

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, July 19, 2024 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

EQT PRODUCTION COMPANY 400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re:

Permit Modification Approval for BRECKENRIDGE S-10HM

47-051-02346-00-00

Modified Lateral Location

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: BRECKENRIDGE S-10HM

Farm Name: CNX LAND LLC

U.S. WELL NUMBER: 47-051-02346-00-00

Horizontal 6A New Drill

Date Modification Issued: 7/19/2024

Promoting a healthy environment.

API NO. 47-051	_ 02346
OPERATOR W	/ELL NO. S-10HM
Well Pad Na	me. Breckenridge

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: EQT Production Company 306686 Marshall Cameron Glen Easton 7.5
Operator ID County District Quadrangle
2) Operator's Well Number: S-10HM Well Pad Name: Breckenridge
3) Farm Name/Surface Owner: CNX Land LLC Public Road Access: CR 62
4) Elevation, current ground: 1370.61' (pad built) Elevation, proposed post-construction: 1370.61'
5) Well Type (a) Gas X Oil Underground Storage
Other
(b)If Gas Shallow X Deep
Horizontal X
6) Existing Pad: Yes or No Yes
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Marcellus, 6,977', 52', 3,800 psi
8) Proposed Total Vertical Depth: 6,977'
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: 10,054'
11) Proposed Horizontal Leg Length: 921'
12) Approximate Fresh Water Strata Depths: 1,038'
13) Method to Determine Fresh Water Depths: Offset Wells - 051-70164, 051-00754, 051-00750
14) Approximate Saltwater Depths: 1,803', 1,843', 1,903', 2,008'
15) Approximate Coal Seam Depths: <u>778'-784', 965'-968', 1,051'-1,056'</u>
16) Approximate Depth to Possible Void (coal mine, karst, other): N/A
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes X No
(a) If Yes, provide Mine Info: Name: Marshall County Mine
(a) If Tes, provide trine line. Traine.
CK# 604 972 Depth: 1,051'-1,056' Seam: Pittsburgh Environmental Protection
6 26 2024 Owner: Marshall County Coal Resources, Inc,

API NO	17-	051	_	02346

OPERATOR WELL NO. S-10HM

Well Pad Name: Breckenridge

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30	New	BW	BW	120	120	259 ft^3 / CTS
Fresh Water	13 3/8	New	J-55	54.5	1157	1157	1200 ft^3 / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	3033	3033	1013 ft^3 / CTS
Production	6	New	P-110	24	10054	10054	500' above intermediate casing
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30	36	1.0	2333	1866	Class A	1.2
Fresh Water	13 3/8	17 1/2	0.380	2730	2184	Class A	1.18
Coal							
Intermediate	9 5/8	12 3/8 - 12 1/4	0.352	3520	2816	Class A	1.18
Production	6	8 3/4 - 8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

PACKERS

Kind:	(4)	RECEIVED Office of Oil and Gas
Sizes:		JUL 0 1 2024
Depths Set:		WV Department of Environmental Protection

Strader Gower 6/26/2024

WW-6	В
(10/14)

API NO. 47- 051 - 02346 OPERATOR WELL NO. S-10HM Well Pad Name: Breckenridge

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus Formation. Drill the vertical, kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.1%) of chemicals (including 15% Hydrochloric acid, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated internal casing pressure is expected to be approximately 10,000 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 350,000 gallons of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000-600,000 pounds of proppant per stage.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 45.60 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 8.59 acres
- 23) Describe centralizer placement for each casing string:
- Surface: Bow spring centralizers One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers— One centralizer at the shoe and one spaced every 500'.
- · Production: One solid body centralizer spaced every other joint from production casing shoe to landing point. One solid body centralizer spaced every joint from landing point to planned top of cement.

24) Describe all cement additives associated with each cement type:

Conductor: No additives

Surface: Calcium Chloride. Used to speed the setting of cement slurries

Intermediate: Calcium Chloride. Used to speed the setting of cement slurries.

Production: Calcium Carbonate, Fluid Loss, Extender, Dispersent, Viscosifier, Defoamer, POZ, Bonding Agent, Retaided of Oil and Gar

Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at Protection surface.

Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.

Production: Perform a cleanup cycle by pumping 3-8 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

Wellbore Diagram **EQT Production (Tug Hill)** Marshall County: Breckenridge S-10HM Well: State: West Virginia Breckenridge Pad: Elevation: 1370' GL 1383' KB 120' Conductor @ 30", BW, BW, cement to surface w/ Class A Surface @ 1,157' 13-3/8", 54.5#, J-55, cement to surface w/ Class A Intermediate 3,033' 9-5/8", 36#, J-55, cement to surface w/ Class A RECEIVED Office of Oil and Gas 川 19 1126 WV Department of Environmental Protection 10,054' MD / 6,977' TVD 6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L Formation: Marcellus

