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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Friday, December 19, 2025  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC  
6031 WALLACE RD. EXT. SUITE 200

WEXFORD, PA 15090

Re: Permit Modification Approval for Homer 203  
47-091-01379-00-00

Extended Lateral

ARSENAL RESOURCES 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.



H. Jason Harmon  
Acting Chief

Operator's Well Number: Homer 203  
Farm Name: Atlas Shrugging LLC  
U.S. WELL NUMBER: 47-091-01379-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 12/19/2025

Promoting a healthy environment.

12/19/2025

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

1) Well Operator: <u>Arsenal Resources</u>	<u>494519412</u>	<u>Taylor</u>	<u>Flemington</u>	<u>Rosemont</u>
	Operator ID	County	District	Quadrangle
2) Operator's Well Number: <u>Homer 203</u>	Well Pad Name: <u>Fiber II</u>			
3) Farm Name/Surface Owner: <u>Atlas Shrugging LLC</u>	Public Road Access: <u>WV 76</u>			
4) Elevation, current ground: <u>1208'</u>	Elevation, proposed post-construction: <u>1187'</u>			
5) Well Type	(a) Gas <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Underground Storage <input type="checkbox"/>	
	Other <input type="checkbox"/>			
(b) If Gas	Shallow <input checked="" type="checkbox"/>	Deep <input type="checkbox"/>	<input type="checkbox"/>	
	Horizontal <input checked="" type="checkbox"/>			
6) Existing Pad: Yes or No	<u>No</u>			
7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):	<u>Marcellus Shale, 7,633' (TVD Top) - 7,723' (TVD Bottom), 90 ft, 0.5 psi/ft</u>			
8) Proposed Total Vertical Depth: <u>7,708'</u>	<input type="checkbox"/>			
9) Formation at Total Vertical Depth: <u>Marcellus Shale</u>	<input type="checkbox"/>			
10) Proposed Total Measured Depth: <u>25,961'</u>	<input type="checkbox"/>			
11) Proposed Horizontal Leg Length: <u>17,703'</u>	<input type="checkbox"/>			
12) Approximate Fresh Water Strata Depths: <u>60', 85', 200', 630', 810', 892'</u>	<input type="checkbox"/>			
13) Method to Determine Fresh Water Depths: <u>Offsetting well reported water depths (091-00102, 091-00586, 091-00607, 091-00721)</u>	<input type="checkbox"/>			
14) Approximate Saltwater Depths: <u>1065'</u>	<input type="checkbox"/>			
15) Approximate Coal Seam Depths: <u>Harlem-364', Brushcreek-534', Lower Freeport-654', Upper Kittanning-724', Middle Kittanning-774', Clarion-834'</u>	<input type="checkbox"/>			
16) Approximate Depth to Possible Void (coal mine, karst, other): <u>None expected</u>	<input type="checkbox"/>			
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	<input type="checkbox"/>	
(a) If Yes, provide Mine Info: Name: <input type="checkbox"/>	<input type="checkbox"/>			
Depth: <input type="checkbox"/>	<input type="checkbox"/>			
Seam: <input type="checkbox"/>	<input type="checkbox"/>			
Owner: <input type="checkbox"/>	<input type="checkbox"/>			

18)

**CASING AND TUBING PROGRAM**

<u>TYPE</u>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	24	New	H-40	94	80	80	CTS
Fresh Water	13.375	New	J-55	54.5	950	950	CTS
Coal							
Intermediate	9.625	New	J-55	40	1,500	1,500	CTS
Production	5.5	New	P-110	23	25,961	25,961	TOC @ 1,350
Tubing							
Liners							

Gayne Knitowski  
  
 Digitally signed by  
 Gayne Knitowski  
 Date: 2025.12.08  
 10:31:12 -05'00'

<u>TYPE</u>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	24	36			0	Class A/L, 3% CaCl2	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A/L, 3% CaCl2	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A/L, 3% CaCl2	1.29
Production	5.5	8.5-8.75	0.415	14,520	9,500	Class A/L, Poz	1.29/1.34
Tubing							
Liners							

**PACKERS**

Kind:				
Sizes:				
Depths Set:				

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

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and circulate cement back to surface. The conductor rig will move out and the drilling rig will move in and rig up. The drilling rig will then spud a 17 1/2" hole and drill to fresh water casing (Surface) to the programmed depth, Run 13- 3/8" casing and cement to surface. The rig will continue drilling a 12- 1/4" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig will then continue to drill an 8- 3/4" hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 1/2" casing and cement according to the program.

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

The well will be completed using a plug and perforation method and stimulated with a slickwater and sand slurry. The anticipated maximum rate will be 90 bpm and the maximum pressure will be 11,500 psi.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 28.54

22) Area to be disturbed for well pad only, less access road (acres): 10.68

23) Describe centralizer placement for each casing string:

24"- No centralizers 13 3/8" – one bow spring centralizer on every other joint 9 5/8" – one bow spring centralizer every third joint from TD to surface 5 1/2" – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,700'; there will be no centralizers from 1,700' to surface.

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

24" will be circulated to surface. The 13 3/8" casing will be cemented to surface with Class A/L cement and no greater than 3% CaCl2 (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A/L cement, & no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 1,350' (+/- 150' above the casing shoe for the 9 5/8") with Class A/L Poz cement retarded (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right angle" set) during the plastic phase of the cement set-up.

