



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

Monday, June 8, 2020

WELL WORK PLUGGING PERMIT
Vertical Plugging

ALLIANCE PETROLEUM CO., LLC
101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133


Re: Permit approval for 154971
47-021-03522-00-00

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: 154971
Farm Name: MARK D. MONTGOMERY & 
U.S. WELL NUMBER: 47-021-03522-00-00
Vertical Plugging
Date Issued: 6/8/2020

Promoting a healthy environment.

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.

WW-4B
Rev. 2/01

1) Date March 17, 2020
2) Operator's
Well No. 154971
3) API Well No. 47-021-03522

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 336.53 m Watershed Stewart Creek (Upper Little Kanawha River)
District Glenville County Gilmer Quadrangle Glinco
- 6) Well Operator Alliance Petroleum Company, LLC 7) Designated Agent Jessica Greathouse
Address 414 Summers Street Address 414 Summers Street
Charleston, WV 25301 Charleston, WV 25301
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Danny Mullins Name R & J Well Service, Inc.
Address 220 Jack Acres Road Address P.O. Box 40
Buckhannon, WV 26201 Hueysville, KY 41640-0040

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

SEE ATTACHED SHEET

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

Work order approved by inspector

Danny Mullins

Date

3-20-2020

PLUGGING PROGNOSIS

154971

West Virginia, Gilmer County

API# 47-021-03522

Completed by S.T.

Updated 12/12/2019

Casing Schedule

8 5/8" csg @ 458' cemented to surface

4 1/2" csg @ 5078' cemented 150 sks. Estimated TOC @ 3452'.

TD 5125'

Completion: Frac**Fresh Water:** 100'**Gas Shows:** Devonian shale @ 4620', 4903'-5039'**Oil Show:** No shows**Coal:** No shows**Elevation:** 1120'

1. Notify Inspector, Danny Mullens @ 304-932-6844, 48 hours prior to commencing operations.
2. Check and record pressures on csg.
3. Check TD w/ wireline.
4. TIH w/ tbg to 4903'. Load well as needed w/ 6% bentonite gel. Pump 100' C1A cement plug from 4903'-4803' (Devonian Gas Show). *WOC, TAG CEMENT, ADD CEMENT IF NEEDED.*
5. TOOH w/ tbg to 4803'. Pump 6% bentonite gel from 4803'-4620'. *2 1/2" WOC*
6. TOOH w/ tbg to 4620'. Pump 100' C1A cement plug from 4620'-4520' (Devonian gas show). *WOC, TAG CEMENT, ADD IF NEEDED.*
7. TOOH w/ tbg to 4520'. Pump 6% bentonite gel from 4520'-1120'. TOOH LD tbg. *ADD IF NEEDED.*
8. Free Point 4.5" csg. Cut and pull. Set 100' C1A cement plug across csg Cut. 50' in/out of cut. Do not omit any plugs listed below. Perforate as needed.
9. TIH w/ tbg to 1120'. Pump 100' C1A cement plug from 1120'-1020' (Elevation).
10. TOOH w/ tbg to 1020'. Pump 6% bentonite gel from 1020'-508'.
11. TOOH w/ tbg to 508'. Pump 100' C1A cement plug from 508'-408' (8 5/8" csg st).
12. TOOH w/ tbg to 408'. Pump 6% bentonite gel from 408'-150'.
13. TOOH w/ tbg to 150'. Pump 150' C1A cement plug from 150'-0' (Fresh water and surface).
14. Erect monument with API#, date plugged, and company name.
15. Reclaim location and road to WV-DEP specifications.

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Office of Oil and Gas

MAR 24 2020

WV Department of
Environmental Protection

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

Date August 6, 19 79

FORM IV-35
(Obverse)

Operator's Well No. Carson1A

[08-78]

WELL OPERATOR'S REPORT 9
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 021 - 3522
State County Permit

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___
(If "Gas", Production ___ / Underground storage ___ / Deep ___ / Shallow ___)

LOCATION: Elevation: 1120 Watershed: Stewart Creek
District: Glenville County: Gilmer Quadrangle: Gilmer

WELL OPERATOR Waco Oil & Gas Company, Inc. DESIGNATED AGENT Jerry Masoner
Address Box 4 Address Box 4
Glenville, WV 26351 Glenville, WV 26351

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation ___
Other physical change in well (specify) _____

PERMIT ISSUED ON June 29, 19 79

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Paul Goodnight
Address Smithville, WV
477-3660

GEOLOGICAL TARGET FORMATION: Devonian Shale Depth 5200 feet

Depth of completed well, 5125 feet Rotary ___ / Cable Tools ___

Water strata depth: Fresh, ___ feet; salt, ___ feet.