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Breckenridge D-000226

Marcellus **Drilling Objectives:** Marshall County: Breckenridge Pad Name

1383 KB

Elevation: 149 Degrees Recommended Azimuth

1370 GL

Recommended LP to TD: TBD

1929

Base of Red Rock

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR Base RR
Fresh Water Zone	1	1038		FW @ ,1038, , , ,	1026 19
Waynesburg	778	784	Coal		
Sewickley	965	968	Coal		
Pittsburgh	1051	1056	Coal		
Big Lime	2249	2503	Sandstone		
Big Injun	2503	2558	Sandstone		
Int. csg pt	2608				
Berea	2833	3249	Silty Sand	Possible oil/gas show	
Gordon	3251	3313	Silty Sand	Possible oil/gas show	
50F	3328	3446	Silty Sand	Possible oil/gas show	
Bayard	3446	5622	Silty Sand	Possible oil/gas show	
Alexander	5622		Silty Sand		
Elks	6065	6622	Gray Shales and Silts		
Sonyea	6622	6729	Gray shale		
Middlesex	6729		Shale	Possible Gas	
Genesee	6758		Gray shale interbedded	Possible Gas	
Geneseo	6808		Black Shale		
Tully	6834	6859	Limestone		
Hamilton	6859		Gray shale with some		
Marcellus	6952		Black Shale		
Purcell	6972	6974	Limestone		
-Lateral Zone	6977			Start Lateral at 6977.25'	
Cherry Valley	6992	6994	Limestone		
Onondaga	7003		Limestone		
Target Thickness	52 fe				
Max Anticipated Rock Pressure	3800 PS	SI			

Comments:

Note that this is a TVD prog for a horizontal well (azimuth of 149 degrees; target formation = Marcellus). All measurements taken from estimated KB elevation. Water and coal information estimated from surrounding well data.

Intermediate casing point is recommended beneath the Big Injun to shut off any water production from the Upper Devonian sands. Intermediate casing should be cemented into the surface string, per WV regulations.

The estimated landing point TVD is 6977.25', rig geologist may adjust landing point. After the well is landed, drill to reported bed dips/ geologists' recommendation. The geologic structure is unknown at this

LATERAL DRILLING TOLERANCES

Deviate as little as possible to the left or right of the planned wellbore. Mapview - Lateral: DO NOT EXTEND beyond recommended wellbore to avoid leaseline. Mapview - TD:

RECOMMENDED	CASING	POINTS

Oil and 5/8 50' below pittsburgh coal 1106 CSG DEPTH: CSCOD Fresh Water/Coal 50' Below Big Injun CS OD CSG DEPTH: 2608 Intermediate 1: Gas 5 1/2 CSG DEPTH: @ TD CSG OD Production:

EQT Production

Hydraulic Fracturing Monitoring Plan

Pad ID: Breckenridge

County: Marshall

June 27, 2024

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WV Department of Environmental Protection

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near EQT hydraulic fracturing in Marshall County, WV prior to hydraulic fracturing at the following EQT wells on the Breckenridge pad: S-7HM, S-8HM, S-9HM, S-10HM, S-24HM, S-25HM, S-26HM

Due to the requirements under 35CSR8 5.11, the permittee is required to review the area surrounding the proposed well pad so as to identify and evaluate potential conduits for unintended fracture propagation.

A report is required to be submitted along with a well work permit application.

The plan is being implemented as an additional safety measure to be utilized in conjunction with existing best management practices and emergency action plans for the site. These additional measures include coordination with well operators of the timing and location of the hydraulic fracturing, establishment of measures well operators should implement, and assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Well Operators

EQT, using available data (WV Geological Survey, WVDEP website, and IHS data service), has identified all known wells and well operators within 500 feet of this pad and the lateral sections that are known or could reasonably be expected to be within range of the fracture propagation. A map showing these wells along with a list of the wells and operators is included in **Attachment A**.

EQT will notify these operators of the hydraulic fracturing schedule for these wells, and coordinate with them throughout the fracturing process.

EQT will recommend to these operators at a minimum to:

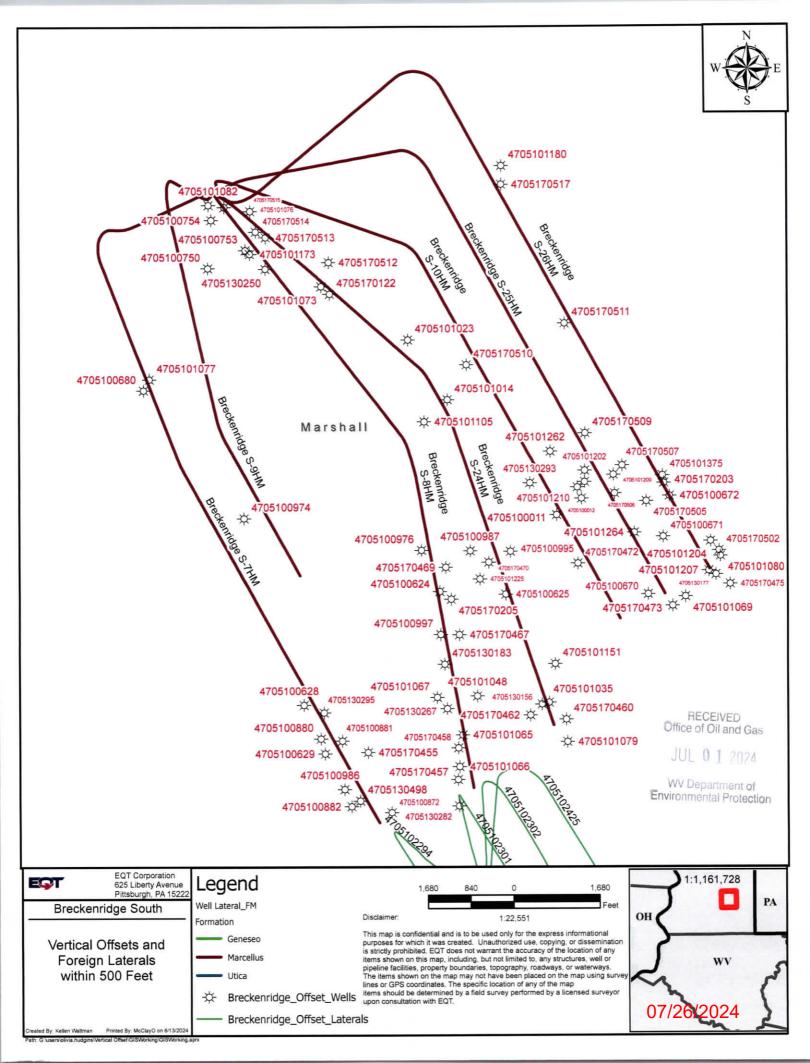
- 1. Inspect their surface equipment prior to fracturing to establish integrity and establish prefrac well conditions
- 2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
- water, gas or pressure

