



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

Monday, October 21, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY
400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re: Permit Modification Approval for BRECKENRIDGE S-8HM
47-051-02429-00-00

Lateral Extension

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.


James A. Martin
Chief

Operator's Well Number: BRECKENRIDGE S-8HM
Farm Name: CNX LAND LLC
U.S. WELL NUMBER: 47-051-02429-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/21/2024

Promoting a healthy environment.

10/25/2024

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-8HM Well Pad Name: Breckenridge

3) Farm Name/Surface Owner: CNX Land LLC Public Road Access: CR 65

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

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8) Proposed Total Vertical Depth: 6,977'

9) Formation at Total Vertical Depth: Marcellus

OCT 15 2024

10) Proposed Total Measured Depth: 17,731'

WV Department of
Environmental Protection

11) Proposed Horizontal Leg Length: 7,765'

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: 778'-784', 965'-968', 1,051'-1,056'

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
Depth: 1,051'-1,056'
Seam: Pittsburgh
Owner: Marshall County Coal Resources, Inc.

Strader Gower

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	1158	1158	1460 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	J-55	36	2608	2608	1000 ft ³ / CTS
Production	6	New	P-110	24	17731	17731	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/H/L	1.04 - 1.20
Production	6	8 3/4 - 8 1/2	0.400	14580	11664	Class A/H/L	1.04 - 2.10
Tubing							
Liners							

PACKERS

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Kind:			
Sizes:			
Depths Set:			

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.

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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, Retarder, Anti-Settling/Suspension Agent

25) Proposed borehole conditioning procedures:

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

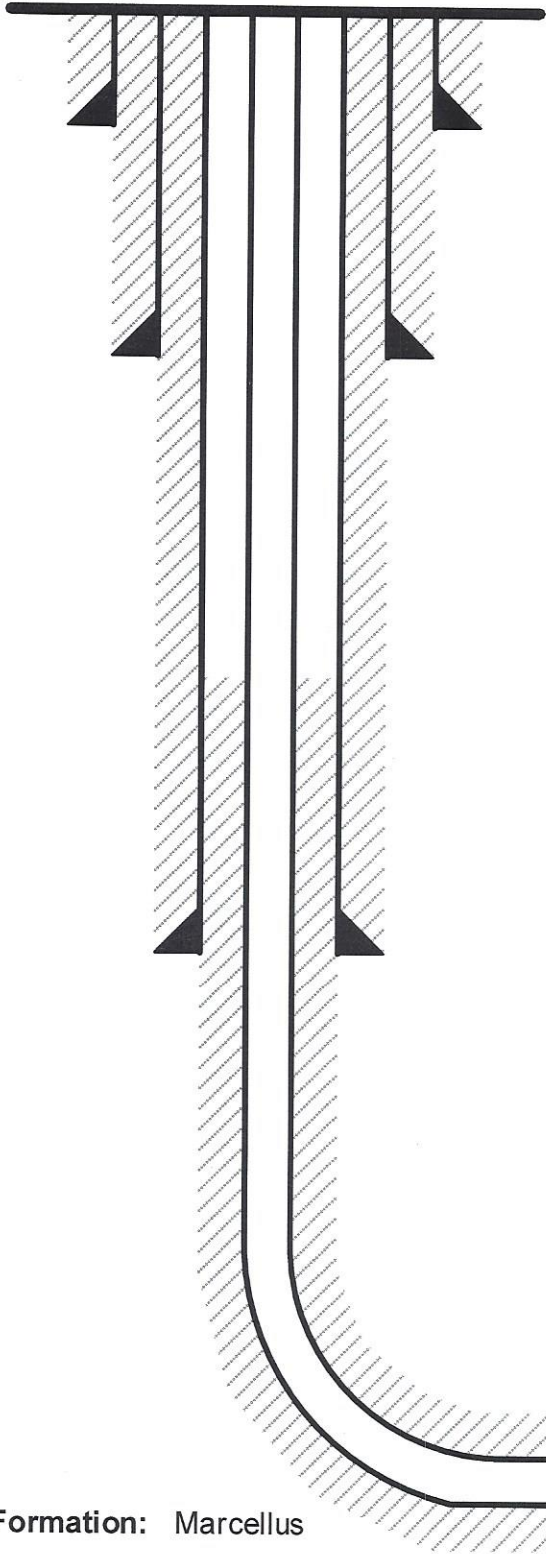
*Note: Attach additional sheets as needed.

EQT Production (Tug Hill)

Wellbore Diagram

Well: Breckenridge S-8HM
Pad: Breckenridge
Elevation: 1370' GL 1383' KB

County: Marshall
State: West Virginia



Conductor @ 120'

30", BW, BW, cement to surface w/ Class A

Surface @ 1,158'

13-3/8", 54.5#, J-55, cement to surface w/ Class A

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Intermediate @ 2,608'

9-5/8", 36#, J-55, cement to surface w/ Class A/H/L

Production @ 17,731' MD / 6,977' TVD

6", 24#, P-110, cement to 500' inside 9-5/8" w/ Class A/H/L

Formation: Marcellus

Strader Gower

08/06/2024

NOT TO SCALE
10/25/2024

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Breckinridge
S-002889

Marcellus
Marshall
Breckinridge

1370 GL

1383 KB
149 Degrees

Coal requirements: Run a deviation survey from surface to the drilled depth approximately 20' from the top of the Pittsburgh #8 coal seam and shall promptly provide the certified results of the deviation survey to Marshall County Coal Resources, Inc.

