



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, May 29, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

EXPAND OPERATING LLC
6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit Modification Approval for Michael Southworth MSH 1210H
47-051-02575-00-00

Extended Lateral

EXPAND OPERATING LLC

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.

A handwritten signature in black ink, reading "H. Jason Harmon".

H. Jason Harmon
Chief

Operator's Well Number: Michael Southworth MSH 1210H
Farm Name: Barry A & Kimberly S Litman
U.S. WELL NUMBER: 47-051-02575-00-00
Horizontal 6A New Drill
Date Modification Issued: 5/29/2026

Promoting a healthy environment.

05/29/2026

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

1) Well Operator: Expand Operating LLC 494533012 051-Marshall 6-Sandhi 648-Valley Grove
Operator ID County District Quadrangle

2) Operator's Well Number: Michael Southworth MSH 1210H Well Pad Name: Michael Southworth MSH

3) Farm Name/Surface Owner: Barry A. & Kimberly S. Litman Public Road Access: Walnut Grove Road

4) Elevation, current ground: 1271' Elevation, proposed post-construction: 1210'

5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐
Other ☐

(b) If Gas Shallow ☒ Deep ☐
Horizontal ☒

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 6467', Target Base TVD- 6518', Anticipated Thickness- 51', Associated Pressure- 4224

8) Proposed Total Vertical Depth: 6589'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 25,357'

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11) Proposed Horizontal Leg Length: 14,481.09

MAY 11 2026

12) Approximate Fresh Water Strata Depths: 633'

WV Department of
Environmental Protection

13) Method to Determine Fresh Water Depths: Depth reported from nearby well

14) Approximate Saltwater Depths: 1404' salinity profile

15) Approximate Coal Seam Depths: 764'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

17) Does Proposed well location contain coal seams
directly overlying or adjacent to an active mine? Yes ☐ No ☒

(a) If Yes, provide Mine Info: Name: Ohio County Coal Mine
Depth: 764'
Seam: Pittsburgh
Owner: Ohio County Coal Resources/ACNR Inc.

John C. Gower
STRADER GOWER
2/17/2024

WW-6B
(04/15)

API NO. 47- 051 -
OPERATOR WELL NO. Michael Southworth MSH 1210H
Well Pad Name: Michael Southworth MSH

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	20"	New	J-55	94#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	814'	814'	938 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2037'	2037'	778 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	25,357'	25,357'	Tail 4712sx/ 100' Inside Intermediate
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	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/10-15% Excess
Tubing							
Liners							

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PACKERS

Kind:				
Sizes:				
Depths Set:				

Strader Gower
STRADER GOWER
2/17/2026

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 15.85

22) Area to be disturbed for well pad only, less access road (acres): 8.44

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

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

See Attachment ***

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25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

Expand Energy

Proposed Drilling Program

Well: Michael Southworth MSH 1210H

Field: Panhandle

County: Marshall

SHL (NAD83): 40.012704 Latitude -80.614916 Longitude

BHL (NAD83): 39.977359 Latitude -80.558008 Longitude

KB Elev: 1,298 ft MSL

KB Height: 26 ft AGL

Drilling Rig: EDC 41

Formation: Marcellus Shale

State: WV

GL Elev: 1,272 ft MSL



NO COAL VOID EXPECTED

PROD TOC @ 2,037' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface/Coal	13.375	54.4 #	J-55	0'	814'
Intermediate	9.625	36.0 #	J-55	0'	2,037'
Production	5.5	20.0 #	P-110 HP	0'	25,357'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	938	A	15.6
Intermediate	778	A	15.6
Production	4712	A	14.5-15.0

136' to 834'

Air/Mist

834' to 2,057'

Air/Mist

2,057' to 9,329'

Air/Mist

TD at 9,329'

9,329' to 9,862'

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KOP at 9,329' MD

Freshwater Depth - 633' TVD

Coal Depth - 764' TVD

Saltwater Depth - 1,404' TVD

TVD - 6,589'

TMD - 25,357'

TD at 25,357' MD

6,589' TVD

6,498' TVD Target Center

LP at 9,862' MD

SHL Onondaga 6,518' TVD

Onondaga 6,609' TVD

9,862' to 25,357'

12.5-13.5 ppg

Created by: Tyler McCullar on 01/28/2026

Steve Gower
STRADER GOWER
2/12/2026

05/29/2026

T R I A D E L P H I A

JACKSON SURVEYING
INC.
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

TRIADDELPHIA

Proposed Surface Hole

Graphic Scale in Feet: 3000 0 3000

3000 0 3000
GRAPHIC SCALE IN FEET

LEGEND:

- LEGEND:
- PROPOSED SURFACE HOLE / BOTTOM HOLE
 - ☼ EXISTING / PRODUCING WELLHEAD
 - LPLx LANDING POINT LOCATION
 - ⬢ FLOOD PLAIN

-  ACCESS ROAD
 PUBLIC ROAD
 ACCESS ROAD TO PREV. SITE
 LEASE BOUNDARY
 PROPOSED PATH

WELL (FARM) NAME: MICHAEL SOUTHWORTH MSH		WELL # 1210H	SERIAL #
COUNTY - CODE MARSHALL - 051	DISTRICT: SANDHILL		
USGS 7 1/2 QUADRANGLE MAP NAME VALLEY GROVE, WV	API #: 47-051-		

DANNY A. & NIMROCKE S. LITMAN	VALLEY GROVE, WV	47-031-
Z:\2026 BACKUPS\1-02-26 DJ\EXPAND\MICHAEL SOUTHWORTH MSH\WELL PL\1210H\FINAL\SOUTHWORTH 1210H 1-29-26\SOUTHWORTH MSH 1210H 1-29-26	PROPERTY NUMBER 685	
THURSDAY JANUARY 29 2026 12:55PM	PAD ID 300155600	

05/29/2026

API #	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
051-00126	EXPAND OPERATING LLC	Active	40.030031	-80.607954	6,416'	Marcellus	***
051-00247	EXPAND OPERATING LLC	Active	40.029949	-80.608026	6,306'	Marcellus	***

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 MAY 11 2026
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TRIAD DELPHIA

SAND HILL

GRAPHIC SCALE IN FEET
 3000 0 3000
 05/29/2026

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

WELL OPERATOR:
EXPAND OPERATING LLC
ADDRESS:
1300 FORT PIERPONT RD, SUITE 200 MORGANTOWN, WV 26508
SURFACE OWNER:
BARRY A. & KIMBERLY S. LITMAN

 PROPOSED SURFACE HOLE / BOTTOM HOLE
 EXISTING / PRODUCING WELLHEAD
LPL  LANDING POINT LOCATION
 FLOOD PLAIN

 ACCESS ROAD
 PUBLIC ROAD
 ACCESS ROAD TO PREV. SITE
 LEASE BOUNDARY
 PROPOSED PATH

WELL (FARM) NAME: MICHAEL SOUTHWORTH MSH		WELL # 1210H	SERIAL #
COUNTY - CODE MARSHALL - 051	DISTRICT; SANDHILL		
USGS 7 1/2 QUADRANGLE MAP NAME VALLEY GROVE, WV	API #: 47-051-02575		

7-1 2026 BACKLIPS 1-02-26 DILLYRANON, MICHAEL SOUTHWORTH MSH\WELL PLAT 1210W\FINAL\ SOUTHWORTH 1210W 1-28-26\ SOUTHWORTH MSH 1210W 1-28-26 BACKLIPS 1-02-26

Latitude: 40°02'30"

SURFACE HOLE 8,843'

Latitude: 40°00'00"

BOTTOM HOLE 4,578'

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SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,429,238.249
EASTING: 532,864.578

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,428,959.512
EASTING: 534,773.279

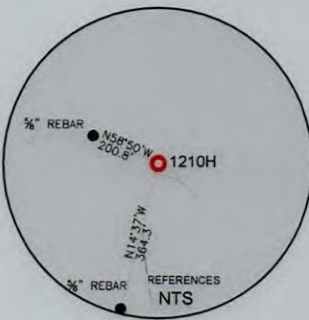
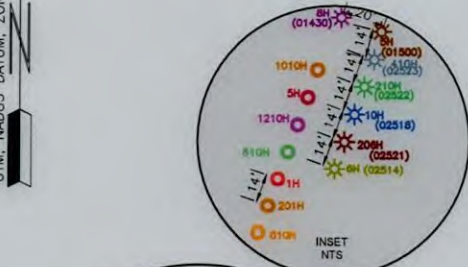
BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,425,337.871
EASTING: 537,740.818

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 11°06'55" E	1715.89'	SHL TO LANDMARK	5/8" REBAR FOUND
L2	N 45°35'04" E	1164.07'	SHL TO LANDMARK	NAIL @ FENCE INT.
L3	N 38°08'26" E	997.70'	LPL TO AZL1	