 3. Inspect or install master valves or other necessary equipment for wellhead integrity capable RECEIVED of a pressure recommended by EQT
- 4. Notify the OOG and EQT if any changes in water, gas production, pressure, or other anomalies are identified

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2. Reporting

EQT will provide information relating to the hydraulic fracturing schedule, communication with other operators, and ongoing monitoring of the work upon request of OOG or immediately in the event of any noted abnormalities.



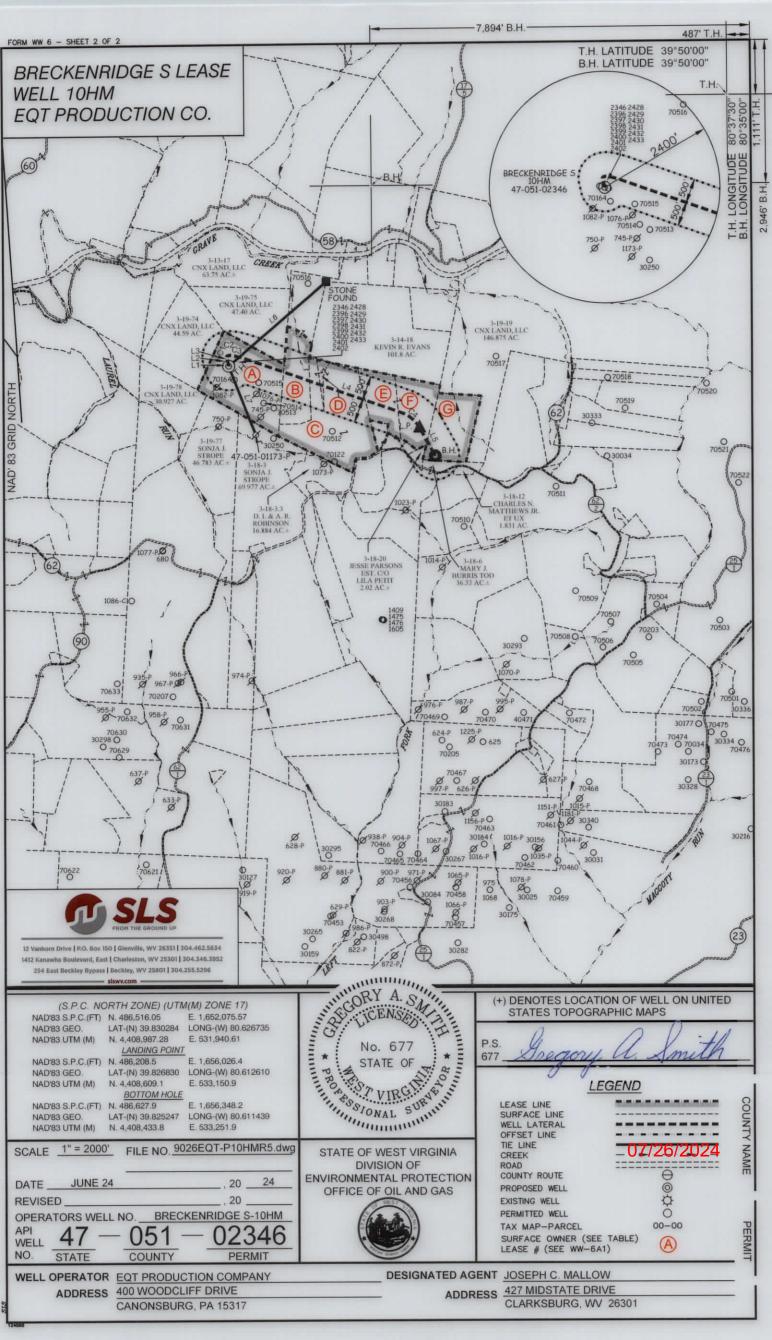
API UWI Lin	API_UWI_12	ENVOperato	ENVWelišta	ENVWellTyp	InitialOpe	Latitude	Longitude	ElevationG Ele	evationK i	MD_FT T	VD_FT WellName	WellSymbol
4705100628	47-051-00628-00		P& A	OIL	CONSOLIDATION COAL COMPANY	39.802788			1301	3221	3221 HUBBS, JAMES - ESTATE M-364	OIL-P & A
4705101225		MCELROY COAL COMPANY	P & A	OTHER	MCELROY COAL COMPANY	39.809706	-80.60825	1327	1336	0	O DAVIS, JOHN & BEVERLY M-375	OTHER-P & A
4705100753	47-051-00753-00	CONSOL	P & A	GA5	CAMERON GAS COMPANY	39.827171			1271	3045	3045 J.O. WILLIAMS 1	GAS-P & A
4705100754	47-051-00754-00	CONSOL	P&A	DIL & GAS	LEATHERWOOD, INC.	39.828767	-80.627247		1309	3045	3045 WAYT, RICHARD M-108	OIL & GAS-P & A
4705100011	47-051-00011-00	MARSHALL-PRESTON OIL	P&A	OTHER	OPERATOR UNKNOWN	39.813238			1204	0	O CLARK, BELLE 1	OTHER-P & A
4705100974	47-051-00974-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.812802	-80.624689		1191	0	0 MORRIS, SAMANTHA G. M-328A	OTHER-P & A UNREPORTED-UNREPORTED
4705170515	47-051-70515-00		UNREPORTED	UNREPORTED	(N/A)	39.829347	-80.6245 -80.609454		0 1389	0	O SUSANNA WILLIAMS O STEELE, KENNETH WAYNE M-387	OTHER-P & A
4705101066	47-051-01066-00	CONSOLIDATION COAL COMPANY MANUFACTURERS LIGHT & HEAT CO	P&A	OTHER	CONSOLIDATION COAL COMPANY MANUFACTURERS LIGHT&HEAT	39.799626 39.826591	-80.619047		1369	0	O J G CRAWFORD	GAS-UNREPORTED
4705170512	47-051-70512-00 47-051-70203-00		UNREPORTED UNREPORTED	GAS UNREPORTED	CHARTIERS OIL	39.814997	-80.595545		0	0	g THOMPSON HRS	UNREPORTED-UNREPORTED
4705170203 4705101105		CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.818126			1224	ō	0 MCELROY COAL COMPANY M-440	OTHER-P & A
4705101210		MCELROY COAL COMPANY	P&A	OTHER	MCELROY COAL COMPANY	39.81467	-80,601477		1208	0	O PARSONS, WILLIAM M-454	OTHER-P & A
4705100680	47-051-00680-00		P&A	DRY HOLE	EAST RESOURCES	39.819624	-80.631761		1433	3860	3880 MORRIS, W.D. 3	DRY HOLE-P & A
4705101080	47-051-01080-00		P & A	OTHER	CONSOLIDATION COAL COMPANY	39.811063	-80.59152	1173	1183	0	0 MCELROY COAL COMPANY M-433	OTHER-P & A
4705130156	47-051-30156-00	INTERSTATE PIPE & SUPPLY	INACTIVE COMPLETED	OIL	INTERSTATE PIPE & SUPPLY	39.802961	-80.603815		0	0	3175 EDWARD WELLING HEIRS 1	OIL-INACTIVE COMPLETED
4705170460	47-051-70460-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.802208	-80.602126		0	0	O VINCENT GORBY	UNREPORTED-UNREPORTED
4705101207	47-051-01207-00		P & A	OTHER	MCELROY COAL COMPANY	39.810258			1238	0	o CONSOLIDATION COAL CO. M-431	OTHER-P & A
4705170514	47-051-70514-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.828187	-80.624124		0	0	O SUSANNA WILLIAMS	UNREPORTED-UNREPORTED
4705100624	47-051-00624-00		P & A	OIL	CNX GAS COMPANY	39.809022	-80.61095		1262	3009 0	3009 BEVERLY MAE DAVIS 1 0 WAYT, J. RICHARD M-1334	OIL-P & A OTHER-P & A
