

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

Wednesday, August 5, 2020 WELL WORK PLUGGING PERMIT Vertical Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for GARRISON 1810 47-033-01086-00-00

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: GARRISON 1810

Farm Name: LUSTER & PAULINE CAROT

U.S. WELL NUMBER: 47-033-01086-00-00

Vertical Plugging Date Issued: 8/5/2020

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. 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.
- 4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

WW-4B Rev. 2/01

1) Date May 1	9 , 20	20
2)Operator	's	
Well No.	657056 Myrtle R Garrison #1	1810
3) API Well	No. 47-033 - 01	086

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

	APPLICATION FOR A PER	MIT TO PLUG AND A	BANDON
4)	Well Type: Oil/ Gas X/ Liquidate (If "Gas, Production or Und		
5)	Location: Elevation 1204'	Watershed Cunning	gham Creek
	District Eagle - Outside		Quadrangle Wallace 7.5'
6)	Well Operator EQT Production Company	7)Designated Age	ent Joseph C. Mallow
	Address 400 Woodcliff Drive	Addre	115 Professional Place
	Canonsburg PA 15317		Bridgeport WV 26330
8)	Oil and Gas Inspector to be notified Name Sam Ward	- / 5 5 5	actor Carbon Well Service
	Address PO Box 2327	Address PC	O Box 995
	Buckhannon, WV 26201	Ви	uckhannon WV 26201
			MAY 2 2 2020 WV Department of Environmental Protection
work	Fication must be given to the district oi can commence. order approved by inspector		
	1	- Vinney	2/29/29/20

PLUGGING PROGNOSIS

Garrison #1810 (657056) API# 47-033-01086 District; Eagle Harrison County, WV

BY: J. Horvath DATE: 5/20/2020

CURRENT STATUS:

TD @ 3620 Elevation (a) 1293'

113/4" csg @ 333' (160sks) 8 5/8" csg @ 1588' (cas 60sks.) 4 1/2" csg @ 3620' (80 sks) (cem top 1256)

Fresh Water @ 25'

Saltwater @ None reported

Oil Show

@ None reported

Gas Shows @ None reported @ 275-281, 298-305

Coal

Perforations @ See attached sheet

RECEIVED Office of Oil and Gas

MAY 2 2 2020

WV Department or Environmental Protection

- 1. Notify inspector, Sam Ward 304-389-7583, 24 hours prior to commencing operations.
- 2. TIH check TD @ or below 3650', circ. 6% gelled water, followed by 200' C1A cem plug, 3651' to 3461'. (Perfs from 3565' - 3593'). WOC 8hrs and then tag TOC. ADD CEMENT IF NEEDED.
- 3. TOOH w/tbg to 2477', set 175' ClA cem plug from 2427' to 2252'. WOC 8 hrs., Tag TOC (Perfs 2377-2302). ADD CEMENT IF NEEDED.
- 4. TOOH w/tbg to 1769', Set 100'CIA cem plug 1769' to 1669 (perfs 1719-1704'
- 5. TOOH w/tbg free point 4 ½" csg, cut csg @ free point. TOOH 4 ½" csg.(appro.1000')
- 6. Set 100' C1A cement plug 50' in/out of casing cut. Perforate all saltwater, freshwater, coal, oil and gas shows below cut. Do not omit any plugs
- 7. TIH w/tbg to 1050', set 100' C1A cement plug 1050' to 950' (approx. 4 1/2 csg cut.)
- 8. 8 5/8" set @ free point and set a 100' CIA cement plug @ 600' to 500'. TOOH w/csg
- 9. TIH to 383' Set 383' C1A cement plug 383' to surface.
- 10. Erect monument with API#, date plugged, company name.
- 11. Reclaim road, location to WV-DEP specifications.

