



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

Thursday, April 23, 2020
WELL WORK PLUGGING PERMIT
Vertical Plugging

ALLIANCE PETROLEUM CO., LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for A 57 GW 1056 (130651)
47-045-00199-00-00

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: A 57 GW 1056 (130651)
Farm Name: ISLAND CREEK COAL
U.S. WELL NUMBER: 47-045-00199-00-00
Vertical Plugging
Date Issued: 4/22/2020

Promoting a healthy environment.

I

47-045-00199P

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 February 25, 2020
2) Operator's Well No. 130651
3) API Well No. 47-045 - 00199 R

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 328.27 m Watershed Crawley Creek (Guyandotte River)
District Island Creek County Logan Quadrangle Chapmanville
- 6) Well Operator Alliance Petroleum Company, LLC 7) Designated Agent David Dean
Address 1997 Old Weston Road Address 1997 Old Weston Road
Buckhannon, WV 26201 Buckhannon, WV 26201
- 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

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Office of Oil and Gas
MAR 11 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 JEFF SMITH Date .

by phone
JWM

PLUGGING PROGNOSIS

130651
West Virginia, Logan County
API # 47-045-00199

Completed by J.M.
Updated 11/5/2019

Casing Schedule

10 3/4" 32# csg @ 205'. Cemented w/ 66 sxs. No circulation
7" csg 23 # @ 1703'
3 1/2" csg @ 1885'. 5 1/2" x 3" x 3" packer at 1810'
TD @ 1885'

Completion

- Not shot

Fresh Water: 55'
Gas Shows: 1783' - 1791'
Oil Shows: 1791' - 1800'
Elevation: 1127'
Coal: 177' - 181'

SALT WATER @ 1462'
SALT WATER @ 818' - 835'
SALT WATER @ 770'

1. Notify inspector, Jeffrey Smith @ 681-313-6743, 48 hrs. prior to commencing operations.
2. Check and record pressure on csg.
3. Check TD w/ wireline
4. Free point 3 1/2" csg and cut 3 1/2" csg. Set 100' C1A cement plug across the csg cut. 50' in/out of cut. Do not omit any plugs below. Perforate as needed.
5. TIH w/ tbg to 1800'. Load well as needed w/ 6% bentonite gel. Pump 147' C1A cement plug 1800' - ~~1653'~~ (Gas/Oil Show and 7" csg seat) ~~3' SW @ 1462'~~
6. TOOH w/ tbg to 1653'. Pump 6% bentonite gel from ~~1653' - 1127'~~ 1400' - 1127'
7. TOOH w/ tbg. Free point 7" csg and cut 7" csg. Set 100' C1A cement plug across the csg cut. 50' in/out of cut. Do not omit any plugs below. Perforate as needed.
8. TIH w/ tbg to 850'. Pump 130' C1A cement plug FROM 850' TO 720', (SW @ 835' - 770')
9. TOOH w/ tbg to 770'. Pump 6% bentonite gel from 770' - 255'
10. TOOH w/ tbg to 255'. Pump 100' C1A cement plug from 255' - 155' (Coal & 10" csg seat)
11. TOOH w/ tbg. Free point 10 3/4" csg and cut 10 3/4" csg. Set 100' C1A cement plug across the csg cut. 50' in/out of cut. Do not omit any plugs below. Perforate as needed.
12. TIH w/ tbg to 155'. Pump 155' C1A cement plug from surface' - 155' (Fresh water show)
13. Erect monument with API#, date plugged, & company name.
14. Reclaim location and road to WV-DEP specifications.

J M

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Holden

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Well 130651
API 47-045-00199P
Page 1 of 2

WELL RECORD

Permit No. Log-199

Oil or Gas Well (GAS)
(MINN)

