

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Friday, August 26, 2022 WELL WORK PLUGGING PERMIT Coal Bed Methane Well Plugging

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re: Permit approval for HARVEY 1C

47-081-01386-00-00

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: HARVEY 1C

Farm Name: CHAMBERS, ARLENE F.

U.S. WELL NUMBER: 47-081-01386-00-00

Coal Bed Methane Well Plugging
Date Issued: 8/26/2022

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. 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.

) Date	Þ	4	7	0	8.1	0	1	3	86	P
Opera										

2) Operator's
Well No. Kanawha Shoals 1-C
3) API Well No. 47-081 - 01386

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas X / Liquid	d injection/ Waste disposal/
	(If "Gas, Production X or Unc	derground storage) Deep/ Shallow X
5)	Location: Elevation 2233.9 ft	Watershed Brechenridge Creek of Marsh Fork
0 /	District Trap Hill	County Raleigh Quadrangle Arnett
6)	Well Operator Diversified Production, LLC	7) Designated Agent Jeff Mast
	Address 414 Summers Street	Address 31 Hickory Drive
	Charleston, WV 25301	Barboursville, WV 25504
8)	Oil and Gas Inspector to be notified	9) Plugging Contractor
0)	Name Gary Kennedy	Name R & J Well Services
	Address 66 Old Church Lane	Address P.O. Box 40
	Pipestem, WV 25979	Hueysville, KY 41640-0040
	See Atta	ached
		RECEIVED Office of Oil and Gas
		MAY 0 3 2022
		WV Department of Environmental Protection
Noti work	fication must be given to the district of can commence.	il and gas inspector 24 hours before permitted
Wor}	order approved by inspector	havef Date 4/29/22

Plugging Prognosis

API#: 4708101386

Casing Schedule:

13 3/8" @ 33 CTS 9 5/8" @ 397' CTS 7" @ 937' CTS

TD listed as 1,100'

Estimated lateral from plat

- C Hole (81-01386)
 - o 17,000' x 4.75" Hole ID = 2,092 Cu ft = 465 BBL w/ 125% excess

Fresh Water: None listed Salt Water: None listed Gas Shows: None listed Oil Shows: None listed Coal: 500', 776', 984', 1028'

MUST USE EXPANDING COMENT

Her

Elevation: 2232

- 1. Notify Inspector Gary Kennedy @ 304-382-8402, 48 hrs prior to commencing operations.
- 2. Record pressure on csg.
- 3. TOOH w/ rods and tbg.
- 4. Kill well with gel as needed. Then proceed to load wellbore with gel to a minimum of 125% (465 BK) capacity until wellbore is filled.
- 5. Proceed to load wellbore with bentonite pellets. Top is not to exceed 987'
- TIH w/ tbg to 987'. Pump 640' C1A cement plug from 987' to 347' (7" & 9 5/8" csg shoe plug & Coal SHows). Tag TOC
- 7. TOOH w/ tbg to 347'. Pump 6% bentonite gel spacer from 347' to 100'.
- 8. Confirm 7" csg is cemented to surface. If not TOOH w/ tbg. Free point csg and set plug 50' in/out of cut for total of 100'.
- 9. TOOH w/ tbg to 100'. Pump 100' C1A cement plug from 100' to surface
- 10. Reclaim site and set monument per WV DEP regulations.

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Office of Oil and Gas

MAY 03 2022

WV Department of Environmental Protection WR-35

DATE: 07/05/2007 API#:: 4708101386C

State of West Virginia Division of Environmental Production Section of Oil and Gas