5 DW 5/20/2020

27-Oct-94 API # 47- 33-01086 F

MAR 0 3 1995

State of West Virginia
Division of Environmental Protection

Permitting	1	Section of	Oil and Ga	s		
Office of Oil &	Gas We	ll Operator's	Report of 1	Well Work		
Farm name:	CAROTHERS,	GEORGE	Operator	Well No.:	GARRISON :	#1810
LOCATION:	Elevation:	1,293.00 Qua	drangle: W	ALLACE		
	District: Latitude: Longitude	EAGLE 8100 Feet So 1120 Feet We	Cuth of 39 st of 80	ounty: HARR Deg. 27Min Deg. 22 Mi	ISON . 30 Sec. n. 30 Sec	•
Company:CA	RNEGIE NATUR	AL GAS CO.				
	O REGIS AVE TTSBURGH, PA	15236-0000	Casing	Used in		Cement Fill Up
	·			Drilling	in Well	Cu. Ft.
Agent: DO	OUGLAS R. NAY		Size		 I	
Inspector:	TIM BENNETT		3126			
Permit Iss	ued: Commenced:	11/02/94	NO ADDIT	TONAL PIPE RU	N IN WELL	
Well work	Completed:	12-8-94	i	I	l	1
Verbal Plu	laaina `		İ	İ	ĺ	İ
Permission	granted on:					
Rotary Dont	Cable	Rig		ļ		!
	r depths (ft			1	l	i
rresu wate	er debous (re	<i></i>			 	t
Salt water	depths (ft)			<u> </u>		ĺ
Is coal be	ing mined in	area (Y/N)?			 	i
Coal Depth	s (ft):					ĺ
OPEN FLOW	DATA				20 all au ail an an an ag ag ag ag	
Drodu	aina farmati	on 50' and 30'			3	
Gas:	Initial open	flow MC	e/d Oil: Ti	Pay zone o	ieptn (It. flow	2306-237:

Producing formation 50' and 30'	Pay zone depth	(ft)2306_227
Producing formation 50' and 30' Gas: Initial open flow MCF/d Oil:	Initial open flow	Bb1/
rinal open flow co-mingled MCF/d	Final open flow	Bb1/
Time of open flow between initial a	and final tests	Hour
Static rock Pressure 305 psig (surfa	ace pressure) after	48 Hour
Second producing formation BIG INJUN	Pav zone depth	(ft)1704-1714
Gas: Initial open flow MCF/d Oil: Final open flowCO-MINGLED MCF/d	Initial open flow	Bb1/
Final open flow CO-MINGLED MCF/d	Final open flow	Bb1/
Time of open flow between initial a	and final tests $\overline{}$	Hour
Static rock Pressure 305 psig (surfa	ce pressure) after	48 Hour

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATE INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WEL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For:	CARNEGIE NATURAL GAS CO.
	By: Douglas K. Nou
	Date:

- 1. SET ALPHA PLUG @ 2845'
- 2. PERFORATED SQUEEZE HOLES (4) @ 2830'
- 3. CIRCULATE CEMENT (315 SKS) TO BRING TOP TO 1958'
- 4. SET PLUG @ 1900'
- 5. PERFORATE SQUEEZE HOLES (4) @ 1875'
- 6. CIRCULATE CEMENT (50 SKS) TO BRING TOP TO 1256'
- 7. DRILLED OUT CEMENT AND TOP PLUG TO 2830'
- 8. FRACTURED WELL

FRAC DATA

TYPE: ENERGIZED WATER

FRACTURED	DEPTH	SHOTS	
1ST STAGE	2302 - 2377	14	336 Gal. HCL 50 SKS 80/100 SAND 250 SKS 20/40 SAND 342 BBL GELLED WATER 65,000 SCF (N2)
2ND STAGE	1704 - 1719	12	500 GAL. HCL 50 SKS 80/100 SAND 350 SKS 20/40 SAND 385 BBL GELLED WATER 85,000 SCF (N2)

FLOWED BACK WELL, KNOCKED OUT FRAC PLUGS AND BAFFLES TO ORIGINAL T.D. 3651'



