

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

Tuesday, October 24, 2023 WELL WORK PLUGGING PERMIT Horizontal 6A Plugging

EQT PRODUCTION COMPANY 400 WOODLIFF DR.

CANONSBURG, PA 15317

Permit approval for HOWELL 8H

47-103-02795-00-00

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:

Farm Name: HOWELL, CAHRLES L. AND

U.S. WELL NUMBER: 47-103-02795-00-00

Horizontal 6A Plugging

Date Issued: 10/24/2023

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. 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.

WW-4B Rev. 2/01

1) Date October 4	20 23
2) Operator's	
Well No. Howell 8H	
3) API Well No. 47-103	- 02796

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

	OFFICE OF	OIL AND GAS	
	APPLICATION FOR A PERS	HIT TO PLUG AND A	BANDON
4)	Well Type: Oil/ Gas X/ Liquid	injection	/ Waste disposal /
	(If "Gas, Production or Und		\
		Tomboo	. Down of Finking Operation
5)	Location: Elevation 1,303' District Greene		Run of Fishing Creek
	DISTRICT Globine	County	Quadrangle Porter's Falls 7.5'
6)	Well Operator EQT Production Company	7)Designated Age	_{ent} Joseph C. Mailow
	Address 400 Woodcliff Drive		ess 427 Midstate Drive
	Canonsburg PA 15317		Clarksburg, WV 26301
٥,			
8)	Oil and Gas Inspector to be notified Name Steve McCoy	9) Plugging Cont: Name R&J	ractor
	Address 13016 Indian Creek		087 Raccoon Road
	Jacksonburg, WV 26377	_	lueysville, KY 41640
		c	RECEIVED Office Of Oil and Gas
			OCT 10 2073
		Ε	WV Department of nvironmental Protection
loti ork	fication must be given to the district oi can commence.	l and gas inspect	or 24 hours before permitted
ork	order approved by inspector Stephen McC	Oy Digitally signed by Stephen Mcc Date: 2023.10.05 07:32:45 -04'00	Date

WR-35 Page 4 of 10 Rev. 8/23/13 Farm name Howell, Charles and Ruth API 47- 103 02795 ____Well number #8H PRODUCING FORMATION(S) DEPTHS Not perforated or stimulated TVD MD Please insert additional pages as applicable. GAS TEST □ Build up □ Drawdown □ Open Flow OIL TEST - Flow - Pump SHUT-IN PRESSURE Surface psi Bottom Hole psi **DURATION OF TEST** hrs OPEN FLOW Oil NGL. Gas Water GAS MEASURED BY bpd bpd bpd □ Estimated □ Orifice □ Pilot LITHOLOGY/ TOP BOTTOM TOP BOTTOM FORMATION DEPTH IN FT DEPTH IN FT DEPTH IN FT DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD QUANTITY AND NAME TVD TVD MD MD TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC) Sandstone/Shale 1,060 1,060 0 0 Fresh Water - mist @ 96' 1,060 1,063 1,060 1,063 Sandstone/Shale 1,063 2,146 1,063 2,146 Interbeded Little Lime 2,146 2,220 2,146 2,220 Lime Stone Big Lime 2,220 2,253 2,220 2,253 Lime Stone Injun 2.253 2.296 2,253 2,296 Sandstone Shale 2,296 2,440 2,296 2,440 Shale TD 2,440 2,440 Total Depth RECEIVED Office Of Oil and Gas WV Department of Environmental Protection Please insert additional pages as applicable. Drilling Contractor Nomac Drilling Address 171 Locust Ave. PA Zip 15349 Mount Morris City State Logging Company Scientific Drilling Address 116 Vista Drive Charleroi PA Zip 15022 City State Cementing Company BJ Services / Schlumberger Address 2228 Philippi Pike / 1178 US Hwy 33 East Zip 26301 / 26452 Clarksburg / Weston City State Date 5/27/2015 (of California) 2/2/2015) MAY 2 9 2015

COUS Registry

10/27/2015

Environment of California of Cal Stimulating Company N/A Address City State Please insert additional pages as applicable. Completed by W. Lee Hornsby Telephone 304-225-1600 Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

WR-35 Rev. 8/23/13 Page 3 of 10

API 47- 103 _ 02795 Farm name_Howell, Charles and	d RuthWell number_#8H
---	-----------------------

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	Not	Stimulated			
			**		
	-				

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
		Not	Stimulated					
								-
							DI	CEIVED
							Office C	of Oil and Gas
								1 0 2023
							UL	100
							WV I	Department of mental Protection
							Environ	mental Prote-
						_		
						-		
				 				
				-		-		
	 					 		<u> </u>
				 		ļt	RECEIVE of Oil ar	U Coo
						→ Office	of Oll ar	id Gas

Please insert additional pages as applicable.

MAY 2 9 2015

WR-35 Rev. 8/23/13								Page 2_ of 10
API 47- 103	02795	Farm	name_H	lowell, Char	les and Ruth	Well n	umber_#8H	
CASING STRINGS	Hole Size	Casing Size	ı		w or Grade		asket	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20-			New	LS		Y - GTS
Surface	17.5*	13.375"	1,307 K	B 1,292'GL	New	J55 1	18' & 194'	Y-CTS
Coal	17.5*	13.375"	1,307 K	B 1,292' GL	New	J55 1	18' & 194'	Y-CTS
Intermediate 1	12.25"	9.625"	2	.404' N		J55		Y-CTS
Intermediate 2								
Intermediate 3			†					
Production								
Tubing			†					
Packer type and d	epth set							
CEMENT	Class/Type	Numl		1	ement to surface on th			
DATA	of Cement	of Sac		Slurry wt (ppg)	Yield (ft ³/sks)	Volume (ft. ²)	Cement Top (MD)	WOC (hrs)
Conductor	Type 1	34		15.6	1.18	40	Surface	
Surface	Class "A"	1,00	5	15.6	1.19	1,196	Surface	8.0
Coal	Class "A"	1,00	5	15.6	1.19	1,196	Surface	8.0
Intermediate I	Lead-Flex Seal Tail-Ch	ess *A* Lead-410	Tail-420	Lead-15.0 Tail-15.5	Lead-1.26 Tail-1.19	Lead-516 Tail-500	Surface	12.0
Intermediate 2								
Intermediate 3								
Production								
Tubing								
Deepest forma Plug back pro		Weir Sandstone prevent a potential co		Plu the Howell #3H well		85 op drilling @ 2,440' l		nd laid down bit and then TBIH /D. TOC is 219' inside the 9.625".
Kick off depth	X 31.							Office Of Oil and
Check all wire	line logs run	□ caliper □ neutror			deviated/directi gamma ray			OCT 10 202
Well cored	Yes A No	Convent	ional	Sidewall		ere cuttings co		WV Department (
DESCRIBE TI joints 2, 5, 8, 11, 14, 17, 2	HE CENTRALI 0, 23, 26, 29 and 32. Interm	ZER PLACEM rediste casing had bow sprin	ENT U	ISED FOR EA s placed on joints 2, 5, 8, 1	CH CASING ST	TRING Surface 35, 38, 41, 44, 47 and 50	e/Coal casing had b	ow spring centralizers placed on