Well Operator	s Report of W	ell Work			
Farm Name Arlene F. Chambers		Operato	r Well No.: KANA	WHA SHOALS	IC
LOCATION Elevation: 2232.89		Quadran	gle: Arnett 7 1/2'		
District: Trap Hill		County: Rale	igh		
Latitude: 9290 Feet South of 37	Deg. 47	Min. 30	Sec.		
Longitude: 5920 Feet West of 81	Deg. 25	Min. 00	Sec.		
Company:					
Penn Virginia Oil & Gas Corporation	Casing and Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.	
Address: 2550 East Stone Drive, Suite 110	13 3/8	33	33	11.8	_
Kingsport, TN 37660	9 5/8	397	397	177	
Agent: Bryant Bowman	7	937	937	265.5	
Inspector: Terry Urban					
Date Permit Issued: 12/05/2005					_
Date Well Work Commenced:	-				_
Date Well Work Completed: 04/24/2006					
Verbal Plugging: Date Permission granted on: Rotary X Cable Rig	-				_
Total Depth (feet): 1,100	-		F		
Fresh Water Depth (ft):	-	1			
None Reported					_
Salt Water Depth (ft):					
None Reported					
Is coal being mined in area (N/Y)? N					
Coal Depths (ft):	1				RECEIVED
500-502; 776-779; 984-986; 1028-1031			Spe		Office of Oil and Gas
OPEN FLOW DATA	l,	ŀ	1	t e	MAY 0 3 2022
OPEN FLOW DATA					MAI U D LOCK
Producing formation Lower Beckley Coal		Pay	zone depth (ft)	1,034	
Gas: Initial open flow NA MCF/d O	il: Initial open flov		3bt/d		WV Department of
	nal open flow	Bbl/d			Environmental Protection
Time of open flow between initial and final t		Hours			
Static rock pressure psig (surface	pressure) after _	Hour	S		
Second producing formation		Pay zone	depth (ft)	4.0	1
Gas: Initial open flow MCF/d C	Dil: Initial open flo	w	Bbl/d		1
Final open flow MCF/d F	inal open flow	Bbl/	d		
Time of open flow between initial and final t	ests:	Hours			F
Static rock pressurepsig (surface pr	ressure) after _	Hour	s		A
NOTE: ON BACK OF THIS FORM PUT THE FOLLINTERVALS, FRACTURING OR STIMULATING, PWHICH IS A SYSTEMATIC DETAILED GEOLOGIC COAL ENCOUNTERED BY THE WELLBORE.	HYSICAL CHAN	E, TEC. 2). TH	E WELL LOG		38
Signed: MRHDEL E. STOP	MPER			CHEMOS OF C.	6
By: Thenade of	The same of the sa			ingt "	09/02/2022
Date: 1/.5/07				l	iment of ion!

FORM WR-35R (REVERSE)

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

PERMIT #:4708101386C WELL #: KANAWHA SHOAL

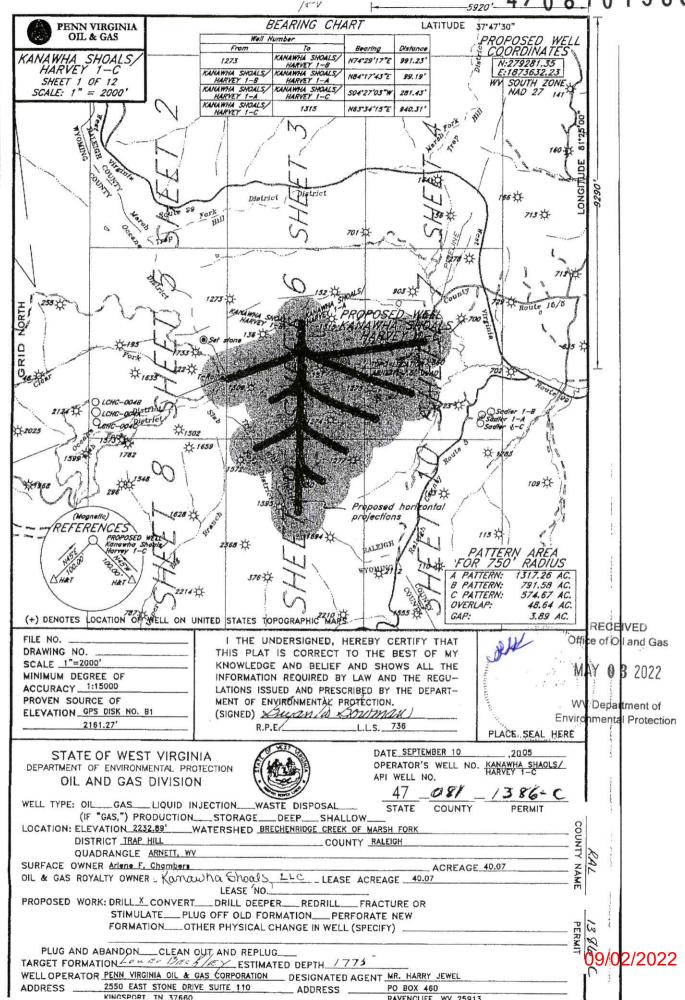


		0	
FORMATIONS	TOP	воттом	REMARKS
	320		
Sand/Shale	. 0	400	
Beckley Coal	1028	1031	
Sand/Shale	1031	TD	
Shale	400	460	
Sand	460	500	
Coal	500	502	
Sand/Shale	502	620	
Sand	620	700	
Sand/Shale/Coal	700 -	776	٧.
Coal	776	779	4
Sand	779	984	
Coal	984	986	
Sand/Shale	986	1028	