Company Columbian Carbon Co.
 Address Box 873, Charleston 23, W. Va.
 Farm Island Creek Coal Co. Acres 34.953-17
 Location (waters) Crawley Creek
 Well No. 57 - # 1056 Elev. 1060.62' G
 District Logan County Logan
 The surface of tract is owned in fee by Island Creek Coal Co.
 Guaranty Bank Bldg. Address Huntington, W. Va.
 Mineral rights are owned by Same Address _____
 Drilling commenced 3-25-48
 Drilling completed 5-11-48
 Date Shot not shot From _____ To _____
 With acid. 5-15-48 w/ 1000 gal. acid
 Open Flow /10ths Water in _____ Inch
25 /10ths Merc. in 3" Inch
 Volume 1,750,000 Cu. Ft.
 Rock Pressure bg. 535# B.H. 360 lbs. 5 days hrs.
 Oil show 1791-1800 bbls., 1st 24 hrs.
 Fresh water 55' 70' feet feet
 Salt water 770' 818-35 feet 1162' feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>Anchor</u>
<u>1 3/8" 16#</u>	<u>10' 6"</u>	<u>10' 6"</u>	
<u>1 3/4" 32#</u>	<u>205' 6"</u>	<u>205' 6"</u>	Size of <u>5 1/2" x 3 x 3</u>
<u>2 1/2"</u>	<u>1287' 4"</u>	<u>Pulled</u>	
<u>3 1/2" 27#</u>	<u>1703' 6"</u>	<u>1703' 6"</u>	Depth set <u>1810'</u>
<u>3 1/2"</u>			
<u>3 7/8"</u>	<u>1885' 3"</u>	<u>1885' 3"</u>	Perf. top
<u>2"</u>			Perf. bottom
Liners Used			Perf. top
<u>5 1/2" 11#</u>	<u>70'</u>	<u>70'</u>	Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
See reverse side
 COAL WAS ENCOUNTERED AT 177 FEET 48 INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Gravel			0	20			
Blue Mud			20	40			
Sand			40	120	F. Water	55'	1 blr/hr.
Slate			120	177	F. Water	70'	hole full
Coal			177	181			
Sand			181	201			
Slate			201	206			
Sand			206	211			
Slate & Shells	205' dis= 204' slm		211	220			
Sand			220	262			
Slate			262	268			
Sand			268	310			
Slate			310	317			
Sand			317	329			
Slate & Shells			329	391			
Sand			391	440			
Slate & Shells			440	490			
Sand			490	507			
Slate & Shells			507	536			
Sand			536	570			
Slate			570	589			
Sand			589	635	S. Water	770'	1 blr/hr.
Slate			635	660	S. Water	818-835'	hole full
Sand			660	673			
Slate			673	697			
Sand			697	1172			
Slate			1172	1198			
Sand			1198	1206			
Lime			1206	1228			
Red Rock			1228	1230			
Slate			1230	1248			
Red Rock			1248	1252			
Slate			1252	1270			
Lime			1270	1275			
Slate			1275	1298			
Red Rock			1298	1312			
Slate & Shells			1312	1347			
Lime			1347	1558			



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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Plate & Shells			1358	1462	Sp. Water	1462'	hole full
Maxon Sand			1462	1472			
lime			1472	1580			
Plate			1580	1590			
lime			1590	1642			
Plate			1642	1644			
lime			1644	1875			
Plate			1875	1882			
Big							
By Injun	1868' dlm =	1873 slm					
TOTAL DEPTH - - - - -				1882'	Gas rays	1783-91' 10/10 w 1" 36/330	
						1860 slm-1873 slm 10/10m 2"	1086 waf
					oil ray	1791-1800 show	
Cement Record							
3-30-48	10	3/4" casing - ran 66 sacks cement pumped plug to 199' - no circulation. Columbian Carbon Company Crew.					
4-24-48	8	5/8" casing was not cemented.					
5-3-48	7	casing was not cemented.					

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Date June 10, 1948
 By O. W. Van Patten, Supt., Owner
 (Title)

WW-4A
Revised 6-07

1) Date: February 25, 2020
2) Operator's Well Number
130651
3) API Well No.: 47 - 47-045 - 00199

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>Heartwood Forestland Group</u>	Name _____
Address <u>P.O. Box 9162</u>	Address _____
<u>Chapel Hill, North Carolina 27515</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Coal and Crane Real Estate Trust</u>
	Address <u>848 4th Avenue, Suite 303</u>
	<u>Huntington, West Virginia 25701</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>Cross Lanes, WV 25313</u>	Address _____
Telephone <u>681-313-6743</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.