Coal seam depths: _____ Is coal being mined in the area? no

Work was commenced July 16, 19 79, and completed July 22, 19 79

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	ERW	20	x		458'	458'	140 sks.	
Production	4 1/2	K55	9.5	x			5078'	150 sks.	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

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AUG 6 1979

OPEN FLOW DATA

Producing formation Elk OIL & GAS DIVISION DEPT. OF MINES 5039-4903' feet

Gas: Initial open flow, show Mcf/d Oil: Initial open flow, no Bbl/d

Final open flow, 2,100 Mcf/d Final open flow, no Bbl/d

Time of open flow between initial and final tests, 3 hours

Static rock pressure, 1640 psig (surface measurement) after 48 hours shut in

[If applicable due to multiple completion--]

Second producing formation Benson Pay zone depth 4620-4623 feet

Gas: Initial open flow, show Mcf/d Oil: Initial open flow, no Bbl/d

Final open flow, 2100 Mcf/d Final open flow, no Bbl/d

Time of open flow between initial and final tests, 3 hours

Static rock pressure, 1640 psig (surface measurement) after 48 hours shut in

Note: Both formations co-mingled.

[08-78]

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

July 22, 1979

Elk - Perforated 5039' to 4903' 8 holes
20,000# 80/100 sand, 40,000# 20/40 sand 500 gals acid
600 bbls. treated water.

Benson- Perforated 4620 to 4623.5 7 holes
20,000# 80/100 sand, 40,000# 20/40 sand, 750 gals acid
600 bbls. treated water

WELL LOG

FORMATION	Color	Hard or Soft	9		Remarks Including indication of all fresh and salt water, coal, oil and gas
			Top Feet	Bottom Feet	
Sand-Shale			0	265	
Red Rock			265	276	
Sand			276	281	
Red Rock			281	320	
Shale			320	360	
Red Rock			360	386	
Shale			386	956	
Sandy Shale			956	1725	
L. Lime			1725	1751	
Shale			1751	1765	
Big Lime			1770	1812	
Injun			1812	1921	
Sandy Shale			1921	2030	
Shale			2030	4618	
Sandy Shale			4618	4650	
Shale			4650	5125	
Total Depth				5125	

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(Attach separate sheets to complete as necessary)

Waco Oil & Gas Company
Well Operator
By Jerry Masoner
Agent

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."

WW-4A
Revised 6-07

1) Date: March 17, 2020
2) Operator's Well Number
154971
3) API Well No.: 47 - 47-021 - 03522

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>Mark D. Montgomery & Jessica M. Ball</u>	Name <u>None</u>
Address <u>7312 US HWY 33 E</u>	Address _____
<u>Glennville, WV 26351</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Blackhawk Land and Resource, LLC</u>
_____	Address <u>Attn: Land Department, 1801 Watergap Road</u>
_____	<u>Prestonsburg, Kentucky 41653</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Danny Mullins</u>	(c) Coal Lessee with Declaration
Address <u>220 Jack Acres Road</u>	Name <u>None</u>
<u>Buckhannon, West Virginia 26201</u>	Address _____
Telephone <u>304-932-6844</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	<u>Alliance Petroleum Company, LLC</u>	RECEIVED
By:	<u>[Signature]</u> Jeff Mast	Office of Oil and Gas
Its:	<u>Engineer III</u>	MAR 24 2020
Address	<u>414 Summers Street</u>	WV Department of
	<u>Charleston, West Virginia 25301</u>	Environmental Protection
Telephone	<u>304-543-6968</u>	

Subscribed and sworn before me this 17th day of March 2020
Phyllis A. Copley Notary Public
My Commission Expires September 16, 2023

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.

Well 154971
47-021-03522P

7017 1450 0002 3854 0559

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PRESTONSBURG, KY 41653

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Certified Mail Fee	\$3.55	
\$		\$2.85
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	\$0.00
<input type="checkbox"/> Adult Signature Required	\$	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	\$0.00
Postage	\$1.60	
\$		
Total	\$8.00	
\$	154971 P&A	
Sent	Blackhawk Land and Resource, LLC	
Street	ATTN: Land Department	
City, State	1801 Watergap Road	
PS Form	Prestonsburg, KY 41653	

0523 03
Postmark Here
MAR 19 2020
03/19/2020

PS Form 3854, June 2019. See Reverse for Instructions.