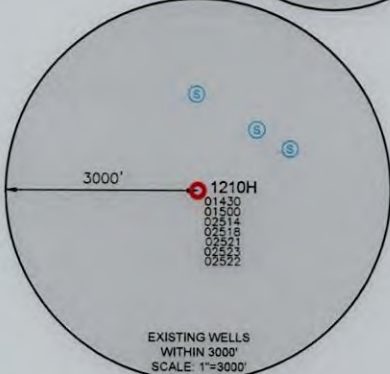
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 81°41'30" E	6328.55'	6724.83'	SHL TO LPL

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



BHL

SHL



WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

David L Jackson



2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY:

expand



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

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

MICHAEL SOUTHWORTH MSH
OPERATOR'S WELL #: 1210H
API WELL #: 47 051 02515
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: GRANDSTAFF RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1271.2'
DISTRICT: SANDHILL COUNTY: MARSHALL QUADRANGLE: VALLEY GROVE, WV
SURFACE OWNER: BARRY A. & KIMBERLY S. LITMAN ACREAGE: ±159.776
OIL & GAS ROYALTY OWNER: BARRY A. & KIMBERLY S. LITMAN ACREAGE: ±159.776
DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☐
CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY) 05/29/2026
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,589 TVD 25,357 TMD

WELL OPERATOR: EXPAND OPERATING LLC DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	REVISIONS:	DATE:
PROPOSED SURFACE HOLE / BOTTOM HOLE	SURVEYED BOUNDARY	01-29-2026
EXISTING / PRODUCING WELLHEAD	DRILLING UNIT	
LPL: LANDING POINT LOCATION	LEASE BOUNDARY	DRAWN BY: N. MANO
EXISTING WATER WELL	PROPOSED PATH	SCALE: 1" = 2000'
EXISTING SPRING		DRAWING NO:
		WELL LOCATION PLAT

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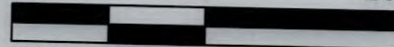
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708

David L Jackson



2000 0 2000



GRAPHIC SCALE IN FEET 05/29/2026

REVISIONS:	COMPANY:		
	expand		
	OPERATOR'S MICHAEL SOUTHWORTH MSH		API #:
	WELL #: 1210H		47-051-02575
	DISTRICT: SANDHILL	COUNTY: MARSHALL	STATE: WV
			DATE: 01-29-2026
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2

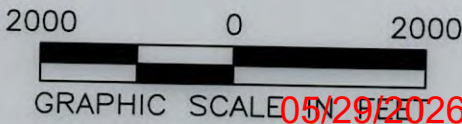
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REVISIONS:	COMPANY:		
	expand		
	OPERATOR'S MICHAEL SOUTHWORTH MSH		API #:
	WELL #: 1210H		47-051-02575
	DISTRICT:	COUNTY:	STATE:
	SANDHILL	MARSHALL	WV
			DATE: 01-29-2026
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 3

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WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	LITMAN BARRY A & KIMBERLY S (S/R)	12-2-10
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	REINEKE RICHARD S (S)	12-2-9
3	REINEKE RICHARD S (S)	12-2-9.2
4	TUBAUGH NORMA HUNTER ET AL (S)	12-2-5
5	GANTZER GREGORY (S)	12-3-12
6	GANTZER GREGORY (S)	12-3-11.1
7	MCVICKER R G JR (S)	12-3-11
8	TOTH JOHN J SR & ALICE J REVOCABLE TRUST (S)	12-8-11
9	TOTH JOHN J SR & ALICE J REVOCABLE TRUST (S)	12-8-12
10	KILCORE JAMES E ET UX - LIFE (S)	12-8-13
11	GARRISON DAN R & SANDRA ET AL (S)	12-8-15.6
12	GARRISON SANDRA L (S)	12-8-15.2
13	MERINAR HOWARD ET AL (S)	12-8-16
14	MERINAR HOWARD ET AL (S)	12-7-15
13	FRIDHOF ROBERT J & ROBIN L (S)	12-7-16
16	HOWARD COREY E (S)	12-7-16.1
17	MERINAR MICHAEL L & VICKI L (S)	12-12-1.2
18	MERINAR JAMIE K (S)	12-12-1.1
19	MERINAR JIMMY H R & ANGELA D (S)	12-12-1.3
20	MERINAR HOWARD L & MARY LOU FABER (S)	12-12-2
21	KESSEL JAMES WEAVER ET AL (S)	12-12-3
22	TOLA VD BERTHA B & CLARK (S)	12-12-9
23	RIGGLE WILLIAM WAYNE (S)	12-12-8

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	LITMAN JAMES M & LUCY A	12-2-16.1
B	RADCLIFFE JOIN D & ANNA M	12-2-10.1
C	LITMAN BARRY A	12-2-10.2
D	VELLENOWETH SCOTT U ET UX	12-2-1.1
E	BLATT THERESA L	12-2-23
F	BAIRD FAMILY TRUST	12-2-2
G	GREGORY DONNA R TOD	12 2 9.1
H	MCFARLAND DANIEL W & VICKI L	12-2-24
I	MCFARLAND DANIEL W JR	12-2-4.1
J	HUNTER RODNEY J	12-3-14
K	HUNTER MARILYN DARLENE	12-3-14.2
L	MCFARLAND BRIAN MATTIEW	12-3-12.1
M	MCNINCH NEILL L ET AL; C/O MCNINCH MICHAEL	6-T18-10
N	ESTEP JERRY R ET AL	12-3-2
O	THOMAS J W ET UX	12-3-9
P	TOTH JOHN J SR & ALICE - TRUST	12-7-1
Q	LYNSKEY JOHN T	12-3-10
R	TOTH JOHN J SR & ALICE - TRUST	12-7-2
S	HUNTER GARY P	12-7-21
T	TOTH JOHN J ET UX - TRUST	12-7-20
U	HILLBERRY GARRY L ET UX	12-7-18
V	GARRISON SANDRA L	12-8-15.4
W	HUGHES BRIAN D & TAMMY L	12-7-17
X	HARRIS JASON R	12-7-13
Y	NASII JOAN C	12-7-13.1
Z	HARRIS DAVID S	12-7-13.2
A2	MERINAR HOWARD L & MARY LOU HABER	12 7 14
B2	HARRIS JASON R	12-7-11.1
C2	LYSESKI RYAN C & JACQUELYN L	12 7 10.2
D2	LYSESKI RYAN C & JACQUELYN	12-7-10.3
E2	APPALACHIA MIDSTREAM SERV LLC	12-7-10
F2	HUNTER DALL	12-7-10.1
G2	HUNTER THOMAS J ET UX	12-12-4.2
H2	RIGGLE RICHARD G	12-12-8.2
I2	WEISGERBER WILLIAM H & DONNA R	12-12-7.3
J2	CNX GAS COMPANY LLC	12-12-7.4
K2	HOCKENBERRY JAMES M	12-12-8.1
L2	PARSONS CAROL L	12-12-10.2
M2	PARSONS DEBRA F	12-12-10
N2	SMITHEY HARRY L & BONITA S	12-12-10.1
O2	EARNEST CARL D & MOLLIE J	12 12 13.1
P2	MERINAR BELINDA JOY	12-12-13
Q2	HOFFMAN DALE E ET UX	12 12 14
R2	HAZLETT JAMES BENTON	12-11-14.1
S2	HAZLETT JAMES BENTON	12-11-14
T2	MERINAR BRIAN M	12-12-1
U2	STORCH LOIS M - TOD	12-11-12.2
V2	MCCARDLE CLIFFORD B	12 8 20
W2	MCCARDLE CLIFFORD B	12-8-19
X2	MCCARDLE CLIFFORD B	12-8-18
Y2	STORCH LOIS M	12-8-25
Z2	STORCH LOIS M	12-8-17
A3	HELLSTERN JOHN J JR ET UX	12-8-15.1
B3	KIGER BRANDY LYNN	12-8-16.2
C3	OHIO COUNTY COAL RESOURCES INC	12-8-15
D3	MERINAR MICHAEL S & JAMIE K	12 8 16.1
E3	GARRISON DAN R ET AL	12 8 15.5
F3	CONSOLIDATION COAL COMPANY; MURRAY ENERGY C/O LAND DEPT	12-8-15.7
G3	HUNTER BOCK SALLY A	12 8 14.3
H3	WINTERS DAVID L - LIFE	12-8-14
I3	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-9.1
J3	GODDARD THIRCSA M	12-8-9
K3	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-1
L3	PARKER PETER	12-2-6
M3	TDL&G LLC	12-2-8
N3	G F P CORP	12-2-12
O3	WV BRIGHTMONT LLC	12-2-14
P3	EDGE WILLIAM FJR - TOD ET AL	12-2-15
Q3	EDGE WILLIAM FJR TOD ET AL	12 2 16

*Highlighted Parcels may be impacted during drilling.

