



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

Friday, September 20, 2019
WELL WORK PLUGGING PERMIT
Vertical Plugging

CORE APPALACHIA OPERATING LLC
414 SUMMERS STREET

CHARLESTON, WV 25301

Re: Permit approval for 8126
47-045-00404-00-00

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: 8126
Farm Name: TCO FEE TR 4
U.S. WELL NUMBER: 47-045-00404-00-00
Vertical Plugging
Date Issued: 9/20/2019

Promoting a healthy environment.

Σ

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date July 22, 2019
2) Operator's Well No. 808126
3) API Well No. 47-045 - 00404 P

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 255.43 m Watershed Hoover Fork of Big Harts Creek
District Guyan County Logan Quadrangle Trace

6) Well Operator Core Appalachia Operating, LLC 7) Designated Agent Jessica Greathouse
Address P.O. Box 6070 Address P.O. Box 6070
Charleston, WV 25362 Charleston, WV 25362

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Jeffery L. Smith Name R & J Well Service, Inc.
Address 5349 Karen Circle, Apartment #2101 Address P.O. Box 40
Cross Lanes, WV 25313 Hueysville, KY 41640-0040

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

SEE ATTACHED SHEET

RECEIVED
Office of Oil and Gas
JUL 24 2019
WV Department of
Environmental Protection

OK 7/24/19

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

Work order approved by inspector _____ Date _____

PLUGGING PROCEDURE

808126

LOGAN COUNTY, WEST VIRGINIA

API# 47-045-00404

BY: JAM

DATE: 7/18/2019

Current Status**Csg Schedule**

- 8 5/8" @ 193'
- 7" @ 1345'
- TD @ 3,165'

Completion

- Not Shot

Coal @ 55'- 58'

Fresh Water @ 22', 205'

Oil Show @ no shows

Gas Show @ 1517', 1628', 2925', 3000', 3160', 3165'

Elevation 821'

Objective: Plug and abandon

- 1) Prepare road and location.
- 2) MIRU service rig and support equipment.
- 3) Blow well down. Check TD.
- 4) TIH w/ tbg to 2925'. Load hole w/ 6% bentonite gel to 2925'. Pump 100' C1A cement plug from 2925' to 2825'
- 5) TOOH w/ tbg to 2825'. Pump 6% bentonite gel from 2825' to 1628'
- 6) TOOH w/ tbg to 1628'. Pump 161' C1A cement plug from 1628'- 1467'
- 7) TOOH w/ tbg to 1528'. Pump 6% bentonite gel from 1467' to 1395'
- 8) TOOH w/ tbg to 1395'. Pump 100' C1A cement plug from 1395'- 1295'
- 9) TOOH w/ tbg. Free point 7" csg. Shoot or rip csg at free point. TOOH w/ 7" csg. A 100' C1A cement plug must be set across csg cut. Any plugs below that will remain behind 7" csg must be shot or ripped at bottom of plug and then every 50' through plug.
- 10) TIH w/ tbg to 1295'. Pump 6% bentonite gel 1295'- 821'
- 11) TOOH w/ tbg to 821'. Pump 100' C1A cement from 821'- 721'
- 12) TOOH w/ tbg to 721'. Pump 6% bentonite gel from 721'- 255'
- 13) TOOH w/ tbg. Free point 8 5/8" csg. Shoot or rip csg at free point. TOOH w/ 8 5/8" csg. Any plugs below that will remain behind 8 5/8" csg must be shot or ripped at bottom of plug and then every 50' through plug.
- 14) TIH w/ tbg to 255'. Pump 255' C1A cement plug from 255' to surface
- 15) Pull work string and top off w/cement.
- 16) Erect permanent monument (30" minimum height and 6" minimum diameter pipe) with API # (1/2" height numbering) and reclaim.

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47-045-00404P

UNITED FUEL GAS COMPANY

SERIAL WELL NO. 8126 PI

LEASE NO.