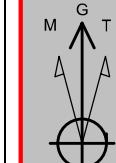
25) Proposed borehole conditioning procedures:

Top holes will be drilled with fresh water KOP. At KOP, the wellbore will be loaded with synthetic oil based mud, barite-weighted mud system with such properties as to build a filter-cake on the face of the bore-hole. This will provide lubricity as well as stabilizing the well bore. We will begin rotating the drill string and mud will be circulated upon reaching TD until no further cuttings are observed coming across the shaker screens. Once clean mud is circulated back to surface, we will pull three stands of drill pipe, load the hole, pull three strands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are noticed, we will re-run the previous stand of pipe pulled across and circulate 2x bottoms up while watching shakers for signs of cuttings. Once at the base curve, the string will be continuously rotated while pumping 2x bottoms up. We will pull three stands and fill the hole until we reach the vertical section of the well.

\*Note: Attach additional sheets as needed.



Project: Taylor Co, WV (NAD83 - WV N)  
 Site: Homer Pad  
 Well: Homer 203  
 Wellbore: OH  
 Design: Plan #5  
 Lat: 39.254933  
 Long: -80.130275  
 GL: 1187.00  
 KB: RKB @ 1214.00usft



Azimuths to Grid North  
 True North: 0.40°  
 Magnetic North: -9.21°  
 Magnetic Field Strength: 51163.1nT  
 Dip Angle: 65.40°  
 Date: 9/3/2025  
 Model: HRGM

WELL DETAILS: Homer 203

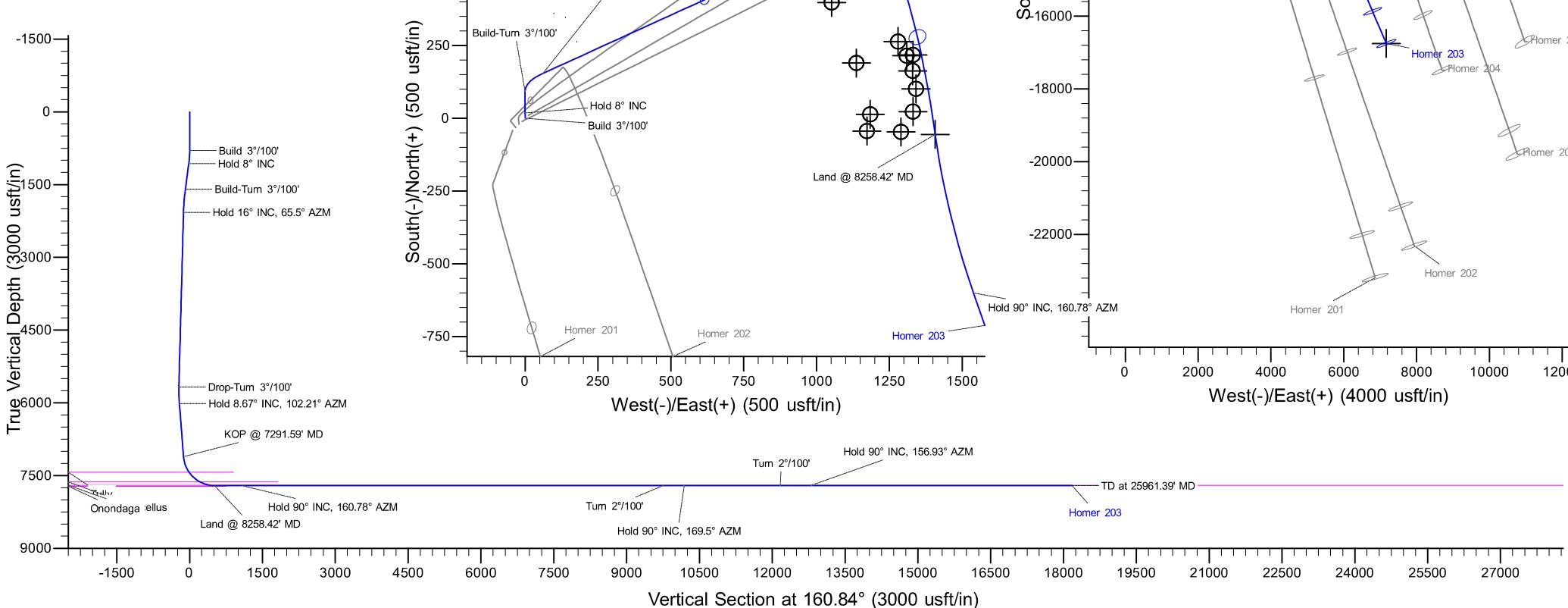
+N/S	+E/W	Northing	Easting	Latitude	Longitude
0.00	0.00	275593.41	1790024.46	39.254933	-80.130275

## SECTION DETAILS

MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Build 3°/100'
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	Hold 8° INC
1066.67	8.00	360.00	1065.80	18.59	0.00	3.00	360.00	-17.56	Build-Turn 3°/100'
1600.00	8.00	360.00	1593.94	92.81	0.00	0.00	0.00	-87.67	Hold 16° INC, 65.5° AZM
2085.86	16.00	65.50	2070.61	154.72	61.26	3.00	94.69	-126.05	Drop-Turn 3°/100'
5835.86	16.00	65.50	5675.34	583.37	1001.84	0.00	0.00	-222.24	Hold 8.67° INC, 102.21° AZM
6182.36	8.67	102.21	6014.08	597.69	1071.01	3.00	150.04	-213.07	KOP @ 7291.59' MD
7291.59	8.67	102.21	7110.62	562.32	1234.44	0.00	0.00	-126.01	Land @ 8258.42' MD
8258.42	90.00	172.00	7708.00	-55.36	1407.58	9.00	70.00	514.27	Hold 90° INC, 160.78° AZM
8819.34	90.00	160.78	7708.00	-599.66	1539.35	2.00	-90.00	1071.67	Turn 2°/100'
17500.00	90.00	160.78	7708.00	-8796.55	4396.78	0.00	0.00	9752.33	Hold 90° INC, 169.5° AZM
17935.93	90.00	169.50	7708.00	-9217.49	4508.46	2.00	90.00	10186.60	Turn 2°/100'
19935.93	90.00	169.50	7708.00	-11184.00	4872.93	0.00	0.00	12163.80	Hold 90° INC, 156.93° AZM
20564.63	90.00	156.93	7708.00	-11784.70	5054.15	2.00	-90.00	12790.70	TD at 25961.39' MD
25961.39	90.00	156.93	7708.00	-16749.72	7169.24	0.00	0.00	18174.88	