								חבווייבי
WAS WELL C	COMPLETED A	AS SHOT HOL	E o	Yes A No	DETAILS	-		RECEIVED ce of Oil and Gas
WAS WELL C	OMPLETED C	PEN HOLE?	□ Ye	s 🖪 No	DETAILS _			
WERE TRACE	RS LISED . D	Ves A No	TVI	DE OF TRACE	P(S) LISED			Department of

WR-35 Rev. 8/23/13 Page 1 of 10

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API <u>47</u> 103 <u>02795</u> County Wet:	zel District Gre	een
Quad Porters Falls Pad Name Ho		Name Mary
Farm name Howell, Charles and Ruth	Well Numb	
Operator (as registered with the OOG) Stone Energy	Corporation	
Address 1300 Fort Pierpont Drive City	Morgantown State V	VV Zip 26508
Top hole Northing $4,382,920$.		ACC - 100 -
Landing Point of Curve Northing N/A	Easting N/A	
Bottom Hole Northing 4,382,918.	Easting 517,667.3	3
Elevation (ft) 1,300 GL Type of Wo	ell □New ■ Existing Type of	f Report □Interim ■Final
Permit Type □ Deviated □ Horizontal ■ Hor	izontal 6A Depth Depth	Type Deep Shallow
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redrilling □ R	ework 🗆 Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □	Secondary Recovery	ng 🗆 Storage 🗆 Other
Type of Completion □ Single □ Multiple Fluids Pr Drilled with □ Cable ■ Rotary	roduced Brine Gas NGL	□ Oil □ Other
Drilling Media Surface hole ■ Air □ Mud ■ Fresh Production hole □ Air □ Mud □ Fresh Water □ E Mud Type(s) and Additive(s)		□ Mud ■ Forme Voteoil and iGes OCT 10 2023
N/A		WV Department of Environmental Protection
Date permit issued 9/26/2012 Date drilling completion activities began N/A		drilling ceased 4/20/2013
but comprehen activities began	Date completion activities ceased	N/A
Verbal plugging (Y/N) N Date permission gra	nted Granted l	by
Please note: Operator is required to submit a plugging ap	plication within 5 days of verbal permiss	sion to plug
Freshwater depth(s) ft96	Open mine(s) (Y/N) depths	N
Salt water depth(s) ft None Reported	Void(s) encountered EVV Edepths	N
Coal depth(s) ft1,060	Cavern Office untired in Yamindi Cal	
Is coal being mined in area (Y/N) N		
	MAY 2 9 200	Reviewed by:

WV Department of Environmental Protection W-S-10/27/2023

Howell 8H Wetzel Co., WV HZ Marcellus well API # 47-1030-2795

DATE: 6/15/2023

CURRENT STATUS: (All Depths Based off GL)

20" conductor @ 90' Cemented to Surface
13 3/8" surface @ 1,292' Cemented to Surface
9 5/8" intermediate casing @ 2,404' Cemented to Surface, basket @ 118', 194'.

Total Depth: 2,440'
TVD: 2,440'
Production Casing: 0 psi
Production Annulus: 0 psi
Intermediate Annulus: 0 psi

Elevation:1,300' Water 96' Coal: 1,060' Oil: NA Gas: NA

Office Of Oil and Gas

OCT 10 2023

1. Notify Inspectors Stephen McCoy (681) 344 3265 prior to beginning operations.

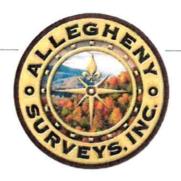
WV Department of Environmental Protection

- 2. Check and record pressure on all casing, notify engineer of recorded pressure.3. Blow well down and/or kill if necessary.
- 4. Load well with Fresh Water.
- 5. RIH with segmented bond log and pull log TD to surface. Share top of Cement with EQT rep and WVDEP for confirmation. (If cement is not to surface, plan to pull 9 5/8" casing).
- TIH w/tubing to 2440' set Class A or CL cement plug from 2440' to 2304' (100' above 9 5/8'' casing set depth). Let cement cure.
- 7. TIH with tubing to 2304' and pump 6% gel to 742'
- 8. TIH w/tubing to 1342' set Class A or CL cement plug from 1342' to 850' (13 3/8" casing set depth, covers elevation depth and coal). Let cement cure.
- 9. TIH w/tubing to 250' set Class A or CL cement plug from 250' to surface (fresh water).
- 10. Remove any surface wellhead equipment.
- 11. Cut, weld and cap well. Install 6" monument or greater per DEP regulation.