4705101082		CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY SOUTH PENN OIL (S PENN NAT GAS)	39.829551 39.805136	-80.627439 -80.610584		1271 0	0	3067 V P GORBY 1	OIL-INACTIVE COMPLETED
4705130183		SOUTH PENN OIL (S. PENN NAT. GAS)	INACTIVE COMPLETED	OIL OTHER	MCELROY COAL COMPANY	39.826957	-80.624518		1180	0	O STROPE, CHARLES & SONJA M-1335	OTHER-P & A
4705101173		MCELROY COAL COMPANY	P & A P & A	OTHER	CONSOLIDATION COAL COMPANY	39.801012			1412	0	O SKRYPEK, ANTHONY M-425	OTHER-P & A
4705101079 4705170164	47-051-70164-00	CONSOLIDATION COAL COMPANY	UNREPORTED	UNREPORTED		39.829496			0	2374	O ELLIAH WILLIAMS	UNREPORTED-UNREPORTED
4705170184		CONSOLIDATION COAL COMPANY	P& A	OTHER	CONSOLIDATION COAL COMPANY	39.806668	-80.6109		1204	0	O DAVIS, JOHN & BEVERLY M-378	OTHER-P & A
4705100880	47-051-00880-00		P& A	OIL	CONSOLIDATION COAL COMPANY	39.801046	-80.619236		1181	2935	2935 HUBBS, JAMES A ESTATE M-366	OIL-P & A
4705100672		SMITH, CARL E PETROLEUM INC	UNREPORTED	OTHER	SMITH CARLE	39.814316		1380	1390	О	O PARSONS, WILLIAM 214-2	OTHER-UNREPORTED
4705101202		MCELROY COAL COMPANY	P&A	OTHER	MCELROY COAL COMPANY	39.815572	-80.600955	1199	1208	0	O PARSONS, WILLIAM M-453	OTHER-P & A
4705101204		MCELROY COAL COMPANY	P & A	OTHER	MCELROY COAL COMPANY	39.811853	-80.59221	1195	1204	0	O MCELROY COAL COMPANY M-443	OTHER-P & A
4705170472	47-051-70472-00	(M/A)	UNREPORTED	UNREPORTED	(N/A)	39.810625			0	0	O LOUIS E CHAMBERS	UNREPORTED-UNREPORTED
4705170467	47-051-70467-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.806707			0	0	0 GUMP & GARBY	UNREPORTED-UNREPORTED
4705170205	47-051-70205-00		UNREPORTED	UNREPORTED	SOUTH PENN OIL (S PENN NAT GAS)	39.808616			0	0	O V P GORBY	UNREPORTED-UNREPORTED
4705101035	47-051-01035-00		P & A	OTHER	CONSOLIDATION COAL COMPANY	39.803078			1374	0	O JAMISON, JEAN M-382 3142 JOHN BRUHN 7	OTHER-P & A OIL-COMPLETED
4705130282	47-051-30282-00		COMPLETED	OIL	TRI-STATE PIPE COMPANY, THE	39.797451			0	0	O JUSTICE PHILLIPS	UNREPORTED-UNREPORTED
4705170508	47-051-70508-00	(N/A)	UNREPORTED UNREPORTED	UNREPORTED	(N/A) (N/A)	39.814979 39.800612			0	0	O FRANK HIBBS	UNREPORTED-UNREPORTED
4705170458	47-051-70458-00	(N/A)	COMPLETED	UNREPORTED	MANUFACTURERS LIGHT&HEAT	39.824857	-80.618866		ő	ő	3109 RHODA A PARSONS	UNREPORTED-COMPLETED
4705170122	47-051-70122-00 47-051-01065-00		P& A	OTHER	CONSOLIDATION COAL COMPANY	39.801336			1429	ō	O STEELE, KENNETH WAYNE M-386	OTHER-P & A
4705101065 4705100625	47-051-00625-00		P&A	OIL	CNX GAS COMPANY	39.808884			1388	3092	3092 GRAY, WILLIAM 3	OIL-P & A
4705100025	47-051-01067-00		P&A	OTHER	CONSOLIDATION COAL COMPANY	39.803342			1284	0	G JAMISON, JEAN M-388	OTHER-P & A
4705130293	47-051-30293-00		COMPLETED	GAS	TRI-STATE PIPE COMPANY, THE	39.814852			0	0	3134 E V BARTLETT 1	GAS-COMPLETED
4705100986	47-051-00986-00	•	P& A	OTHER	CONSOLIDATION COAL COMPANY	39.798289	-80.617544	1016	1025	0	O HUBBS ESTATE, JAMES A. M-461	OTHER-P & A
4705170510	47-051-70510-00		UNREPORTED	UNREPORTED	(N/A)	39.821221	-80.60927	1279	0	0	O WILLIAM D PHILLIPS	UNREPORTED-UNREPORTED
4705100670	47-051-00670-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.809029	-80.596484		1488	0	D CONSOLIDATION COAL CO M-437	OTHER-P & A
4705130498	47-051-30498-00	MANUFACTURERS LIGHT & HEAT CO	COMPLETED	GAS	MANUFACTURERS LIGHT&HEAT	39.797741			0	0	2860 1	GAS-COMPLETED
