

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

Tuesday, March 17, 2020 WELL WORK PERMIT Vertical / New Drill

HG ENERGY, LLC 5260 DUPONT ROAD

PARKERSBURG, WV 26101

Permit approval for ROBERT FOWLER 516 Re:

47-043-03616-00-00

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: ROBERT FOWLER 516

Farm Name: ANDY & REBECCA MCCLUE

U.S. WELL NUMBER: 47-043-03616-00-00

Vertical New Drill

Date Issued: 3/17/2020

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

FORM WW-3 (B) 1/12



1)	Date:	01/22/2020)					
2)	Operator ³	's Well N	To.	Rob	ert Fowler 516			_
3)	API Well	No.:	47	-	043	-	s 03616	
			State		County		Permit	_
4)	IIIC Pern	nit No	LUCOE	00420	1 A D			

STATE OF WEST VIRGINIA

NOTICE OF LIQUID INJECTION OR WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

5) WELL TYPE:	1.1001	d Injection	n 🗸	7 /	Gas Injec	tion (not stora	ige)	/ W	aste Disposal	
6) LOCATION:	Elevation					•	orter Fork		10F	
o) Localion.	District:	-				inty Lincoln	one i one	Quadran	gle Griffithsvill	e 7.5'
7) WELL OPERA		-	C		201	8) DESIGNA	ATED AGE			
		60 Dupont I			-	0) DESIGN	Addres		oont Road	
Au		rkersburg, \					ruuros		urg, WV 26101	
9) OIL & GAS IN	_			ED		10) DRILLIN	IG CONTR		uig, WV 20101	
,		KIUDE	MOTIFI	ED		,			Lof the Permit	
	L. Smith				Name To Be Determined Upon Approval of the Permit					
	ig Tyler Road				Andrew Control of the	Address				
Cross L	anes, WV 25	313								
11) PROPOSED		3	Plug off of Other p	old form		/ Perforell (specify)		rmation	Co	nulate /
12) GEOLOGIC	TARGET	FORMA'	ITON Be	rea				_ Feet (top)) to <u>2468'</u>	Feet (bottom)
13) Estimated De		_					90' MD	Feet	T	
14) Approximate				esh		Feet	Salt 9	925'	Feet	
15) Approximate			288'							
16) Is coal being					_ No					
17) Virgin reserve					psig	Source	Estimated			
18) Estimated res	ervoir frac	ture press	sure 265	i0						sig (BHFP)
19) MAXIMUM	PROPOSE	ED INJEC	CTION O	PERAT	IONS: V	olume per hou	ır 25 BBL	Bottom l	iole pressure	2400 psi
19) MAXIMUM 1 20) DETAILED I	PROPOSE DENTIFIC	CATION	OF MAT	TERIAL	S TO BE I	NJECTED, IN	ir 25 BBL CLUDING	Bottom l	ole pressure S Fresh water	
19) MAXIMUM 2 20) DETAILED I water, bactericides a	PROPOSE DENTIFIC and other cher	CATION nicals as ne	OF MA	TERIAL ntain water	S TO BE IN quality and imp	NJECTED, IN	ır <u>25 BBL</u> CLUDING	Bottom l ADDITIVE	ole pressure S Fresh water	
19) MAXIMUM 20) DETAILED I water, bactericides a 21) FILTERS (IF	PROPOSE DENTIFIC and other cher	CATION micals as ne artridge filte	OF MAT eded to main rs and charc	TERIAL ntain water coal bed fill	S TO BE IT quality and imp	NJECTED, IN prove oil recovery	CLUDING	ADDITIVE	ole pressure S Fresh water	
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19) MAXIMUM 20) DETAILED I water, bactericides a 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production	PROPOSE DENTIFIC and other cher ANY) _C: TIONS FOI TUBING P Size 7" 4 1/2"	CATION micals as ne artridge filte R CATH PROGRAM SPI Grade LS	OF MATeded to maintenance of the control of the con	CERIAL ntain water coal bed fill COTECT ONS New	LS TO BE IN quality and importers	NJECTED, IN rove oil recovery OTHER COR FOOTAGE IN For Drilling 425'	ROSION C VTERVALS Left In Well 425' 2570'	CEMENT FILL -UP OR SACKS (CU. FT.)	NA PAG Kinds Sizes Depths set	r, produced
19) MAXIMUM 20) DETAILED I water, bactericides a 21) FILTERS (IF 22) SPECIFICAT 23) CASING AND CASING OR TUBING TYPE Conductor Fresh Water Coal Intermediate Production Tubing	PROPOSE DENTIFIC and other cher ANY) _C. TONS FOI TUBING P Size 7"	CATION micals as ne artridge filte R CATH PROGRAM SP Grade	OF MATeded to maintenance of the control of the con	TERIAL ntain water coal bed fill COTECT	LS TO BE IN quality and importers	OTHER COR FOOTAGE IN For Drilling 425'	ROSION CONTERVALS Left In Well 425'	CEMENT FILL -UP OR SACKS (CU. FT.)	NA PAG Kinds Sizes Depths set	r, produced CKERS 2.375"
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RECEIVED Office of Oil and Gas

