

west virainia 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, April 21, 2020 WELL WORK PLUGGING PERMIT Vertical Plugging

LEATHERWOOD, LLC 1000 CONSOL ENERGY DRIVE

CANONSBURG, PA 15317

Re:

Permit approval for 1 47-049-00682-00-00

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: 1

Farm Name: GLOVER, REBECCA

U.S. WELL NUMBER: 47-049-00682-00-00

Vertical Plugging

Date Issued: 4/21/2020

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 Jan.	24, 2020
2) Operator's	
Well No. #1	
3) API Well No.	47-049 - 00582

STATE OF WEST VIRGINIA

	ONMENTAL PROTECTION OIL AND GAS
APPLICATION FOR A PERM	IT TO PLUG AND ABANDON
4) Well Type: Oil X / Gas _ / Liquid (If "Gas, Production _ or Und	erground storage) Deep/ Shallow_X
5) Location: Elevation 1425'	Watershed Buffalo Creek
District Mannington	County Marion Quadrangle Glover Gap
6) Well Operator Leatherwood, LLC Address Canonsburg, PA 15317	7) Designated Agent Sandra Halstead Address 1627 Quarrier Street Charleston WV, 25311-2124
8) Oil and Gas Inspector to be notified	9) Plugging Contractor
Name Sam Ward	Name Coastal Drilling East Road
Address PO Box 2327	Address 70 Gums Springs Road
Buckhannon, WV 26201	Morgantown, WV 26508
See attached plugging and abandonn	
Notification must be given to the district owork can commence.	il and gas inspector 24 hours before permitted
Work order approved by inspector	Date 2/office of Direct Grad Gas

MAR 0 9 2020

WV Department of Environmental Protection R Glover #1

Mannington District

Location: Glover Gap

Proposed Plug & Abandonment Procedure:

The work order for the manner of plugging this well is as follows:

We will rig up on site and any tubing, cable or rods present will be removed from the well. We will run in the hole to determine the total depth of the well. Next, we will run wire line in hole and run a caliper/bond log. After the log, we will run work string to the attainable bottom. A bottom cement plug will be set from the attainable to a minimum of 100'. After 8 hours WOC, we will run in hole and tag to confirm plug is set and top if necessary. We will attempt to pull any remaining pipe. If unable to pull, the pipe will be perforated and cemented to surface. No gel spacers will be used. Once complete, a monument with API number will be set on the well bore at the surface. All plugging shall comply with WV code Chapter 22 article 6.

The disturbed area shall be graded, seeded and mulched as required. The site will then be reclaimed as soon as possible.

Notify the inspector if unable to remove pipe prior to perforating and cementing.

SOW 2/7/2020

RECEIVED
Office of Oil and Gas

MAR 0.9 7020

WV Department of Environmental Protection



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION



WELL RECORD

Permit No. MA	R-6		WELL	RECORL)	Oil or Ga	Well GAS
		ral Gas Co.		Casing and	Used in	Left in	Packers
en and a second	tsburgh, P	The second secon		Casing and Tubing	Used in Drilling	Well	Pacaers
Farm Wel:	ls & Glove	r	Acres 40	Size			
Location (waters)				16			Kind of Packer
Well No. 145			Elev. 1285 Marion	18 Wood Con	161		Billin VI Z Buddi
TATOAR IC	nington	County			2601		Size of
The surface of tr			***************************************	814	16401		Stize of
		Address		6%	23651		Depth set
Mineral rights ar		A 2.1		58/16			20000
Deilling comment		Address		8			Perf. top
				2			Perf. bottom
			0	Liners Used			Perf. top
With							Perf. bottom
Open Flow	/10ths Water	in	Inch	1	1		
	/10ths Merc.	in	Inch	CASING CEME	INTEDS	IZE	Io. FtDate
					Language (Mary 10) (1) (1)	-	
		Iba		COAF TO A TO	NCOUNTERED .	AT 1055	PEETINCHES
			bbls., 1st 24 hrs.	1059	36 INCH		
Fresh water		fest					PEETINCHES
Salt water		168	feet	- ERL		1	BEI MGHED
Formation	Color	Hard or Soft	Top	Bottom.	Oil, Gas or Water	Depth Found	Remarks
Honductor				16			
Mapleton Co	al		1055	1058			
Pittsburgh			1155	1165			
Little Dunk			1545	1575			
Big Dunkard Gas sand			1630 Shells	1680			
1st salt sa	n d		n			printer.	
2d salt san			13				1
Maxton sand Little lime				2100			
Pencil Cave			2335 Shells	2345			
Big lime			2350	2419			
Big Injun			2419	2625			nd 2-6 bailers
Gantz sand			Shells 3111	31.40	water ever	y za nrs.	
30° send			31.68	3188	Hole reduc	ed at 313	21
Gordon Stra			3210	3240	Gas at 312	5-31271 2	/10 W in 200
Gordon sand 4th sand		**	3343 3343	3370 3370	Oil at 318 Gas at 329	2:	
5th sand			3389	3410	Gas at 329		-
Bayard sand			3530	3535			1 All test 8/10 W.
					Gas at 339		in 2"
					Gas at 353 Blew down		
					praw down	00 23/IU	
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							2/12/2010
							Office of Oil and G
meninches and in the second							MAD DO 202
							MAR 0 9 702
							WV Department
an anger							Environmental Prote