## FORMATION TOP DETAILS

TDPath	MDPath	Formation
7433.00	7639.61	Tully
7633.00	7944.66	Marcellus Shale
7702.00	8170.50	Lower Marcellus



Area of Review Report - Fiber II Pad, Homer 203 Lateral, Taylor County, WV

Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
Pearl Fundak 1	091-00586	Diversified Production, LLC	Existing	39.251867	-80.122966	4,785	Benson	Riley
James K Cleavenger Hrs 1	001-00698	WV Mineral Group, LLC	Existing	39.234062	-80.117878	4,558	Benson	NA
Sadie C Lake 1	001-00516	WV Mineral Group, LLC	Existing	39.224067	-80.112566	4,365	Benson	NA
L B Corder 2	001-00574	Diversified Production, LLC	Existing	39.21731	-80.108856	4,382	Benson	Riley

**ARSENAL RESOURCES LLC**  
**FIBER II PAD**  
**HOMER 203**

6,016' B.H. ← 1,494' T.H. ←  
 T.H. LATITUDE 39°17'30"  
 B.H. LATITUDE 39°15'00"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)		
NAD'83 S.P.C.(FT)	N. 275,593.53	E. 1,790,024.57
NAD'83 GEO.	LAT-(N) 39.254933	LONG-(W) 80.130275
NAD'83 UTM (M)	N. 4,345,427.83	E. 575,040.63
<u>LANDING POINT</u>		
NAD'83 S.P.C.(FT)	N. 275,538.5	E. 1,791,431.9
NAD'83 GEO.	LAT-(N) 39.254809	LONG-(W) 80.125303
NAD'83 UTM (M)	N. 4,345,418.2	E. 575,469.7
<u>BOTTOM HOLE</u>		
NAD'83 S.P.C.(FT)	N. 258,845.1	E. 1,797,192.7
NAD'83 GEO.	LAT-(N) 39.209086	LONG-(W) 80.104563
NAD'83 UTM (M)	N. 4,340,361.4	E. 577,309.3

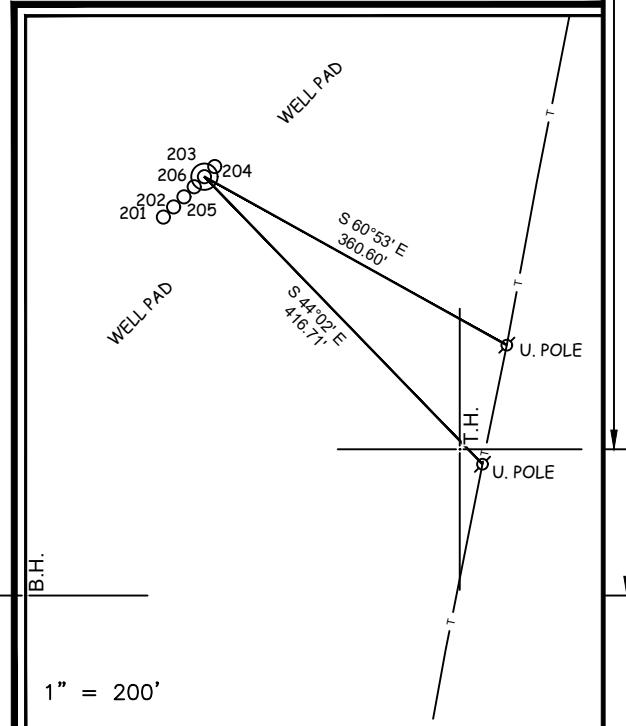
T.H. LONGITUDE 80°07'30"  
 B.H. LONGITUDE 80°05'00"  
 14,903' B.H.

**LEGEND**

LEASE LINE	— - - - -
SURFACE LINE	— - - - -
WELL LATERAL	— - - - -
500' OFFSET LINE	— - - - -
TIE LINE	— - - - -
CREEK	— - - - -
ROAD	— - - - -
COUNTY ROUTE	— - - - -
PROPOSED WELL	○ ○ ○ ○ ○
EXISTING WELL	○ ○ ○ ○ ○
PERMITTED WELL	○ ○ ○ ○ ○
TAX MAP-PARCEL	00-00
SURFACE OWNER (SEE TABLE)	
LEASE # (SEE WW-6A1)	A

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

**REFERENCES**



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  
[sldwv.com](http://sldwv.com)

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 ARE 1"=2000'

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 DATE DECEMBER 3, 20 25  
 REVISED  
 OPERATORS WELL NO. 203  
 API WELL NO. 47 - 091 - 01379  
 STATE COUNTY PERMIT

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*

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9205P203-120325.dwg  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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