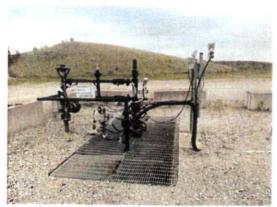
Office Of Oil and Gas

OCT 10 2023

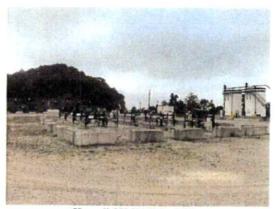
WV Department of Environmental Protection



Site Pictures Howell 8H 47-103-02795



Howell 8H Well Pad Site



Howell 8H Well Pad Site



Howell 8H Well Pad Site

Office Of Oil and Gas

OCT 1 0 2023

WV Department of Environmental Protection

BIRCH RIVER OFFICE
237 Birch River Road
Birch River, WV 26610
pt = 304-649-8606 per 304-649-8608

BRIDGEPORT OFFICE 172 Thompson Drive Bridgeport, WV 26330 phone 304 848-5035 per 304 848-5037

CHARLESTON OFFICE
301 RHI Boulevard Suite 5
Charleston, WV 25309
phone 304 756-2949 pt. 304 756-2948

ALLEGHENYSURVEYS.COM

- 02795

WW-4A Revised 6-07

4) Surface Owner(s) to be served:

) Date: October 4, 2023	1)
) Operator's Well Number	2)
well 8H	Howe

103

STATE OF WEST VIRGINIA

3) API Well No.: 47 -

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

5) (a) Coal Operator

(a) Name	Charles L & Ruth C How	ell (Surface & Access)	Name		
Address	678 Lowman Ridge Rd		Address		
	Pine Grove, WV 26419				
(b) Name	EQT Production Compar	ny (Access)	(b) Coal Ov	vner(s) with Decla	ration
Address	400 Woodcliff Drive		Name	Charles L & Ruth C H	lowell
	Canonsburg, PA 15317		Address	678 Lowman Ridge R	d
				Pine Grove, WV 2641	9
(c) Name			Name	***************************************	
Address			Address		
		***		-	
6) Inspector	Stephen McCoy		— (c) Coal Lo	ssee with Declara	tion
Address	13016 Indian Creek		Name	ssee with Declara	Hon
11441 035	Jacksonburg, WV 26377	8	Address		
Telephone	601-344-3265		Address		
relephone	0010110200				
The reason y However, yo Take notice accompanyin Protection, y the Applicat	u are not required to take a that under Chapter 22-6 of ng documents for a permit with respect to the well at the	nts is that you have right action at all. The West Virginia Cost to plug and abandon a ne location described on mailed by registered.	ghts regarding the application of the undersigned well with the Chief of the on the attached Application or certified mail or de-	operator proposes to file to Office of Oil and Gas, on and depicted on the al	or has filed this Notice and Application and West Virginia Department of Environmental ttached Form WW-6. Copies of this Notice, erson(s) named above (or by publication in
		W 11 O			
Commonwealth of D		Well Operator	EQT Production Comp	pany 🕤 🦳 🗸	
Commonwealth of Pennsylvania - Notary Se Rebecca Shrum, Notary Public		Well Operator By:		pany 55%	
Rebecca Shrum.	ylvania - Notary Seal	By:	Erin Spine	Cape	
Boower	, total y Public	By: Its:	Erin Spine Manager - Subsurface	Cape	RECEIVED Gas
My commission expir	ounty es March 9, 2024	By:	Erin Spine Manager - Subsurface 400 Woodcliff Drive	Permitting	RECEIVED Gas
Rebecca Shrum, Beaver C My commission expir Commission num Member, Pennsylvania As	ounty es March 9, 2024	By: Its:	Erin Spine Manager - Subsurface	Permitting	Office Of Oil and Gas Office Of Oil and Start

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.



Office Of Oil and Gas

OCT 10 2023

WV Department of Environmental Protection



EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

October 4, 2023

Mr. Taylor Brewer West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street SE Charleston, WV 25304

Re: Class L Cement Variance Request

Howell 8H Well

Permit Number 47-103-02795 Green District, Wetzel County

Dear Mr. Brewer,

EQT Production Company (EQT) has been notified by our cement providers that they will no longer be providing Class A cement. As a result of this, EQT is requesting the option to utilize Class L cement, if necessary, in place of Class A cement for its cement jobs.

The variance request from Legislative Rule 35CSR4 Section 11.5, related to the use of Class L Cement, was approved by the Office of Oil and Gas on September 13, 2022. A copy of the variance is included with this request.

If you have any questions, please do not hesitate to contact me at 724-746-9073.

Sincerely,

John Zavatchan

Project Specialist - Permitting

Enc.

WV Department of Environmental Protection

OCT 10 2023

RECEIVED
Office Of Oil and Gas



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 Phone (304) 926-0450

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

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

IN THE MATTER OF A VARIANCE FROM)		
LEGISLATIVE RULE 35CSR4)	ORDER NO.	2022-13
SECTION 14.1. AND LEGISLATIVE RULE)		
35CSR8 SECTION 20.1,)		
RELATING TO THE CEMENTING)		
OF OIL AND GAS WELLS)		

RECEIVED
Office Of Oil and Gas

OCT 10 2023

REPORT OF THE OFFICE

WV Department of

In response to industry requests, the West Virginia Department of Environmental ion, Office of Oil and Gas has reviewed the proceed to the Department of Environmental ion, Office of Oil and Gas has reviewed the proceed to the Department of Environmental ion, Office of Oil and Gas has reviewed the proceed to the Department of Environmental ion, Office of Oil and Gas has reviewed the proceed to the Department of Environmental ion, Office of Oil and Gas has reviewed the proceed to the Department of Environmental ion, Office of Oil and Gas has reviewed the proceed to the Department of Environmental ion, Office of Oil and Gas has reviewed the Department of Environmental ion, Office of Oil and Gas has reviewed the Department of Environmental ion, Office of Oil and Gas has reviewed the Department of Environmental ion, Office of Oil and Gas has reviewed the Department of Environmental ion. Protection, Office of Oil and Gas has reviewed the proposed use of American Petroleum Institute (API) Class L cement to be used in place of API Class A cement for well plugging.

FINDINGS OF FACT

- 1. On July 28, 2022, Diversified Gas & Oil Co. (DGO) submitted a variance request from Legislative Rule 35CSR4 for the use of API Class L cement in place of API Class A cement, relating to the plugging of conventional wells.
- 2. Laboratory analysis submitted by DGO on July 28, 2022, indicates API Class L cement is comparable to API Class A cement and thereby satisfies the requirements of the West Virginia Code.
- 3. Contemporaneously, the Chief of the Office of Oil and Gas also chose to consider a variance to Legislative Rule 35CSR8 Section 20.1., for the use of API Class L cement in place of API Class A cement, relating to the plugging of horizontal wells.

Promoting a healthy environment

On August 18, 2022, the Office of Oil and Gas provided public notice of acceptance of
public comments on the variance consideration. During the 20-day public comment
period, no comments were received.