(Over)

Well	is located on topo map <u>1,135</u> feet south of	
STAKE		
TIMOTHY E. & JANET L. JONES		OIL & GAS WELLS WITHIN 1200 ft.
It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.	DALE & KATHRYN KUHN	WITHIN 1200 IC.
CIVIL ENVIRONMENTAL CONSULTING «FIELD SERVICES 600 WHITE OAKS BOULEVARD, BRIDGEFORT, WY 2830 PHONE (200) 424-41474 X (200) 424-731		REFERENCE NOT TO SCALE
PHONE (304) 624-4108#AX (304) 624-7831	I,THE UNDERSIGNED, HEREBY CERTIFY THAT	THIS WILLIAM GEORGE Q STATE OF NEXT THE
FILE #: R GLOVER 1 DRAWING #: R GLOVER 1 SCALE: 1" = 400' MINIMUM DEGREE	PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE A BELIEF AND SHOWS ALL THE INFORMATION REQUIRED LAW AND THE REGULATIONS ISSUED AND PRESCRIBED THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.	BY No. 2000
OF ACCURACY: 1/2500	Signed: PRELIMINAR	Y ROMAL SURGING
PROVEN SOURCE U.S.G.S. MONUMENT THOMAS 1498.81'	R.P.E.: L.L.S.: P.S. No. 200	PLACE SEAL HERE
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	OPERATOR'S WELL # API WELL #: 47	49 00682
Well Type: Oil Waste Disposal	STATE Production Deep	COUNTY FERMIT
Gas Liquid Injection	Storage X Shallow	
WATERSHED: BUFFALO CREEK	ELEVATION:	1425' RECEIVED
COUNTY/DISTRICT: MARION/MA	ANNINGTON QUADRANGLE: GL	Will and Can
SURFACE OWNER: MARY L. FREELAND	C/O MATTHEW FREELAND ACREA	AGE: 44 MAR 1 9 2020
	UNKNOWN ACREA	AGE:
DRILL CO	NVERT DRILL DEEPER REDRILL FRAD FORMATION PERFORATE NEW FORMATION	CTURE OR STIMULATE Department of
	REPLUG OTHER CHANGE (SPECIFY):	
TARGET FORMATION: GREENLAND		ГЕD DEPTH:3544'
WELL OPERATOR LEATHERWOOD	DESIGNATED AGENTJ	OHN C. BAKER JR.
Address 1000 CONSOL ENERGY DRIV		ate WV Zip Code 26003
State FA	Zap code 10017 City WHEELING Ste	Zip Code 2000