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

**LOCATION :**

ELEVATION 1,187.00' WATERSHED SIMPSON CREEK

DISTRICT FLEMINGTON COUNTY TAYLOR QUADRANGLE ROSEMONT

SURFACE OWNER ATLAS SHRUGGING LLC

ACREAGE 897.36±

ROYALTY OWNER CHESTER AND FRANCES SINSEL & A. BROOKS FLEMING ET AL

ACREAGE 571.73± 00.50±

**PROPOSED WORK :**

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  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 7,708' / TMD 25,961'

**WELL OPERATOR** ARSENAL RESOURCES **DESIGNATED AGENT** ERIC MORRIS

**ADDRESS** 6031 WALLACE RD. EXT. SUITE 200 **ADDRESS** 633 WEST MAIN STREET  
 WEXFORD, PA 15090 BRIDGEPORT, WV 26330

COUNTY NAME  
 PERMIT

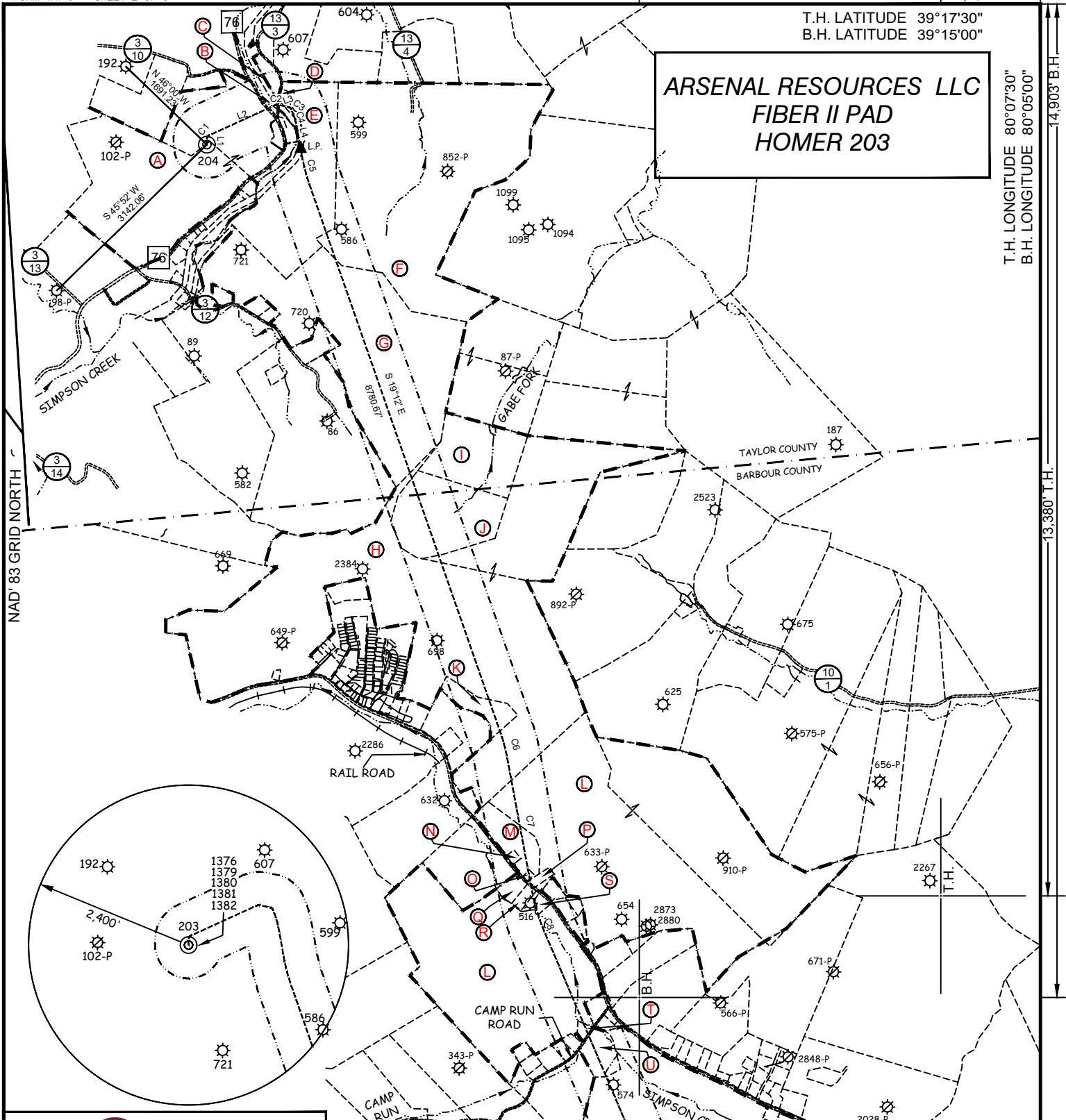
PERMIT

6,016' B.H. 1,494' T.H.

T.H. LATITUDE 39°17'30"  
B.H. LATITUDE 39°15'00"ARSENAL RESOURCES LLC  
FIBER II PAD  
HOMER 203T.H. LONGITUDE 80°07'30"  
B.H. LONGITUDE 80°05'00"

14,903' B.H.

13,380' T.H.



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

P.S.