MAP SQUARE 32-31

COMPANY 65A
32270 23A
32271 23A
No Ref 116 A

RECORD OF WELL NO. 8126 PI on the	CASING AND TUBING				NO SHOT ^{NATURAL} TEST BEFORE SHOT
U Co. Et AL Fee farm of 236 Acres	SIZE	WEIGHT	USED IN DRILLING	LEFT IN WELL	85 /10 of Water in 7" 20" inch
in Chapmansville District	10-3/4"	40#	8'	8'	/10 of Merc. in _____ inch
Logan County	8-5/8"	24#	197'	197'	Volume 4.042 MCF Cu. ft.
State of: West Virginia	7"	20#	1345'	1345'	TEST AFTER SHOT
Field: Branchland					/10 of Water in _____ inch
Rig Commenced By Contractor 19					/10 of Merc. in _____ inch
Rig Completed By Contractor 19					Volume _____ Cu. ft.
Drilling Commenced July 26, 1954					Hours After Shot _____
Drilling Completed October 8, 1954					Rock Pressure 12 Hr. 450#
Drilling to cost per foot					Date Shot _____
Contractor is: R. H. Adkins					Size of Torpedo _____
Address: Hamlin, W. Va.	SHUT IN				Oil Flowed _____ bbls. 1st 24 hrs.
	Date 10-8-54				Oil Pumped _____ bbls. 1st 24 hrs.
Driller's Name James Davis	7" in. Casing	Tubing or Casing			
Marvin Egnor	Size of Packer 7" X 8-1/4"	Well abandoned and			
	Kind of Packer Bottom Hole	Plugged _____ 19			
	1st Perf. Set _____ from _____				
Elevation: 821.25'	2nd Perf. Set _____ from _____				

DRILLER'S RECORD

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Sand & Gravel	0	7	7	
Sand	7	35	28	Water @ 22' - Hole full
Slate	35	55	20	
Coal	55	58	3	
Slate	58	198	140	
Sand	198	225	27	Water @ 205' - Hole Full
Slate & Shells	225	375	150	
Sand	375	440	65	
Slate & Shells	440	540	100	
Sand	540	585	45	
Slate & Shells	585	620	35	
Salt Sand	620	700	80	
Broken Sand	700	845	145	
Slate & Shells	845	1000	155	
Sand	1000	1188	188	
Slate & Shells	1188	1260	72	
Maxon Sand	1260	1290	30	

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WV Department of
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WW-4A
Revised 6-07

1) Date: July 22, 2019
2) Operator's Well Number 808126

3) API Well No.: 47 - 045 - 00404

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

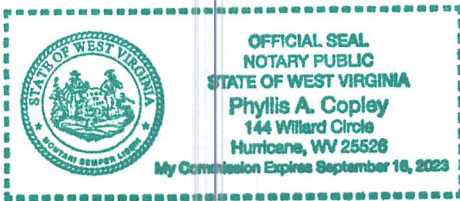
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Millard and Bethal Mullins</u>	Name <u>None</u>
Address <u>102 Millard Mullins Drive</u>	Address _____
<u>Harts, WV 25524</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Southern Region Industrial, Inc.</u>
_____	Address <u>Three Commercial Place</u>
_____	<u>Norfolk, VA 23510</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Jeffery L. Smith</u>	(c) Coal Lessee with Declaration
Address <u>5349 Karen Circle, Apartment #2101</u>	Name <u>Lexington Coal Company</u>
<u>Cross Lanes, WV 25313</u>	Address <u>P.O. 58370</u>
Telephone <u>681-313-6743</u>	<u>Charleston, WV 25358</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 Core Appalachia Operating, LLC
 By: [Signature] Jessica Greathouse
 Its: Manager - Environmental, Health & Safety
 Address P.O. Box 6070
Charleston, WV 25362
 Telephone 304-353-5240

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JUL 24 2019

Subscribed and sworn before me this 22nd day of July, 2019

My Commission Expires September 16, 2023
Phyllis A. Copley

Notary Public
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 depprivacyoffier@wv.gov.