7017 1450 0002 3854 0542

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GLENVILLE, WV 26351

OFFICIAL USE

Certified Mail Fee	\$3.55	
\$		\$2.85
Extra Services & Fees (check box, add fee as appropriate)		
<input type="checkbox"/> Return Receipt (hardcopy)	\$	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$	\$0.00
<input type="checkbox"/> Adult Signature Required	\$	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$	\$0.00
Postage	\$1.60	
\$		
Total	\$8.00	
\$	154971 P&A	
Sent	Mark D. Montgomery & Jessica M. Ball	
Street	7312 US HWY 33 E	
City, State	Glenville, WV 26351	
PS Form		

0523 03
Postmark Here
MAR 19 2020
03/19/2020

PS Form 3854, June 2019. See Reverse for Instructions.

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WW-9
(5/16)

API Number 47 021-03522
Operator's Well No. 154971

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) Stewart Creek (050302030308) Upper Little Kanawha River Quadrangle Gilmer

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? _____

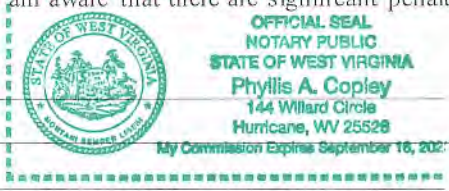
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WV Department of
Environmental Protection

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) Jeff Mast
Company Official Title Engineer III



Subscribed and sworn before me this 15th day of March, 2020

Phyllis A. Copley Notary Public

My commission expires: September 16, 2022

Form WW-9

Operator's Well No. 154971

Proposed Revegetation Treatment: Acres Disturbed 1.47 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: Doug Miller

Comments:

Title: DOS Inspector

Date: 3-20-2020

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): Stewart Creek HUC ID #050302030308 (Upper Little Kanawha River) Quad: Gilmer

Farm Name: Carson

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 Stewart Creek (572'). The discharge area is located in excess of 5 miles to 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.

There is no existing ground water quality data at this site or adjacent properties

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

No waste material will be used for deicing or fill material on this property.

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.

DGOC supervision will manage testing and contract employees on site. DGOC supervision will ensure testing is within all required parameters prior to discharging and utilize silt fencing as needed to eliminate erosion.

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

A job safety analysis will be completed each day on site to discuss the procedures, safety, and inspect all GPP elements and equipment.

Signature: AK

Date: 4-13-2020

47-021-03522P








Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41651

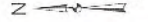
154971

Plugging Map

Legend

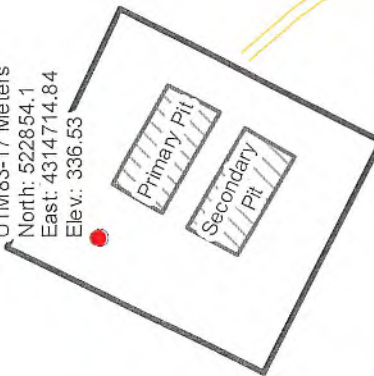
-  Well
-  Access Road
-  Pits
-  Pad
-  Public Roads

PIT → 295 OALS
20' L x 10' W x
9' Deep



1" = 50'
0 25 50
Feet

Well No.: 154971
UTM83-17 Meters
North: 522854.1
East: 4314714.84
Elev.: 336.53



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MAR 24 2020

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Environmental Protection








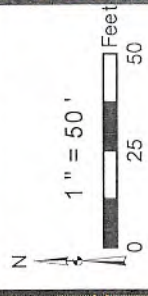
Diversified Gas & Oil Corporation
100 Diversified Way
Pikeville KY, 41051

154971

Plugging Map

Legend

-  Well
-  Access Road
-  Pits
-  Pad
-  Public Roads



Well No.: 154971
 UTM83-17, Meters
 North: 522854.1
 East: 4314714.84
 Elev.: 336.53



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community








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

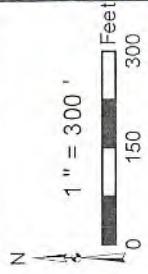
154971

Plugging Map

Legend

-  Well
-  Access Road
-  Pits
-  Pad
-  Public Roads

RECEIVED
Office of Oil and Gas
MAR 24 2020
WV Department of
Environmental Protection



Well No.: 154971
 UTM 83-17, Meters
 North: 522854.1
 East: 4314714.84
 Elev.: 336.53

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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