05/29/2026

REVISIONS:	COMPANY:		
	OPERATOR'S MICHAEL SOUTHWORTH MSH	API #:	DATE: 01-29-2026
	WELL #: 1210H	47-051-02515	DRAWN BY: N. MANO
	DISTRICT: SANDHILL	COUNTY: MARSHALL	SCALE: N/A
		STATE: WV	DRAWING NO:
			WELL LOCATION PLAT 4

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
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See Exhibit "A"

*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

**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: Expand Operating, LLC
By: Kelley Ryan *Kelley Ryan*
Its: Landman II

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EXHIBIT "A"
Michael Southworth MSH 1210H
Marshall County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by Expand Operating LLC, Operator

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY EXPAND APPALACHIA LLC
1	12-2-10	Robert B. Elliott, married, dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	676/179 33/110 1094/490	0%
		Mable L. Riggie, widow	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	722/602 33/110 1094/490	
		Elm Grove United Methodist Church	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	722/606 33/110 1094/490	
		Salvation Army	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	723/10 33/110 1094/490	
		Dolores E. Williams, divorced	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	723/382 33/110 1094/490	
		Gregory Williams, single	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	723/376 33/110 1094/490	
2	12-2-9	Richard S. Reineke and Charlene R. Reineke, husband and wife	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	676/341 33/110 1094/490	0%
3	12-2-9.2	Richard S. Reineke and Charlene R. Reineke	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	676/341 33/110 1094/490	0%
4	12-2-5	Norma M. Hunter Tubaugh	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	673/538 33/110 1094/490	0%
5	12-3-12	Daniel William McFarland and Vicki L. McFarland	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	684/271 33/110 1094/490	0%
6		Daniel William McFarland and Vicki L. McFarland	Chesapeake Appalachia, LLC SWN Production Company Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	684/271 33/110 1094/490	0%
7	12-3-11	Robert G. McVicker Jr. and Patricia L. McVicker, husband and wife	Noble Energy, Inc. HG Energy II Appalachia LLC Antero Appalachia II LLC * See Attached	at least 1/8th per WV Code §22-6-8	850/290 39/1 2/535	* 100%
8	12-8-11	Sandhill Land Ventures, LP	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1203/533 1094/490	0%
9	12-8-12	Sandhill Land Ventures, LP	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1203/533 1094/490	0%
10	12-8-13	James E. Kilgore and Phyllis L. Kilgore, husband and wife, Life Tenants; and Heather L. Sells, remainderman, Holly L. Kilgore, remainderman, and Hope L. Jordan, remainderman	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1222/449 1094/490	0%
11	12-8-15.6	Sandra L. Garrison, a widow, and Dan R. Garrison, Jr., a single man	Expand Appalachia, LLC	at least 1/8th per WV Code §22-6-8	1251/259	0%
12	12-8-15.2	Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC High Road Operating, LLC TH Exploration, LLC EQT TGH Exploration, LLC * See Attached Leasehold Commitment Letter	at least 1/8th per WV Code §22-6-8	945/73 44/254 49/249 2/463	100%
		Carolyn L. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC High Road Operating, LLC TH Exploration, LLC EQT TGH Exploration, LLC * See Attached Leasehold Commitment Letter	at least 1/8th per WV Code §22-6-8	946/264 44/254 49/249 2/463	
		Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC High Road Operating, LLC TH Exploration, LLC EQT TGH Exploration, LLC * See Attached	at least 1/8th per WV Code §22-6-8	945/118 44/254 49/249 2/463	
13	12-8-16	Bounty Minerals, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1229/298 1094/490	0%
		Howard L. Merinar, a single man	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1222/512 1094/490	
		Michael L. Merinar and Vicki L. Merinar, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1222/57 1094/490	
		Bounty Minerals, LLC	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1229/298 1094/490	

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#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY EXPAND APPALACHIA LLC
14	12-7-15	Howard L. Merinar, a single man	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1222/512 1094/490	0%
		Michael L. Merinar and Vicki L. Merinar, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1222/57 1094/490	
15	12-7-16	Robert J. Freidhof and Robin L. Freidhof, his wife	Tri Energy Holdings, LLC NPAR, LLC Noble Energy, Inc HG Energy II Appalachia, LLC Antero Appalachia II LLC *See Attached Letter Agreement	at least 1/8th per WV Code §22-6-8	717/394 756/332 24/430 39/1 2/535	*100%
16	12-7-16.1	Corey E. Howard, single	Appalachian Resources Development Group, LLC Chief Capital (O&G) III LLC GOE Resources, LLC *See Attached Recording Supplement to JOA	at least 1/8th per WV Code §22-6-8	1247/603 Pending	*100%
17	12-12-1.2	Michael L. Merinar and Vicki L. Merinar, husband and wife	SWN Production Company, LLC Expand Appalachia LLC	at least 1/8th per WV Code §22-6-8	1222/57	0%
18	12-12-1.1	Michael L. Merinar and Vicki L. Merinar, his wife, as joint tenants with right of survivorship	American Petroleum Partners Operating, LLC High Road Operating, LLC TH Exploration, LLC EQT TGH Exploration, LLC *See Attached Leasehold Commitment Letter	at least 1/8th per WV Code §22-6-8	925/473 44/254 49/249 2/463	*100%
19	12-12-1.3	Timothy R. Merinar and Angela D. Merinar, husband and wife	TH EXPLORATION, LLC EQT TGH Exploration, LLC *See Attached Leasehold Commitment Letter	at least 1/8th per WV Code §22-6-8	1136/663 2/463	*100%
20	12-12-2	Luke L. Merinar and Clara Merinar, his wife; LeMoyne R. Merinar and Helen C. Merinar, his wife	The Manufacturers Light and Heat Company Columbia Gas Transmission CNX Gas Company, LLC Noble Energy, Inc. HG Energy II Appalachia, LLC Antero Appalachia LLC * See attached Letter Agreement	at least 1/8th per WV Code §22-6-8	342/180 422/204 37/129 37/169 41/1 39/1 2/535	*100%
21	12-12-3	Ethel Woodruff, widow	The Manufacturers Light and Heat Company Columbia Gas Transmission CNX Gas Company, LLC Noble Energy, Inc. HG Energy II Appalachia, LLC Antero Appalachia LLC * See attached Letter Agreement	at least 1/8th per WV Code §22-6-8	342/299 422/204 37/129 37/169 41/1 39/1 2/535	*100%
22	12-12-9	Anna Wilson and Luther Wilson, her husband; Harry Toland, single; William R. Toland and Pearl Toland, his wife; Arthur S. Toland and Dorothy Toland, his wife; Elizabeth Riggle and Orville Riggle, her husband; James E. Toland, single; Myrtle Gray and Presley Gray, her husband; Zelma Gray and Harry Gray, her husband; Herbert L. Toland and Dortha Toland, his wife	The Manufacturers Light and Heat Company Columbia Gas Transmission CNX Gas Company, LLC Noble Energy, Inc. HG Energy II Appalachia, LLC Antero Appalachia LLC * See attached Letter Agreement	at least 1/8th per WV Code §22-6-8	342/173 422/204 37/129 37/169 41/1 39/1 2/535	*100%
23	12-12-8	Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company Columbia Gas Transmission CNX Gas Company, LLC Noble Energy, Inc. HG Energy II Appalachia, LLC Antero Appalachia LLC * See attached Letter Agreement	at least 1/8th per WV Code §22-6-8	342/197 422/204 37/129 37/169 41/1 39/1 2/535	*100%
V	12-8-15.4	Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC High Road Operating, LLC TH Exploration, LLC EQT TGH Exploration, LLC *See Attached Leasehold Commitment Letter	at least 1/8th per WV Code §22-6-8	945/73 44/254 49/249 2/463	*100%
		Carolyn L. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC High Road Operating, LLC TH Exploration, LLC EQT TGH Exploration, LLC *See Attached Leasehold Commitment Letter	at least 1/8th per WV Code §22-6-8	946/264 44/254 49/249 2/463	
		Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC High Road Operating, LLC TH Exploration, LLC EQT TGH Exploration, LLC *See Attached Leasehold Commitment Letter	at least 1/8th per WV Code §22-6-8	945/118 44/254 49/249 2/463	
*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be						
*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.						
*Potentially Impacted Parcels - Parcels that may be impacted during drilling.						
End of Exhibit "A"						

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EQT Production Company
EQT CHAP LLC
EQT Aurora LLC
EQT TGHLL Exploration LLC
EQT TGHLL Exploration II LLC
EQT TGHLL Exploration III LLC
2200 Energy Drive
Canonsburg, PA 15317
Attn: Greg Godbey