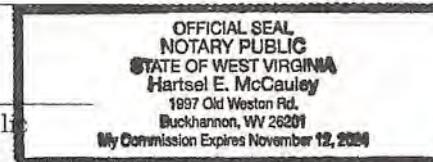
The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

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 Alliance Petroleum Company, LLC
 By: *[Signature]*
 Its: Vice President Production
 Address 1997 Old Weston Road
Buckhannon, WV 26201
 Telephone 304-614-2963

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MAR 11 2020
WV Department of
Environmental Protection

Subscribed and sworn before me this 9th day of March 2020
Hartsel E. McCauley Notary Public
 My Commission Expires November 12, 2024



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9
(5/16)

API Number 47 - 045-00199
Operator's Well No. 130651

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

Operator Name Alliance Petroleum Company, LLC OP Code 494506333

Watershed (HUC 10) Crawley Creek (050701020102) Guyandotte River Quadrangle Chapmanville

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 a synthetic liner be used in the pit? Yes No If so, what ml.? 20

Proposed Disposal Method For Treated Pit Wastes:

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

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

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? _____

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 David Dean

Company Official (Typed Name) David Dean

Company Official Title Vice President Production

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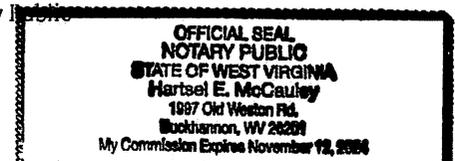
MAR 11 2020

WV Department of
Environmental Protection

Subscribed and sworn before me this 9th day of March, 2020

Harriet E. McCauley Notary Public

My commission expires: November 12, 2024



Proposed Revegetation Treatment: Acres Disturbed _____ +/- 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

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

Operator Name: Alliance Petroleum Company LLC
 Watershed (HUC 10): Crawley Creek HUC ID # 050701020102 (Guyandotte River) Quad: Chapmansville
 Farm Name: Island Creek Coal Comapny

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

Treatment of the fluid will include adjusting pH and precipitating out solids as needed. Fluid will be discharged in a manor to eliminate sediment runoff.

The potential contaminates are class A cement, bentonite gel, and produced fluids. These contaminates are circulated to surface during plugging operations.

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

The contaminants are circulated to surface and drainage controlled into a line pit. The cement and gel are allowed to settle out in the pit. The produced fluids will then be tested and if treatable treated and ground applied. Otherwise the produced fluids will be hauled to a commercial injection well.

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

Closest body of water is Crawley Creek (1430'). The discharge area is located in excess of 5 miles from the nearest wellhead protection area

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

There are no activities at this facility regulated for groundwater protection. The facility is a non producing gas well without a tank.