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Office of Oil and Gas

MAY 03 2022

WV Department of Environmental Protection



RAVENCLIFF, WY 25913

WW-4A Revised 6-07

1) Date:	April 25, 2022				
2) Operator's Kanawha Sho		er			
2) API Well h	Jo · 47 -	081	-	01386	

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

4)	Surface Own (a) Name	er(s) to be served: Joshua & Raylene Caron	5) (a) Coal Operator Name	None
	Address	P.O. Box 936	Address	
		Bolt, WV 25817		
	(b) Name		(b) Coal Own	ner(s) with Declaration
	Address		Name	Joshua & Raylene Caron
	Address		Address	P.O. Box 936
			9 9550	Boll, WV 25817
	(c) Name		Name	
	Address		Address	
	nauross			
6)	Inspector	Gary Kennedy	(c) Coal Les	see with Declaration
-/	Address	66 Old Church Lane	Name	No Declaration
		Pipestem, WV 25979	Address	
	Telephone	304-382-8402		
	•			

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.

OFFICIAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Phyllis A. Copley 144 Willard Circle Hurricane, WV 25528 My Commission Expires September 16, 2023	Well Operator By: Its: Address Telephone	Diversified Production, LLC Jeff Mast Director Technical Services 414 Summers Strret Charleston, WV 25301 304-543-6988	Office of Oil and Gas
Subscribed and sworn before me th	a. Coltra	day of Of 20 20 A 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.

4708101386

47-081-01386 Kanawha Shoals I-C

58	U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only
	For delivery information, visit our website at www.usps.com®.
LJ 52	OFFICIAL USE
52	Certified Mail Fee \$3.75 \$
1000	Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Delivery \$
2450	Postage \$2.36
ח	Kanawha-Shoals I-A, I-B and I-C
	Joshua & Raylene Caron
7020	P.O. Box 936 396 Bolt, WV 25817
h	for Instructions

Office of Oil and Gas

APR 27 2022

WV Department of Environmental Protection WW-9 (5/16)

API Number 47 - 081 - 01386

Operator's Well No. Kanawha Shoals 1-C

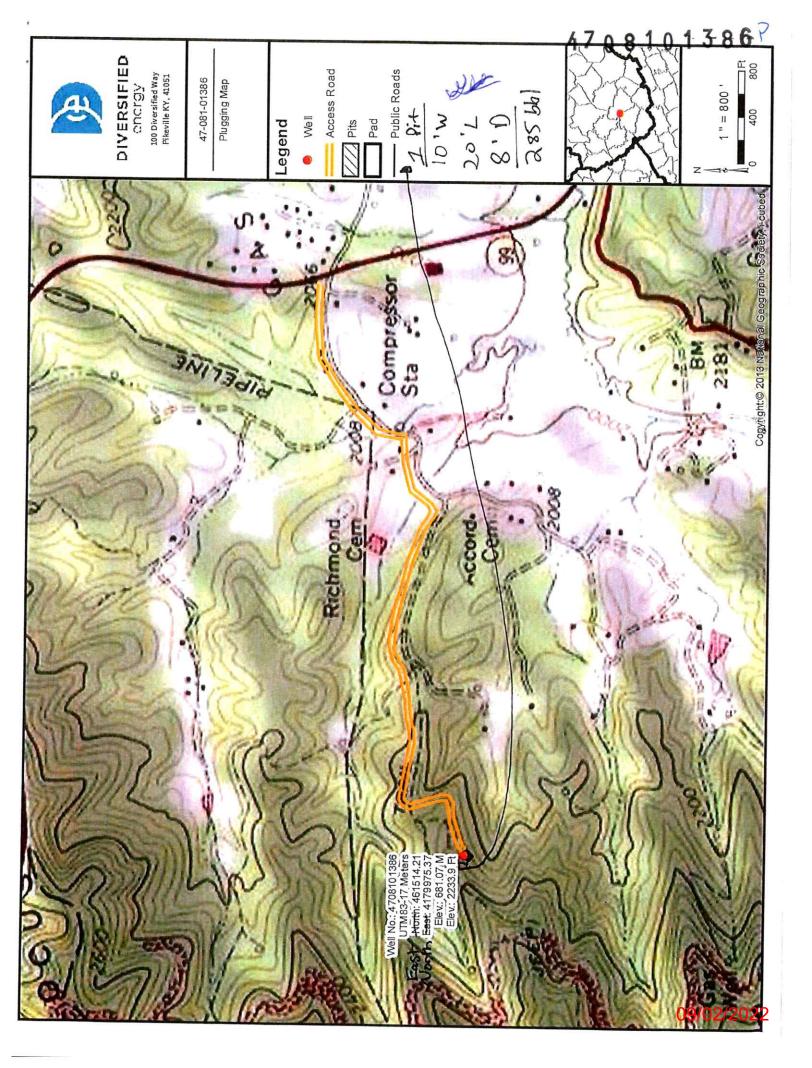
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