47-045-00404P

WW-9
(5/16)

API Number 47 - 045 - ~~00407~~ 00404
Operator's Well No. 808126

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

Operator Name Core Appalachia Operating, LLC OP Code 494518671

Watershed (HUC 10) Hoover Fork of Big Harts Creek Quadrangle Trace

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: Plugging returns/Cement - Will utilize above ground tanks

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 fluid recovered will be hauled to a Core tank battery and disposed of properly)

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

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

-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? _____

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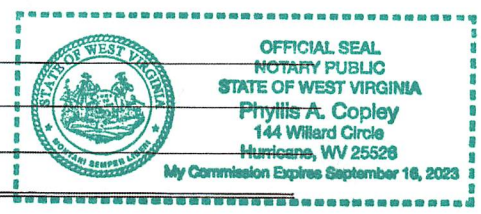
WV Department of
Environmental Protection

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) Jessica Greathouse
Company Official Title Manager - Environmental, Health & Safety



Subscribed and sworn before me this 22nd day of July, 2019

Phyllis A. Copley Notary Public

My commission expires September 16, 2023

Proposed Revegetation Treatment: Acres Disturbed 1 +/- Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20 or equivalent

Fertilizer amount _____ lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Alsike	5	Alsike Clover	5
Annual Rye	15		

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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Title: _____ Date: _____

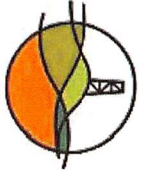
Field Reviewed? () Yes () No

47-045-06404P

Well No.: 808038
UTM83-17 Meters
North: 396367.3
East: 4200306.89
Elev.: 285.89

Well No.: 808126
UTM83-17 Meters
North: 396968.62
East: 4200757.92
Elev.: 255.43

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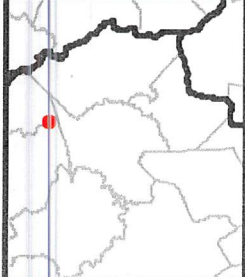
Diversified Gas & Oil
Corporation
100 Diversified Way
Pikeville KY, 41051