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

47-045-00199P



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

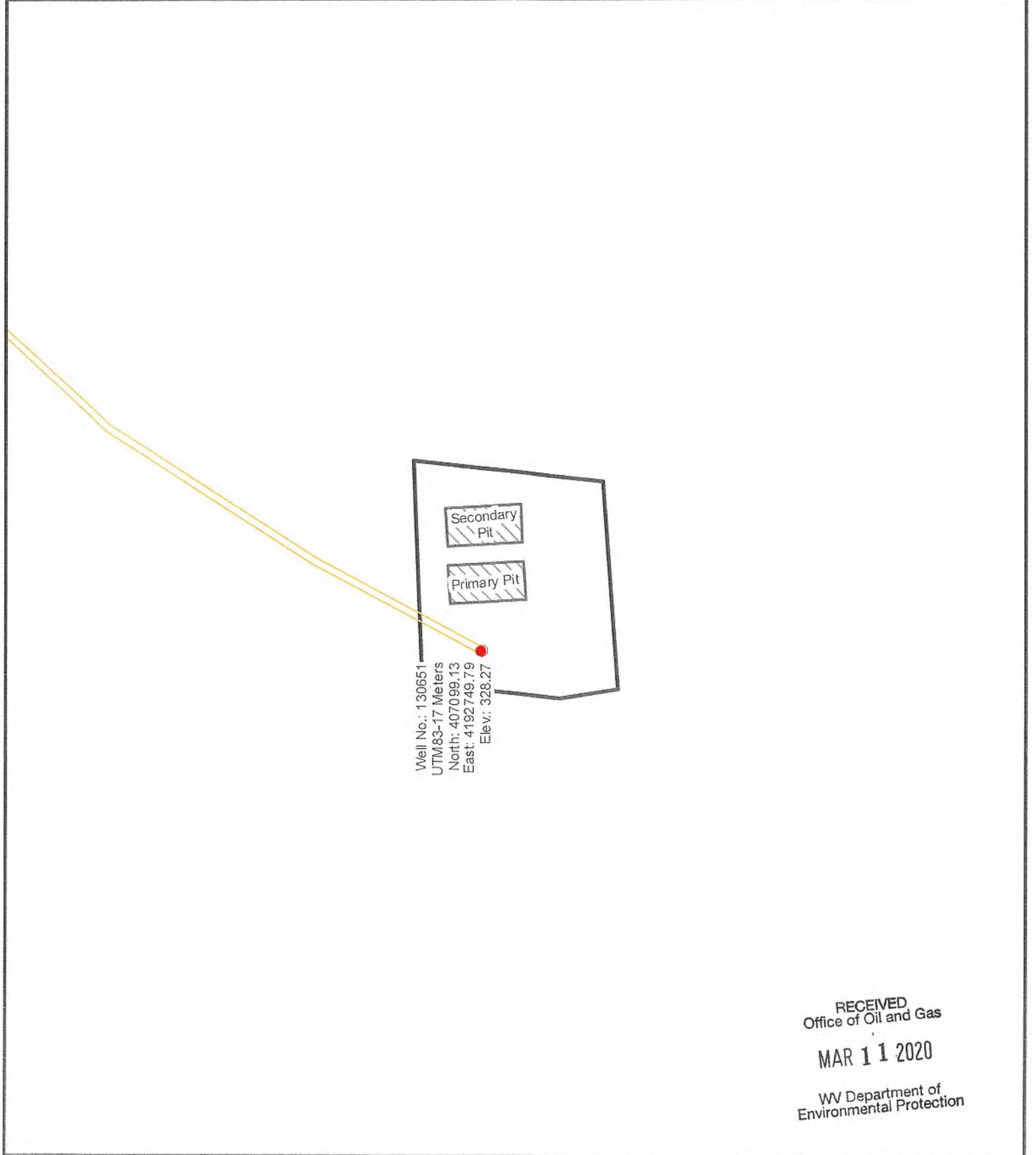
130651

Plugging Map

Legend

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

PIT DEPTH
≤ 8'



Well No.: 130651
UTM 83-17 Meters
North: 407099.13
East: 4192749.79
Elev: 328.27

Secondary Pit

Primary Pit

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

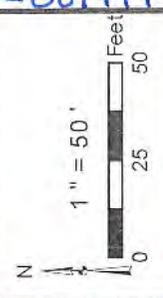
130651

Plugging Map

Legend

- Well
- ✕ Sediment Control
- ▨ Pits
- ▭ Pad
- Public Roads

Pit Depth
≤ 8'



Photometry Corporation



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

130651

Plugging Map

Legend

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



Well No.: 130651
 UTM 183-17, Meters
 North: 407099.13
 East: 4192749.79
 Elev.: 328.27