ESTIMATED FORMATION TOPS

Formation	Top (TVD)	Base (TVD)	Lithology	Comments	Top RR	Base RR
Fresh Water Zone	1	1038		FW @ 1038,	1026	1929
Waynesburg	778	784 Coal		Solid Coal		
Sewickley	965	968 Coal		Solid Coal		
Pittsburgh	1050	1056 Coal		Solid Coal - Active Mine		
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	6065 Silty Sand				
Elks	6065	6622 Gray Shales and Silts				
Sonyea	6622	6729 Gray shale		Possible Gas		
Middlesex	6729	6758 Shale		Possible Gas		
Genesee	6758	6808 Gray shale interbedded				
Genesee	6808	6834 Black Shale				
Tully	6834	6859 Limestone				
Hamilton	6859	6952 Gray shale with some				
Marcellus	6952	7003 Black Shale				
Purcell	6972	6974 Limestone				
-Lateral Zone	6977			Start Lateral at 6977'		
Cherry Valley	6992	6994 Limestone				
Onondaga	7003	Limestone				
Target Thickness	52 feet					
Max Anticipated Rock Pressure	3800 PSI					

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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', 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 time.

LATERAL DRILLING TOLERANCES

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

RECOMMENDED CASING POINTS

Fresh Water/Coal	13 3/8	CSG OD	1106	50' below pittsburgh coal
Intermediate I:	9 5/8	CSG OD	2608	50' Below Big Injun
Production:	5 1/2	CSG OD	@ TD	

EQT Production
Hydraulic Fracturing Monitoring Plan
Pad ID: Breckenridge
County: Marshall

October 10, 2024

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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 pre-frac well conditions
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure
3. Inspect or install master valves or other necessary equipment for wellhead integrity capable 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

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.

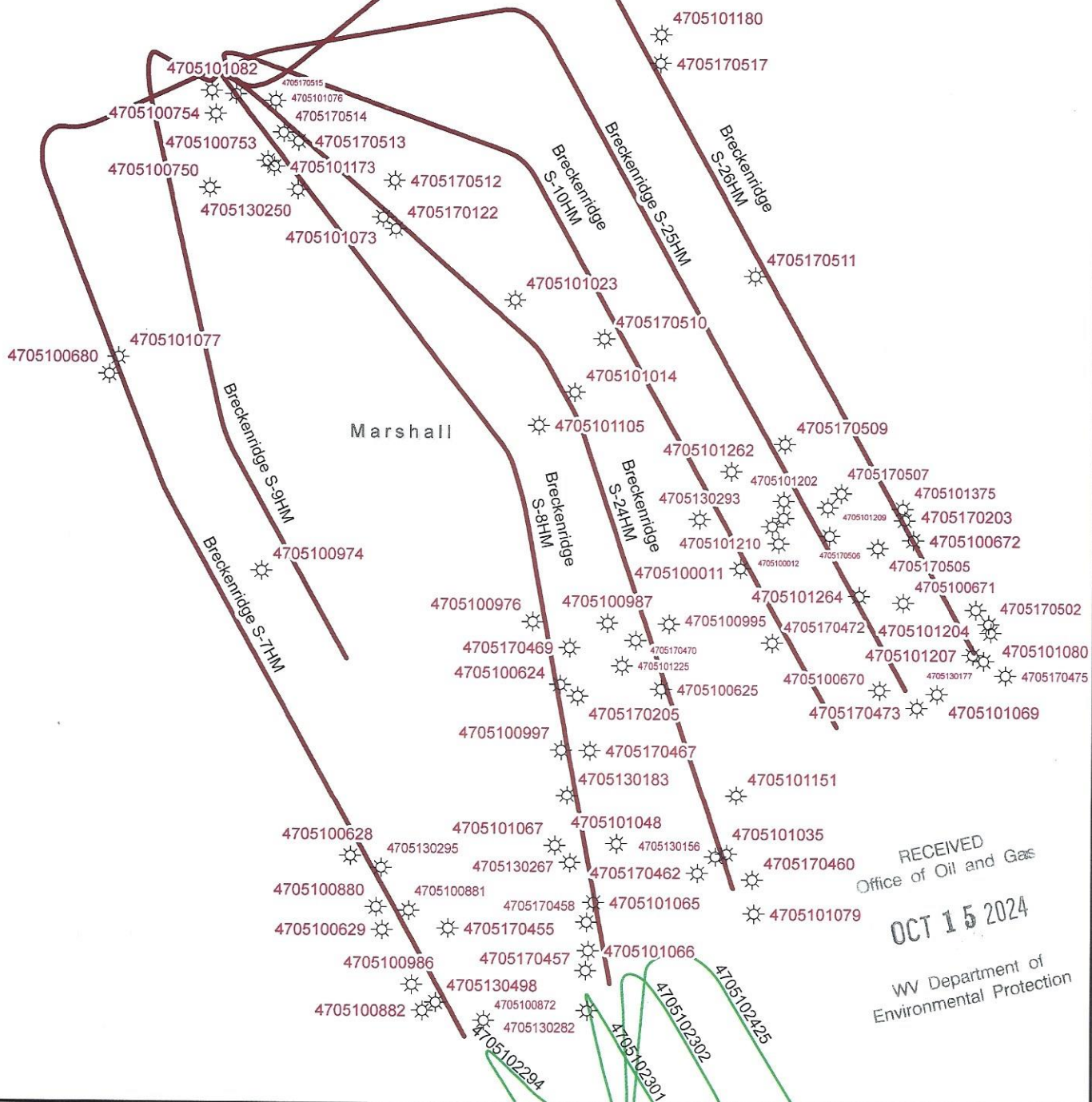
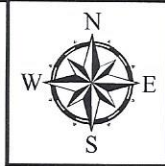
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EQT
EQT Corporation
625 Liberty Avenue
Pittsburgh, PA 15222