TEGERAL COLLINS SIGNOSTE & RESERVANTES (12.1)
Operator Name Diversified Production, LLC OP Code 494524121
Watershed (HUC 10) Brechenridge Creek of Marsh Fork Quadrangle Arnett
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No No
Will a pit be used? Yes V No No
If so, please describe anticipated pit waste: Produced fluid and cement returns
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 Twin Branch 47471511) 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: N/A
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A RECEIVED Office of Oil and Gas
-If oil based, what type? Synthetic, petroleum, etc. N/A
Additives to be used in drilling medium? N/A MAY 0 3 2022
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. N/A WV-Department of
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A Environmental Protection
-Landfill or offsite name/permit number? N/A
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 o btaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penaltics for submitting false information, including the possibility of fine or imprisonment.
Company Official Signature STATE OF WEST VIRGINIA Phyllis A. Copley
Company Official (Typed Name) Jeff Mast 144 Wilard Circle Hurricane, WV 25526
Company Official Title Director Technical Services My Commission Expires September 18, 2023
Subscribed and sworn before me this 25% day of april , 2022 Phyllip a. Capily Notary Public My commission expires September 16, 2023

Form WW-9

roposed Revegetation Trea	tment: Acres Disturbed 1 +/-	Preveg etation pF	
Lime 3	Tons/acre or to correct to pH	605	
Fertilizer type	10-20-20 or equivalent		
Fertilizer amount		s/acre	
Mulch_2	Tons/a	cre	
	Seed	l <u>Mixtures</u>	
Т	emporary	Perma	nent
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, porovided). If water from the L, W), and area in acres, o	oit and proposed area for land applicate pit will be land applied, provide was fithe land application area.	ation (unless engineered plans includater volume, include dimensions (L,	ding this info have been W, D) of the pit, and dimension
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, o	e pit will be land applied, provide was fthe land application area. Dived 7.5' topographic sheet.	ater volume, include dimensions (L,	RECEIVED
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, or Photocopied section of involved and Approved by:	e pit will be land applied, provide was fithe land application area. Dived 7.5' topographic sheet.	ation (unless engineered plans include timensions (L,	RECEIVED
Attach: Maps(s) of road, location, porovided). If water from the L, W), and area in acres, or Photocopied section of involved Approved by:	e pit will be land applied, provide was fithe land application area. Dived 7.5' topographic sheet.	ater volume, include dimensions (L,	RECEIVED Office of Oil and Ga
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WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELLEO	CATION FORM. GIS					
_{API:} 4708101386	WELL NO.: 1	-C				
FARM NAME: Arlene F Chambers						
RESPONSIBLE PARTY NAME: Diversified Production LLC						
_{COUNTY:} Raleigh	DISTRICT: Tra	ap Hill				
QUADRANGLE: Arnett, W						
SURFACE OWNER: Joshua	Caron and Raylene	e Caron				
ROYALTY OWNER: Summit	Nat. Resources & DP E	Bluegrass LLC				
UTM GPS NORTHING: 41799	975.37	·				
UTM GPS EASTING: 461514	······································	_{ION:} 2233.9				
The Responsible Party named above preparing a new well location plat for above well. The Office of Oil and Gathe following requirements: 1. Datum: NAD 1983, Zone height above mean sea let 2. Accuracy to Datum – 3.0. 3. Data Collection Method: Survey grade GPS: Post Pro-	er a plugging permit or assigned Assas will not accept GPS coordinates: 17 North, Coordinate Units: movel (MSL) – meters. 5 meters	API number on the es that do not meet eters, Altitude: RECEIVED Office of Oil and Gas				
	ime Differential	MAY 0 3 2022				
Mapping Grade GPS X : Post		WV Department of Environmental Protection				
	required by law and the regulation	knowledge and				
Signature	Title	Date				



Kennedy, James P < james.p.kennedy@wv.gov>

plugging permits issued 4708101384, 08101385, 08101386

1 message

Kennedy, James P < james.p.kennedy@wv.gov>

Fri, Aug 26, 2022 at 2:23 PM

To: Phyllis Copley <pcopley@dgoc.com>, Gary L Kennedy <gary.l.kennedy@wv.gov>, Austin Sutler <asutler@dgoc.com>, raleigh@wvassessor.com

To whom it may concern, plugging permits have been issued for 4708101384, 08101385, 08101386.

James Kennedy

WVDEP OOG

4 attachments