677 *Gregory A. Smith*

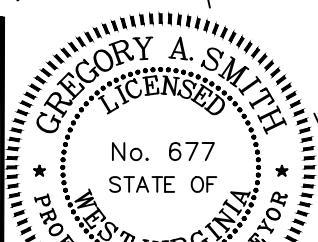
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)  
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NAD'83 GEO. LAT(N) 39.209086 LONG(W) 80.104563  
NAD'83 UTM (M) N. 4,340,361.4 E. 577,309.3

SCALE 1" = 2000' FILE NO. 9205P203-120325.dwg

DATE DECEMBER 3, 20 25

REVISED , 20

OPERATORS WELL NO. 203

API WELL 47 - 091 - 01379  
NO. STATE COUNTY PERMIT

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



12/19/2025

WELL OPERATOR ARSENAL RESOURCES

DESIGNATED AGENT ERIC MORRIS

ADDRESS 6031 WALLACE RD. EXT. SUITE 200  
WEXFORD, PA 15090ADDRESS 633 WEST MAIN STREET  
BRIDGEPORT, WV 26330

PERMIT

COUNTY NAME

**ARSENAL RESOURCES LLC**  
**FIBER II PAD**  
**HOMER 203**



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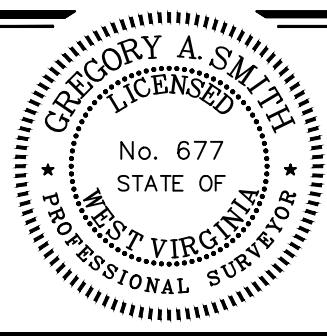
TAG	PARCEL	SURFACE OWNER	ACREAGE
A	4-11-1	ATLAS SHRUGGING LLC	897.36
ROAD	N/A	W.V. RT. 76- WV VETERANS MEM. HIGHWAY	N/A
B	NOT ASSESSED	A. BROOKS FLEMING HEIRS	N/A
CREEK	N/A	SIMPSON CREEK	N/A
C	4-9-54	PDC MOUNTAINEER LLC	13.54
ROAD	N/A	CO. RT. 13/3-SUBSTATION ROAD	N/A
D	4-9-33	DAVID L BROWN	1.8
E	4-9-39	WILLIAM CLARK & CRYSTAL RANEAU BRAKE	57.6
F	4-9-40	EUGENE GREATHOUSE ET AL	170
G	4-10-1	CLINTON & CANDANCE DRAINER IRR TRUST	124.42
H	9-8-1	BECKWITH LUMBER COMPANY INC	444.17
I	5-19-7	EUGENE GREATHOUSE ET AL	29.59
J	5-20-2	EUGENE GREATHOUSE ET AL	35.5
K	9-8-1.4	ARK LAND LLC	8
L	9-13-23	BECKWITH LUMBER COMPANY INC	413.3
M	9-13-22.4	SAMUEL MAYLE	8
N	9-13-22.2	BRIAN & TROYANNA MAYLE	0.56
O	9-13-22.1	SAMUEL MAYLE	0.45
P	9-13-22	DARREN EUGENE WHITEHAIR	0.95
Q	9-13-23.13	DONALD J & DOROTHY JOHNSON	2.2
R	9-13-23.3	BOBBI FUNK	1.3
S	9-13-23.7	RICHARD L & CHRISTINE WILLISON	0.93
ROAD	N/A	CO. RT. 77/1-CAMP RUN ROAD	N/A
T	9-13-13	STEVE & CYNTHIA J LAWSON	1
U	9-13-35.5	MICHAEL G SMITH ET AL	8
V	9-13-35	DEBORAH CORDER	394.64

FILE NO. 9205P203-120325.dwg

DATE DECEMBER 3, 20 25

REVISED , 20

OPERATORS WELL NO. 203

API WELL 47 — 091 — 01379  
NO. STATE COUNTY PERMIT

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



12/19/2025

P.S.  
677

WELL OPERATOR ARSENAL RESOURCES  
ADDRESS 6031 WALLACE RD. EXT. SUITE 200  
WEXFORD, PA 15090

DESIGNATED AGENT ERIC MORRIS  
ADDRESS 633 WEST MAIN STREET  
BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT

**Attachment to WW-6A1, Fiber II HOMER SOUTH 203**

<b>TAG AND PARCEL on Plat</b>	<b>Grantor, Lessor, Assignor, etc.</b>	<b>Grantee, Lessee, Assignee, etc.</b>	<b>Book/Page</b>	<b>Royalty</b>	<b>Acreage</b>
A 47-091-4-11-1 E 47-091-4-9-39 (00005213)	Chester Sinsel and Frances Sinsel, his wife	Union Drilling Inc	35/488	12.5+%	1,080
	Union Drilling Inc	Equitable Resources Exploration Inc	9/427		
	Equitable Resources Exploration Inc	Equitable Resources Energy Company	10/79		
	Equitable Resources Energy Company	Enervest East Limited Partnership	22/181		
	Enervest East Limited Partnership	The Houston Exploration Company	27/99		
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc	27/426		
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC	31/427		
A 47-091-4-11-1 B UNASSESSED PRCL E 47-091-4-9-39 (00006028)	A Brooks Fleming and Winnie Fleming his wife and Georgia L Fleming Widow	Union Drilling Inc.	33/79	12.5+%	890
	Union Drilling Inc	Equitable Resources Exploration Inc	216/411		
	Equitable Resources Exploration Inc	Equitable Resources Energy Company	10/79		
	Equitable Resources Energy Company	Enervest East Limited Partnership	250/359		
	Enervest East Limited Partnership	Enervest Management Partners LTD	24/221		
	Enervest Management Partners LTD	The Houston Exploration Company	27/93		
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc	27/246		
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC	31/427		
ROAD	WV RT 76	WV VETERANS MEMORIAL HWY			
CREEK	SIMPSON CREEK				
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	ANNA KAY SMITH	Petroleum Development Corp	42/584	12.5+%	356
	Petroleum Development Corp	PDC Mountaineer LLC	30/698		
	PDC Mountaineer LLC	River Ridge Energy, LLC	59/1263		