Breckenridge South

Vertical Offsets and Foreign Laterals within 500 Feet

Created By: Kellan Waltman Printed By: McClay on 8/13/2024
Path: G:\users\olivia.hudgins\Vertical_Offset\GISWorking\GISWorking.aprx

Legend

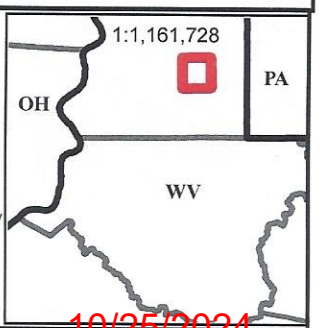
Well Lateral_FM Formation

- Geneseo
- Marcellus
- Utica
- Breckenridge_Offset_Wells
- Breckenridge_Offset_Laterals

1,680 840 0 1,680 Feet

Disclaimer: 1:22,551

This map is confidential and is to be used only for the express informational purposes for which it was created. Unauthorized use, copying, or dissemination is strictly prohibited. EQT does not warrant the accuracy of the location of any items shown on this map, including, but not limited to, any structures, well or pipeline facilities, property boundaries, topography, roadways, or waterways. The items shown on the map may not have been placed on the map using survey lines or GPS coordinates. The specific location of any of the map items should be determined by a field survey performed by a licensed surveyor upon consultation with EQT.



10/25/2024

4705101209	47-051-01209-00	MCELROY COAL COMPANY	P & A	OTHER	MCELROY COAL COMPANY	39.81542	-80.59898	1245	1254	0	0	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	0	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	3044	V P GORBY	OIL-COMPLETED
4705170513	47-051-70513-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.827897	-80.623372	1269	0	0	0	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	0	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	0	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	0	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	0	GEO W HUBBS 6	OIL-COMPLETED
4705101077	47-051-01077-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.820204	-80.631392	1420	1429	0	0	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	0	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	2965	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	0	JUSTICE PHILLIPS	UNREPORTED-UNREPORTED
4705170475	47-051-70475-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.809609	-80.590844	1177	0	0	0	S L CHAMBERS	UNREPORTED-UNREPORTED
4705100881	47-051-00881-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.800902	-80.617732	1071	1080	0	0	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	-80.612228	1084	1093	0	0	FRYE, BERNARD G. M-434	OTHER-P & A
4705170470	47-051-70470-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.810626	-80.607578	1208	0	0	0	AARON A PORTER	UNREPORTED-UNREPORTED
4705101069	47-051-01069-00	CONSOLIDATION COAL COMPANY	P & A	OTHER	CONSOLIDATION COAL COMPANY	39.80891	-80.593872	1382	1391	0	0	CONSOLIDATION COAL CO. M-436	OTHER-P & A
4705170507	47-051-70507-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.815851	-80.598365	1266	0	0	0	JUSTICE PHILLIPS	UNREPORTED-UNREPORTED
4705170517	47-051-70517-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.830945	-80.607014	1159	0	0	0	VIRGINIA FRANCIS	UNREPORTED-UNREPORTED
4705170505	47-051-70505-00	(N/A)	UNREPORTED	UNREPORTED	(N/A)	39.813964	-80.596673	1421	0	0	0	MELVIN CLARK	UNREPORTED-UNREPORTED

Laterals

API_UWI_Un	API_UWI_14	ENVOperato	ENVWellSta	ENVWellTyp	InitialOpe	Latitude	Longitude	ElevationG	ElevationK	MD_FT	TVD_FT	WellName	WellSymbol
4705102301	47-051-02301-00-0	SOUTHWESTERN ENERGY	PRODUCING	GAS	SWN PROD	39.791879	-80.607586	1335	1363	0	7292.86	CHARLES JAMISON MSH 10H	GAS-PRODUCING
4705102302	47-051-02302-00-0	SOUTHWESTERN ENERGY	PRODUCING	GAS	SWN PROD	39.7918763	-80.6075548	1335	1363	23950	7284.53	CHARLES JAMISON 210H	GAS-PRODUCING
4705102294	47-051-02294-00-0	SOUTHWESTERN ENERGY	PRODUCING	GAS	SWN PROD	39.791892	-80.607655	1335	1361	21230	7154	CHARLES JAMISON MSH 6H	GAS-PRODUCING
4705102425	47-051-02425-00-0	SOUTHWESTERN ENERGY	PRODUCING	GAS	SWN PROD	39.791866	-80.607499	1337	1363	27375	8267	CHARLES JAMISON MSH 410H	GAS-PRODUCING

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BRECKENRIDGE S LEASE WELL 8HM EQT PRODUCTION CO.

T.H. LATITUDE 39°50'00" B.H. LATITUDE 39°50'00"

T.H.