808038 & 808126

Plugging Map

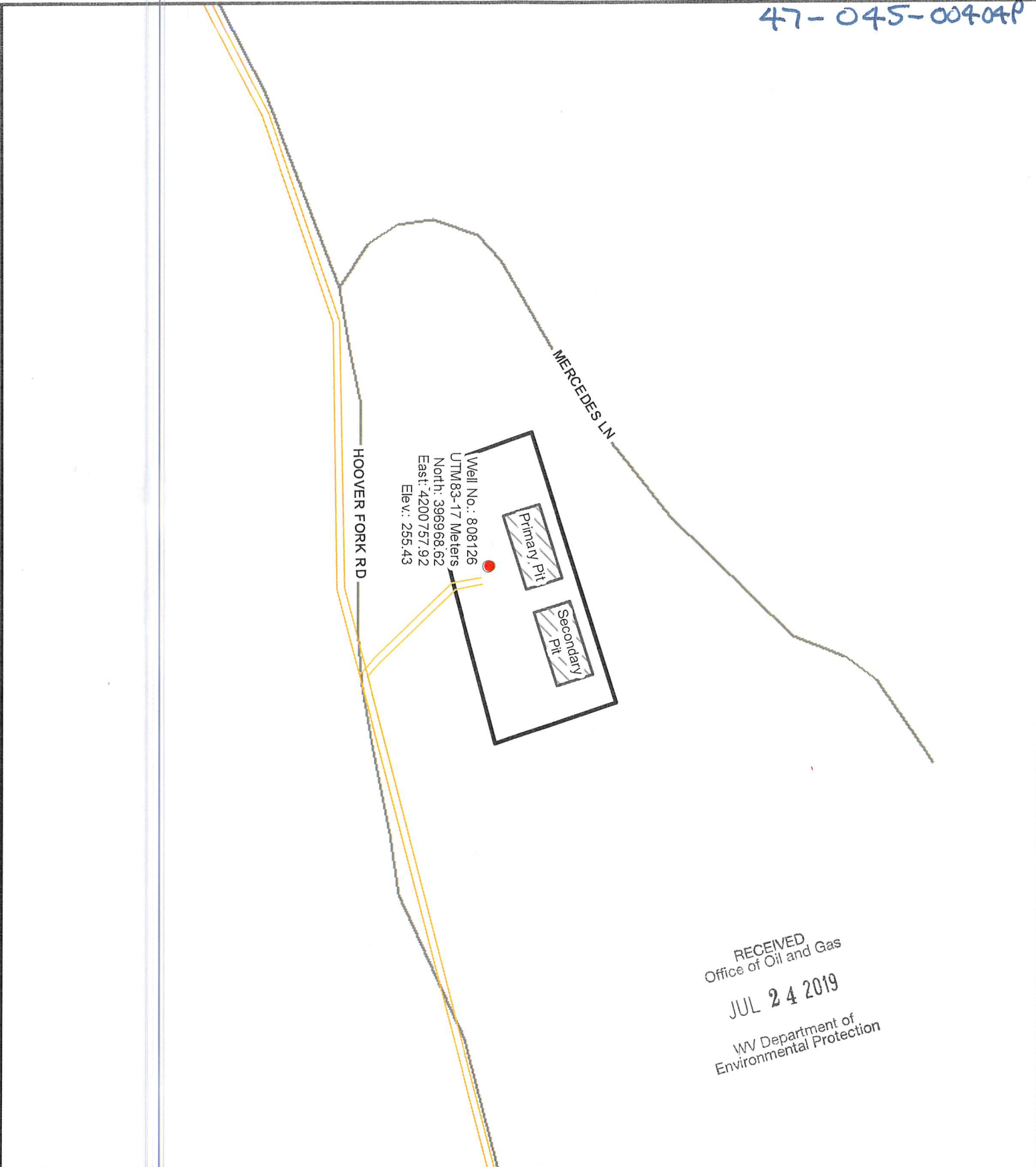
Legend

- Well
- ✕ Sediment Control
- Access Road
- ▨ Pits
- Pad
- Public Roads

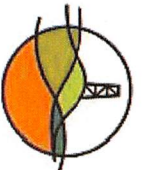


N
1" = 500'
0 250 500 Feet

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), swisstopo, © OpenStreetMap contributors, and the GIS User Community



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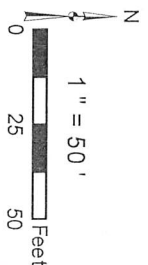
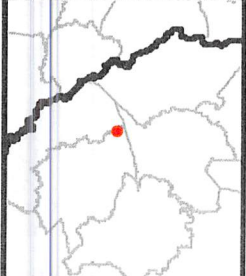
Diversified Gas & Oil
Corporation
100 Diversified Way
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808126

Plugging Map

Legend

- Well
- ⊗ Sediment Control
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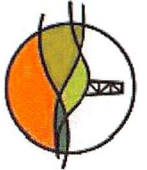
Well No.: 808126
 UTM83-17 Meters
 North: 396968.62
 East: 4200757.92
 Elev.: 255.43