Pictometry Corporation



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

130651

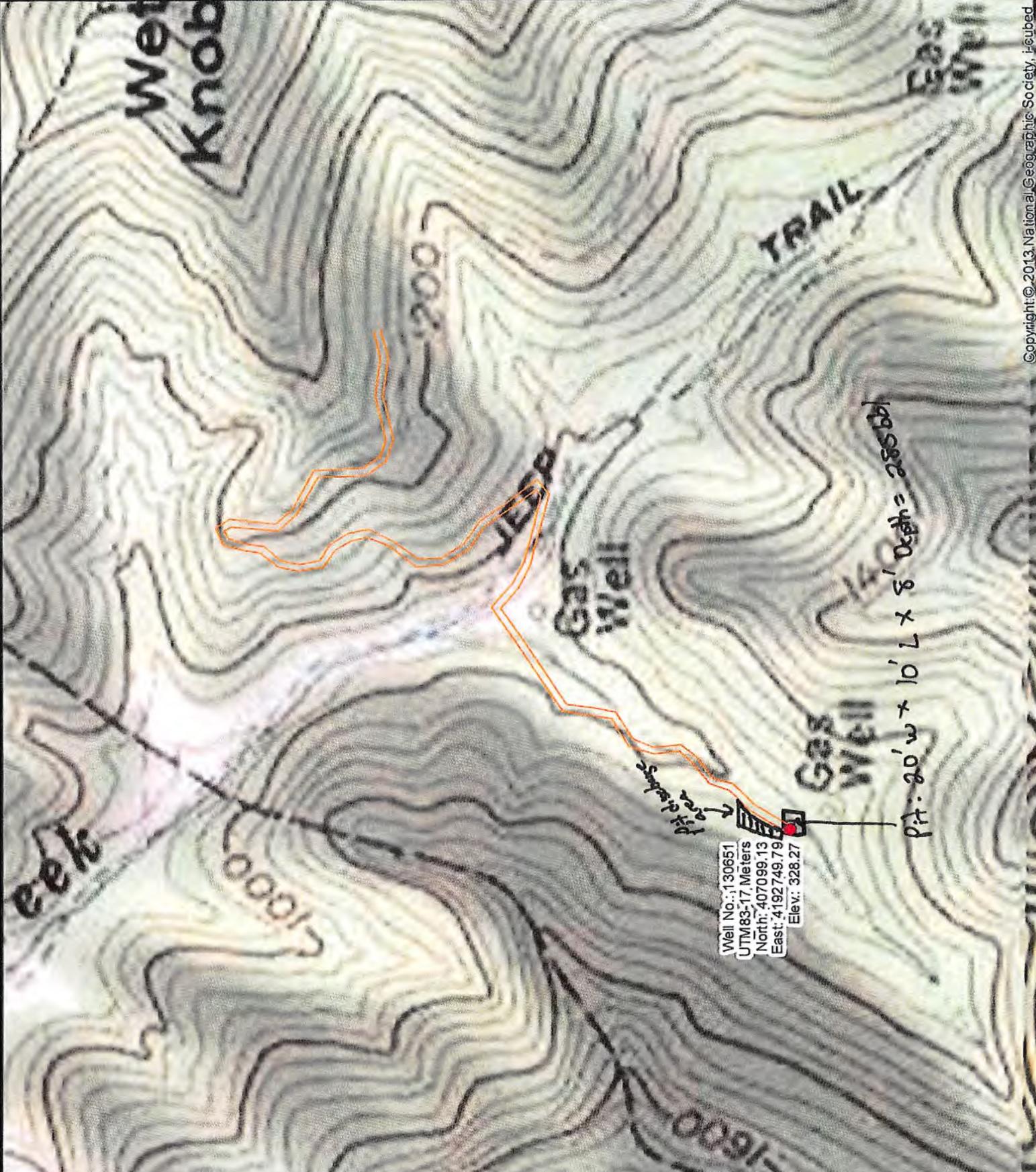
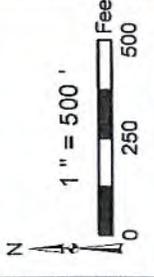
Plugging Map

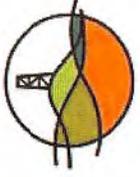
API # 47-045-00199

Legend

- Well
- Access Road
- Pits
- Pad

Nearest wellhead
protection area
5.08 miles
PIT DEPTH
≤ 8'