CONCLUSIONS OF LAW

Pursuant to Article 6 and Article 6A, Chapter 22 of the Code of West Virginia, the Office of Oil and Gas has jurisdiction over the subject matter, and the persons interested therein, and jurisdiction to promulgate the hereinafter prescribed Order.

Pursuant to Legislative Rule 35CSR4, Section 18 and Legislative Rule 35CSR8, Section 14, the Chief of the Office of Oil and Gas may grant a variance from any requirement of these rules.

ORDER

It is ordered that the Class L cement product approved and monogramed by API is approved for use in place of API Class A cement for well plugging subject to the provisions of Legislative Rule 35CSR4 and Legislative Rule 35CSR8.

Dated this, the 13th day of September, 2022.

IN THE NAME OF THE STATE OF WEST VIRGINIA

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

James Martin, Chief Office of Oil and Gas Office Of Oil and Gas

WV Department of Environmental Protection

WW-9 (5/16)

API Number 47 -	103	_ 02795	
Operator's Well N	o. Howe	ell 8H	

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

FLOIDS/ COTTINGS DISPOSAL & RECLAMATION PLAN
Operator Name EQT Production Company OP Code 306686
Watershed (HUC 10) Turkey Run of Fishing Creek Quadrangle Porters Falls 7.5
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No ✓
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application (if selected provide a completed form WW-9-GPP)
Underground Injection (UIC Permit Number)
Reuse (at API Number)
Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain
Will closed loop 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 offsite, etc.
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) WV Department of Environmental Protection
-Landfill or offsite name/permit number?
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 Cas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official (Typed Name) Erin Spine
Company Official Title Manager - Subsurface Permitting
Subscribed and sworn before me this 4th day of Ostobex , 20 Z3 Commonwealth of Pennsylvania - Notary Public Beaver County Notary Public My commission expires March 9, 2024 My commission expires March 9, 2024 Member, Pennsylvania Association of Notary

Form WW-9

roposed Revegetation Trea	atment: Acres Disturbed 1	± Preveg etation	рН
Lime 3	Tons/acre or to corre	ct to pH 6.5	
Fertilizer type (10	0-20-20) or equivalent		
Fertilizer amount_	1/3 ton	lbs/acre	
Mulch_2		Tons/acre	
		Seed Mixtures	
Т	emporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		
Maps(s) of road, location, pi provided). If water from the L, W), and area in acres, of	pit will be land applied, pro the land application area.	d application (unless engineered plans incl ovide water volume, include dimensions (L	uding this info have been , W, D) of the pit, and dimension
Maps(s) of road, location, pi provided). If water from the L, W), and area in acres, of Photocopied section of invol	pit will be land applied, pro the land application area.	ovide water volume, include dimensions (L	uding this info have been , W, D) of the pit, and dimension
Maps(s) of road, location, piperovided). If water from the L, W), and area in acres, of Photocopied section of involutional Photocopied Section of Stephan Approved by:	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	gned by Stephen Mccoy	uding this info have been , W, D) of the pit, and dimension
Maps(s) of road, location, piperovided). If water from the L, W), and area in acres, of Photocopied section of involutional section of the Photocopied secti	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	ovide water volume, include dimensions (L	, W, D) of the pit, and dimension
Maps(s) of road, location, piperovided). If water from the L, W), and area in acres, of Photocopied section of involutional Photocopied Section of Stephan Approved by:	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	gned by Stephen Mccoy	RECEIVED
Maps(s) of road, location, piperovided). If water from the L, W), and area in acres, of Photocopied section of involutional Plan Approved by: Steph	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	gned by Stephen Mccoy	RECEIVED Office Of Oil and
Maps(s) of road, location, piperovided). If water from the L. W), and area in acres, of Photocopied section of involved the Plan Approved by: Steph	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	gned by Stephen Mccoy	RECEIVED Office Of Oil and
Maps(s) of road, location, piperovided). If water from the L, W), and area in acres, of Photocopied section of involutional Photocopied Section of Stephan Approved by:	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	gned by Stephen Mccoy	RECEIVED
Maps(s) of road, location, piperovided). If water from the L, W), and area in acres, of Photocopied section of involutional Photocopied Section of Stephan Approved by:	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	gned by Stephen Mccoy	RECEIVED Office Of Oil and
Maps(s) of road, location, piperovided). If water from the L, W), and area in acres, of Photocopied section of involutional Photocopied Section of Stephan Approved by:	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	gned by Stephen Mccoy	RECEIVED Office Of Oil and
Plan Approved by: Steph	pit will be land applied, pro the land application area. lived 7.5' topographic sheet.	gned by Stephen Mccoy	RECEIVED Office Of Oil and