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<b>TAG AND PARCEL on Plat</b>	<b>Grantor, Lessor, Assignor, etc.</b>	<b>Grantee, Lessee, Assignee, etc.</b>	<b>Book/Page</b>	<b>Royalty</b>	<b>Acreage</b>
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	AUGUSTIS B SMITH MARY A SMITH	Petroleum Development Corp	41/531	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	DENVER D SMITH AND BERTIE SMITH	Petroleum Development Corp	41/513	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	RICHARD G SMITH	Petroleum Development Corp	42/1	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	MURREL WILSON AND O B WILSON	Petroleum Development Corp	41/568	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		

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C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	CAROLYN KAY STUART & GAIL B STUART	Petroleum Development Corp	41/593	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	KIMBERLY ANN CORLEY VOLLMAN ET VIR	Petroleum Development Corp	42/235	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	ELIZABETH STOUT	Petroleum Development Corp	41/521	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	VIRGINIA SMITH	Petroleum Development Corp	41/552	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		

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C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	VIRGINIA JOY STEMPLE ET VIR  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/564  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	DONALD D SMITH  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/556  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	ERNEST T SMITH AND ADA SMITH  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/517  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	KENNETH SMITH AND BEATRICE SMITH  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/572  30/698 59/1263	12.5+%	356

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C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	MICHAEL SMITH & REBECCA SMITH  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	42/98  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	FRANCELL EICH AND ROBERT EICH  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/501  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	ELEANOR GREATHOUSE & ONA SMITH L/E  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/657  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	PEARL FUNDYK AND FRANK FUNDYK  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/497  30/698 59/1263	12.5+%	356

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C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	EVELYN MARTIN AND JAMES E MARTIN	Petroleum Development Corp	41/649	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	BETTY LOU SHOCKEY	Petroleum Development Corp	41/601	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	HAZEL POSTLETHWAIT	Petroleum Development Corp	41/560	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	KATHLEEN ROACH	Petroleum Development Corp	41/613	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		

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C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	CONNIE SUE SCOTT AND ROY A SCOTT  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/609  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	CARRIE JEANETTE SMITH  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/509  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	ALVA O PHILLIPS  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/505  30/698 59/1263	12.5+%	356
C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	CHERYL LYNN CORLEY HALL ET VIR  Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp  PDC Mountaineer LLC River Ridge Energy, LLC	41/661  30/698 59/1263	12.5+%	356

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C 47-091-4-9-54 F 47-091-4-9-40 I 47-001-5-19-7 J 47-091-5-20-2 K 47-091-9-8-1.4 (00004128)	SARAH SHIELDS	Petroleum Development Corp	41/641	12.5+%	356
	Petroleum Development Corp PDC Mountaineer LLC	PDC Mountaineer LLC River Ridge Energy, LLC	30/698 59/1263		
ROAD	COUNTY RT 13/3	SUBSTATION ROAD			
D 47-091-4-9-33 (00009638)	DAVID L BROWN	MAR KEY LLC	see attached lease copy	12.5+%	1.8
G 47-091-4-10-1 (00004271)	JAMES B ROSS AND ALMA E ROSS  Union Drilling Inc Equitable Resources Exploration Inc Equitable Resources Energy Company Petroleum Development Corp PDC Mountaineer LLC	UNION DRILLING INC  Equitable Resources Exploration Inc Equitable Resources Energy Company Petroleum Development Corp PDC Mountaineer LLC River Ridge Energy, LLC	40/504 9/427 10/79 12/137 30/698 59/1263	12.5+%	134
G 47-091-4-10-1 (00004272)	ANN ROSS DUNN AND JOHN R DUNN  Union Drilling Inc Equitable Resources Exploration Inc Equitable Resources Energy Company Petroleum Development Corp PDC Mountaineer LLC	UNION DRILLING INC  Equitable Resources Exploration Inc Equitable Resources Energy Company Petroleum Development Corp PDC Mountaineer LLC River Ridge Energy, LLC	40/489 9/427 10/79 12/137 30/698 59/1263	12.5+%	134
H 47-001-9-8-1 K 47-001-09-8-1.4 (00005717)	JAMES R TAYLOR ET AL  Union Drilling/PECO/UDI Union Drilling Inc Consolidated Gas Supply Consolidated Gas Transmission CNG Development Co Equitable Resources Energy Equitable Resources Energy	UNION DRILLING INC  Union Drilling Inc Consolidated Gas Supply Consolidated Gas Transmission CNG Development Co Equitable Resources Energy Fuel Resources Production Enervest East Limited Partnership	71/397 14/316 99/481 103/71 113/28 110/81 129/524	12.5+%	208