Re: Leasehold Commitment Agreement
Proposed Betty Schafer South A, B, C, D, and E Unit
Proposed Michael Southworth Southeast D and E Unit
Marshall County, West Virginia

Dear Greg:

This letter (this "**Leasehold Commitment Agreement**") shall serve as a formal agreement between Expand Appalachia LLC, an Oklahoma limited liability company, a subsidiary of Expand Energy Corporation, sole manager, with an address of 10000 Energy Drive, Spring, Texas 77389 ("EXE"), Equinor USA Onshore Properties Inc., a Delaware corporation, whose address is 2107 City West Blvd, Houston, Texas 77042 ("EQNR") (EXE and EQNR are collectively referred to as "EXE/EQNR") and EQT Production Company, a Pennsylvania Limited Liability Corporation ("EPC"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317 and EQT CHAP LLC, a Delaware limited liability company ("CHAP"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT Aurora LLC, a Delaware limited liability company ("Aurora"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT TGHLL Exploration LLC, a Texas limited liability company ("TGHLL"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT TGHLL Exploration II LLC, a Texas limited liability company ("TGHLL II"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317, and EQT TGHLL Exploration III LLC, a Texas limited liability company ("TGHLL III"), whose address is 2200 Energy Drive, Canonsburg, Pennsylvania 15317 (EPC, CHAP, TGHLL, TGHLL II, TGHLL III, and Aurora are collectively referred to as "EQT") regarding certain tracts of land and leases in Marshall County, West Virginia, as described in the attached Exhibit "A", wherein EQT 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:

EXE/EQNR and EQT are currently negotiating an acreage trade 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 EXE/EQNR's attention that the Subject Tracts, which EQT and EXE/EQNR agree shall be included in said acreage trade, are located within EXE/EQNR's Betty Schafer South A, B, C, D, and E Unit and Michael Southworth Southeast D and E Unit (the "**Unit**"). EXE/EQNR plans to drill a well (the "**Well**") in this Unit and the wellbore lateral for such Well may reach the Subject Tract prior to EXE/EQNR and EQT finalizing the aforementioned trade agreement. EXE/EQNR intends to drill the Well to the Marcellus Formation. As used herein, "**Marcellus Formation**" means all depths and formations from 500' above the top of the Tully formation as seen at 6943' MD in the log for the BIG57H1 well located in Wetzel County, WV (API# 4710302414) down to 200' below the top of the Onondaga formation as seen in the aforementioned well log at a depth of 7117' MD.

Subject to the terms and conditions of this Leasehold Commitment Agreement, EQT consents to and grants EXE/EQNR all of EQT'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, EXE/EQNR and EQT are in the process of negotiating a mutually agreeable trade agreement, which shall include the Subject Tracts (the "**Trade Agreement**"). As used herein, the term "**Trade Deadline**" means the date that is 180 days following the date of this Leasehold Commitment Agreement. Within ten days following the earliest to occur (on a Subject Tract-by-Subject Tract basis) of the following (as applicable, the "**Termination Date**"); (a) the Trade Deadline, if by the Trade Deadline EQT and EXE/EQNR have not executed and delivered to one another a mutually acceptable and definitive Trade Agreement that includes such Subject Tracts; (b) the date that a Subject Tract is fully and finally excluded from the assignment or lease to occur pursuant to the Trade Agreement; or (c) the date that the Trade Agreement is terminated in accordance with its express terms, the following items in either clause (1) or (2) below shall occur pursuant to the written election of EQT (the "**Electing Party**") to EXE/EQNR. For clarity, those Subject Tracts that have not been committed to a Trade Agreement or assigned or leased to EXE/EQNR pursuant to a Trade Agreement on or before the applicable Termination Date are, collectively, the "**EQT Remaining Tracts**".

- (1) Electing Party and EXE/EQNR shall execute, acknowledge, and deliver to one another (i) an assignment, bill of sale, and conveyance pursuant to which Electing Party will assign to EXE/EQNR all of Electing Party's right, title, and interest in and to the EQT Remaining Tracts to which it owns leasehold, limited to the Marcellus Formation, and or (ii) an oil and gas lease pursuant to which Electing Party will lease to EXE/EQNR all of Electing Party's right, title, and interest in and to the EQT Remaining Tracts to which it owns fee interests, limited to the Marcellus Formation; and

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EXE/EQNR shall pay to EQT, by wire transfer of immediately available funds to an account designated in writing by EQT, an amount equal to (y) the sum of the net acres for the EQT Remaining Tracts (which shall be equal to the number set forth in Exhibit "A" under the column heading "Lease Net Acres" for each such EQT Remaining Tract), multiplied by (z) [REDACTED]

(or)

- (2) Electing Party shall retain its Leasehold interest as to the EQT Remaining Tracts and Electing Party and EXE/EQNR shall promptly execute mutually agreed upon joint operating agreements, well elections, and pooling designations for the Units as though they were parties to the agreements from the date of this Leasehold Commitment Agreement. Electing Party's working interest in the Units shall be based upon the proportion of the net acres the EQT Remaining Tracts contribute to each individual Unit. For avoidance of doubt, electing this clause (2) by Electing Party is not, in and of itself, an election to participate in any well.

EXE/EQNR shall be fully responsible for and shall release, defend, indemnify and hold EQT harmless from and against any and all losses, expenses, damages, injuries, claims or obligations and liabilities (including attorneys' fees) arising from or relating to EXE/EQNR'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 (346) 535-0802 or by email at gavin.nadeau@expandenergy.com.

Respectfully,

Expand Appalachia LLC



Gavin Nadeau, RPL
Sr. Staff Landman

[SIGNATURE PAGE TO FOLLOW]

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EXE:

EXPAND APPALACHIA LLC

By: ~~Expand Energy Corporation~~, sole manager

Derek Cutright

By: Derek Cutright

Its: Vice President

Initial Initial Initial Initial
YN DW GN PMB

EQNR:

~~Equinox Energy~~
EQUINOX USA ONSHORE PROPERTIES INC.

Eric Luszc

By: Eric Luszc

Its: Manager - Land

Initial
DB

EQT:

~~EQT PRODUCTION COMPANY~~

Corey C. Peck

By: Corey C. Peck

Its: Vice President - Land

DS DS DS
GG LMS ME

Corey C. Peck

By: Corey C. Peck

Its: Vice President - Land

DS DS DS
GG LMS ME

Corey C. Peck

By: Corey C. Peck

Its: Vice President - Land

DS DS DS
GG LMS ME

Corey C. Peck

By: Corey C. Peck

Its: Vice President - Land

DS DS DS
GG LMS ME

Corey C. Peck

By: Corey C. Peck

Its: Vice President - Land

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GG LMS ME

Corey C. Peck

By: Corey C. Peck

Its: Vice President - Land

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GG LMS ME

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Exhibit "A"

Attachment to and made a part of that certain Leasehold Commitment Agreement, dated March 3, 2026, by and between EXE/EQNR and EQT.