FEB 1 8 2020



FORM WW-3 (A) 1/12



1) Date: January 22	, 2020					
2) Operator's Well	No.	Robert	Fowler 516			
3) API Well No.:	47	-		-		
	State		County		Permit	
4) UIC Permit No.	UIC2R	04301AF	•			

STATE OF WEST VIRGINIA NOTICE OF LIQUID INJECTION OF WASTE DISPOSAL WELL WORK PERMIT APPLICATION FOR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS,

5) Surface Ow	ner(S) To Be Served	7) (a) Coal C	perator	
(a) Name	Andy & Rebecca McClure	Name	NA	
Address	109 Coon Whistle Hollow	Address		
	Yawkey, WV 25573			
(b) Name		7) (b) Coal C	wner(S) With D	eclaration Of Record
Address		Name	NA	
		Address		
(c) Name	NA	Name		
Address		Address		
6) Inspector	Jeffery L. Smith	7) (c) Coal L	essee with Decla	aration Of Record
Address	5369 Big Tyler Road	Name	NA	
	Cross Lanes, WV 25313	Address		
Telephone	681-313-6743			
Tereprient			-	
(2) The plat ((3) The Cons	volved in the drilling or other work; (surveyor's map) showing the well location or truction and Reclamation Plan on Form WW rosion and sediment control and for reclamati	7-9 (unless th	e well work is o	
The date	proposed for the first injection or waste of	disposal is		20 20 .
APPLICATIO	N YOU HAVE RECEIVED THESE DOC N WHICH ARE SUMMARIZED IN THE " ATION [(FORM WW-3(B)] DESIGNATED ALL.	INSTRUCT	IONS" ON THE	E REVERSE SIDE OF THE COPY OF
Notice and Ap West Virginia Application an and Reclamation	at under Chapter 22-6 of the West Virginia Copplication and accompanying documents for Department of Environmental Protection, and depicted on the attached Form WW-6. Coon Plan have been mailed by registered or ce in certain circumstances) on or before the day	a Well Work with respect opies of this ertified mail	R Permit with the to a well at the Notice, the Apport delivered by I	the Chief of the Office of Oil and Gas, the location described on the attached lication, the plat, and the Construction thand to the person(s) named above (or
1 200	The person signing this documen	nt shall mak	te the following	g certification:
"I cortificando	r penalty of law that I have personally examin	ned and	Well Operator	HG Energy, LLC
	th the information submitted in this document	ieu anu	Address	5260 Dupont Road
	d that, based on my inquiry of those individual	t and an		Parkersburg, WV 26101
	esponsible for obtaining the information, I beli		Ву:	Diane White
	n is true, accurate and complete. I am aware t	1 1	ts:	Accountant
	penalties for submitting false information, inc		is.	Accountant
	of fine and imprisonment.	_	'i a mature -	Diane White
	RECEIVED	2	Signature:	Limite while
	Office of Oil and Gas			
	EED 1 8 2020			