T.H. LONGITUDE 80°37'30" B.H. LONGITUDE 80°35'00" 1,100' T.H. 12,699' B.H.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)

NAD'83 S.P.C.(FT) N. 486,527.60 E. 1,652,028.99 NAD'83 GEO. LAT-(N) 39.830314 LONG-(W) 80.626901 NAD'83 UTM (M) N. 4,408,990.57 E. 531,926.35

LANDING POINT

NAD'83 S.P.C.(FT) N. 481,469.6 E. 1,655,793.4 NAD'83 GEO. LAT-(N) 39.816558 LONG-(W) 80.613275 NAD'83 UTM (M) N. 4,407,468.8 E. 533,099.0

BOTTOM HOLE

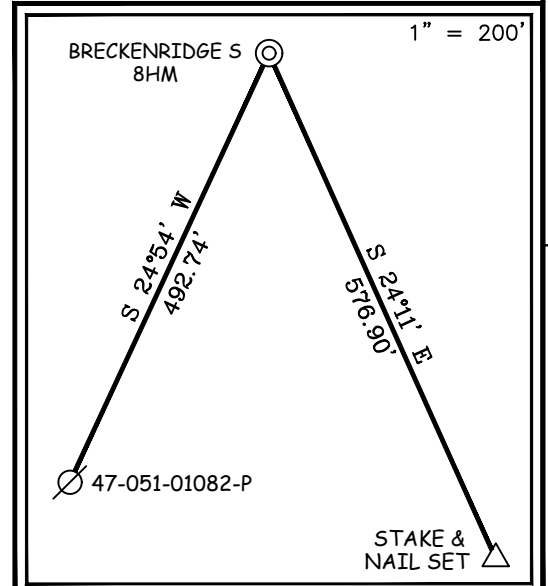
NAD'83 S.P.C.(FT) N. 476,866.1 E. 1,657,052.7 NAD'83 GEO. LAT-(N) 39.798473 LONG-(W) 80.608502 NAD'83 UTM (M) N. 4,405,463.4 E. 533,516.3

Table with columns: TAG, SURFACE OWNER, PARCEL, ACRES. Rows A through M listing land parcels and owners.

Table with columns: CURVE, RADIUS, ARC LENGTH, CHORD LENGTH, CHORD BEARING. Rows C1 through C4.

Table with columns: LINE, BEARING, DISTANCE. Rows L1 through L9.

REFERENCES



NOTES ON SURVEY

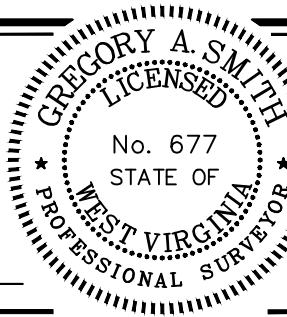
- 1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. 2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296 slswv.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS DATE OCTOBER 18, 2024 REVISED OPERATORS WELL NO. BRECKENRIDGE S-8HM API WELL NO. 47 - 051 - 02429 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 9026EQT-P8HMR8.dwg HORIZONTAL & VERTICAL CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION X STORAGE DEEP SHALLOW X

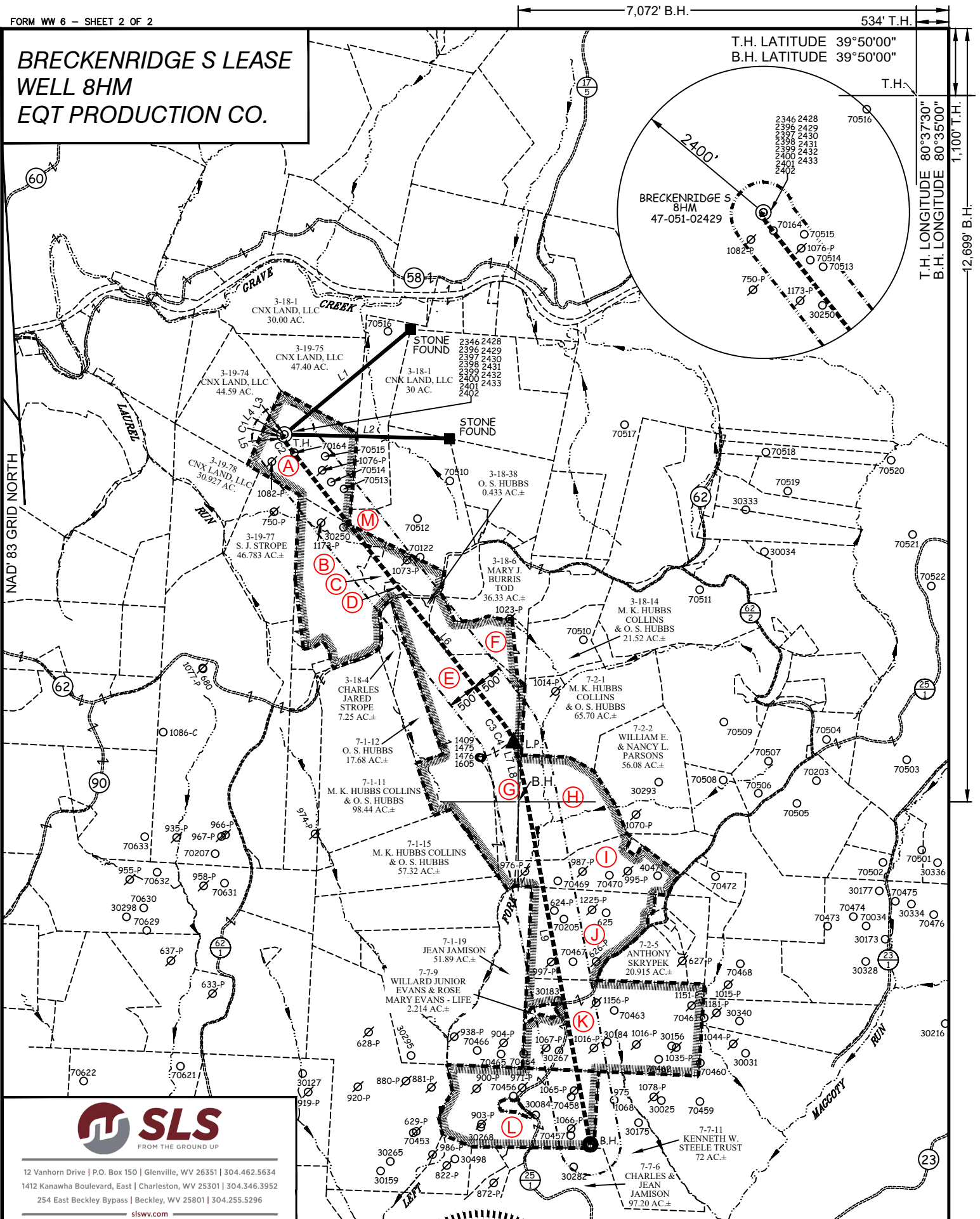
LOCATION: ELEVATION 1,370.61' WATERSHED GRAVE CREEK (HUC 10) & LAUREL RUN DISTRICT CAMERON COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5' SURFACE OWNER CNX LAND LLC ACREAGE 53.25± ROYALTY OWNER COUNTRY ROADS MINERALS, LLC, ET AL ACREAGE 10/25/2024 LEASE NO. SEE WW-6A1