Original Lessor	Original Lessee	LB/PG	Lease Effective Date	Assigned Gross Acres	Lease Net Acres	Tract(s) Conveyed
APP Minerals LLC	American Petroleum Partners Operating, LLC	984/388	10/1/2018	3.250000		13-0014-0021-0000
Michael L. Merinar and Vicki L. Merinar, his wife, as joint tenants	American Petroleum Partners Operating, LLC	925/473	5/8/2017	2.583000		12-0008-0016-0001
Timothy R. Mennar and Angela D. Mennar, husband and wife	TH Exploration, LLC	1136/663	5/19/2022	54.556000		12-0012-0001-0003 ✓
Carolyn L. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC	946/264	9/23/2017	2.000000		12-0008-0015-0002 ✓
Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC	945/118	9/23/2017	2.000000		12-0008-0015-0002 ✓
Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC	945/73	9/23/2017	2.000000		12-0008-0015-0002 ✓
Carolyn L. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC	946/264	9/23/2017	1.984000		12-0008-0015-0004
Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC	945/118	9/23/2017	1.984000		12-0008-0015-0004
Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC	945/73	9/23/2017	1.984000		12-0008-0015-0004
Michael L. Merinar and Vicki L. Merinar, his wife, as joint tenants	American Petroleum Partners Operating, LLC	925/473	5/8/2017	3.090000		12-0012-0001-0001 ✓
Rickey Jo Strobe, a married woman dealing in her sole and	Chesapeake Appalachia, L.L.C.	690/380	7/15/2009	22.449520		15-0006-0009-0000
Mark Brent Fitzsimmons, a married man dealing in his sole	Chesapeake Appalachia, L.L.C.	690/383	7/15/2009	22.449520		15-0006-0009-0000
Mark B. Fitzsimmons and Deborah A. Fitzsimmons.	Chesapeake Appalachia, L.L.C.	690/320	7/15/2009	2.380000		15-0006-0015-0000
Sri Haslam, a single woman	Chevron U.S.A. Inc.	961/64	12/9/2017	1.178000		15-0007-0023-0002
William E. Coffield and Brenda K. Coffield, husband and wife	TH Exploration, LLC	1151/345	11/10/2022	7.334439		15-0007-0028-0000
David W. Schrack, a single man	Great Lakes Energy Partners, L.L.C.	652/37	1/17/2007	40.000000		15-0007-0030-0000
Gary W. Strobe and Rickey J. Strobe, Trustees of the Strobe	TH Exploration, LLC	1136/209	5/5/2022	4.000000		15-0006-0002-0000
Barbara Seibert and Randy Seibert, wife and husband	TH Exploration, LLC	1147/354	8/20/2022	1.102000		15-0006-0017-0002
Ruth Mangus	TH Exploration, LLC	1148/261	8/26/2022	1.102000		15-0006-0017-0002
Linda A. Contalone and Anthony Contalone, wife and husband	TH Exploration, LLC	1149/41	8/27/2022	1.102000		15-0006-0017-0002
Cennie Jo Lilley, a single woman	TH Exploration, LLC	1146/76	8/15/2022	1.102000		15-0006-0017-0002
Cathy J. Caldwell, a widow	TH Exploration, LLC	1148/328	9/6/2022	1.102000		15-0006-0017-0002
Daniel J. Lilley and Danielle Lilley, husband and wife	TH Exploration, LLC	1148/78	8/11/2022	1.102000		15-0006-0017-0002
Sarah E. Dean and Andrew Dean, wife and husband	TH Exploration, LLC	1147/350	9/14/2022	1.102000		15-0006-0017-0002
Stone Hill Minerals Holdings, LLC	TH Exploration, LLC	1142/257	6/15/2022	1.102000		15-0006-0017-0002
Stone Hill Minerals Holdings, LLC	TH Exploration, LLC	1148/328	10/14/2022	1.102000		15-0006-0017-0002
Amanda L. Mackay and Tyler Mackay, wife and husband	EQT TGH Exploration, LLC	1190/165	4/26/2024	1.102000		15-0006-0017-0002
Karen S. Altabas and Steve Altabas, wife and husband	EQT TGH Exploration, LLC	1191/99	5/3/2024	1.102000		15-0006-0017-0002
Ronald E. Lilley, Sr., a single man	EQT TGH Exploration, LLC	1191/96	5/9/2024	1.102000		15-0006-0017-0002
David W. Lilley, Sr. and Susan Lilley, husband and wife	EQT TGH Exploration, LLC	1193/350	6/12/2024	1.102000		15-0006-0017-0002
Dawn Ward, a single woman	TH Exploration, LLC	1149/43	8/27/2022	1.102000		15-0006-0017-0002
Cheryl Ward, a widow	TH Exploration, LLC	1147/355	8/16/2022	1.102000		15-0006-0017-0002

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End of Exhibit "A"

Exhibit "A-1"
Michael Southworth Southeast E Unit
Sand Hill District, Marshall County, West Virginia

Attached to and made a part of that certain Recording Supplement Operating Agreement and Financing Statement prepared April 27, 2026 and made effective March 1, 2026 by and between Expand Appalachia LLC, as Operator and Appalachia Resources Development Group LLC, et al, as Non-Operator(s)

Lease Number	Lessor	Lessee	District/ Township	County	Lease Date	Recording Information
724871-000	Norma Tubaugh, wife, Dawnisa Tubaugh, daughter, Clarence W. Tubaugh, son, and Gary W. Glessner, grandson	Chesapeake Appalachia, L.L.C.	Sandhill	Marshall	9/1/2008	673/538
744535-001	John T. Lynskey, a single man	Tri Energy Holdings, LLC	Sandhill	Marshall	11/26/2010	726/562
Pending	Robert G. McVicker Jr. and Patricia L. McVicker, husband and wife	Noble Energy, Inc.	Sandhill	Marshall	11/26/2014	850/290
725565-000	Daniel William McFarland and Vicki L. McFarland, husband and wife	Chesapeake Appalachia, L.L.C.	Sandhill	Marshall	5/13/2009	684/271
725565-000	Daniel William McFarland and Vicki L. McFarland, husband and wife	Chesapeake Appalachia, L.L.C.	Sandhill	Marshall	5/13/2009	684/271
Pending	C.W. Dague and Ora M. Dague, his wife	The Manufacturers Light & Heat Co.	Sandhill	Marshall	9/12/1950	272/44 309/111
Pending	David S. Harris	Expand Appalachia LLC	Sandhill	Marshall	4/4/2026	Pending
Pending	Luke L. Merinar and Clara Merinar, his wife; LeMoyne R. Merinar and Helen C. Merinar, his wife	The Manufacturers Light and Heat Company	Sandhill	Marshall	10/29/1960	342/180
LP-WV-0004269-001	Bounty Minerals, LLC	SWN Production Company, LLC	Sandhill	Marshall	6/9/2025	1229/298

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Lease Number	Lessor	Lessee	District/ Township	County	Lease Date	Recording Information
LP-WV-0004537-001	Howard L. Merinar, a single man	SWN Production Company, LLC	Sandhill	Marshall	4/8/2025	1222/512
LP-WV-0004064-001	Michael L. Merinar and Vicki L. Merinar, husband and wife	SWN Production Company, LLC	Sandhill	Marshall	3/28/2025	1222/57
Pending	Robert J. Freidhof and Robin L. Freidhof, his wife	Tri Energy Holdings, LLC	Sandhill	Marshall	9/23/2010	717/394
N/A	Corey E. Howard, single ✓	Appalachian Resources Development Group, LLC	Sandhill	Marshall	9/24/2025	1247/603
Pending	Garry L. Hillberry and Denise L. Hillberry, husband and wife	Noble Energy, Inc.	Sandhill	Marshall	10/13/2014	851/403
786752-000	Sandhill Land Ventures, LP, represented herein by Sandhill Land Company, LLC, General Partner, represented herein by Bradley J. Carpenter, Managing Member	SWN Production Company, LLC	Sandhill	Marshall	1/2/2024	1178/52
744880-000	Sandhill Land Ventures, LP	SWN Production Company, LLC	Sandhill	Marshall	10/28/2024	1203/533
744880-000	Sandhill Land Ventures, LP	SWN Production Company, LLC	Sandhill	Marshall	10/28/2024	1203/533
LP-WV-0004458-000	James E. Kilgore and Phyllis L. Kilgore, husband and wife, Life Tenants; and Heather L. Sells, remainderman, Holly L. Kilgore, remainderman, and Hope L. Jordan, remainderman	SWN Production Company, LLC	Sandhill	Marshall	3/31/2025	1222/449

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Lease Number	Lessor	Lessee	District/ Township	County	Lease Date	Recording Information
Pending	CNX Gas Company LLC	Expand Appalachia, LLC and Equinor USA Onshore Properties Inc.	Sandhill	Marshall	1/30/2026	1258/647
Pending	Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC	Sandhill	Marshall	9/20/2017	945/73
Pending	Carolyn L. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC	Sandhill	Marshall	9/28/2017	946/264
Pending	Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC	Sandhill	Marshall	9/20/2017	945/118
Pending	Robert W. McMillan and Rebecca K. McMillan, husband and wife	American Petroleum Partners Operating, LLC	Sandhill	Marshall	9/20/2017	945/73
Pending	Carolyn L. Smith and Wayne Smith, wife and husband	American Petroleum Partners Operating, LLC	Sandhill	Marshall	9/28/2017	946/264
Pending	Lisa G. McMillan, a widow	American Petroleum Partners Operating, LLC	Sandhill	Marshall	9/20/2017	945/118
LP-WV-0005266-000	Sandra L. Garrison, a widow, and Dan R. Garrison, Jr., a single man	Expand Appalachia, LLC	Sandhill	Marshall	11/8/2025	1251/259
LP-WV-0005266-000	Sandra L. Garrison, a widow, and Dan R. Garrison, Jr., a single man	Expand Appalachia, LLC	Sandhill	Marshall	11/8/2025	1251/259