00682

WW-4A Revised 6-07

1)	Date:	3/13/2020	
2) #1	Operator's Well	Number	

049

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

3) API Well No.: 47 -

(a) Name	r(s) to be served: Mary L Freeland c/o Matti		a) Coal Operator Name	N/A	
. ,	2608 Whispering Pine L		- Address	107	
_	Marion, IL 62959	aric V	Addiess		THE RESIDENCE OF THE PARTY OF T
(b) Name	Marion, IL 02000		(b) Coal Own	ner(s) with Declaration	
Address			Name	Consol Mining Company LLC/ Rese	erve Coal Properties Company
Address			Address	1000 Consol Energy Drive	
-				Canonsburg, PA 15317	
(c) Name			Name		
Address			Address		
-			_		
6) Inspector	Sam Ward		(c) Coal Less	see with Declaration	***************************************
_	PO Box 2327		Name	N/A	
-	Buckhannon, WV 26201		Address		
-	04 389-7583				
	CANADA CONTRACTOR OF THE STATE				
well its a (2) The plat The reason you	and the plugging work (surveyor's map) sho	c order; and wing the well location ats is that you have rig	on on Form WW-6.	sets out the parties involved in the	
well its a (2) The plat The reason you However, you a Take notice tha accompanying Protection, with	and the plugging work (surveyor's map) sho received these documer are not required to take an at under Chapter 22-6 of documents for a permit to a respect to the well at the	a order; and wing the well location ats is that you have rig my action at all. the West Virginia Cod to plug and abandon a v me location described on mailed by registered	the the interest of the attached Application or certified mail or deli	•	is Notice and Application and Department of Environmental WW-6. Copies of this Notice,
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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.

API No.	47-049-00682 P
Farm Name	
Well No.	R Glover #1

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

has examined this proposed plugging work order.	ner X / lessee / of the coal under this well location. The undersigned has no objection to the work proposed to be that complied with all applicable requirements of the West
Date: 01/23/2020	By: Casey V. Sounders Its Manager Coal/Gas Goodhatton

RECEIVED
Office of Oil and Gas

MAR @ 9 2029

WV Department of Environmental Protection

Member, Pennsylvania Association of Notaries

WW-9 (5/16)

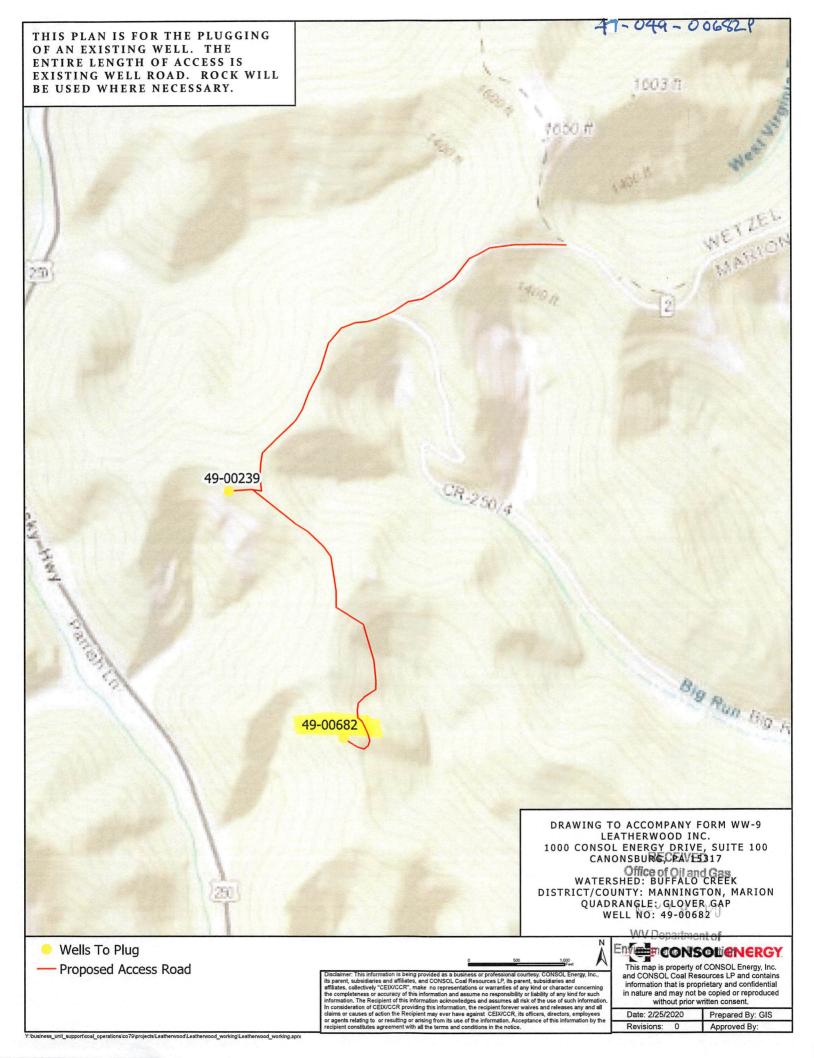
API Number	47 -	049	_	00682
Operator's W	ell No). #	1	ATTENDED TO THE STATE OF T