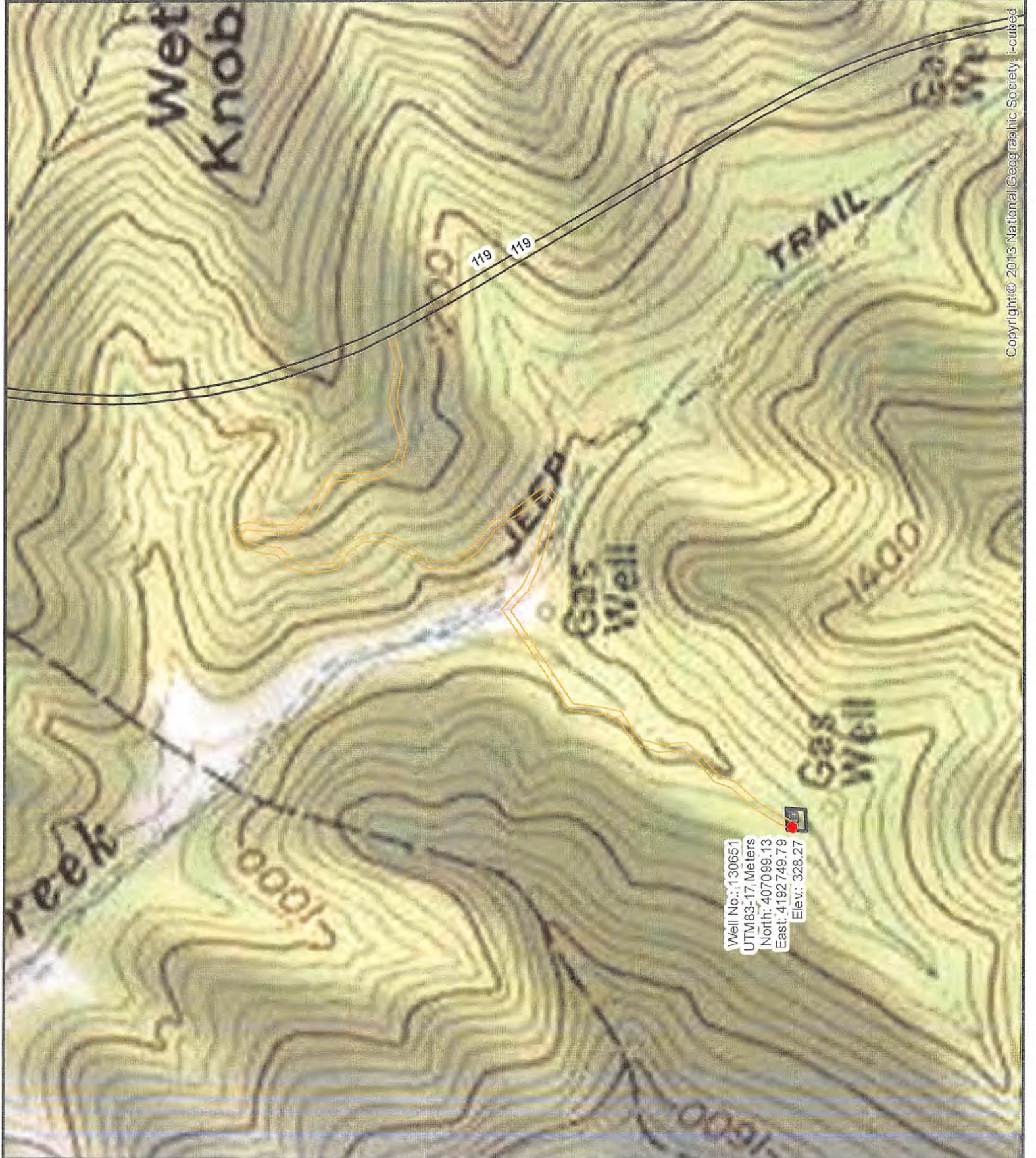
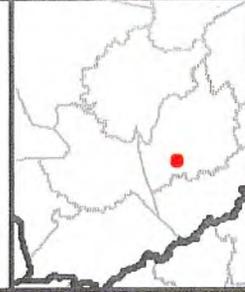
Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

130651

Plugging Map

Legend

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



Well No.: 130651
 UTM83-17, Meters
 North: 407099.73
 East: 4192749.79
 Elev.: 328.27

WW-7
8-30-06



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

API: 47-045-00199 WELL NO.: 130651

FARM NAME: Island Creek Coal Company

RESPONSIBLE PARTY NAME: Alliance Petroleum Company LLC

COUNTY: Logan DISTRICT: Island Creek

QUADRANGLE: Chapmanville

SURFACE OWNER: Heartwood Forestland Group

ROYALTY OWNER: Cole and Crane Real Estate Trust

UTM GPS NORTHING: 407,099.13

UTM GPS EASTING: 4,192,749.79 GPS ELEVATION: 328.27 m

(1077')

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

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- 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

2-24-2020
Date