4705100872	47-051-00872-00	CONSOLIDATION COAL COMPANY	P & A	OIL	CONSOLIDATION COAL COMPANY	39.797128			1353	3108	3108 MCELROY COAL COMPANY M-420	OIL-P & A
4705100012	47-051-00012-00		P & A	OTHER	OPERATOR UNKNOWN	39.814109			1238	0	O CLARK, BELLE 2	OTHER-P & A
4705100671		PARSONS, WILLIAM E & NANCY	PRODUCING	GAS	PARSONS WILLIAM E&NANCY	39.812077			1364	0	O PARSONS, WILLIAM 213-1	GAS-PRODUCING OIL-INACTIVE COMPLETED
4705130177	47-051-30177-00		INACTIVE COMPLETED	OIL	INTERSTATE PIPE & SUPPLY	39.810067			0	0	3014 3 O S L CHAMBERS	UNREPORTED-UNREPORTED
4705170502	47-051-70502-00		UNREPORTED UNREPORTED	UNREPORTED UNREPORTED	(N/A)	39.811352 39.8003212			0	0	0 FRANK HIBBS 1	UNREPORTED-UNREPORTED
4705170455	47-051-70455-00		UNREPORTED	UNREPORTED	(N/A)	39.802353			0	0	O VINCENT GORBY	UNREPORTED-UNREPORTED
4705170462 4705170473	47-051-70462-00 47-051-70473-00		UNREPORTED	UNREPORTED	MANUFACTURERS LIGHT&HEAT	39.808448			ő	ō	O LOUIS E CHAMBERS	UNREPORTED-UNREPORTED
4705170506	47-051-70506-00		UNREPORTED	UNREPORTED	(N/A)	39.814399			Ö	0	O JUSTICE PHILLIPS	UNREPORTED-UNREPORTED
4705170457	47-051-70457-00		UNREPORTED	UNREPORTED	(N/A)	39.79887		1391	0	0	O FRANK HIBBS	UNREPORTED-UNREPORTED
4705101073	47-051-01073-00		P & A	OTHER	CONSOLIDATION COAL COMPANY	39.825293	-80.619495	1226	1237	0	O STROPE, CHARLES & SONJA M-1313	OTHER-P & A
4705101048	47-051-01048-00		P&A	OTHER	CONSOLIDATION COAL COMPANY	39.803362	-80.608318	1374	1383	0	O JAMISON, JEAN M-384	OTHER-P & A
4705170511	47-051-70511-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.823542	-80.602501	1330	0	0	O JUSTICE PHILLIPS	UNREPORTED-UNREPORTED
4705101023	47-051-01023-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.822527	-80.613407		1200	0	O HUBBS, JAMES T. M-1312	OTHER-P & A
4705130250	47-051-30250-00	MANUFACTURERS LIGHT & HEAT CO	INACTIVE COMPLETED	GAS	MANUFACTURERS LIGHT&HEAT	39.826161			0	0	3143 GOSHORN HEIRS 1	GAS-INACTIVE COMPLETED
4705101014	47-051-01014-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSCIUDATION COAL COMPANY	39.819334			1150	0	O HUBBS, JAMES M-1320	OTHER-P & A
4705101180	47-051-01180-00		P & A	OTHER	MCELROY COAL COMPANY	39.831889			1187	0	0 HOWARD, WILLIS M-1592	OTHER-P & A
4705170469	47-051-70469-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.810336			0	0	D AARON A PORTER	UNREPORTED-UNREPORTED OTHER-P & A
4705100882	47-051-00882-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.797418			1098 1443	0	D HUBBS, JAMES A ESTATE M-421 D PARSONS, WILLIAM & NANCY M-442	OTHER-P&A
4705101264	47-051-01264-00	MCELROY COAL COMPANY	رت P&A	OTHER OTHER	MCELROY COAL COMPANY CONSOLIDATION COAL COMPANY	39.812322 39.811206			1254		O FRYE, BERNARD G. M-438	OTHER-P & A
4705100987		CONSOLIDATION COAL COMPANY COAL COAL COMPANY COAL COAL COMPANY COAL	RECEIVED Office of Oil and Gas									
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4705101209	47-051-01209-00	MCELROY COAL COMPANY	P& A	OTHER	MCELROY COAL COMPANY	39.81542	-80.59898	1245	1254	0	O PARSONS, WILLIAM M-452	OTHER-P & A
4705101375	47-051-01375-00	MCELROY COAL COMPANY	P& A	OTHER	MCELROY COAL COMPANY	39.815372	-80.595647	1399	1408	0	O PARSONS, WILLIAM & NANCY M 450	OTHER-P & A
4705130267	47-051-30267-00	RANDALL-ZOGG SUPPLY CO.	COMPLETED	OIL	RANDALL-ZOGG SUPPLY CO.	39.802671	-80.610395	1281	0	0	3D44 V P GORBY	OIL-COMPLETED
4705170513	47-051-70513-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.8278 9 7	-80.623372	1269	0	0	O SUSANNA WILLIAMS	UNREPORTED-UNREPORTED