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

RECEIVED

OCT 1 1 1977

Oil and Gas Division

OIL & GAS CIVISION EFT. OF MINES

RECORD 3 Rotary_ WELL Gas Cable. Quadrangle Clarksburg NW Comb. Recycling Water Flood_ Storage. Permit No. HAR-1086 Disposal_ (Kind) Carnegie Natural Gas Company Left Cement fill up Used in Casing and Address 3904 Main St., Munhall, Pa. 15120 Cu. ft. (Sks.) in Well Drilling Tubing Farm Myrtle R. Garrison et al Acres Location (waters) Cunningham Run Size Elev. 1293 Weil No. 2-1810 20-16 County Harrison District Eagle Cond. The surface of tract is owned in fee by George 160 sacks 13-10"11-3/4 333' 333' Carothers 9 5/8 Address Rt. #1, Shinnston, W. Va. 1588 60 sacks 8 5/8 1588 Mineral rights are owned by Myrtle R. Garrison Hrs Address Shinnston, W. Va. 5 1/2 July 26, 1977 4 1/2 3620 36201 80 sacks Drilling Commenced. August 6, 1977 Drilling Completed. Initial open flow 184,000 bbls. Liners Used Final production 622,000 u. ft. per day bbls. hrs. before test 1360 Well open ___ Attach copy of cementing record. Well treatment details: Fractured Balltown Sand. Perforated: 3565-3593' - 14 holes. 590 barrels of water- 10,000# of 80-100 Sand, 30,000# of 20-40 Sand 500 gallons of HCL 15% Acid to breakdown Coal was encountered at. Feet. Inches Salt Water. Feet Feet Fresh water. Producing Sand. Depth **Formation** Color Hard or Soft Top Feet **Bottom Feet** Oil, Gas or Water * Remarks Red Rock 0 10 10 Fresh water - 25' Lime 50 Red Rock 50 60 60 70 Shale Sand 70 168 Shale 168 210 210 275 Sand 275 Coal 281 Sand 281 298 Coal 298 305 305 Shale 355 Sand 355 390 Shale 390 426 Sand 426 445 Red Rock-Shale 445 495 Red Rock 495 550 Shale 550 580 Red Rock 580 603

(over)

608

631

685

700

730

770

603

608

631

685

700

730

Sand

Shale

Sand

Shale

Sand

Shale-Sand

^{*} Indicates Electric Log tops in the remarks section.

HAR- 1086

		1		1717K-7086
Formation	Color Hard or Soft	Top Feet 3	Bottom Feet	Oil, Gas or Water Remarks
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Sand		781 840	840 940	
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and		1365	1462	
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and .		1666	1758	
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ted Rock		2350	2358	•
hale		2358	2378 2408	
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Date OCT. 7 1977

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Drill Deeper		Signed: MA	Met	7		
Abandonment	Map No.	Squareer	N 8	E	₩	
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Tract Acres Leas Well (Farm) No Serie		WELL L	OCATI	ON	MAP	
Elevation (Spirit Level)		aff Well th	147-03	13-01	10867	
Oundrangle Wallace 71/z		7.00	5	VIORY =	·A	
County Harrison District	Eagle	+ Denotes loca Topographic M	aps, scale 1 t	062 500	od States Intitude	
Engineer's Registration No. 1227	,	and longitude border lines as	lines being	tehtese	ated by	
File NoDrawing I	No	- Denotes one	inch spaces	oa borde	r line of	
Date Juna 7. 1977 Scale 1°	· 500'	original tracing				

WW-4A Revised 6-07

1)	Date:	May 7	, 2020	
2)	Operator's	Well Nur	mber	
6570	56 Garrison #18	310		

3) API Well No.: 47 -

033 01086

STATE OF WEST VIRGINIA

DI				ON, OFFICE OF OIL AN <u>D ABANDON A WELL</u>	D GAS
,	ner(s) to be served:	/	a) Coal Operator Name		
(a) Name Address	3431 Cunningham Rd	icis (Address	Contract Con	
Address	Shinnston, WV 26431	0000000	ruutess		
(b) Name	Francis R Carothers (AC	CCESS OWNER)	(b) Coal Own	ner(s) with Declaration	
Address	14 Starr Rd	30200 01111211)	- Name	Francis R Carothers	
Address	Uncasville, CT 06382		Address	14 Starr Rd	
	Officasville, Of Octobe			Uncasville, CT 06382	and the state of t
(c) Name			Name	416.00.00.00.00.00.00.00.00.00.00.00.00.00	Office of Oil and Gas
Address	4		Address		Office of Official Gas
Address					MAY 2 2 2020
		100 mm to 100 mm		::1 D 1	11111 2 2 2020
6) Inspector	Sam Ward		MARKANA .	see with Declaration	WV Department of
Address	PO Box 2327	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	_ Name		Environmental Protection
	Buckhannon, WV 26201	1	Address		
Telephone	304-389-7583		_	William to the state of the sta	
Take notic accompany Protection, the Applic	you are not required to take e that under Chapter 22-6 e ying documents for a permit with respect to the well at	any action at all of the West Virginia Cod t to plug and abandon a v the location described o een mailed by registered	e, the undersigned well o well with the Chief of the n the attached Applicatio or certified mail or deli	perator proposes to file or has filed the Office of Oil and Gas, West Virginia n and depicted on the attached Form Vered by hand to the person(s) named	is Notice and Application and Department of Environmental WW-6. Copies of this Notice.
monwealth of Pennsy Olivia Pishloneri, i Allegheny C commission expires	County County Coctober 25, 2023	Well Operator By: Its: Address	EQT Production Comp. John Zavatchan Project Specialist IV 400 Woodcliff Drive Canonsburg PA 15317	any 13	
Commission num	Der 1359908	Telephone	(724) 746-9073		
nber, Pennsylvania As	SOCIATION OF NOTATIOS	2020110110		AND THE RESIDENCE OF THE PARTY	
	sworn before me the	his 7 th d	ay of May.	2020 Notary Public	