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Lease Number	Lessor	Lessee	District/ Township	County	Lease Date	Recording Information
LP-WV-0004269-001	Bounty Minerals, LLC	SWN Production Company, LLC	Sandhill	Marshall	6/9/2025	1229/298
LP-WV-0004537-001	Howard L. Merinar, a single man	SWN Production Company, LLC	Sandhill	Marshall	4/8/2025	1222/512
LP-WV-0004064-001	Michael L. Merinar and Vicki L. Merinar, husband and wife	SWN Production Company, LLC	Sandhill	Marshall	3/28/2025	1222/57
Pending	Michael L. Merinar and Vicki L. Merinar, his wife, as joint tenants with right of survivorship	American Petroleum Partners Operating, LLC	Sandhill	Marshall	5/8/2017	925/473
Pending	Michael L. Merinar and Vicki L. Merinar, his wife, as joint tenants with right of survivorship	American Petroleum Partners Operating, LLC	Sandhill	Marshall	5/8/2017	925/473
LP-WV-0004064-001	Michael L. Merinar and Vicki L. Merinar, husband and wife	SWN Production Company, LLC	Sandhill	Marshall	3/28/2025	1222/57
Pending	Timothy R. Merinar and Angela D. Merinar, husband and wife	TH EXPLORATION, LLC	Sandhill	Marshall	5/19/2022	1136/663
Pending	Luke L. Merinar and Clara Merinar, his wife; LeMoyn R. Merinar and Helen C. Merinar, his wife	The Manufacturers Light and Heat Company	Sandhill	Marshall	10/29/1960	342/180
Pending	Ethel Woodruff, widow	The Manufacturers Light and Heat Company	Sandhill	Marshall	10/14/1960	342/299

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Lease Number	Lessor	Lessee	District/ Township	County	Lease Date	Recording Information
Pending	Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	Sandhill	Marshall	4/9/1960	342/197
Pending	Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	Sandhill	Marshall	4/9/1960	342/197
Pending	Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	Sandhill	Marshall	4/9/1960	342/197
Pending	Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	Sandhill	Marshall	4/9/1960	342/197

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Lease Number	Lessor	Lessee	District/ Township	County	Lease Date	Recording Information
Pending	Anna Wilson and Luther Wilson, her husband; Harry Toland, single; William R. Toland and Pearl Toland, his wife; Arthur S. Toland and Dorothy Toland, his wife; Elizabeth Riggle and Orville Riggle, her husband; James E. Toland, single; Myrtle Gray and Presley Gray, her husband; Zelma Gray and Harry Gray, her husband; Herbert L. Toland and Dortha Toland, his wife	The Manufacturers Light and Heat Company	Sandhill	Marshall	9/12/1960	342/173
Pending	George N. Junkins and Isabell Junkins, his wife	The Manufacturers Light & Heat Co.	Sandhill	Marshall	9/13/1960	342/169 773/157
LP-WV-0005440-000	West Virginia Department of Transportation, Division of Highways	Expand Appalachia, LLC	Sandhill	Marshall	9/17/2025	1254/681

End of Exhibit "A-1"

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February 25, 2026

Antero Resources Corporation
1615 Wynkoop St.
Denver, CO 80202

Via Email: jhurst@anteroresources.com;

RE: Drill Letter – Marshall County, WV

Dear Mr. Hurst:

1. Per our discussions, Expand Appalachia LLC, a Oklahoma limited liability company ("**Expand**") and Antero Resources Corporation ("**ARC**") (ARC and Expand may be referred to individually as a "**Party**" and collectively as the "**Parties**"), are in the process of negotiating an acreage trade agreement (the "**Trade Agreement**") for the exchange, assignment and/or granting of certain oil and gas leases in Doddridge, Harrison, Tyler, Marshall, Lewis, Ritchie, and Wetzel Counties, West Virginia (the "**Proposed Transaction**"), to facilitate each of their respective drilling and development needs.

2. As currently contemplated by the Parties, pursuant to the Trade Agreement, ARC will assign to Expand certain oil and gas leases in exchange for Expand assigning and/or granting to ARC certain oil and gas leases.

3. Among the ARC oil and gas leases contemplated to be included in the Proposed Transaction are the oil and gas leases or portions thereof described on **Exhibit A** attached hereto, comprising approximately 277 NRI Acres (the "**Drilling Leases**"). As used in this letter agreement, "**NRI Acres**" shall have the definition set forth on **Schedule 1**.

4. The Parties desire to accommodate Expand's drilling and development of certain Expand units in advance of the execution of the Trade Agreement. Therefore, ARC hereby grants to Expand and/or its designated affiliates the right to drill, complete, produce, and obtain all necessary permits and governmental approvals, in order to drill, complete and produce one (1) or more wellbore laterals ("**Wells**") through and in the Marcellus Formation of the lands covered by the Drilling Leases; *provided, however*, that ARC hereby expressly withholds to itself and its successors and assigns and does not grant to Expand (a) the right to complete in any formation covered by the Drilling Leases other than the Marcellus Formation (*provided* that Expand may drill through such formations) or (b) the right to access the surface of or to conduct surface operations on the lands covered by the Drilling Leases unless Expand enters into a separate agreement with the surface owner(s). As used in this letter agreement, "**Marcellus Formation**" shall have the definition set forth on **Schedule 1**.

5. Expand hereby agrees to indemnify, defend and hold harmless ARC and its affiliates, equity holders, subsidiaries or related companies (the "**Indemnified Parties**") for, from and against any and all Claims (as defined below) sustained by the Indemnified Parties resulting from or in connection with Expand's and/or its designated affiliates' activities with respect to the Drilling Leases, including, without limitation, the drilling of the Wells and Expand's development and operation of the Drilling Leases, that arise on or after the date of this letter agreement but before the date on which Expand acquires any of the

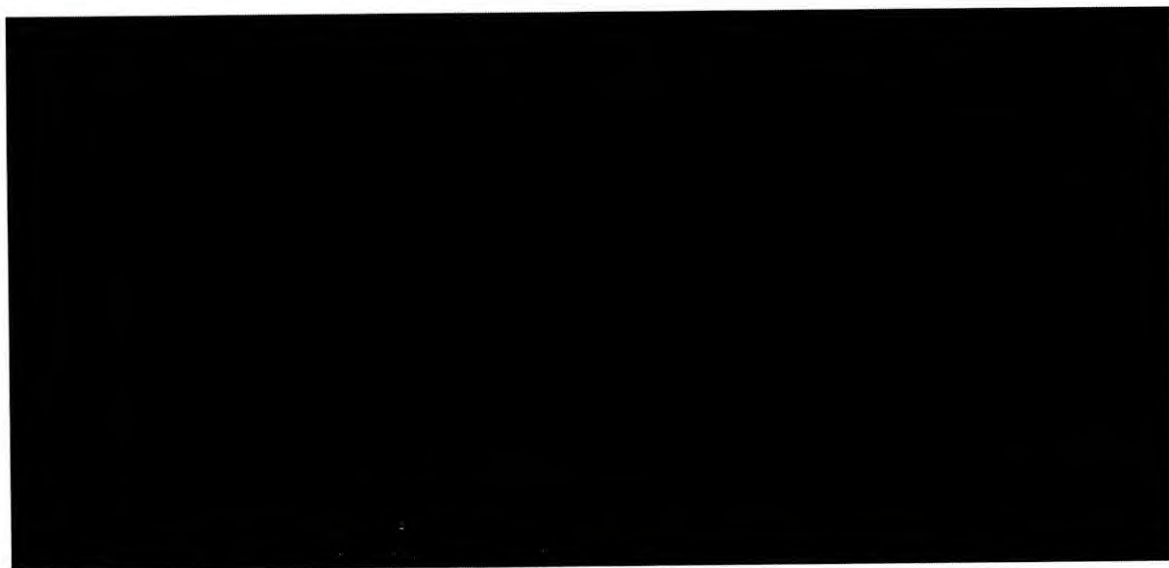
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Drilling Leases. Notwithstanding the foregoing sentence, if the Parties close the transactions contemplated by the Trade Agreement with respect to any Drilling Lease, any Claims arising from or relating to the period of time prior to such closing shall remain subject to this letter agreement, and any Claims arising on or after such closing may be subject to the terms and conditions of the executed Trade Agreement. As used in this letter agreement, "**Claims**" shall mean any and all losses, suits, proceedings, actions, causes of action, in law or at equity, demands, penalties, fines, fees, charges, assessments, liabilities (including environmental liabilities), damages (including environmental and natural resources damages), claims, judgments, executions, costs and expenses of any kind (including, without limitation, attorney's fees, expert's fees, court costs and other out-of-pocket fees and disbursements), fines, taxes, and interest, whether existing or incurred or asserted in the future, in connection with (a) any such claim or the defense thereof, (b) amounts paid in settlement, orders, liens, or decrees, or (c) any injury or damage of any kind and nature to persons (including sickness, illness and death), mines, wells, or property claims or to the Drilling Lease, or natural resources, and with respect to any of the foregoing, whether sustained or brought by or against ARC or any third party. Notwithstanding any of the foregoing, Expand shall have no obligation to indemnify the Indemnified Parties for any Claim to the extent arising out of an Indemnified Party's gross negligence or willful misconduct. The indemnity obligation set forth in this section shall survive (a) any execution of a Trade Agreement or assignment of the Drilling Leases or other mutually agreed transaction pursuant to which Expand acquired any of the Drilling Leases, or (b) any termination of all or any part of this letter agreement; *provided*, that if Expand unitizes all or any portion of the Drilling Leases, then this paragraph shall terminate and be of no further force and effect (with the terms and conditions of the JOA (as defined below) to govern the respective liability of the parties thereunder).