4705101076	47-051-01076-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.829319	-80.624484	1356	1365	0	O WAYT, J. RICHARD M-109	OTHER-P & A
4705100629	47-051-00629-00	CONSOLIDATION COAL COMPANY	P & A	OIL	CONSOLIDATION COAL COMPANY	39.800175	-80.61886	1197	1206	2963	2963 HUBBS, JAMES - ESTATE M-370	OIL-P & A
4705101262	47-051-01262-00	MCELROY COAL COMPANY	P&A	OTHER	MCELROY COAL COMPANY	39.816618	-80.6034	1352	1361	0	O PARSONS, WILLIAM M-455	OTHER-P & A
4705100995	47-051-00995-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.811206	-80.606074	1286	1295	0	O FRYE, BERNARD G. M-441	OTHER-P & A
4705130295	47-051-30295-00	(N/A)	COMPLETED	OIL	(N/A)	39.802353	-80.6190477	1247	0	2935	O GEO W HUBBS 6	OIL-COMPLETED
4705101077	47-051-01077-00	CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.820204	-80.631 39 2	1420	1429	0	D MORRIS, CARROLL & ANNA M-110	OTHER-P & A
4705101151	47-051-01151-00	CONSOLIDATION COAL COMPANY	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.805173	-80.602871	1217	1226	0	D JAMISON, JEAN M-381	OTHER-P & A
4705100750	47-051-00750-00	CONSOLIDATION COAL COMPANY	P & A	GAS	CONSOLIDATION COAL COMPANY	39.826155	-80.627436	1087	1097	2 96 5	2965 STROPE, CHARLES M-107	GAS-P & A
4705170509	47-051-70509-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.817592	-80.600997	1266	0	0	O JUSTICE PHILLIPS	UNREPORTED-UNREPORTED
4705170475	47-051-70475-00	* * * *	UNREPORTED	UNREPORTED	(N/A)	39.809609	-80.590844	1177	0	0	O S L CHAMBERS	UNREPORTED-UNREPORTED
4705100881	47-051-00881-00	• • •	P&A	OTHER	CONSOLIDATION COAL COMPANY	39.800902	-80.617732	1071	1080	D	O HUBBS, JAMES A ESTATE M-390	OTHER-P & A
4705100976	47-051-00976-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.811206	-80.61228	1084	1093	0	O FRYE, BERNARD G. M-434	OTHER-P & A
4705170470	47-051-70470-00		UNREPORTED	UNREPORTED	(N/A)	39.810626	-90.607578	1208	0	0	O AARON A PORTER	UNREPORTED-UNREPORTED
4705101069	47-051-01069-00	1. 7. 1	P.&.A	OTHER	CONSOLIDATION COAL COMPANY	39.80891	-80.593872	1382	1391	0	O CONSOLIDATION COAL CO. M-436	OTHER-P & A
4705170507	47-051-70507-00		UNREPORTED	UNREPORTED	(N/A)	39.815851	-80.598365	1266	0	0	O JUSTICE PHILLIPS	UNREPORTED-UNREPORTED
4705170517	47-051-70517-00	* * *	UNREPORTED	UNREPORTED	(N/A)	39.830945	-80.607014	1159	0	0	O VIRGINIA FRANCIS	UNREPORTED-UNREPORTED
4705170505	47-051-70505-00	* * *	UNREPORTED	UNREPORTED	(N/A)	39.813964	-80.596673	1421	0	0	O MELVIN CLARK	UNREPORTED-UNREPORTED
4703170303	47-031-70303-00	(11/2)	5 mile 5 mile 5		(141)							
Laterals												
-	API_UWI_14	ENVOperato	ENVWellSta	ENVWellTyp	InitialOpe	Latitude	Lonzitude	ElevationG Elev	vationK 9	MD FT	TVD_FT_WellName	WellSymbol
4705102301		O SOUTHWESTERN ENERGY	PRODUCING	GAS	SWN PROD	39,791879	-80,607586	1335	1363	0	7292.86 CHARLES JAMISON MSH 10H	GAS-PRODUCING
4705102302		O SOUTHWESTERN ENERGY	PRODUCING	GAS	SWN PROD	39.7918763	80.6075548	1335	1363	23950	7284.53 CHARLES JAMISON 210H	GAS-PRODUCING
4705102302		O SOUTHWESTERN ENERGY	PRODUCING	GAS	SWN PROD	39.791892	-80.607655	1335	1361	21230	7154 CHARLES JAMISON MSH 6H	GAS-PRODUCING
4705102254		O SOUTHWESTERN ENERGY	PRODUCING	GAS	SWN PROD	39.791866	-80.607499	1337	1363	27375	8267 CHARLES JAMISON MSH 410H	GAS-PRODUCING
4/05102425	47-001-02425-00-	O SOUTHWESTERN ENERGY	FRODUCING	- A3	21117,	33.732300	20.00.733		2000	3.4.4		