EQT Production Water plan Offsite disposals

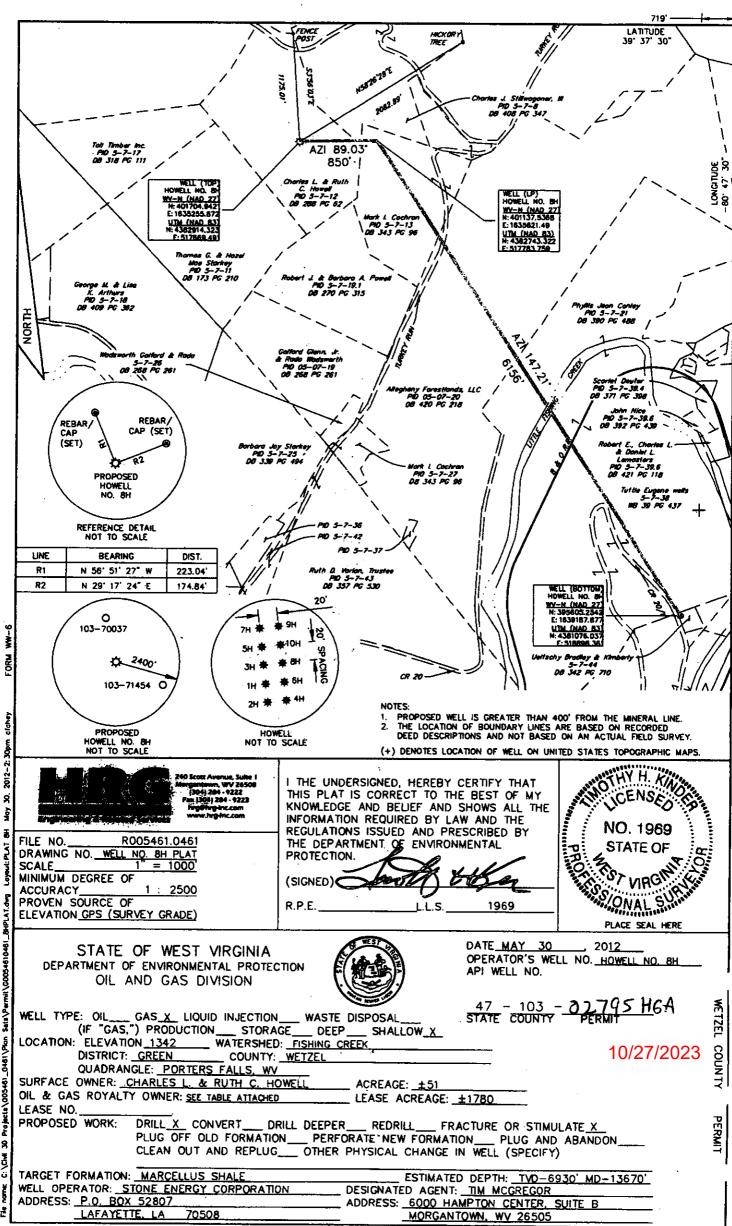
Waste Management - Meadowfill Landfill

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

Topo Quad: Porters Falls 7.5' 1" = 2000' Scale: County: Wetzel Date: September 28, 2023 District: Green Project No: 40-34-00-09 Topo 47-103-02795 Howell 8H D Childs 47-103-02795 Howell 8H U Cem Minnie Skinner Hollow Fluharty NAD 27, North Zone Cem N:401724.49 E:1635252.99 Porters Fa WGS 84 LAT:39.595832 LONG:-80.794219 ELEV:1303.07 SURVEYING AND MAPPING SERVICES PERFORMED BY: PREPARED FOR: ALLEGHENY SURVEYS, INC. **EQT Production Company** 1-800-482-8606 2400 Ansys Drive 237 Birch River Road Canonsburg, PA 15317 Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608





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

API: 47-103-02795 WELL N	O.; Howell 8H	
FARM NAME: Howell		
RESPONSIBLE PARTY NAMI	E: <u>EQT Production Compa</u>	ny
COUNTY: Wetzel	DISTRICT:	Green
QUADRANGLE: Porters Falls	s 7.5'	
SURFACE OWNER: Charles I	L. & Ruth C. Howell	
ROYALTY OWNER:		
UTM GPS NORTHING: 43829	920	
UTM GPS EASTING: 51766	GPS ELEVATION	ON: 397 m (1303 ft)
The Responsible Party named abore preparing a new well location plat above well. The Office of Oil and the following requirements: 1. Datum: NAD 1983, Zon height above mean sea 2. Accuracy to Datum - 3	for a plugging permit or assig Gas will not accept GPS coor ne: 17 North, Coordinate Uni level (MSL) – meters.	gned API number on the rdinates that do not meet
3. Data Collection Method		OCT 10 2023
Survey grade GPSX	Real-Time Differential	ialot
4. Letter size copy of the I the undersigned, hereby certify the belief and shows all the information prescribed by the Office of Oil and	topography map showing this data is correct to the best on required by law and the reg	f my knowledge and
Bu K Sth	P.S. 2092	10-3-2023
Signature	Title	Date



400 Woodcliff Dr | Canonsburg, PA 15317 www.eqt.com

Via Email

October 5, 2023

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Jeff McLaughlin 601 57th Street, SE Charleston, WV 25304

RE: Application for a Permit to Plug & Abandon

Howell 8H

API 47-103-02795

Green District, Wetzel County, WV

RECEIVED
Office Of Oil and Gas

PCT 10 2023

WV Department of Environmental Protection

WVDEP Recipient,

Attached is EQT Production Company's application for a permit to plug and abandon for the well referenced above.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our land department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Sincerely,

Becky Shrum
Project Specialist - Permitting
bshrum@eqt.com
412-660-0654



1300 Fort Pierpont Drive – Suite 201 Morgantown, WV 26508 Telephone: (304 225-1600

5/28/2015

Mr. James Martin, Chief WV Office of Oil and Gas 601, 57th Street, SE Charleston, WV 25304-2345

Dear Mr. Martin;

Attached, please find revised "WR-34 – Discharge Monitoring Report and "WR-35 – Well Operator's Report of Well Work" for the well listed below and operated by Stone Energy Corporation, Operator ID 494490923. The attachments are for:

Well Name Howell #8H API Number 47-103-02795

Should you require additional information or have any questions please feel free to contact me at 304-225-1777.