Primary Pit

Secondary Pit

MERCEDES LN

HOOVER FORK RD



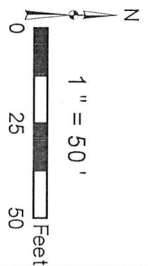
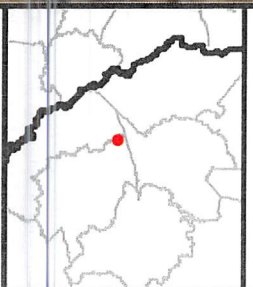
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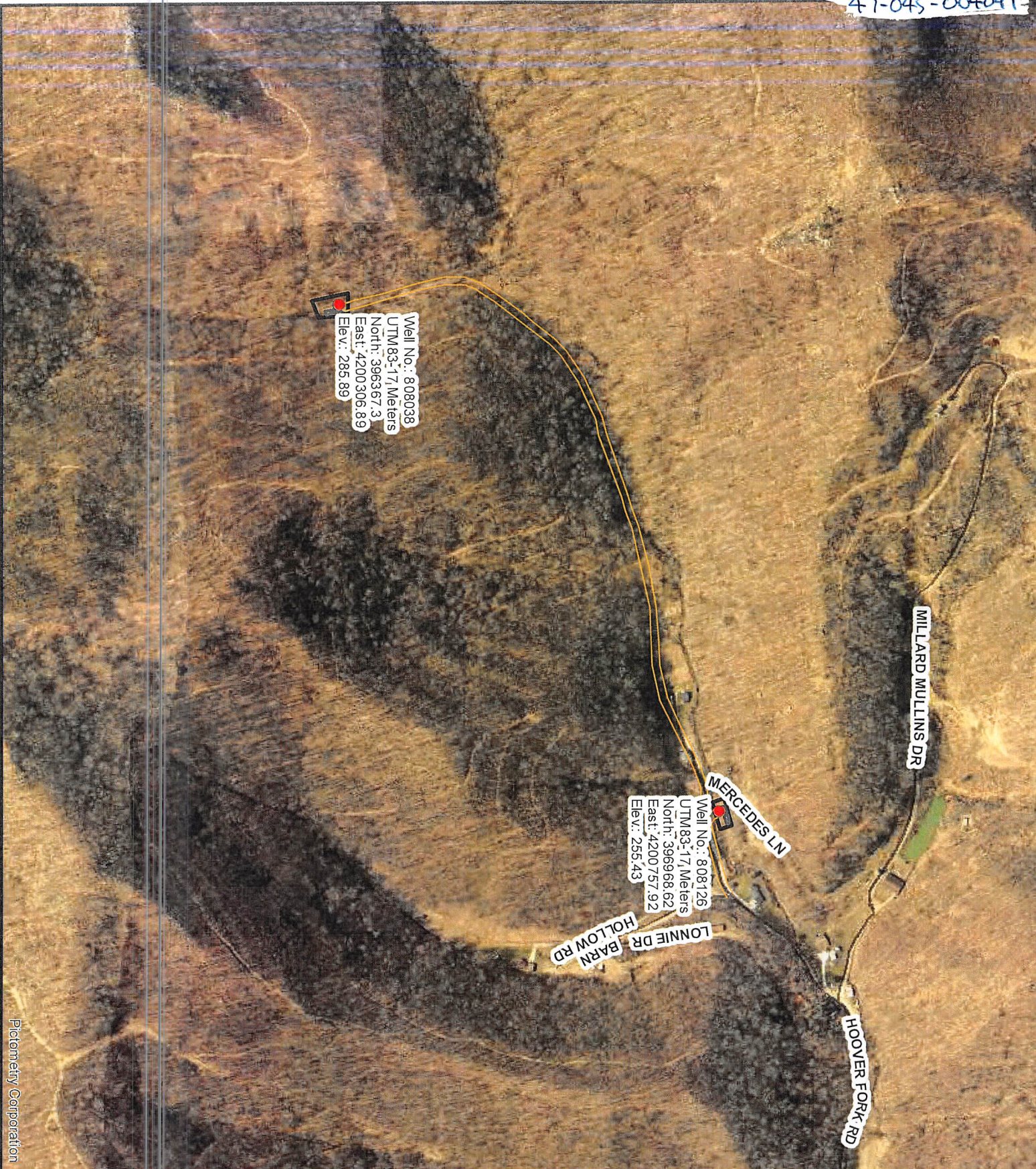
808126

Plugging Map

Legend

- Well
- ⊗ Sediment Control
- Access Road
- ▨ Pits
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 East: 4200306.89
 Elev.: 285.89

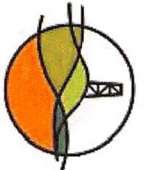
Well No.: 808126
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 East: 4200757.92
 Elev.: 255.43