Oil and Gas Privacy Notice

Con

My

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.

Member, Pennsylvania Association of Notaries

WW-9 (5/16)

API Number 47 - 033 01086 Operator's Well No. 657056 Garrison #1810

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

Operator Name EQT Production Company	OP Code 306686
Watershed (HUC 10) Cunningham Creek	Quadrangle Wallace 7.5'
Do you anticipate using more than 5,000 bbls of water	
Will a pit be used? Yes No	IN TANKS BEFORE DISPOSING OFF SITE,
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.?
Proposed Disposal Method For Treated Pit V	/astes:
the state of the s	ed provide a completed form WW-9-GPP)
Reuse (at API Number	IC Permit Number)
	form WW-9 for disposal location)
Other (Explain	79 dd na manaidae at 8 Bastana ann an an an an an an an an an an an
Will all and been execused as used? If no decaying	BECEN OF
	Office of CIVED
	I horizontal)? Air, freshwater, oil based, etc.
-If oil based, what type? Synthetic, petroleu	m, etc
Additives to be used in drilling medium?	www.Department of Environmental Protection
Drill cuttings disposal method? Leave in pit, landfill,	removed offsite, etc
-If left in pit and plan to solidify what mediu	m will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	
West Virginia solid waste facility. The notice shall be	Oil and Gas of any load of drill cuttings or associated waste rejected at any provided within 24 hours of rejection and the permittee shall also disclose
on April 1, 2016, by the Office of Oil and Cas of the provisions of the permit are enforceable by law. Viole or regulation can lead to enforcement action. I certify under penalty of law that I have application form and all attachments thereto and that.	erms and conditions of the GENERAL WATER POLLUTION PERMIT is sued. West Virginia Department of Environmental Protection. I understand that the ations of any term or condition of the general permit and/or other applicable law personally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for obtaining e, accurate, and complete. I am aware that there are significant penalties for of fine or imprisonment.
Subscribed and sworn before me this	day of May , 20 26 Notary Public
My commission expires October 25	Commonwealth of Pennsylvania - Notary Seel Olivia Pishioneri, Notary Public Allegheny County My commission expires October 25, 2023 Commission number 1359968

Form WW-9 657056 Myrtle R Garrison #1810 Operator's Well No. Proposed Revegetation Treatment: Acres Disturbed 1± Preveg etation pH Tons/acre or to correct to pH 6.5 Fertilizer type (10-20-20) or equivalent Fertilizer amount 1/3 ton lbs/acre Mulch 2 Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type lbs/acre Red Fescue 40 Red Fescue 15 Aslike Clover 5 5 Aslike Clover Annual Rye 15 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. RECEIVED
Office of Oil and Gas MAY 2 2 2020 WV Department of Environmental Protection Comments:

Title: OOG Tuspector

Date: 5/20/2020

Field Reviewed?

) Yes

______) No

EQT Production Water plan Offsite disposals

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

RECEIVED
Office of Oil and Gas

MAY 2 2 2020

WV Department of Environmental Protection

Topo Quad: _	Wallace 7.5'	Scale:	1" = 2000'		
County:	Harrison	Date:	May 06, 2020		
District:	Eagle-Outside	Project No	o:70-36-00-08		
	47-033-01086 WV 657056	(Myrtle	e R. Garrisor	#1810)	Торо
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ORTE 318	1400	7100	SO AME 3	MAY 2 2 2020	00/8
	1400	47-033-		WV Department on vironmental Protect	wyatt Wyatt
The state of the s	Gunningham-Run	WV 65		1000	
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		1200 8	Cunningham 8 Cem. D PEORA RO	1400	Me
1400	1700 1700 1300	RTE 813	1100	NAD 27, No N:341983.2 E:1751871.	20
(5a) 1100			1400	WGS 84 LAT:39.435 LONG:-80. ELEV:1204	378318
EGHA	SURVEYING AND MAPPING SERVICES PERFORM		PREPARED FOR:		
NEYEL U	ALLEGHENY SURVEYS 1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608	, INC.		ction Con Voodcliff Drive burg, PA 15317	npany