Sincerely,

W. Lee Hornsby

Drilling Engineer, Appalachia Stone Energy Corporation

Attachments xc: Well Files

OFF 10 2003

WV Department of Environmental Protection

Howell 10H/As Drilled Howell 8H/Plan Howell 8H/Plan Howell 6H/As Drilled 750 Scientific Drilling Howell 9H/As Drilled Howell 8H/As Drill Howell 8H/As Drilled 500 West(-)/East(+) (500 usft/in) West(-)/East(+) (10 usft/in) Annotation First SDI Gyro Survey Last SDI Gyro Survey 8185 1000 Howell 4H/As Drilled VSedDeparture / -0.5 0.8 F Jowell 5H/As Drilled Howell 3H/As Drilled Howell 2H/As Drilled +E/-W ANNOTATIONS -15 5.00 5.60 Azi 267.07 163.20 Inc 0.94 0.26 South(-)/North(+) (10 ustilin) 750-South(-)/North(+) (500 usfvin) 500 -500--750-TVD MD 100.4 100.4 2420.5 2420.5 8800 15 Project: Mary Prospect Site: Howell Pad Howell 10H, OH, As Drilled Vo Howell 1H, OH, As Drilled V0 Howell 6H, OH, As Drilled V0 Howell 2H, OH, As Drilled Vo Howell 7H, OH, As Drilled Vo Howell 9H, OH, As Drilled Vo Howell 5H, OH, As Drilled Vo Howell 4H, OH, As Drilled Vo Howell 3H, OH, As Drilled Vo Howell 8H/Plan 8000 Well: Howell 8H Howell 8H, OH, Plan 1 Vo As Drilled Howell 8H/As Drilled Vertical Section at 140.97° (10 usft/in) Cocodinate (NE) Reference: Well Howell 8H, Grid North
Vertical (TD) Reference (L. 11922, 8th 15: @ 1517 Ourft (Normac 237)
Section (VS) Reference: Slot + (O 0), O 0E)
Nessured Depth Reference: Cl. 13022, 8th 15: @ 1317 Ourft (Normac 237)
Calculation Method: Minimum Curvature LEGEND Wellbore: OH 7200 Design: As Drilled 13000 REFERENCE INFORMATION * 6400 Slot Vertical Section at 140.97° (1600 usft/in) 15000 Howell 8H/Plan 1 Longitude 80" 47 39.823 W Magnetic Field frength: 52594, IsnT Dip Angle: 67,167 Date: 4/12/2013 Model: IGRF2010 Azimuths to Grid North True North: 0.83° Magnetic North: -7.66° 11000 Ground Level 1302.0 Easting Latitude 1635253 62 39° 35' 44,716 N -10 WELL DETAILS: Howell 8H 10000 2400-True Vertical Depth (10 usft/in) RECEIVED Gas Ooo Office Of Oil and Gas Northing 401725 01 Geodetic System. US State Plane 1927 (Exact solution)
Datum: MAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: West Virgina North 4701
System Datum: Mean Sea Level RECEIVED 2400 Office of Oil and Gas OCT 10 2073 PROJECT DETAILS Mary Prospect +N/-S +E/-W WV Department of Environmental Protection 0008 1600 MAY 2 9 2010 Howell 8H/As Drilled WV Department of 800 Environmental Protection 0009 5000 800 1600-True Vertical Depth (1600 ustVin) 5600-6400 7200-06/05/2015 10/27/2023



Stone Energy

Mary Prospect Howell Pad Howell 8H

OH

Design: As Drilled

Standard Survey Report

24 April, 2013

Office Of Oil and Gas

OCT 10 2023

WV Department of Environmental Protection

Office of Oil and Has

MAY 29

WV Department of Environmental Projection





Scientific Drilling International

Survey Report



Company: Project:

Stone Energy Mary Prospect

Site: Well Wellbore: Howell Pad Howell 8H ОН As Drilled

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Howell 8H

GL 1302' & KB 15' @ 1317.0usft (Nomac 237) GL 1302' & KB 15' @ 1317.0usft (Nomac 237)

Grid

Survey Calculation Method: Minimum Curvature

Database:

Northeast District

RECEIVED
Office Of Oil and Gas

Design: Project

Site

Mary Prospect, West Virginia

Map System:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

System Datum:

Mean Sea Level

OCT 10 2023

WV Department of Environmental Protection

Geo Datum: Map Zone:

West Virginia North 4701

Howell Pad

Site Position From:

Мар

Northing: Easting:

401,702.68 usft

1,635,235.83 usft

Latitude: Longitude:

39° 35' 44,492 N

Position Uncertainty:

0.0 usft

Slot Radius:

13-3/16 "

Grid Convergence:

80° 47' 40.046 W

-0.83 °

Well Howell 8H

Well Position

+N/-S

O O usft 0.0 usft Northing Easting:

401 725 01 usft 1 635 253 62 usft Latitude:

39° 35' 44 716 N

Position Uncertainty

+E/-W

0.0 usft

Wellhead Elevation:

usft

Longitude: Ground Level: 80° 47' 39 823 W

1,302.0 usft

Wellbore

ОН

Magnetics Model Name Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2010 4/12/2013 -8.49 67.16 52.594

Design	As Drilled								
Audit Notes:									150
ersion:	1.0		Phase:	ACTUAL		Tie On Depth	:		BECEIVED
/ertical Section:		Depth Fro	om (TVD)	+N/-	-S	+E/-W		Direction	RECEIVED ce of Oil and
		(us	ft)	(usi	ft)	(usft)		(1) Offi	ce o.
			0.0		0.0	0.0			TO COLLEGE
									WV Departm wironmental
urvey Program		Date 4/24/20	13						nenarim
From	То							1	MA DOLUM
(usft)	(usft)	Survey (Wellbor	e)		Tool Name		Description		vironmenta
100.0	2,420.5	Survey 1 - Gyro	(OH)		SDI Standard	Keeper 103	SDI Standard	Wireline Keeper	ver 1.0.3
						·			
urvey									
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.4	0.94	267.07	100.4	0.0	-0.8	-0.5	0.94	0 94	0.00
First SDI G	yro Survey								
126.1	0.74	267.25	126.1	-0.1	-1.2	-0.7	0.78	-0.78	0.70
150.7	0.60	264.10	150.7	-0.1	-1.5	-0.9	0.59	-0.57	-12.80
176.1	0.69	260.34	176.1	-0.1	-1.8	-1.0	0.39	0.35	-14.79
200.4				2.0	12020	00 1399			
200.1		268 25	200.1	-0.1	-2.0	-1.2	0.90	-0.83	32.93
226.0		258.89	226.0	-0.2	-2.2	-1.3	0.32	0.08	-36.11
250.6		259.83	250.6	-0.2	-2.4	-1.4	0.61	-0.61	3.83
276.0		245.57	275.9	-0.3	-2.6	-1.4	0.40	-0.24	-56.23
300.9	0.31	235.35	300.9	-0.3	-2.7	-1.4	0.22	0.04	-40.96

WV Department of Environmental Protection



Scientific Drilling International

Survey Report



Company: Project: Site: Well:

Wellbore:

Design:

Stone Energy Mary Prospect Howell Pad Howell 8H OH

As Drilled

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well Howell 8H

GL 1302' & KB 15' @ 1317.0usft (Nomac 237) GL 1302' & KB 15' @ 1317.0usft (Nomac 237)