FEB I & SUZU



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

January 22, 2020

Andy & Rebecca McClure 109 Coon Whistle Hollow Yawkey, WV 25573

RE:

Robert Fowler No. 516

Duval District, Lincoln County

West Virginia

Dear Landowner:

Enclosed are copies of various application papers that we have filed with the West Virginia Department of Environmental Protection (WVDEP), Office of Oil and Gas. A well work permit is being requested for the above-referenced well.

Pursuant to WV Code Chapter 22B, Article 6, you are receiving copies of this correspondence because the well or other anticipated disturbance is located on your surface property. Your rights as a landowner are detailed in the enclosed permit application papers.

No action on your part is required. If you have any questions or comments regarding this application, you may call this office at (304) 420-1119.

Very truly yours,

Diane White

Diane C. White

Enclosures

RECEIVED
Office of Oil and Gas

FFB 1 8 2020

WV Department of Environmental Protection WW-9 (2/15)

API Number 47 -	
Operator's Well No.	Robert Fowler 516

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

TEODS/ COTTINGS I	DISTOSAL & RECEAVIATION LAN
Operator Name HG Energy, LLC	OP Code 494497948
	Quadrangle Griffithsville 7.5'
Do you anticipate using more than 5,000 bbls of water to co. Will a pit be used? Yes No	
If so, please describe anticipated pit waste: Fluid	ds encountered while drilling subject well
	No If so, what ml.?_ 20 mil
Proposed Disposal Method For Treated Pit Waste	es:
Reuse (at API Number Off Site Disposal (Supply form	Permit Number) in WW-9 for disposal location)
Drilling medium anticipated for this well (vertical and hori	
	c. NA
Additives to be used in drilling medium? Water, Soap, KCI	
Drill cuttings disposal method? Leave in pit, landfill, remo	oved offsite, etcOffsite Disposal at a DEP Approved Landfill
-If left in pit and plan to solidify what medium wi	ill be used? (cement, lime, sawdust)_NA
-Landfill or offsite name/permit number?	Determined Upon Approval of Permit
Permittee shall provide written notice to the Office of Oil a West Virginia solid waste facility. The notice shall be provide where it was properly disposed.	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the We provisions of the permit are enforceable by law. Violatio law or regulation can lead to enforcement action. I certify under penalty of law that I have perso application form and all attachments thereto and that,	and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable onally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for is true, accurate, and complete. I am aware that there are significant ossibility of fine or imprisonment.
Company Official Signature Diane White	
Company Official (Typed Name) Diane White	
Company Official Title Accountant	
Subscribed and sworn before me this 22nd day of	of_January , 20_20
Cled Ser	RECEIVED Notary Public Office of Oil and Gas
My commission expires $\frac{11}{2}/\frac{2021}{2021}$	FEB 1 8 2020 MG Energy MG Energy PO Box 5514, Vie My Commission Bodin

WV Department of Environmental Protection

HG Energy, LLC			A.S. 11. 11. 11. 11. 11. 11. 11. 11. 11.	
Proposed Revegetation Tre	atment: Acres Disturbed	0.3 acres	Prevegetation pl	Н
Lime	3 Tons/acre or to con	rrect to pH 6.5	,	•
Fertilizer type 10	-20-20			
Fertilizer amount_		500 lbs/acre		
Mulch_Straw	2	Tons/acre		•
		Seed Mixtures		
T	emporary		Perma	nent
Seed Type	lbs/acre		Seed Type	lbs/acre
Tall Fescue	40	Tall F	escue	40
Ladino Clover	5	Ladino	o Clover	5
**Sediment and Er	osion Control will	be in place at all	times **	
Attach: Drawing(s) of road, location provided)	, pit and proposed area fo	or land application (unle	ess engineered plans inc	cluding this info have been
Photocopied section of invo	lved 7.5' topographic shee	et.		
Plan Approved by:	Frey Smith			,
Comments: All Sed.	ment contro	1 to be	removed	prior
to release	,			
Title: Oil + Ges	Inspector	Date:	2-7-20	
Field Reviewed? () Yes	() No		CEIVED