MILLARD MULLINS DR

MERCEDES LN

LONNIE DR
BARN HOLLOW RD

HOOVER FORK RD

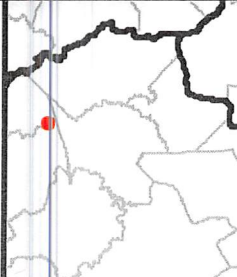


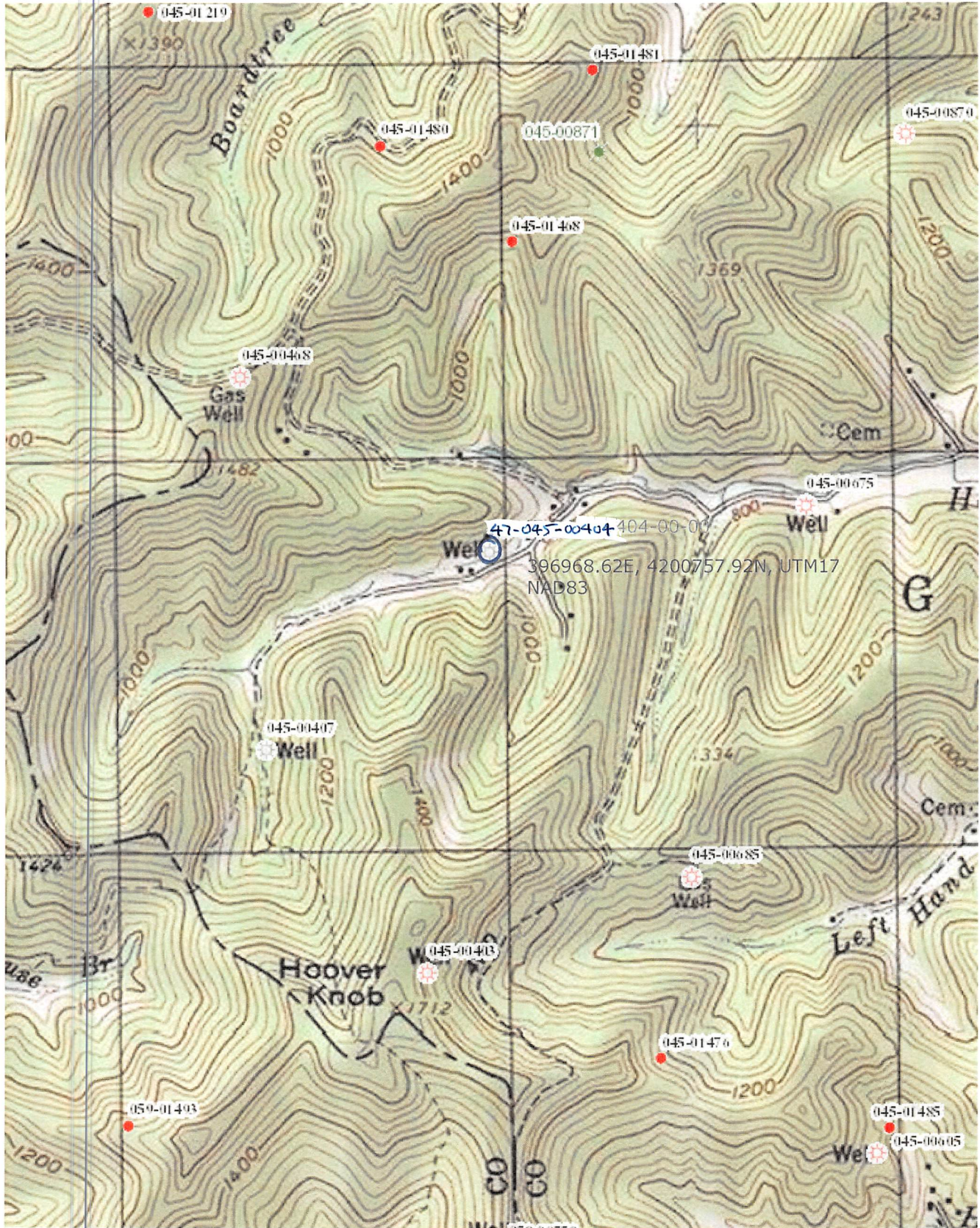
Diversified Gas & Oil Corporation
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808038 & 808126
 Plugging Map

Legend

- Well
- ⊗ Sediment Control
- Access Road
- ▨ Pits
- Pad
- Public Roads





WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-045-00404 WELL NO.: 808126

FARM NAME: United Fuel and Gas Et al

RESPONSIBLE PARTY NAME: Core Appalachia Operating LLC

COUNTY: Logan DISTRICT: Guyan

QUADRANGLE: Trace

SURFACE OWNER: Millard and Bethel Mullins

ROYALTY OWNER: Core Appalachia Operating LLC

UTM GPS NORTHING: 396,968.62 (837.7')

UTM GPS EASTING: 4,200,757.92 GPS ELEVATION: 255.43m

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 X

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]
Signature

Engineer III
Title

7-18-2019
Date

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