154971

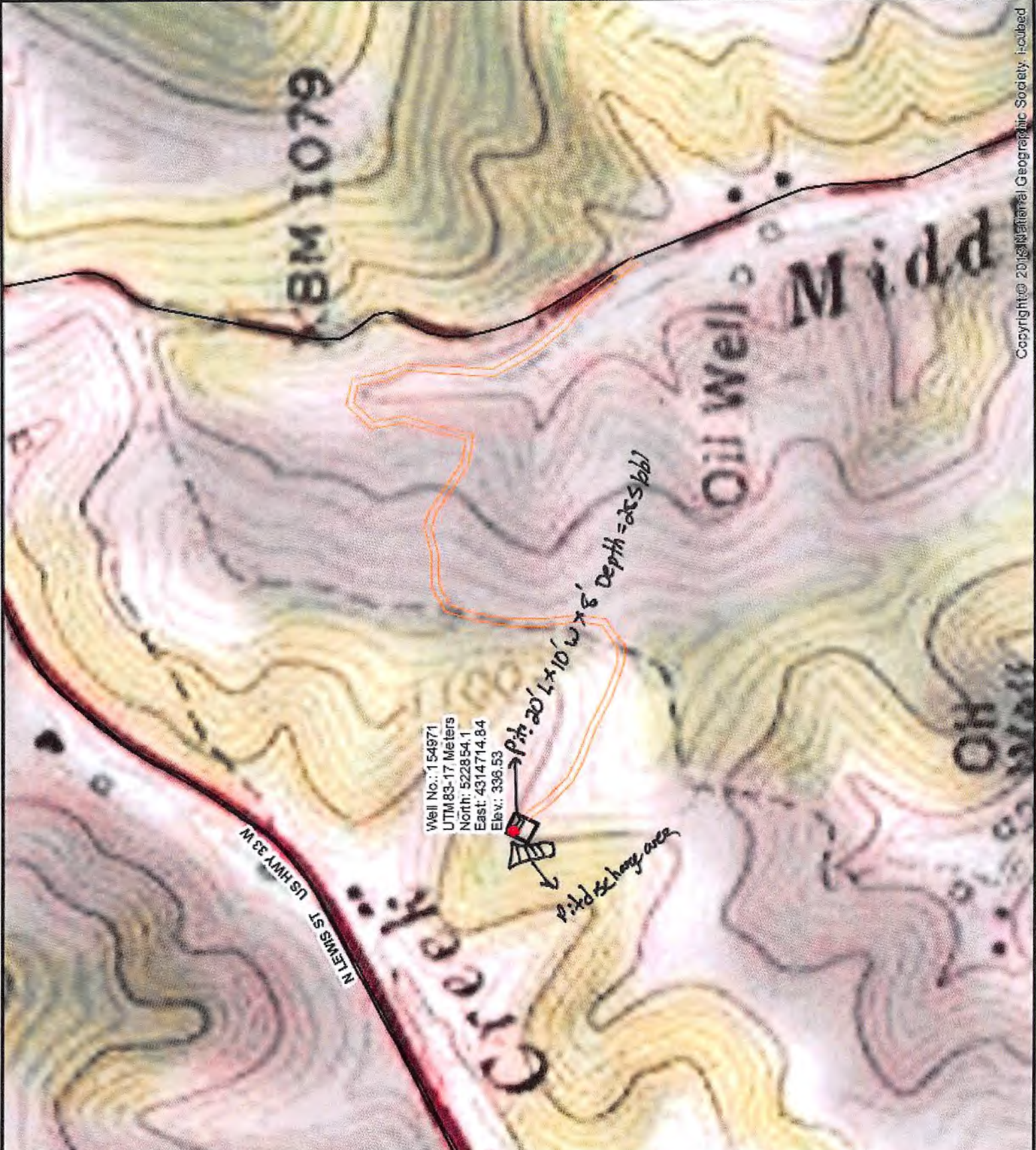
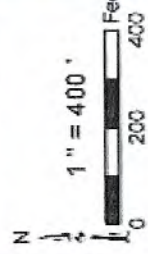
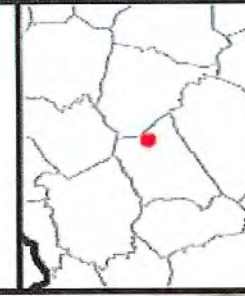
Plugging Map

API # 47-021-03522

Legend

- Well
- Access Road
- Pits
- Pad
- Public Roads

Nearest well head
protection area
0.3 miles



WW-7
8-30-06



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

API: 47-021-03522 WELL NO.: 154971

FARM NAME: Carson Lease

RESPONSIBLE PARTY NAME: Alliance Petroleum Company LLC

COUNTY: Gilmer DISTRICT: Glenville

QUADRANGLE: Gilmer

SURFACE OWNER: Mark D. Montgomery & Jessica M. Ball

ROYALTY OWNER: Greylock & Carson et al.

UTM GPS NORTHING: 522,854.1

UTM GPS EASTING: 4,314,714.84 GPS ELEVATION: 336.53 m

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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Office of Oil and Gas
MAR 24 2020
WV Department of
Environmental Protection

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] Director Production 3-17-2020
Signature Title Date