7. If any assignment of the acreage is made, such properties shall be assigned and/or granted, as the case may be, free and clear of (a) all gathering or midstream dedications or commitments, and (b) all other senior mortgages, liens and encumbrances for which pre-closing waivers, releases or subordinations are customarily sought in transactions similar to the Proposed Transaction.

8. If any assignment of the acreage is made, the assigning or leasing Party shall make available to the other Party, electronically on a digital file-sharing service, electronic copies of its lease and payment files pertaining to such acreage (the "**Records**").

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9. The Parties acknowledge and agree that the rights, obligations, and covenants set forth herein are independent of, and not contingent upon, the negotiation, execution, or performance of any acreage trade agreement or similar transaction between the Parties. Nothing in this letter agreement shall require the Parties to execute the Trade Agreement; *provided, however*, that in the event the Parties do not execute the Trade Agreement, the Parties' respective obligations under Sections 4 through 10 hereof shall be fully enforceable.

10. Except as otherwise provided herein, nothing in this letter agreement will diminish any current or future rights of ARC in the Drilling Leases or other properties. This letter agreement and the rights and obligations of ARC and Expand hereunder will terminate (on a Drilling Lease-by-Drilling Lease basis) upon the earliest of (a) if and when Expand and ARC consummate the closing, as applicable, as contemplated the Trade Agreement with respect to such Drilling Lease and (b) December 31, 2026 (the "**Expiration Date**").

[Signature page follows]

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If the above meets your approval, please execute in the space provided below and return one signed copy to my attention. Should you have any questions, please contact Andrew Smith at (346) 443-6432.

Sincerely,

EXPAND APPALACHIA LLC

**BY EXPAND ENERGY CORPORATION,
ITS SOLE MANAGER**



Name: Paul M. Bacho
Title: Sr. Manager - Land

AMS
GN

Acknowledged, accepted and agreed to on FEBRUARY 25TH, 2026.

ANTERO RESOURCES CORPORATION



Name: Jared Hurst
Title: Vice President - Land

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Signature Page to Drill Letter

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Schedule 1

Definitions

"Marcellus Formation" means the stratigraphic equivalent of those depths and formations underlying such leases (or portions of leases) from 500' above the top of the Tully formation, as seen at 6943' MD in the log for the BIG57H1 well located in Wetzel County, West Virginia (API No. 4710302414) down to 200' below the top of the Onondaga formation, as seen in the log of such well at a depth of 7117' MD.

"Net Revenue Interest" means, with respect to the Marcellus Formation of each Drilling Lease, the interest in and to all hydrocarbons produced and sold from the Marcellus Formation of such Drilling Lease, after giving effect to all royalties, overriding royalties, production payments, carried interests, net profits interests, reversionary interests and other similar burdens upon, measured by or payable out of production therefrom.

"Net Working Interest Acreage" means, computed separately with respect to each Drilling Lease and with respect to the Marcellus Formation, (i) the number of gross mineral acres in the lands included in or encumbered by such Drilling Lease, multiplied by (ii) the percent interest of oil, gas and associated hydrocarbons in such Drilling Lease owned by the lessor upon its execution, multiplied by (iii) the assigning Party's Working Interest in the Drilling Lease as to the Marcellus Formation; **provided**, that if the Working Interest varies as to different areas within any tracts or parcels burdened by such Drilling Lease, a separate calculation shall be done for each area.

"NRI Acres" means, as computed separately with respect to each Drilling Lease, the (i) Net Working Interest Acreage, multiplied by (ii) the Party's Net Revenue Interest.

"Working Interest" means with respect to any Drilling Lease, the percentage of costs and expenses associated with the operating rights and the exclusive right to exploit hydrocarbons from the Drilling Lease required to be borne with respect thereto, but, for clarity, without regard to the effect of any royalties, overriding royalties, production payments, carried interests, net profits interests, reversionary interests and other similar burdens upon, measured by or payable out of production therefrom.

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Exhibit A
Drilling Leases

Lessor	Lessee	Lease Date	NRI	Gross Acres	Conveyed Gross Acres	Conveyed Net Acres	Conveyed NRI Acres	State	County	Book / Page	Partial Assignment	Conveyed Interests	Tracts Retained
John T. Lynskey, a single man	Tri Energy Holdings, LLC	11/26/2010		7.61200	4.87800			WV	Marshall	726/562	Yes	12-0003-0010-0000	All lands not described as the tract(s) conveyed
Robert G. McVicker Jr. and Patricia L. McVicker, husband and wife	Noble Energy, Inc.	11/26/2014		87.25800	39.86800			WV	Marshall	850/280	Yes	12-0003-0011-0000	All lands not described as the tract(s) conveyed
C.W. Dague and Ora M. Dague, his wife	The Manufacturers Light & Heat Co.	9/12/1950		14.84000	2.69100			WV	Marshall	272/44	Yes	12-0007-0010-0002	All lands not described as the tract(s) conveyed
Luke L. Merinar and Clara Merinar, his wife; LeMoyn R. Merinar and Helen C. Merinar, his wife	The Manufacturers Light and Heat Company	10/29/1960		5.42000	5.42000			WV	Marshall	342/180	No	12-0007-0014-0000	All lands not described as the tract(s) conveyed
Robert J. Freidhof and Robin L. Freidhof, his wife	Tri Energy Holdings, LLC	9/23/2010		54.99000	37.32700			WV	Marshall	717/394	Yes	12-0007-0016-0000	All lands not described as the tract(s) conveyed
Garry L. Hillberry and Denise L. Hillberry, husband and wife	Noble Energy, Inc.	10/13/2014		56.19000	16.31500			WV	Marshall	851/403	Yes	12-0007-0018-0000	All lands not described as the tract(s) conveyed
Jewell L. Roman	CNX Gas Company LLC	6/22/2011		86.43100	31.42446			WV	Marshall	699/527	Yes	12-0010-0001-0002	All lands not described as the tract(s) conveyed
Benton Hazlett and Olive Hazlett, husband and wife	The Manufacturers Light and Heat Company	2/5/1960		1.11160	1.11160			WV	Marshall	342/19	No	12-0011-0014-0001	All lands not described as the tract(s) conveyed
Luke L. Merinar and Clara Merinar, his wife; LeMoyn R. Merinar and Helen C. Merinar, his wife	The Manufacturers Light and Heat Company	10/29/1960		132.02000	88.00000			WV	Marshall	342/180	Yes	12-0012-0002-0003	All lands not described as the tract(s) conveyed
Ethel Woodruff, widow	The Manufacturers Light and Heat Company	10/14/1960		176.58120	72.88620			WV	Marshall	342/299	Yes	12-0012-0003-0000	All lands not described as the tract(s) conveyed
Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	4/9/1960		62.67000	1.57600			WV	Marshall	342/197	Yes	12-0012-0007-0000	All lands not described as the tract(s) conveyed
Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C.R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	4/9/1960		8.76900	0.24100			WV	Marshall	342/197	Yes	12-0012-0007-0003	All lands not described as the tract(s) conveyed

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Exhibit A
Drilling Leases

Lessor	Lessee	Lease Date	NRI	Gross Acres	Conveyed Gross Acres	Conveyed Net Acres	Conveyed NRI Acres	State	County	Book / Page	Partial Assignment	Conveyed Interests	Tracts Retained
Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C. R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	4/9/1960		20.95000	2.89000			WV	Marshall	342/197	Yes	12-0012-0007-0004	All lands not described as the tract(s) conveyed
Maude Dague, widow, Daniel Dague and Marla Dague, his wife, Olive Whipkey and Andy Whipkey, her husband, C. R. Dague and Jean R. Dague, his wife, Harry C. Dague, single, Isabel D. David and Charles C. Davis, her husband, George Dague and Martha V. Dague, his wife, Mabel Burley and Alfred Burley, her husband	The Manufacturers Light and Heat Company	4/9/1960		42.89900	14.83200			WV	Marshall	342/197	Yes	12-0012-0008-0000	All lands not described as the tract(s) conveyed
Anna Wilson and Luther Wilson, her husband, Harry Toland, single, William R. Toland and Pearl Toland, his wife, Arthur S. Toland and Dorothy Toland, his wife, Elizabeth Riggle and Orville Riggle, her husband, James E. Toland, single, Myrtle Gray and Presley Gray, her husband, Zelma Gray and Harry Gray, her husband, Herbert L. Toland and Dortha Toland, his wife	The Manufacturers Light and Heat Company	9/12/1960		24.11000	24.11000			WV	Marshall	342/173	No	12-0012-0009-0000	All lands not described as the tract(s) conveyed
George N. Jenkins and Isabell Jenkins, his wife	The Manufacturers Light & Heat Co.	9/13/1960		30.55000	0.84000			WV	Marshall	342/169	Yes	12-0012-0010-0000	All lands not described as the tract(s) conveyed

[End of Exhibit A]

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Brittany Woody
Senior Regulatory Analyst

May 8, 2026

Mr. Charles Brewer
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Proposed Expedited Modification: Michael Southworth MSH 1210H

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. We would like to modify this well by extending the lateral. This well is situated on the Southworth's property, in Sand Hill District, Marshall County, West Virginia.