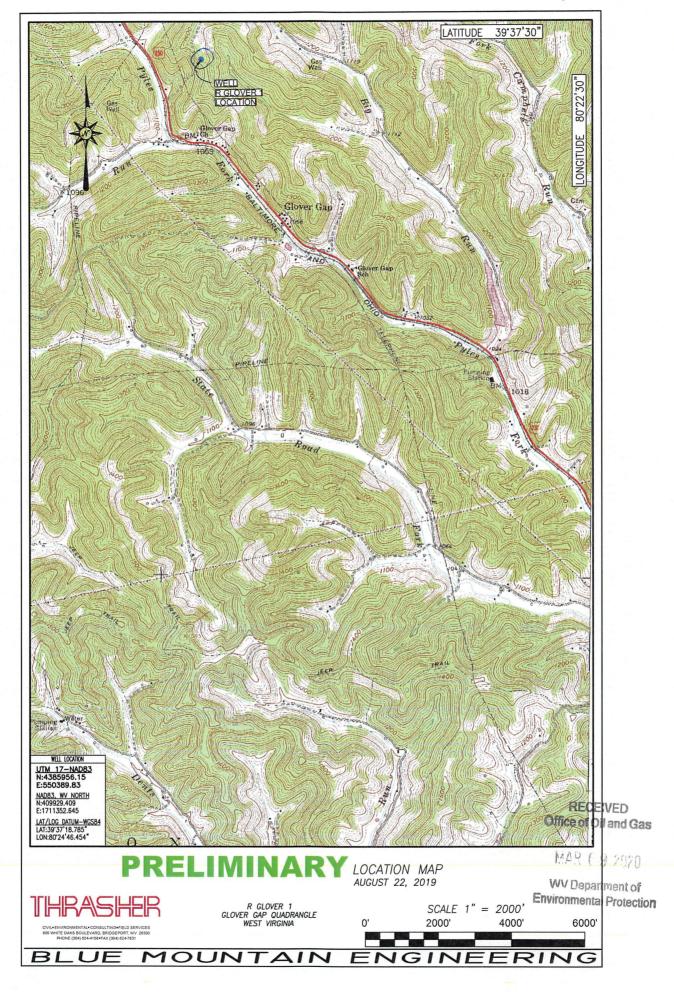
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

C	N. LEWIN
	Code 494476721
Watershed (HUC 10) Buffalo Creek Quadrangle Glover	processing processing
Do you anticipate using more than 5,000 bbls of water to complete the proposed well wo Will a pit be used? Yes No	ork? Yes No
If so, please describe anticipated pit waste: Will a synthetic liner be used in the pit? Yes No If so, wh	
	at ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application (if selected provide a completed form WW- Underground Injection (UIC Permit Number Reuse (at API Number	-9-GPP)))
Off Site Disposal (Supply form WW-9 for disposal location)	
Other (Explain Waste Management or Ryan Environmental will use vacuum truck	0
Will closed loop systembe used? If so, describe: No	500 21717020
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil to	
-If oil based, what type? Synthetic, petroleum, etc	
Additives to he used in drilling medium? N/A	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A	
-If left in pit and plan to solidify what medium will be used? (cement, lime, say	
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Cas of any load of drill cu West Virginia solid waste facility. The notice shall be provided within 24 hours of reject where it was properly disposed.	ttings or associated waste rejected at any ion and the permittee shall also disclose
I certify that I understand and agree to the terms and conditions of the GENERA on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environce of the permit are enforceable by law. Violations of any term or condition of the or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am famil application form and all attachments thereto and that, based on my inquiry of those individue information, I believe that the information is true, accurate, and complete. I am a submitting false information, including the possibility of fine or imprisonment.	ironmental Protection. I understand that the ne general permit and/or other applicable law itar with the information submitted on this iduals immediately responsible for obtaining ware that there are significant permitties for
Company Official Signature Danny Calwell	MAD A C coop
Company Official (Typed Name) Danny Caldwell	MAR 0 9 2020
Company Official Title Maintenance Coordinator	WV Department of
	Environmental Protection
Subscribed and sworn before me this 24 day of January	, 20 20
Christopher a. Rabbatt	Commonwealth of Pennsylvania - Notary Seal Christopher A. Rabbitt, Notary Public Washington County
My commission expires 1/18/2024	Mycommission expires January 18, 2024 Commission number 1266666