WW-7 8-30-06



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

API: 47-033-01086 WELL NO.: WV 657056 (Myrtle R. Garrison #1810)	
FARM NAME: Myrtle R. Garrison	
RESPONSIBLE PARTY NAME: EQT Production Company	
COUNTY: Harrison DISTRICT: Eagle-Outside	RECEIVED Office of Oil and Gas
QUADRANGLE: Wallace 7.5'	MAY 2 2 2020
SURFACE OWNER: Luster & Pauline Carothers	WV Department of Environmental Protection
ROYALTY OWNER: Carl Bandy (Attorney in Fact for Heirs of Winnie J. You	st), et al.
UTM GPS NORTHING: 4365313	
UTM GPS EASTING: GPS ELEVATION: 367 m (1204	ft)
The Responsible Party named above has chosen to submit GPS coordinates in liest preparing a new well location plat for a plugging permit or assigned API number above well. The Office of Oil and Gas will not accept GPS coordinates that do not the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential Real-Time Differential Mapping Grade GPS: Post Processed Differential Real-Time Differential 4. Letter size copy of the topography map showing the well location. If the undersigned, hereby certify this data is correct to the best of my knowledge as prescribed by the Office of Oil and Gas.	on the t meet le:
Signature PS # 2180 5/14/2 Date Date	020



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

Wednesday, August 5, 2020 WELL WORK PLUGGING PERMIT Vertical Plugging

EQT PRODUCTION COMPANY 625 LIBERTY AVE., SUITE 1700

PITTSBURGH, PA 15222

Re: Permit approval for 2434 47-085-03964-00-00

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> James A. Martin Chief

Operator's Well Number: 2434

Farm Name:

VERNON C. THOMAS

U.S. WELL NUMBER: 47-085-03964-00-00

Vertical Plugging Date Issued: 8/5/2020

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.
- 4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

WW-4B Rev. 2/01

1) Date May 4	, 2020
2) Operator's	S
Well No. 60	02434 J A Thomas #2434
3) API Well N	No. 47-085 - 03964 P

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

tershed Sugar Run Ounty Ritchie Quadrangle Pennsboro 7.5'
Designated Agent Joseph C. Mallow Address 115 Professional Place Bridgeport WV 26330
Plugging Contractor Name HydroCarbon Well Service Address PO Box 995 Buckhannon WV 26201
)

See Attachment for details and procedures.

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 Michael Moff Date 5/5/20

PLUGGING PROGNOSIS

Thomas, J.A. # 2434 (602434) Ritchie Co. WV District, Clay API # 47-085- 03964

BY: Craig Duckworth DATE: 01/08/2020

CURRENT STATUS:

TD @ 1964' Elevation @ 934'

10" csg (a) 210' 8 1/4" csg @ 1333" 6 5/8" csg @ 1742'

@ 1875' (Packer @ 1702' with 174' of 3" below packer) 3" csg

Fresh Water @ 65', 865'-895' Saltwater @ 1305'-1330' Coal @ None Reported Oil Show @ None Reported Gas shows @ 1805', 1868'

- 1. Notify State Inspector, Michael Goff 304-549-9823, 48 hrs. prior to commencing operations.
- 2. TIH wireline, check TD and locate 6 5/8" packer.
- 3. Attempt to release packer @ 1702' and TOOH 3" and packer. If unable to release packer contact EQT Plugging Specialist and state inspector before proceeding to next step.
- 4. TIH wireline, cut 3" @ 1700', TOOH 3".
- 5. TIH to 1900', spot 30 bbl. of 6% gelled water followed by a 300' C1A cement plug REGEIVED (Gas 1900' 1600'. (packer @ 1702' and 6 5/8' csg seat) MAY 11 2020 1900' – 1600'. (packer @ 1702' and 6 5/8' csg seat).
- 6. WOC hrs., Tag TOC, add additional C1A cement if necessary.
- 8. TIH set a 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, Environmental Protect saltwater, coal, oil and gas shows below cut. Do not omit any pluce.
- 9. TOOH to 1400', set a 150' C1A cement plug 1400' to 1250' (6 5/8" csg seat).
- 10. Free point 8 1/4" csg, cut casing @ free point. TOOH 8 1/4" csg.
- 11. TIH set a 100' C1A cement plug 50' in/out of casing cut. Perforate all freshwater, saltwater, coal, oil and gas shows below cut. Do not omit any plugs.