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WW-6A1 (5/13)

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or			
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty

See Attached

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- · WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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WV Department of Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

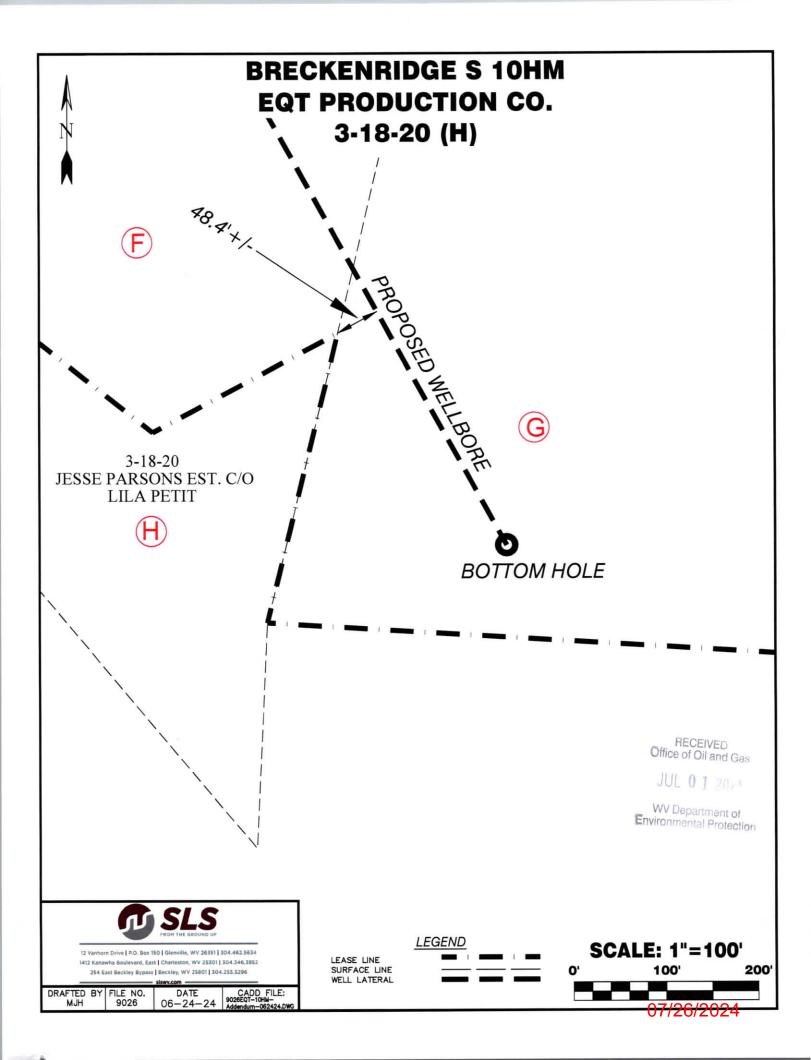
Well Operator: EQT Production Company

By: Branden Weimer

Its: Regional Manager - Subsurface Permitting

Page 1 of 2

Tag	Tax Parcel	Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
						"at least 1/8th per WV Code 22-6-8"	
			Country Roads Minerals, LLC, et al.			WV COOR 22-0-0	
			James R. Wayt, single	53.25 ac	Trans Energy, Inc. Republic Energy Ventures, LLC		DR 729/40
A	<u>3-19-76</u>	241117001		53.25 ac	Republic Energy Ventures, LLC		AB 24/260
			Trans Energy, Inc.				
			Trans Energy, Inc.		American Shale Development Inc.		AB 27/172
			Republic Energy Ventures, LLC, et al.		EQT Production Company		AB 37/25
			American Shale Development Inc.		EQT Production Company		DB 968/541
			EQT Production Company		TH Exploration, LLC		AB 48/21
			TH Exploration, LLC		EQT TGHL Exploration LLC		C8 2/472
						'at least 1/8th per	
			Bounty Minerals, LLC, et al.			WV Code 22-6-8*	
					Trans Energy, Inc.		
₿	p/o 3-18-1	241102002	Goshom Ridgle LLC	937 ac	Republic Energy Ventures, LLC		DB 723/192
			Trans Energy, Inc.		Republic Energy Ventures, LLC		AB 24/425
			Trans Energy, Inc.		American Shale Development Inc.		AB 27/172
			Republic Energy Ventures, LLC		Republic Partners VIII, LLC		AB 28/184
			American Shale Development Inc.		Republic Partners VIII, LLC		AB 31/462
			Republic Energy Ventures, LLC				
			Republic Partners VIII, LLC, et al.		EQT Production Company		AB 37/25
			American Shale Development Inc.		EQT Production Company		DB 968/541
						at least 1/8th per	
			Bounty Minerals, LLC, et al.			WV Code 22-6-8*	
					Trans Energy, Inc.		
Ç	p/o 3-18-2	241102002	Goshom Ridgle LLC	937 ac	Republic Energy Ventures, LLC		DB 723/192
			Trans Energy, Inc.		Republic Energy Ventures, LLC		AB 24/425
			Trans Energy, Inc.		American Shale Development Inc.		AB 27/172
			Republic Energy Ventures, LLC		Republic Partners VIII, LLC		AB 26/184
			American Shate Development Inc.		Republic Partners VIII, LLC		AB 31/482
			Republic Energy Ventures, LLC				
			Republic Partners VIII, LLC, et al.		EQT Production Company		AB 37/25
			American Shale Development Inc.		EQT Production Company		D9 968/541
						E-11	
						"at least 1/8th per WV Code 22-6-8"	
			Bounty Minerals, LLC, et al.	***	705 1 2 10	114 COOR 22-0-0	DB 928/393
₽	p/o 3-18-2	241102001	Sounty Minerals, LLC	836.998 ac			
			TH Exploration, LLC		EQT TGHL Exploration LLC		CB 2/472
						"at least 1/8th per	
						WV Code 22-6-8*	
			Bounty Minerals, LLC, et al.		Teans Colors, Inc.	*** 0000 22-0-0	
_			0.1 5.4.1.4	937 ac	Trans Energy, Inc. Republic Energy Ventures, LLC		DB 723/192
<u>E</u>	<u>pło 3-16-8</u>	241102002	Goshorn Ridgle LLC	937 ac	Republic Energy Ventures, LLC		AB 24/425