PROPOSED WORK: DRILL X CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,977' / TMD: 17,731'

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT JOSEPH C. MALLOW ADDRESS 400 WOODCLIFF DRIVE CANONSBURG, PA 15317 ADDRESS 427 MIDSTATE DRIVE CLARKSBURG, WV 26301

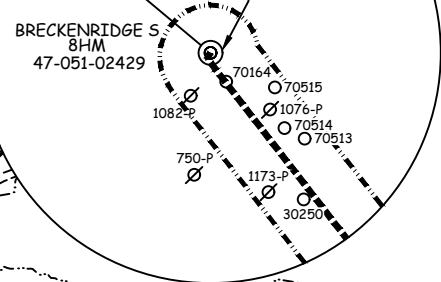
COUNTY NAME PERMIT

**BRECKENRIDGE S LEASE
WELL 8HM
EQT PRODUCTION CO.**



T.H. LATITUDE 39°50'00"
B.H. LATITUDE 39°50'00"

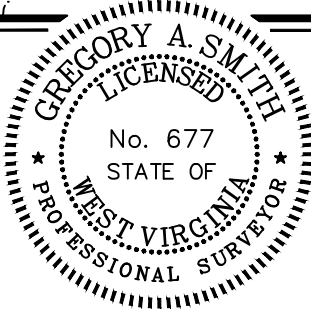
T.H. LONGITUDE 80°37'30"
B.H. LONGITUDE 80°35'00"



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slsw.com

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)

NAD'83 S.P.C.(FT)	N. 486,527.60	E. 1,652,028.99
NAD'83 GEO.	LAT-(N) 39.830314	LONG-(W) 80.626901
NAD'83 UTM (M)	N. 4,408,990.57	E. 531,926.35
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 481,469.6	E. 1,655,793.4
NAD'83 GEO.	LAT-(N) 39.816558	LONG-(W) 80.613275
NAD'83 UTM (M)	N. 4,407,468.8	E. 533,099.0
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 476,866.1	E. 1,657,052.7
NAD'83 GEO.	LAT-(N) 39.798473	LONG-(W) 80.608502
NAD'83 UTM (M)	N. 4,405,463.4	E. 533,516.3



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

P.S. *Gregory A. Smith*
677

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- TAX MAP-PARCEL
- SURFACE OWNER (SEE TABLE)
- LEASE # (SEE WW-6A1)

COUNTY NAME
PERMIT

SCALE 1" = 2000' FILE NO. 9026EQT-P8HMR8.dwg
DATE OCTOBER 18, 20 24
REVISED _____, 20 _____
OPERATORS WELL NO. BRECKENRIDGE S-8HM
API WELL NO. 47 — 051 — 02429
NO. STATE COUNTY PERMIT

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

DESIGNATED AGENT JOSEPH C. MALLOW
ADDRESS 427 MIDSTATE DRIVE
CLARKSBURG, WV 26301

WELL OPERATOR EQT PRODUCTION COMPANY
ADDRESS 400 WOODCLIFF DRIVE
CANONSBURG, PA 15317

**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	Book/Page
See Attached				

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**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

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

Tag	Tax Parcel	Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
			<u>Country Roads Minerals, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
/ A	3-19-76	241117001	James R. Wayt, single Trans Energy, Inc. Trans Energy, Inc. Republic Energy Ventures, LLC, et al. American Shale Development Inc. EQT Production Company TH Exploration, LLC	53.25 ac	Trans Energy, Inc. Republic Energy Ventures, LLC Republic Energy Ventures, LLC American Shale Development Inc. EQT Production Company TH Exploration, LLC EQT TGH Exploration LLC		DB 729/40 AB 24/260 AB 27/172 AB 37/25 DB 968/541 AB 48/21 CB 2/472
			<u>Bounty Minerals, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
/ B	p/o 3-18-3	241102002	Goshorn Ridgle LLC Trans Energy, Inc. Trans Energy, Inc. Republic Energy Ventures, LLC American Shale Development Inc. Republic Energy Ventures, LLC Republic Partners VIII, LLC, et al. American Shale Development Inc.	937 ac	Trans Energy, Inc. Republic Energy Ventures, LLC Republic Energy Ventures, LLC American Shale Development Inc. Republic Partners VIII, LLC Republic Partners VIII, LLC EQT Production Company EQT Production Company		DB 723/192 AB 24/425 AB 27/172 AB 28/184 AB 31/482 AB 37/25 DB 968/541
			<u>Bounty Minerals, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
/ C	3-18-3.3	241102002	Goshorn Ridgle LLC Trans Energy, Inc. Trans Energy, Inc. Republic Energy Ventures, LLC American Shale Development Inc. Republic Energy Ventures, LLC Republic Partners VIII, LLC, et al. American Shale Development Inc.	937 ac	Trans Energy, Inc. Republic Energy Ventures, LLC Republic Energy Ventures, LLC American Shale Development Inc. Republic Partners VIII, LLC Republic Partners VIII, LLC EQT Production Company EQT Production Company		DB 723/192 AB 24/425 AB 27/172 AB 28/184 AB 31/482 AB 37/25 DB 968/541
			<u>Bounty Minerals, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
/ D	3-18-3.2	241102002	Goshorn Ridgle LLC Trans Energy, Inc. Trans Energy, Inc.	937 ac	Trans Energy, Inc. Republic Energy Ventures, LLC Republic Energy Ventures, LLC American Shale Development Inc.		DB 723/192 AB 24/425 AB 27/172