- 12. TOOH to 1000', set 200' C1A cement plug 1000' to 800' (Elevation @ 934' & FW @ 865'-895').
- 13. TOOH to 250', set a 250' C1A cement plug 250' to surface (FW @ 65').
- 14. Erect monument with API#, company name, & date plugged
- 15. Reclaim location and road to WV-DEP specifications.

Office of Oil and Gas

MAY 11 2020

WV Department of Environmental Protection

MAG 120



STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

WELL RECORD

Permit No						Oil or (ias Well (KINE))
	taburgh & rkaburg, '	West Va Gas West Va.	Company.	Casing and Tubing	Used in Drilling	Left in Well	Packers	
Farm J. A,	Thomas		Acres			T and the second second		
Tarm	West Un	ion S/7.4-1	L -2	Size				
Well No. 2434			934' VA	16	in the second		_ Kind of Packer_	
District Clay		County Rite	chie	18	2161	276.	2	100
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		_Address		814	13351	13351	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
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Drilling complete				Liners Used			Perf. top	ekessé relegjá
Date Shot	Fro	mTo		Timers Oseu			Perf. bottom	1000 B
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WW-4A Revised 6-07

1) Date:	April 30	, 2020	
2) Operator's	Well Num	ber	
602434 J A Thomas	#2434		

3) API Well No.: 47 -

03964

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

(a) Name		5) (a) Coal Operato	/ -
A .1.1	Vernon C Thomas	Name	
Address	800 Ashton Rd	Address	
	Ashton, MD 20861		
(b) Name	John & Helen Bair (ACCESS OWNER	R) (b) Coal O	wner(s) with Declaration
Address	985 Sugar Run	Name	Vernon C Thomas
	Pennsboro, WV 26415	Address	800 Ashton Rd
			Ashton, MD 20861
(c) Name		Name	
Address		Address	
6) Inspector	Michael Goff	(c) Coal Le	essee with Declaration
Address	1723 Auburn Road	Name	
	Pullman, WV 26421	Address	
Telephone	304-549-9823		
1			
However	you are not required to take any action at		ication which are summarized in the instructions on the reverses side.
Protection the Appli	ice that under Chapter 22-6 of the West V nying documents for a permit to plug and a n, with respect to the well at the location of	rirginia Code, the undersigned well abandon a well with the Chief of the described on the attached Applicate registered or certified mail or d	Il operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmental tion and depicted on the attached Form WW-6. Copies of this Notice, lelivered by hand to the person(s) named above (or by publication in
Protection the Appli	ice that under Chapter 22-6 of the West V nying documents for a permit to plug and an, with respect to the well at the location of dication, and the plat have been mailed by reumstances) on or before the day of mailing	rirginia Code, the undersigned well abandon a well with the Chief of a described on the attached Applicate registered or certified mail or day or delivery to the Chief.	Il operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmental tion and depicted on the attached Form WW-6. Copies of this Notice, lelivered by hand to the person(s) named above (or by publication in
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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 Number 47 -	085	-	03964
Operator's Well No.	602434	JA	Thomas #2434

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

Operator Name EQT Production Company	OP Code 306686
Watershed (HUC 10) Sugar Run	Quadrangle Pennsboro 7.5'
Do you anticipate using more than 5,000 bbls of water to complete Will a pit be used? Yes No	ANY WELL EFFLUENT WILL BE CONTAIN
If so, please describe anticipated pit waste: Formation F	luids
Will a synthetic liner be used in the pit? Yes N	o V If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	and the Life way W.W. O. CDD)
Reuse (at API Number Off Site Disposal (Supply form WW-9)	for disposal location)
Will closed loop systembe 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 offs	site, etc
-If left in pit and plan to solidify what medium will be use	ed? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	
on April 1, 2016, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any to regulation can lead to enforcement action. I certify under penalty of law that I have personally expenses.	amined and am familiar with the information submitted on this inquiry of those individuals immediately responsible for obtaining Gas and complete. I am aware that there are significant penalties for
Subscribed and sworn before me this 30th day of A Lebles & My commission expires March 9 2021	, 20 Sommonwealth of Pennsylvania - Notary Seal Rebecca Shrum, Notary Public Beaver County Notary Publimy commission expires March 9, 2024 Commission number 1267706
My commission expires March 9 days	Member, Pennsylvania Association of Notaries