			Trans Energy, Inc.		American Shale Development Inc.		AB 27/172
			Trans Energy, Inc.		Republic Partners VIII, LLC		AB 28/184
			Republic Energy Ventures, U.C.				AB 31/482
			American Shale Development Inc.		Republic Partners VIII, LLC		NO 3 1/402
			Republic Energy Ventures, LLC		EQT Production Company		AB 37/25
			Republic Partners VIII, LLC, et al. American Shale Development Inc.		EQT Production Company		DB 968/541
			American Shale Development Inc.		Edit Floodcloi Company		DD 3000341
						*at least 1/8th per	
			Developed the same at all all at all			WV Code 22-6-8"	
-		044400004	Bounty Minerals, LLC, et al. Bounty Minerals, LLC	836.998 ac	TH Exploration, LLC	,	DB 928/393
£	003-18-8	<u>241102001</u>	TH Exploration, LLC	000.350 ac	EQT TGHL Exploration LLC		CB 2/472
			П		22, 70,122, 40,010,101		******
			- <u>j</u> '			at least 1/8th per	
			The SK Hannard and Dallan & Hannard of al			WV Code 22-6-8*	
_	3 42 40	239078000	George K. Howard and Bathara A. Howard, et al. George K. Howard and Bathara A. Howard, husband and wife, et al.	30 ac	American Petroleum Partners Operating LLC		DB 916/99
Ģ	<u>3-18-10</u>	233010000		30 00	TH Exploration, LLC		AB 43/503
			THE Exploration, LLC ST		EQT TGHL Exploration LLC		CB 2/472
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		:	emarcan Particles Operand Communications (CEIVED Communication)				



Leasehold Chain Addendum

Operator's Well No.

Breckenridge S-10HM

Tag	Tax Parcel	Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
						"at least 1/8th per	
<u>H</u>	<u>3-18-20</u>	<u>241102001</u>	Bounty Minerals, LLC, et al. Bounty Minerals, LLC	836.998 ac	TH Exploration, LLC	WV Code 22-6-8*	DB 928/393
	<u>3-10-20</u>	241102001	TH Exploration, LLC	300.000 40	EQT TGHL Exploration LLC		CB 2/472

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June 28, 2024

Via FedEx Overnight Delivery

West Virginia Department of Environmental Protection Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304

RE:

Well Work Permit Application Modification – EXPEDITED REVIEW REQUESTED Breckenridge S-10HM
Permit Number 47-051-02346
Cameron District, Marshall County, WV

WVDEP Recipient,

Attached please find the Well Work Permit Application for the well referenced above. You will find the following included with this submittal:

- Check in the amount \$7,500.00 for the expedited permit modification fee
- · Completed WW-6B and supporting documents, approved by the O&G Inspector
- Well Location Plat
- Completed Form WW-6A1 and supporting documentation
- Hydraulic Fracturing Monitoring Plan
- Offset Well Map and Table
- Flare Map
- DVD containing the Water Management Plan & Site-Specific Safety and Environmental Plan, signed by the Inspector

EQT is proposing to extend the lateral from the previously permitted length.

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 Permitting 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.

Best Regards,

Branden Weimer

Regional Manager – Permitting Branden. Weimer@eqt.com

412-997-7940

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