Environmental Protection

RECEIVED Office of Oil and Date: 2/7/2020	Proposed Revegetation Treats	ment: Acres Disturbed	Less than I acre Prevegetation	on pH
Fertilizer amount 500 Mulch Hay or straw 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40 Landino Clover 5 Autach: Landino Clover 5	Lime 2-3	Tons/acre or to con	rect to pH	
Seed Mixtures Temporary Seed Type Ibs/acre Seed Type Ibs/acre Tall Fescue 40 Landino Clover 5 La	Fertilizer type 10-2	0-20 or equivalent		
Seed Mixtures Temporary Seed Type Ibs/acre Tall Fescue 40 Tall Fescue 40 Landino Clover 5 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 application rea. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Daments: RECEIVED Offfice of Oil and	Fertilizer amount_50	00	lbs/acre	
Temporary Seed Type Ibs/acre Tall Fescue 40 Tall Fescue 40 Landino Clover 5 Land	Mulch Hay or stra	aw 2	Tons/acre	
Seed Type Ibs/acre Tall Fescue 40 Landino Clover 5 Landino Clove			Seed Mixtures	
Tall Fescue 40 Landino Clover 5 Landino Clover	Тег	mporary	Per	rmanent
Attach: Adaps(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: RECEIVED Office of Oil and Citile: 2006 Passector. Date: 2/7/2020	Seed Type	lbs/acre	Seed Type	lbs/acre
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RECEIVED Office of Oil and Date: 2/7/2020	Maps(s) of road, location, pit rovided). If water from the p	oit will be land applied, j	provide water volume, include dimensions	
Office of Oil and Date: 2/7/2020	Maps(s) of road, location, pit provided). If water from the p L, W), and area in acres, of t Photocopied section of involv	pit will be land applied, j the land application area wed 7.5' topographic she	provide water volume, include dimensions et.	s (L, W, D) of the pit, and dimensions
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Title: OOG Inspector Date: 2/7/2020	Maps(s) of road, location, pit rovided). If water from the pL, W), and area in acres, of the rotocopied section of involved and Approved by:	pit will be land applied, j the land application area wed 7.5' topographic she	provide water volume, include dimensions et.	s (L, W, D) of the pit, and dimensions
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WV Departr	Maps(s) of road, location, pit provided). If water from the part of the part o	pit will be land applied, pithe land application area wed 7.5' topographic she	provide water volume, include dimensions et.	RECEIV Office of Oil







West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

_{API:} 47-049-00682	WELL NO.: 1	
FARM NAME: R. Glover		
RESPONSIBLE PARTY NAME: _	Danny Caldwell	
COUNTY: Marion	bistrict: Mai	nnington
QUADRANGLE: Glover Gap	0	
SURFACE OWNER: James F		
ROYALTY OWNER:		
UTM GPS NORTHING: 43859	56.15	
UTM GPS EASTING: 550389.	.83 GPS ELEVATION	_{ON:} _1425'
The Responsible Party named above Is preparing a new well location plat for above well. The Office of Oil and Gast the following requirements: 1. Datum: NAD 1983, Zone: height above mean sea lev. 2. Accuracy to Datum – 3.05 3. Data Collection Method: Survey grade GPS X : Post Pro-	a plugging permit or assigned As will not accept GPS coordinates 17 North, Coordinate Units: metel (MSL) – meters. meters	PI number on the s that do not meet
	ne Differential	
Mapping Grade GPS: Post l	Processed Differential	
Real-	Time Differential	
4. Letter size copy of the to I the undersigned, hereby certify this belief and shows all the information represcribed by the Office of Oil and G	equired by law and the regulation	mowledge Office of Oil and Gas
Signature / Carlotte	Title	/ / Environmental Protection Date