Enclosed you will find:

- 6B
- WBD
- Mylar Plat
- 6A1

If you have any questions or desire additional information, please me at 304-209-5688.

Best regards,

Brittany Woody
Senior Regulatory Analyst
Expand Energy

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Expand Energy Corporation

1300 Fort Pierpont Dr., Suite 201 / Morgantown, WV 26508
304-209-5688 / m: 304-997-2598 / Brittany.Woody@expandenergy.com

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EXHIBIT B

Form of Imbalance Agreement

This Imbalance Agreement (this "Imbalance Agreement"), dated [____], 2026 (the "Execution Date"), is by and between Antero Resources Corporation, a Delaware corporation ("Antero"), and Expand Appalachia LLC, a Oklahoma limited liability company ("Expand"). Each of Antero and Expand is a "Party" and together are the "Parties". For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. Permission Letter. Antero and Expand are parties to the letter agreement, dated [____], 2026 (as amended from time to time, the "Permission Letter"). Capitalized terms used but not defined in this Imbalance Agreement have the meanings given to them in the Permission Letter. This Imbalance Agreement is being delivered pursuant to Antero's election to non-consent to the drilling of a Well governed by a JOA.

2. JOA Imbalance. Pursuant to that certain JOA and at the execution of this Imbalance Agreement, Antero assigned or leased, as applicable, [____] NRI Acres of O&G Interests to Expand, resulting in an acreage imbalance as of the date hereof of [____] NRI Acres owed by Expand to Antero (the "JOA Imbalance").

3. Reconciliation.

(a) The Parties agree that the JOA Imbalance shall be carried forward to be reconciled and satisfied in a future trade or other transaction between the Parties or their respective Affiliates wherein the Parties shall endeavor to mutually agree on oil and gas leases (or portions thereof) or fee mineral interests (or portions thereof) to be assigned or leased, as applicable, between the Parties.

(b) To the extent the JOA Imbalance is not reconciled and satisfied in full within twelve (12) months from the Execution Date, Expand shall deliver to Antero a reconciliation statement (the "Reconciliation Statement") setting forth (x) the JOA Imbalance (also reflective of any adjustments under this Section 3), and (y) setting forth a reasonably detailed calculation of the Final Payment in accordance with this Section 3(b).

(i) If the adjusted JOA Imbalance is owed to Expand, then Antero shall owe to Expand [REDACTED] per NRI Acre of such JOA Imbalance;

(ii) If the adjusted JOA Imbalance is owed to Antero, then Expand shall owe to Antero [REDACTED] per NRI Acre of such JOA Imbalance;

Based upon the amounts set forth in clauses (i) and (ii) above, Expand shall calculate and set forth on the Reconciliation Statement the net amount owed and the Party to whom such amount is owed. Such amount shall be the "Final Payment". The Party obligated to pay such amount is the "Shortfall Party", and the Party entitled to receive such amount is the "Overage Party". Within five (5) Business Days following Antero's receipt of the Reconciliation Statement, the Shortfall Party shall pay the Final Payment to the Overage Party to the account designated in writing by such Overage Party by wire transfer of immediately available funds.

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4. Assignment. This Imbalance Agreement shall be binding upon and shall inure to the benefit of the Parties and their respective permitted successors and assigns. Notwithstanding the preceding sentence, neither of the Parties shall assign this Imbalance Agreement or be released from their rights or obligations hereunder without the other Party's prior written consent, with any assignment or delegation without such consent being void *ab initio*.

5. Entire Agreement. This Imbalance Agreement, together with the Permission Letter and JOA, constitutes the entire understanding of the Parties with respect to the subject matter hereof and thereof, superseding all related negotiations, prior discussions and prior agreements and understandings with respect to the subject matter hereof.

6. Severability. If a court of competent jurisdiction determines that any clause or provision of this Imbalance Agreement is void, illegal, or unenforceable, the other clauses and provisions of this Imbalance Agreement shall remain in full force and effect to the extent permitted by law and if commercially reasonable and consistent with the original intent of the Parties.

7. Advice of Counsel. The Parties acknowledge and represent that they have carefully read and know the contents of this Imbalance Agreement, fully understand its terms, have had the opportunity to consult legal counsel prior to signing this Imbalance Agreement, have been given a reasonable amount of time to enter this Imbalance Agreement, and enter into it voluntarily.

8. Governing Law.

- (a) This Imbalance Agreement shall be governed by, construed, interpreted and applied in accordance with the laws of the State of Texas, excluding any choice of law rules which would refer the matter to the laws of another jurisdiction.
- (b) The Parties agree that the appropriate, exclusive and convenient forum for any disputes between the Parties arising out of this Imbalance Agreement, the agreements and certificates delivered pursuant hereto and the transactions contemplated hereby or thereby shall be in any state or federal court in Houston, Texas and each of the Parties irrevocably submits to the jurisdiction of such courts solely in respect of any proceeding arising out of or related to this Imbalance Agreement. The Parties further agree that the Parties shall not bring suit with respect to any disputes arising out of this Imbalance Agreement, any agreement or certificate delivered pursuant hereto or the transactions contemplated hereby or thereby in any court or jurisdiction other than the above specified courts. The Parties further agree, to the extent permitted by law, that a final and nonappealable judgment against a Party in any action or proceeding contemplated above shall be conclusive and may be enforced in any other jurisdiction within or outside the United States by suit on the judgment, a certified or exemplified copy of which shall be conclusive evidence of the fact and amount of such judgment.
- (c) THE PARTIES HERETO AGREE THAT THEY HEREBY KNOWINGLY, VOLUNTARILY AND INTENTIONALLY IRREVOCABLY WAIVE THE RIGHT TO TRIAL BY JURY IN ANY ACTION BASED HEREON, OR ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS IMBALANCE AGREEMENT, ANY AGREEMENT OR CERTIFICATE DELIVERED PURSUANT HERETO OR THE TRANSACTIONS CONTEMPLATED HEREBY OR THEREBY.

9. Notices.

- (a) Any notice given hereunder shall be deemed to have been duly made and the receiving Party charged with notice (i) if personally delivered, when delivered, (ii) if mailed (which shall be certified mail, return receipt requested), when received or (iii) if sent by overnight courier, one day after sending. All notices shall be addressed as follows:

ANTERO:

Antero Resources Corporation
Attn: Jared Hurst
1615 Wynkoop Street
Denver, Colorado 80202

With copies to:

Antero Resources Corporation
Attn: General Counsel
1615 Wynkoop Street
Denver, Colorado 80202

and

Expand:

[]
Attn: []
[]
[]

With a copy to:

[]
Attn: []
[]
[]

- (b) Each Party may change its address at any time and from time to time by giving written notice to the other Party.

10. Further Assurances. From and after the Execution Date, at the request of a Party, the other Party shall without additional consideration execute and deliver or use reasonable efforts to cause to be executed and delivered such other instruments of conveyance and take such other actions as the requesting Party reasonably may request to otherwise accomplish the transactions contemplated by this Imbalance Agreement.

11. Counterpart Execution. This Imbalance Agreement may be executed in a number of counterparts, each of which shall be considered an original for all purposes, but shall not be binding until fully executed by all Parties. Execution of this Imbalance Agreement by an electronic form of signature (including .PDFs) that is an exact copy of the original signature shall be deemed to be, and shall have the same effect as, execution by original signature.

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[Signature pages follow.]

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IN WITNESS WHEREOF, the duly authorized representatives of the Parties have caused this Imbalance Agreement to be executed as of the Execution Date.

ANTERO RESOURCES CORPORATION

By: _____
Name: Jared Hurst
Title: Vice President - Land

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EXPAND APPALACHIA LLC
BY: EXPAND ENERGY CORPORATION, ITS SOLE MANAGER

By: _____
Name: _____
Title: _____

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Signature Page to Imbalance Agreement

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