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Republic Energy Ventures, LLC
American Shale Development Inc.
Republic Energy Ventures, LLC
Republic Partners VIII, LLC, et al.
American Shale Development Inc.

Republic Partners VIII, LLC
Republic Partners VIII, LLC

EQT Production Company
EQT Production Company

AB 28/184
AB 31/482

AB 37/25
DB 968/541

Bounty Minerals, LLC, et al.

E **p/o 7-1-13** **241102002**

Goshorn Ridgle LLC
Trans Energy, Inc.
Trans Energy, Inc.
Republic Energy Ventures, LLC
American Shale Development Inc.
Republic Energy Ventures, LLC
Republic Partners VIII, LLC, et al.
American Shale Development Inc.

937 ac

Trans Energy, Inc.
Republic Energy Ventures, LLC
Republic Energy Ventures, LLC
American Shale Development Inc.
Republic Partners VIII, LLC
Republic Partners VIII, LLC

EQT Production Company
EQT Production Company

DB 723/192
AB 24/425
AB 27/172
AB 28/184
AB 31/482

AB 37/25
DB 968/541

"at least 1/8th per
WV Code 22-6-8"

Bounty Minerals, LLC, et al.

E **p/o 3-18-5** **241102002**

Goshorn Ridgle LLC
Trans Energy, Inc.
Trans Energy, Inc.
Republic Energy Ventures, LLC
American Shale Development Inc.
Republic Energy Ventures, LLC
Republic Partners VIII, LLC, et al.
American Shale Development Inc.

937 ac

Trans Energy, Inc.
Republic Energy Ventures, LLC
Republic Energy Ventures, LLC
American Shale Development Inc.
Republic Partners VIII, LLC
Republic Partners VIII, LLC

EQT Production Company
EQT Production Company

DB 723/192
AB 24/425
AB 27/172
AB 28/184
AB 31/482

AB 37/25
DB 968/541

"at least 1/8th per
WV Code 22-6-8"

Bounty Minerals, LLC, et al.

G **p/o 7-1-13** **241102001**

Bounty Minerals, LLC
TH Exploration, LLC

836.998 ac

TH Exploration, LLC
EQT TGHL Exploration LLC

DB 928/393
CB 2/472

"at least 1/8th per
WV Code 22-6-8"

Olivia S. Allen, et al.

H **7-1-14** **241103003**

James Timothy Hubbs Testamentary Trust of Molly Kay
Hubbs and James Timothy Hubbs Trust of Olivia Suzanne
Hubbs, c/o Judy Kay Matthews, Trustee
American Shale Development Inc.
Republic Energy Ventures, LLC, et al.
American Shale Development Inc.
EQT Production Company
TH Exploration, LLC

177.408 ac

American Shale Development Inc.
Republic Energy Ventures, LLC
Republic Energy Ventures, LLC
EQT Production Company
EQT Production Company
TH Exploration, LLC
EQT TGHL Exploration LLC

DB 848/6
AB 23/255
AB 37/25
DB 968/541
AB 48/21
CB 2/472

"at least 1/8th per
WV Code 22-6-8"

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✓ I	7-2-3.1	241802001	<u>Beverly Mae Davis, et al.</u> Beverly Mae Davis, a widow American Petroleum Partners Operating LLC TH Exploration, LLC	50.258 ac	American Petroleum Partners Operating LLC TH Exploration, LLC EQT TGHL Exploration LLC	"at least 1/8th per WV Code 22-6-8"	DB 910/270 AB 43/503 CB 2/472
✓ J	7-2-4	241805012	<u>Donald Wayne Andrews, et al.</u> Donald Wayne Andrews and Jeri Andrews, husband and wife TH Exploration, LLC	200 ac	TH Exploration, LLC EQT TGHL Exploration LLC	"at least 1/8th per WV Code 22-6-8"	DB 1124/555 CB 2/472
✓ K	7-7-9.1	241821012	<u>Five Star JV II, et al.</u> James W. Raymond, single American Shale Development Inc. Republic Energy Ventures, LLC Republic Partners VIII, LLC, et al. American Shale Development Inc. EQT Production Company SWN Production Company LLC Equinor USA Onshore Properties Inc. TH Exploration, LLC	198.65 ac	American Shale Development Inc. Republic Energy Ventures, LLC Republic Partners VIII, LLC EQT Production Company EQT Production Company SWN Production Company LLC Equinor USA Onshore Properties Inc. TH Exploration, LLC TH Exploration, LLC EQT TGHL Exploration LLC	"at least 1/8th per WV Code 22-6-8"	DB 789/299 AB 31/482 AB 37/25 DB 968/541 AB 44/489 AB 49/635 AB 49/604 CB 2/472
✓ L	7-7-8.1	778.1	<u>Anna Laurie Winters, et al.</u> Wilbur Whipkey and Mary M. Whipkey, his wife, et al. Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. Chesapeake Appalachia, L.L.C. SWN Exchange Titleholder LLC SWN Production Company, LLC	81 ac	Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. Statoilhydro USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. SWN Exchange Titleholder LLC SWN Production Company, LLC SWN Production Company, LLC EQT Production Company	"at least 1/8th per WV Code 22-6-8"	DB 360/234 DB 422/204 DB 662/322, DB 663/592, DB 871/34, & DB 928/270 DB 675/279 WVSOS AB 33/424 AB 33/110 CB 19/624 Leasehold Commitment Agreement dated October 1, 2024