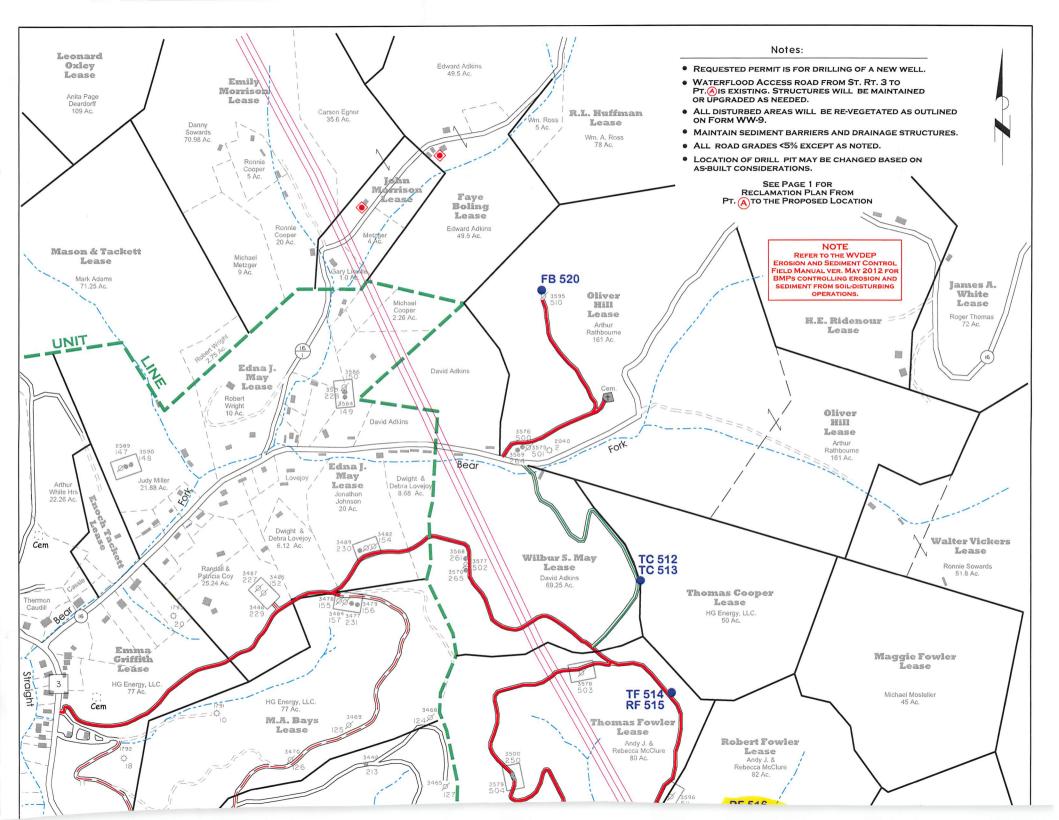
Office of Oil and Gas

FEB 1 8 2020

~1.7 Mi. to WV SR 3 **Reclamation Plan For:** See Page 2 for _____ Waterflood Road Detail Robert Fowler No.516 Robert Fowler No.517 Use approximately 3,000' of existing lease road that was upgraded in 2018 for the Robert Fowler drilling of R. Fowler No. 505 et al. Lease Andy & Rebecca McClure - Surface Thomas Fowler Location Size Lease ~80'x200' (0.4 Ac.) Andy & Rebecca McClure - Surface Cult Profe Pit Size ~100'x15'x15' 3581 °ø_506 3580 505 100' of 5-8% Grade 300' of 0-5% Grade NOTE: ART OF THE LOCATION BUILT IN 2018 AS PER RECEIVED Office of Oil and Gas ERMIT NO.47-043-03580 WILL BE UTILIZED. ROAD AND RECLAMATION ARE COMPLETE. E&S STRUCTURES ARE IN PLACE. FEB 1 8 2020 **NEW DRILL PIT WILL BE CONSTRUCT** 200' of 5-8% Grade WV Department of Environmental Protection Notes: REQUESTED PERMIT IS FOR DRILLING OF NEW WELL. ALL ACCESS ROADS ARE EXISTING AND WILL BE MAINTAINED TO WVDEP STANDARDS. NEW STRUCTURES WILL BE INSTALLED AS SHOWN. STOCKPILE TOPSOIL FOR RE-DRESSING LOCATION NOTE **DURING RECLAMATION** REFER TO THE WVDEP ALL DISTURBED AREAS WILL BE RE-VEGETATED AS OUTLINED **EROSION AND SEDIMENT CONTROL** ON FORM WW-9. FIELD MANUAL VER. MAY 2012 FOR **BMPs** CONTROLLING EROSION AND MAINTAIN SEDIMENT BARRIERS AND DRAINAGE STRUCTURES. SEDIMENT FROM SOIL-DISTURBING OPERATIONS. ALL ROAD GRADES <5% EXCEPT AS NOTED. LOCATION OF DRILL PIT MAY BE CHANGED BASED ON AS-BUILT CONSIDERATIONS. STACK BRUSH BELOW DISTURBED AREAS FOR SEDIMENTATION CONTROL.

Drawing Not to Scale.

PAGE 1





JANUARY 2, 2020

GRIIFTHSVILLE WATERFLOOD