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	Fuel Resources Production Enervest East Limited Partnership The Houston Exploration Company Seneca-Upshur Petroleum Inc	The Houston Exploration Company The Houston Exploration Company Seneca-Upshur Petroleum Inc Seneca-Upshure Petroleum LLC	383/187 138/1 404/381 447/129		
H 47-001-9-8-1 K 47-001-09-8-1.4 (00005718)	FRED CLEAVENGER ET AL	UNION DRILLING INC	73/408	12.5+%	208
	Union Drilling/PECO/UDI Equitable Resources Exploration Inc Equitable Resources Energy Equitable Resources Energy Fuel Resources Production Enervest East Limited Partnership The Houston Exploration Company Seneca-Upshur Petroleum Inc	Equitable Resources Exploration Inc Equitable Resources Energy Enervest East Limited Partnership Fuel Resources Production The Houston Exploration Company The Houston Exploration Company Seneca-Upshur Petroleum Inc Seneca-Upshure Petroleum LLC	14/312 328/171 129/524 116/81 139/48 138/1 404/381 447/129		
H 47-001-9-8-1 K 47-001-09-8-1.4 (00005719)	LUCILLE CLEAVENGER ET AL	UNION DRILLING INC	73/412	12.5+%	208
	Union Drilling/PECO/UDI Equitable Resources Exploration Inc Equitable Resources Energy Equitable Resources Energy Fuel Resources Production Enervest East Limited Partnership The Houston Exploration Company Seneca-Upshur Petroleum Inc	Equitable Resources Exploration Inc Equitable Resources Energy Enervest East Limited Partnership Fuel Resources Production The Houston Exploration Company The Houston Exploration Company Seneca-Upshur Petroleum Inc Seneca-Upshure Petroleum LLC	14/312 328/171 129/524 116/81 139/48 138/1 404/381 447/129		
H 47-001-9-8-1 K 47-001-09-8-1.4 (00005720)	RUSSELL T TAYLOR	UNION DRILLING INC	73/316	12.5+%	208
	Union Drilling/PECO/UDI Equitable Resources Exploration Inc Equitable Resources Energy Equitable Resources Energy Fuel Resources Production <u>Enervest East Limited Partnership</u>	Equitable Resources Exploration Inc Equitable Resources Energy Enervest East Limited Partnership Fuel Resources Production The Houston Exploration Company <u>The Houston Exploration Company</u>	14/312 328/171 129/524 116/81 139/48 138/1		

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	The Houston Exploration Company Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum Inc Seneca-Upshure Petroleum LLC	404/381 447/129		
H 47-001-9-8-1 K 47-001-09-8-1.4 (00005920)	ADA M CLEAVENGER ET VIR	CUMBERLAND AND ALLEGHENY GAS COMPANY	45/443	12.5+%	250
	Cumberland and Allegheny Gas Company	Union Drilling Inc	46/347		
	Union Drilling Inc	Petroleum Development Corp	112/263		
	Union Drilling Inc	Equitable Resources Exploration	325/219		
	Equitable Resources Exploration	Petroleum Development Corp	114/303		
	Equitable Resources Exploration	Equitable Resources Energy	328/171		
	Equitable Resources Energy	Fuel Resources Production & Dev	118/81		
	Fuel Resources Production & Dev	The Houston Exploration Co	383/187		
	The Houston Exploration Co	Seneca-Upshur Petroleum Inc	404/381		
	Petroleum Development Corp	PDC Mountaineer LLC	150/444		
	PDC Mountaineer LLC	River Ridge Energy, LLC	59/1263		
H 47-001-9-8-1 K 47-001-09-8-1.4 00007805	RICHARD D SMITH	MAR KEY LLC	177/561	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00007811	HARRIET S BUTCHER ET VIR	MAR KEY LLC	177/579	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00007812	TERRY L SMITH	MAR KEY LLC	177/585	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00007819	RANDAL S SMITH AND GLORIA S SMITH	MAR KEY LLC	177/583	12.5+%	46
<u>H 47-001-9-8-1</u> <u>K 47-001-09-8-1.4</u> <u>00007834</u>	<u>MAXINE SHAW BOYLEN</u>	<u>MAR KEY LLC</u>	<u>177/593</u>	<u>12.5+%</u>	<u>46</u>

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H 47-001-9-8-1 K 47-001-09-8-1.4 00007858	DARLENE LOU SHAW SCHOONOVER ET VIR	MAR KEY LLC	178/103	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00007860	CHYLENE SHAW	MAR KEY LLC	178/105	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00007861	ARLENE JO SHAW THOMPSON ET VIR	MAR KEY LLC	178/107	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008123	MURRELL J BRYAN	MAR KEY LLC	179/340	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008124	PATRICIA G PHILLIPS	MAR KEY LLC	179/342	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008125	GARY L PRICE AND BRENDA J PRICE	MAR KEY LLC	179/344	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008126	JOSEPH PRICE	MAR KEY LLC	179/346	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008127	KIMBERLY D MARSH ET VIR	MAR KEY LLC	179/348	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008129	ALICE M POLING	MAR KEY LLC	179/350	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008133	MICHAEL R SWIGER & EDNA D SWIGER	MAR KEY LLC	179/352	12.5+%	46
<u>H 47-001-9-8-1</u> <u>K 47-001-09-8-1.4</u> <u>00008135</u>	<u>BETH A WALLS</u>	<u>MAR KEY LLC</u>	<u>179/354</u>	<u>12.5+%</u>	<u>46</u>