Grid

Minimum Curvature Northeast District

Measured			Vertical			Vertical	Dogleg	Build	Town	
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Turn Rate	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
325.7	0.27	232.31	325.7	-0.4	-2.8	-1.4	0.17	-0.16	-12.27	
350.2	0.16	242.75	350.2	-0.4	-2.9	-1.5	0.47	-0.45	42.53	
375.6	0.33	258.39	375.5	-0.5	-3.0	-1.5	0.72	0.67	61.74	
401.0	0.24	243.54	401.0	-0.5	-3.1	-1.5	0.45	-0.35	-58.37	
425.6	0.25	230.61	425.5	-0.6	-3.2	-1.6	0.23	0.04	-52.65	
450.2	0.23	215.17	450.2	-0.6	-3.2	-1.5	0.27	-0.08	-62.64	
475.6	0.11	150.27	475.6	-0.7	-3.2	-1.5	0.82	-0.47	-255.91	
500.9	0.13	198.37	500.9	-0.8	-3.2	-1.5	0.39	0.08	189.67	
525.6	0.14	197.01	525.6	-0.8	-3.3	-1.4	0.04	0.04	-5.51	
550.2	0.18	196.56	550.2	-0.9	-3.3	-1.4	0.16	0.16	-1.83	
575.6	0.14	206.04	575.6	-0.9	-3.3	-1.4	0.19	-0.16	37.23	
601.0	0.06	167.53	601.0	-1.0	-3.3	-1.3	0.40	-0.32	-151.73	
625.6	0.19	196 02	625.6	-1.0	-3.3	-1.3	0.57	0.53	115.86	
650.3	0.14	186.07	650.3	-1.1	-3.3	-1.2	0.23	-0.20	-40.30	
675.7	0.17	197.44	675 7	-1.2	-3.4	-1.2	0 17	0.12	44.80	
701.2	0.19	186 18	701.2	-1.2	-3.4	-1.2	0 16	0.08	-44.17	
725.8	0.09	172 94	725 8	-1.3	-3.4	-1.1	0.42	-0.41	-53.80	
750.5	0.11	224.26	750.5	-1.3	-3.4	-1 1	0.36	0.08	207.61	
776.5	0.09	181.28	776.5	-1.4	-3.4	-1.1	0.29	-0.08	-165.24	
800 1	0.13	193.72	800.1	-1.4	-3.4	-1.0	0.20	0.17	52.82	
826.1	0.13	182.17	826.1	-1.5	-3.4	-1.0	0.10	0.00	-44.37	
850.7	0.10	201.28	850.7	-1.5	-3.4	-1.0	0.20	-0.12	77.53	
876.2	0.23	191.78	876.2	-16	-3.4	-0.9	0 52	0.51	-37.33	
900.4	0.23	194.97	900.4	-1.7	-3.5	-0.9	0.05	0.00	13.19	
925.3	0.20	176.12	925.3	-1.8	-3.5	-0.8	0.31	-0.12	-7 6 073	
951.2	0.27	164.69	951.2	-1.9	-3.5	-0.7	0.32	0.27	-4200	
975.5	0.08	205.53	975.4	-2.0	-3.5	-0.7	0.89	-0.78	(168039	
1,001.0	0.22	187 07	1,001.0	-2 0	-3.5	-0.6	0.57	0.55	1117254	
1,025.7	0.28	201.53	1,025 7	-2.1	-3.5	-0.5	0.35	0.24	58.52	
1,050.1	0.20	185.39	1,050 1	-2.2	-3.5	-0.5	0.43	-0.33	11500	
1,076 3	0.22	191 78	1,076 3	-2 3	-3.5	-0 4	0 12	0 08	U24.98	
1,100.1	0.20	177.65	1,100.1	-2.4	-3.5	-0.4	0 23	-0.08	059.89	
1,126.1	0.22	156.80	1,126.1	-2.5	-3 5	-0.3	0 30	0.08	-80 2	
1,150 7	0.12	130.27	1,150.7	-2.6	-3.5	-0.2	0.51	-0.41	-107.75	
1,176.1	0.20	144.69	1,176.1	-2 6	-3.4	-0.1	0 35	0 31	56.75	
1,200.2	0.20	164.96	1,200.2	-2.7	-3.4	-0.1	0.29	0.00	83.97	
1,225.0	0.18	139.45	1,225.0	-2.8	-3.4	0.0	0.35	-0.08	-102.86	
1,250.0	0.19	101.66	1,250.0	-2.8	-3.3	0.1	0.48	0.04	-151.28	
1,275.5	0.27	132.86	1,275.5	-2.8	-3.2	0.2	0.57	0 31	122.50	
1,301.0	0.23	119.97	1,301.0	-2.9	-3.1	0.3	0.27	-0.16	-50.57	
1,325.2	0.28	143.07	1,325.2	-3.0	-3.0	0.4	0.47	0 21	95.42	
1,350.8	0.31	130.86	1,350.7	-3.1	-3.0	0.5	0.27	0.12	-47.75	
1,375.9	0.21	120.60	1,375.9	-3.1	-2.9	0.6	0.44	-0.40	-40.84	



Scientific Drilling International

Survey Report



Company: Project: Site:

Wellbore:

Design:

Well:

Stone Energy Mary Prospect Howell Pad Howell 8H OH

As Drilled

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Database:

Well Howell 8H Office of Oil and Gas GL 1302' & KB 15' @ 1317 Ousft (Nomac 237) GL 1302' & KB 15' @ 1317 Ousft (Norther 237) Grid