Lincoln County, W.Va.

RECLAMATION PLAN SHOWING ROAD SYSTEMS TO BE USED FOR 2020 **DRILLING PROGRAM**

- 1. REFER TO THE WVDEP EROSION AND SEDIMENTATION CONTROL MANUAL (VER. May 20, 2013) FOR BMP's CONTROLLING **EROSION AND SEDIMENTATION FROM ALL** SOIL-DISTURBING OPERATIONS.
- 2. SEE PAGE ONE OF RECLAMATION PLAN FOR DETAILS OF NEW ROAD CONSTRUCTION AND ROAD UPGRADES FROM POINT (A) TO DRILL SITE LOCATION.
- 3. EXISTING WATERFLOOD ACCESS ROADS WILL BE MAINTAINED IN PRESENT CONDITION. THESE ROADS WERE CONSTRUCTED UNDER CONDITIONS SET FORTH IN VARIOUS DRILLING PERMITS ISSUED BY WVDEP-OOG PRIOR TO 2015 (As Shown). SEE PERMITS ON FILE FOR MORE DETAIL.

EXISTING WATERFLOOD ROADS TO BE USED.

OTHER EXISTING MAIN WATERFLOOD ROADS (POSSIBLE ACCESS).

EXISTING LEASE OR FARM ROADS TO BE UPGRADED.

NEW ROADS TO BE CONSTRUCTED.

RF 516 LOCATION FOR PROPOSED WELLS

> POTENTIAL WATER SUPPLY SOURCE TO BE SAMPLED (LOC. APPROX.)

PAGE 2

WW-2B1	
(5-12)	

V	١	le	No.	Robert Fowler 516

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name

Sturm Environmental Labs

Sampling Contractor

Sturm Environmental Labs

Well Operator HG Energy, LLC

Address

5260 Dupont Road

Parkersburg, WV 26101

Telephone

304-420-1119

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

> No water sources identified within 1000 feet of proposed well site.

RECEIVED Office of Oil and Gas Mr. and Mrs. Andy McClure have water sources about 1200 feet from the well site. They've been tosted several times in the past 12 months and are tosted

upon request by the surface owners.

MAR 1 7 2020

WV Department of **Environmental Protection**

47-043-036165