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 Environmental Protection

Tag	Tax Parcel	Lease No.	Grantor, Lessor, etc.	Acres	Grantee, Lessee, etc.	Royalty	Book/Page
			<u>Bounty Minerals, LLC, et al.</u>			"at least 1/8th per WV Code 22-6-8"	
<u>M</u>	<u>p/o 3-18-2</u>	<u>241102002</u>	Goshorn Ridgle LLC	937 ac	Trans Energy, Inc.		DB 723/192
			Trans Energy, Inc.		Republic Energy Ventures, LLC		AB 24/425
			Trans Energy, Inc.		Republic Energy Ventures, LLC		AB 27/172
			Republic Energy Ventures, LLC		American Shale Development Inc.		AB 28/184
			American Shale Development Inc.		Republic Partners VIII, LLC		AB 31/482
			Republic Energy Ventures, LLC		Republic Partners VIII, LLC		
			Republic Partners VIII, LLC, et al.		EQT Production Company		AB 37/25
			American Shale Development Inc.		EQT Production Company		DB 968/541

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**BRECKENRIDGE S 8HM
EQT PRODUCTION CO.
3-18-2 (M)**



(A)

S 37° 46' E

2.5' ±

3-18-2
KEVIN R.
EVANS

(M)

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Environmental Protection

30250

(B)

PROPOSED WELLBORE

5561.17'

LEGEND

LEASE LINE
SURFACE LINE
WELL LATERAL
OFFSET LINE
CREEK



SCALE: 1" = 100'

0' 100' 200'



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296

slsrv.com

DRAFTED BY MJH	FILE NO. 9026	DATE 10-07-24	CADD FILE: 9026EQT-8HM-Addendum -100724.DWG
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10/25/2024



October 1, 2024

VIA ELECTRONIC MAIL

SWN Production Company, LLC
10000 Energy Drive
Spring, Texas 77389

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Re: Leasehold Commitment Agreement
EQT Production Company Proposed Breckenridge South Unit Area 7HM, 8HM, 9HM, 10HM, 24HM, 25HM, and 26HM Wells
Cameron, Liberty and Meade Districts, Marshall Co., WV

Dear Gavin:

This letter (this "**Leasehold Commitment Agreement**") shall serve as a formal agreement between EQT Production Company, LLC, a Pennsylvania company with an address of 400 Woodcliff Drive, Canonsburg, PA 15317 ("EQT") and SWN Production Company, a Texas limited liability company with an address of 10000 Energy Drive, Spring, Texas 77389 ("SWN"), Equinor USA Onshore Properties Inc., a Delaware corporation, whose address is 2107 City West Blvd, Houston, Texas 77042 ("EQNR") (SWN and EQNR are collectively referred to as "SWN/EQNR") regarding certain tracts of land and leases in Cameron, Liberty, and Meade Districts, Marshall County, West Virginia, as described in the attached Exhibit "A", wherein SWN/EQNR may own a leasehold or fee interest in the oil and gas rights (the "**Subject Tracts**"). Intending to be legally bound hereby, the parties agree as follows:

EQT and SWN/EQNR executed an Acreage Trade Agreement on September 6, 2024 ("Trade Agreement") with respect to certain tracts in Marshall and Wetzel County, West Virginia, covering the leasehold and fee interests owned by each company, and it has come to EQT's attention that the Subject Tracts, which SWN/EQNR and EQT included in said Trade Agreement, are located within EQT's Breckenridge South Unit Area (the "**Units**"). EQT plans to drill wells (the "**Wells**") in these Units and the wellbore laterals for such Wells may reach the Subject Tracts prior to EQT and SWN/EQNR closing the aforementioned Trade Agreement. EQT intends to drill the Wells to the Marcellus Formation. As used herein, "**Marcellus Formation**" means all depths and formations from five-hundred feet (500') above the correlative stratigraphic equivalent of the top of the Tully Limestone of the Mahantango formation, the top of such formation being at a measured depth of 7398 feet on the Log, down to two-hundred feet (200') below the correlative stratigraphic equivalent of the top of the Onondaga Limestone formation, the top of such formation being at a measured depth of 7576 feet on the log of the 1 BURLEY J WELL, API No. 4705100539, IN Marshall County, West Virginia.

Subject to the terms and conditions of this Leasehold Commitment Agreement, SWN/EQNR consents to and grants EQT all of SWN/EQNR's rights to make regulatory permit applications and, upon receipt of all necessary permits and governmental approvals, to proceed to develop such Oil and Gas Leases and Fee Interests and extract, produce and market the Hydrocarbons therefrom.

As noted above, EQT and SWN/EQNR executed a Trade Agreement, and the parties included the Subject Tracts among those interests to be assigned by SWN/EQNR to EQT. Within ten days following the earliest to occur (on a Subject Tract-by-Subject Tract basis) of the following (as applicable, the "**Conveyance Date**"): (a) the date that a Subject Tract is fully and finally excluded from the assignment to occur pursuant to the Trade Agreement; or (b) the date that the Trade Agreement is terminated in accordance with

10/25/2024

express terms, the following items in clauses (1) and (2) below shall occur (each being deemed to occur simultaneously and each being a condition to the other). For clarity, those Subject Tracts that have not been assigned or leased to EQT pursuant to a Trade Agreement on or before the applicable Conveyance Date are, collectively, the “*SWN/EQNR Remaining Tracts*”.