Minimum Curvature

Northeast District WV Department of

n: As	Drillea			Database:		Chinese Francisco	Northeast Distri	AAAD	spartino.
,							F	Environm	iental Pro
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,400.9	0.39	156.00	1,400.9	-3.3	-2.8	0.8	1.00	0.72	141.43
1,425.2	0.23	138.75	1,425.2	-3.4	-2.7	0.9	0.76	-0.66	-71.08
1,450.8	0.38	124.26	1,450 8	-3.4	-2.6	1.0	0 65	0.59	-56 56
1,476.4	0.36	125.22	1.476.4	-3.5	-2.5	1.2	0.08	-0.08	3.74
1,501.5	0.32	131.71	1,501.5	-3.6	-2.4	1.3	0.22	-0.16	25.90
1,525.4	0.34	132.26	1,525.4	-3.7	-2.3	1.5	0.08	0.08	2.30
1,551.0	0.33	129.18	1,551 0	-3.8	-2.2	1.6	0.08	-0.04	-12.05
1,575.4	0.15	147.75	1,575.4	-3.9	-2.1	1.7	0.79	-0.74	76.08
1,600.5	0.14	123.67	1,600.5	-3.9	-2.0	1.8	0.24	-0.04	-95.94
1,625.6	0.06	139.30	1,625.6	-4.0	-2.0	1.8	0.33	-0.32	62.25
1,650.7	0.17	241.57	1,650.7	-4.0	-2.0	1.8	0.76	0.44	407.29
1,675.7	0.13	279.66	1,675.7	-4.0	-2.1	1.8	0.42	-0.16	152.18
1,700.9	0.21	261 27	1,700 8	-4.0	-2.2	1.8	0 38	0.32	-73.18
1,726.0	0.14	288.69	1,726.0	-4 0	-2.2	1.7	0.43	-0.28	109 07
1,751.2	0.20	263.35	1.751.1	-4.0	-2.3	1.7	0.38	0.24	-100.76
1,776.2	0.17	243.11	1,776.2	-4.0	-2.4	1.6	0.28	-0.12	-80.73
1,801.7	0.23	268.87	1,801 7	-4.0	-2.5	1.6	0.42	0.24	100.94
1.826.6	0.16	299.18	1,826 6	-4.0	-2.6	1.5	0.49	-0.28	121.82
1,850.4	0.20	252.36	1,850.3	-4.0	-2.6	1.5	0.62	0.17	-197.22
1,875.9	0.18	283.42	1,875.9	-4.0	-2.7	1.4	0.40	-0.08	121.42
1,900.2	0.32	256.10	1,900.1	-4.0	-2.8	1.4	0.74	0.58	-112.85
1,925.2	0.16	279.41	1,925.2	-4.0	-2.9	1.3	0.73	-0.64	92.94
1,950.2	0.21	254.49	1,950.2	-4.1	-3.0	1.3	0.37	0.20	-99.68
1,975.8	0.15	237.39	1,975.8	-4.1	-3.1	1.2	0.31	-0.23	-66.85
2,000.1	0.31	264.60	2,000 0	-4.1	-3.2	1.2	0.78	0.66	112.25
2,025.1	0.24	279 13	2,025 0	-4.1	-3.3	1 1	0.39	-0.28	58.10
2,050.2	0.45	239 10	2,050.2	-4.1	-3.4	1.1	1.22	0.84	-159.29
2,075 1	0 34	263 92	2,075 1	-4 2	-3 6	1 0	0.81	-0.44	99.56
2,100.1	0.44	240.66	2,100.0	-4 3	-3.7	1.0	0.74	0.40	-93.26
2,126.0	0.43	239 92	2,126.0	-4.4	-3.9	0.9	0 04	-0.04	-2.85
2,151.4	0.40	248 96	2,151 4	-4.4	-4.1	0.9	0.28	-0.12	35.59
2,176.0	0.36	241.17	2,176.0	-4.5	-4.2	0.8	0.27	-0.16	-31 68
2,200.1	0.42	242.55	2.200.0	-4.6	-4.4	0.8	0.25	0.25	5.74
2,225.1	0.30	234.22	2,225 1	-4.7	-4.5	0.8	0.52	-0.48	-33.23
2,251.2	0.21	220.92	2,251 1	-4.7	-4.6	8.0	0.41	-0.35	-51.11
2,275.9	0.25	218.17	2,275.8	-4.8	-4.6	8.0	0.17	0.16	-11.13
2,300.5	0.24	213.41	2,300.4	-4.9	-4.7	0.8	0.09	-0.04	-19.35
2,325.1	0.25	201.61	2,325.0	-5.0	-4.7	0.9	0.21	0.04	-47.97
2,350.7	0.47	190.07	2,350.7	-5.1	-4.8	1.0	0.90	0.86	-45.04
2,375.6	0.38	189.07	2,375.6	-5.3	-4.8	1.1	0.36	-0.36	-4.01
2,400.4	0.28	179.17	2,400.4	-5.5	-4.8	1.2	0.46	-0.40	-39.90
2,420.5	0.26	163 20	2,420.5	-5 6	-4.8	1.3	0 39	-0.10	-79.55



Scientific Drilling International

Survey Report



Company: Project: Stone Energy

Site: Well: Mary Prospect Howell Pad Howell 8H

Wellbore: OH
Design: As Drilled

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well Howell 8H

GL 1302' & KB 15' @ 1317.0usft (Nomac 237) GL 1302' & KB 15' @ 1317.0usft (Nomac 237)

Grid

Minimum Curvature Northeast District

esign Annotations				
Measured	Vertical	Local Coo	rdinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
100.4	100.4	0.0	-0.8	First SDI Gyro Survey
2,420.5	2,420.5	-5.6	-4.8	Last SDI Gyro Survey

Checked By:	Approved By:	Data
Chiconos by	Approved by:	Date:

Office of Oil and Gas

MAY 29 2015

WV Department of
Environmental Protection

4710302795

API No. Farm Name 47-103-02795 Howell

Well No.

Howell 8H

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	
The undersigned coal operator has examined this proposed plugging work o done at this location, provided, the well op Virginia Code and the governing regulations.	order. The undersigned herator has complied with	
Date:	13.00	
	By:	- NFO ons
	Its	RECEIVED Gas
		oct 10
		WV Department of Environmental Protection

SURFACE OWNER WAIVER

Operator's Well Number

Howell 8H

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

RECEIVED
Office Of Oil and Gas

OCT 10 2023

WV Department of Environmental Protection

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the p	planned work described in these materials, and I have no
objection to a permit being issued on those materials.	,
FOR EXECUTION BY A NATURAL PERSON	FOR EXECUTION BY A CORPORATION
ከጥር ·	

EIC.			
	Date	Name	
Signature		By	
		Its	Date
		Signature	Date 10/27/2023



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

plugging permit issued 4710302795

1 message

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

Tue, Oct 24, 2023 at 11:34 AM

To: "Shrum, Becky" <BShrum@eqt.com>, Stephen E McCoy <stephen.e.mccoy@wv.gov>, slemley@wvassessor.com

To whom it may concern, a plugging permit has been issued for 4710302795.

James Kennedy

WVDEP OOG

