LOCATION IN MEADOW / PASTURE

ACCESS ROAD 8' WIDTH
-4.0% TO +14.5%, ~3,705 L.F.



EXISTING GAS METERS (4)

EXISTING GATE

EXISTING FENCE

UNT TO MITCHELL RUN

01-09- 15-0004-0001-0000
ROSIER JOHN C JR & KRIS T HWS

EXISTING 16" CULVERT (CCP)

UNT TO MITCHELL RUN

EXISTING MCCAULEY WELL ACCESS ROAD (TYP. WIDTH: 8')

01-09-15-0005-0000-0000
KENNEDY WILLIAM MICHAEL

01-09- 15-0021-0003-0000
MCCAULEY BARTON J

ACCESS ROAD ENTRANCE

PROUDFOOT ROAD (CR 6/6)

01-09- 15-0021-0002-0000
MCCAULEY RANDALL L

01-09-15-0003-0000-0000
KENNEDY WILLIAM M

1:300 9/28/2017 10:42:20 AM K:\ICNX Waynesburg\1716047 - McCauley Well Plug\Plans\SITE PLAN\McCauley Site Plan.dgn

SCALE: 0 300 ft.

DRAWINGS TO ACCOMPANY FORM RECEIVED
Office of Oil and Gas

CONSOL GAS COMPANY

1000 CONSOL ENERGY DRIVE

CANONSBURG, PA 15317

NOV - 1 2017
WV Department of Environmental Protection

WATERSHED: TYGART VALLEY

DISTRICT: PLEASANT COUNTY: BARBOUR

QUADRANGLE: PHILIPPI WELL NO.: 10917

DATE: 9/18/2017

12/15/2017



K:\CNX\Waynesburg\1716047 - McCauley Well Plug\Common\SITE LOCATION MAP (MIM-109).dgn 11:58 PM 9/22/2017

REFERENCES: IMAGERY PROVIDED BY USGS; PHILIPPI QUADRANGLES; STATE 7.5 MINUTE SERIES

SCALE: 0 2000 ft.

SITE LOCATION MAP RECEIVED Office of Oil and Gas
 made for NOV - 1 2017
CONSOL GAS COMPANY
MCCAULEY #10917 WELL PLUG
 Barbour County, West Virginia WV Department of Environmental Protection
 prepared by
DIEFFENBAUCH & HRITZ, LLC
 1095 Chaplin Rd Suite 200, Morgantown, WV 26501
 Phone: 304-985-5555 Fax: 304-985-5555

48/15/2017

WW-7
8-30-06



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

API: 47-001-00355 WELL NO.: 10917

FARM NAME: McCauley

RESPONSIBLE PARTY NAME: Raymond Hoon

COUNTY: Barbour DISTRICT: Pleasant

QUADRANGLE: Philippi

SURFACE OWNER: Randall L McCauley

ROYALTY OWNER: _____

UTM GPS NORTHING: 4342351.103

UTM GPS EASTING: 583834.834 GPS ELEVATION: 440.6m = 1445.53ft

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 X: Post Processed Differential _____

Real-Time Differential X

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

Permitting Supervisor
Title

10-19-17
Date

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September 26, 2017

DRIVING DIRECTIONS FOR 10917

McCauley Well Site

From I-79 use exit 132 and follow US-250 South to US-119/US-250 Junction. Turn right onto US-119 S/US-250 S and follow 8.0 miles to Arden Road. Turn left onto Arden Road (CR-6) and follow for 2.4 miles. Turn left onto Proudfoot Road (CR-6/6) for 0.8 miles. Turn left onto Chadwick Drive and continue straight for 0.1 mile, then turn right and follow to well site.

Nearest Fire Station: Philippi City Fire Department – Philippi, WV

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