- (1) SWN/EQNR and EQT shall execute, acknowledge, and deliver to one another an assignment, bill of sale, and conveyance pursuant to which SWN/EQNR will assign to EQT all of SWN/EQNR’s right, title, and interest in and to the SWN/EQNR Remaining Tracts to which it owns leasehold, limited to the Marcellus Formation, and or (ii) an oil and gas lease pursuant to which SWN/EQNR will lease to EQT all of SWN/EQNR’s right, title, and interest in and to the SWN/EQNR Remaining Tracts to which it owns fee interests, limited to the Marcellus Formation.
- (2) EQT shall pay to SWN/EQNR, by wire transfer of immediately available funds to an account designated in writing by SWN/EQNR, an amount equal to (y) the sum of the net acres for the SWN/EQNR Remaining Tracts (which shall be equal to the number set forth in Exhibit “A” under the column heading “Lease Net Acres” for each such SWN/EQNR Remaining Tract), *multiplied by (z) \$10,000.00.*

EQT shall be fully responsible for and shall release, defend, indemnify and hold SWN/EQNR harmless from and against any and all losses, expenses, damages, injuries, claims or obligations and liabilities (including attorneys’ fees) arising from or relating to EQT’s activities and operations under this Leasehold Commitment Agreement.

This Leasehold Commitment Agreement is governed by the laws of West Virginia. This Leasehold Commitment Agreement may be executed in counterparts, which when taken together, will form one instrument. **Neither Party shall be liable to the other Party for any special, incidental, consequential, punitive or exemplary damages related to, arising out of, or connected with this Leasehold Commitment Agreement.** This Leasehold Commitment Agreement, together with the Trade Agreement, represent the entire agreement of the Parties with respect to the subject matter hereof and supersedes all prior verbal and/or written agreements with respect to the subject matter hereof.

If the above terms and conditions of this Leasehold Commitment Agreement are acceptable to you, please indicate your approval in the space provided below and return an executed copy of this Leasehold Commitment Agreement to the attention of the undersigned.

Should you have any questions, please contact the undersigned at (724)802-2353 or by email at greg.godbey@eqt.com.

Respectfully,

EQT Production Company

Greg Godbey, CPL

[SIGNATURE PAGE TO FOLLOW]

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Office of the Secretary

OCT 15 2024

WV Department of
Environmental Protection

SWN:

SWN PRODUCTION COMPANY, LLC

Derek Cutright
60DE5C5BB64F480...

By: Derek Cutright

Its: Vice President

Initial Initial DS
DC *DC* *DC*

EQNR:

EQNR USA ONSHORE PROPERTIES INC.

Eric Luszczyk
46EC709B14C94A2

By: Eric Luszczyk

Its: Manager - Land

Initial
EL

EQT:

EQT PRODUCTION COMPANY

Corey C. Peck
B89B4A94E0C646A

By: Corey C. Peck

Its: Vice President - Land

DS DS DS
CC *MS* *ME*

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EXHIBIT "A"

Attached to and made a part of that certain Leasehold Commitment Agreement, dated September 26, 2024, by and between EQT and SWN/EQNR.

Original Lessor	Original Lessee	BK/PG	Lease Effective Date	Gross Acres	Leased Net Acres	Tracts Conveyed
HOLT PHYLLIS J AND WILLIAM J HOLT HUSBAND JOHN H	COLUMBIA GAS TRANSMISSION	566/572	12/14/1994	30.980000	6.234759	07-0007-0005-0000
DAVID J MULLEN AND SANDRA MULLEN HUSBAND AND WIFE	SWN PRODUCTION COMPANY LLC	931/432	7/6/2017	30.980000	3.117380	07-0007-0005-0000
MARCIA L KERANS AND GARY KERANS WIFE AND HUSBAND	SWN PRODUCTION COMPANY LLC	931/436	7/6/2017	30.980000	3.117380	07-0007-0005-0000
UNKNOWN HEIRS OF AGNES BRUHN	SWN PRODUCTION COMPANY LLC	1073/617	2/13/2020	30.980000	1.558690	07-0007-0005-0000
WHIPKEY WILBUR AND MARY M WHIPKEY HIS WIFE	MANUFACTURERS LIGHT & HEAT COMPANY	360/234	11/28/1962	79.020000	79.020000	07-0007-0008-0001
CHAMBERS CLARENCE AND BESSIE CHAMBERS HIS WIFE; LYLE DOBBS	MANUFACTURERS LIGHT & HEAT COMPANY	375/164	2/15/1965	33.778000	20.246204	07-0002-0020-0000
CHAMBERS CLARENCE AND BESSIE CHAMBERS HIS WIFE BESSIE DEL	MANUFACTURERS LIGHT & HEAT COMPANY	375/149	2/15/1965	32.000000	1.620801	07-0002-0021-0000
CHAMBERS RANDOLPH AND PAULINE CATHERINE CHAMBERS HIS WIFE;	MANUFACTURERS LIGHT & HEAT COMPANY	371/135	6/21/1964	48.938000	25.646885	07-0002-0022-0000

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EQT PRODUCTION COMPANY
400 Woodcliff Drive | Canonsburg, PA 15317

October 10, 2024

Via FedEx Overnight Delivery

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

Ch# 605413
7500.00

RE: Well Work Permit Application Modification – EXPEDITED REVIEW REQUESTED
Breckenridge S-8HM
Permit Number 47-051-02429
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

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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