	tment: Acres Disturbed 1:		getical come, com acceptuação eng. A 1970, de ciglo yil ade defenses traver manes anacem na come acceptuação de come d
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Fertilizer amount_	1/3 ton	lbs/acre	
Mulch 2		_Tons/acre	
		Seed Mixtures	
Te	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	e Clover 5 Aslike		5
Annual Rye	15		
L, W), and area in acres, of	the land application area.	ovide water volume, include dimensions (L,	W, D) of the pit, and di
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Photocopied section of invo Plan Approved by: Comments: Seed Accessary	the land application area. Ived 7.5' topographic sheet. That Lo A mulch Ltrols inst	any disturbed	areas.

EQT Production Water plan

Offsite disposals

Waste Management - Meadowfill Landfill

Rt. 2, Box 68 Dawson Drive Bridgeport, WV 26330 304-326-6027 Permit #SWF-1032-98 Approval #100785WV

Waste Management - Northwestern Landfill

512 E. Dry Road Parkersburg, WV 26104 304-428-0602 Permit #SWF-1025 WV-0109400 Approval #100833WV

Office of Oil and Gas

MAY 11 2020

WV Department of Environmental Protection

Topo Quad:	Pennsboro 7.5'	Scale:	1" = 200'	
County:	Ritchie	Date:	February 17, 202	20
District:	Clay	Project N	No: 68-38-00-08	
4	7-085-03964 WV	602434 (J.	A. Thomas	#2434) Topo
Run	50 26	OD Location Ma	085-03964 7602434	
J. FORM	26			NAD 27, North Zone N:290,313.60 E:1,602,476.31 WGS 84
LEGEN Limits of Dis				LAT:39.288632 and Gas LONG:-80.904345
EGHE AND OUT OF THE YEAR OF TH	SURVEYING AND MAPPING SERVICE ALLEGHENY SUR 1-800-482-8606 237 Birch River Ro Birch River, WV 26 PH: (304) 649-860 FAX: (304) 649-86	EVEYS, INC.		WV Department of the Company of the

47-085-039649 1" = 2000' Scale: Pennsboro 7.5' Topo Quad: February 17, 2020 Ritchie Date: County: 68-38-00-08 Project No: Clay District: Topo 47-085-03964 WV 602434 (J. A. Thomas #2434) THE COUNTY OWNER 47-085-03964 WV 602434 NAD 27, North Zone Greenwood N:290,313.60 E:1,602,476.31 Toll Gate **WGS 84** LAT:39.288632 LONG:-80.904345



SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606 237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 PREPARED FOR:

EQT Production Company

ELEV:916.87'

400 Woodcliff Drive Canonsburg, PA 15317





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

API: 47-085-03964 WELL NO.: WV 602434 (J. A. Thomas #2434)
FARM NAME: J. A. Thomas
RESPONSIBLE PARTY NAME: EQT Production Company
COUNTY: Ritchie DISTRICT: Clay
QUADRANGLE: Pennsboro 7.5'
SURFACE OWNER: Vernon C. Thomas
ROYALTY OWNER: Vernon C. Thomas
UTM GPS NORTHING: 4348812
UTM GPS EASTING: 508249 GPS ELEVATION: 279m (917ft)
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:
1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude:
height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:
Survey grade GPS: Post Processed Differential
Real-Time Differential
Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential
4. Letter size copy of the topography map showing the well location. RECEIVED Gas I the undersigned, hereby certify this data is correct to the best of my knowledge and fine of oil and 1 2020
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 MAY 1 1 2020
prescribed by the Office of Oil and Gas.
prescribed by the Office of Oil and Gas. Wy Department of Environmental Protection
Environment,
Sta Fin 15 # 2180 2/17/2020
Agnature Title Date