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H 47-001-9-8-1					
K 47-001-09-8-1.4	KAREN J BROWN ET VIR	MAR KEY LLC	179/356	12.5+%	46
00008136					
H 47-001-9-8-1					
K 47-001-09-8-1.4	ALAN HAMILTON	MAR KEY LLC	179/364	12.5+%	46
00008140					
H 47-001-9-8-1					
K 47-001-09-8-1.4	MYRA C HANSFORD	MAR KEY LLC	179/465	12.5+%	46
00008162					
H 47-001-9-8-1					
K 47-001-09-8-1.4	BRUCE A SHERBS & REINETTE L SHERBS	MAR KEY LLC	179/471	12.5+%	46
00008177					
H 47-001-9-8-1					
K 47-001-09-8-1.4	BARBARA KAY WILT	MAR KEY LLC	179/473	12.5+%	46
00008181					
H 47-001-9-8-1					
K 47-001-09-8-1.4	ANGELA GAIL YOAKUM & GARY W YOAKUM	MAR KEY LLC	179/475	12.5+%	46
00008182					
H 47-001-9-8-1					
K 47-001-09-8-1.4	ROBERT B YOST II & CHRISTINE M YOST	MAR KEY LLC	179/477	12.5+%	46
00008185					
H 47-001-9-8-1					
K 47-001-09-8-1.4	JOHNATHAN ALLEN SHAW ET UX	MAR KEY LLC	179/479	12.5+%	46
00008198					
H 47-001-9-8-1					
K 47-001-09-8-1.4	WILLIAM THOMAS WILSON ET UX	MAR KEY LLC	179/481	12.5+%	46
00008200					
H 47-001-9-8-1					
K 47-001-09-8-1.4	REBECCA J BRYAN POA DEBA CORBIN	MAR KEY LLC	179/517	12.5+%	46
00008205					
<u>H 47-001-9-8-1</u>					
<u>K 47-001-09-8-1.4</u>	<u>HAZEL MARY SHERBS POA DEBRA CORBIN</u>	<u>MAR KEY LLC</u>	<u>179/519</u>	<u>12.5+%</u>	<u>46</u>
<u>00008208</u>					

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H 47-001-9-8-1 K 47-001-09-8-1.4 00008209	MELINDA L SHERBS ET VIR	MAR KEY LLC	179/521	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008214	MARK A YOST SR & ANDREA YOST	MAR KEY LLC	179/527	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008221	ROBERT W BRYAN & KIMBERLY J BRYAN	MAR KEY LLC	179/533	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008227	ROBERT LEE SHERBS JR	MAR KEY LLC	179/535	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008228	VIRGINIA LEE BUTCHER ET VIR	MAR KEY LLC	179/537	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008250	MELINDA ANN BALL	MAR KEY LLC	179/552	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008253	MARIE G PEPPER	MAR KEY LLC	179/542	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008256	THE UNITED METHODIST FDN OF WV INC	MAR KEY LLC	179/556	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008326	RACHEL ANN HATFIELD	MAR KEY LLC	180/585	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008328	ROBERT B SHERBS & SUSAN NOTINI	MAR KEY LLC	180/587	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008336	ANDREW CLINTON SPENCER ET UX	MAR KEY LLC	180/591	12.5+%	46

**Attachment to WW-6A1, Fiber II HOMER SOUTH 203**

<b>TAG AND PARCEL on Plat</b>	<b>Grantor, Lessor, Assignor, etc.</b>	<b>Grantee, Lessee, Assignee, etc.</b>	<b>Book/Page</b>	<b>Royalty</b>	<b>Acreage</b>
H 47-001-9-8-1 K 47-001-09-8-1.4 00008354	EUGENE WILSON SPENCER ET UX	MAR KEY LLC	180/593	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008371	JOSEPHINE ANN BEVERLIN	MAR KEY LLC	180/639	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008401	LULU L DAVIS & GAYLE A DAVIS	MAR KEY LLC	181/25	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008419	RUTH ELAINE LACHAPELLE ET VIR	MAR KEY LLC	181/163	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008420	TERESA E SCHOECK ET VIR	MAR KEY LLC	181/157	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008423	MICHEL G ANTILL & MAUREEN A ANTILL	MAR KEY LLC	181/161	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008424	GLORIA ANN HERSHBERGER	MAR KEY LLC	181/165	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008435	R KELVIN ANTILL & CAROL ANTILL	MAR KEY LLC	181/192	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008436	CHARLES E BATES	MAR KEY LLC	181/194	12.5+%	46
H 47-001-9-8-1 K 47-001-09-8-1.4 00008438	DAVID E ANTILL	MAR KEY LLC	181/196	12.5+%	46
<u>H 47-001-9-8-1</u> <u>K 47-001-09-8-1.4</u> <u>00008466</u>	<u>ERLINE LINDBERG &amp; PAUL K LINDBERG</u>	<u>MAR KEY LLC</u>	<u>181/200</u>	<u>12.5+%</u>	<u>46</u>

**Attachment to WW-6A1, Fiber II HOMER SOUTH 203**

<b>TAG AND PARCEL on Plat</b>	<b>Grantor, Lessor, Assignor, etc.</b>	<b>Grantee, Lessee, Assignee, etc.</b>	<b>Book/Page</b>	<b>Royalty</b>	<b>Acreage</b>
H 47-001-9-8-1 K 47-001-09-8-1.4 00008490 H 47-001-9-8-1 K 47-001-09-8-1.4 00008491 H 47-001-9-8-1 K 47-001-09-8-1.4 00008498 H 47-001-9-8-1 K 47-001-09-8-1.4 00008529 H 47-001-9-8-1 K 47-001-09-8-1.4 00008592 H 47-001-9-8-1 K 47-001-09-8-1.4 00008648 H 47-001-9-8-1 K 47-001-09-8-1.4 00008883	ELTON EUGENE BRYAN ET UX DAVID ALLEN CLEMENS ET UX JAMES R PRICE AND CARA T PRICE DAVID M YOST & KATHY JO D YOST MICHAEL L HUTCHINS ET UX LOUISE V JACKSON BIGGS CHRISTOPHER PAUL PEPPER	MAR KEY LLC MAR KEY LLC MAR KEY LLC MAR KEY LLC MAR KEY LLC MAR KEY LLC MAR KEY LLC	181/236 181/238 181/392 181/463 181/639 182/18 182/414	12.5+%	46 46 46 46 46 46 46
L 47-001-09-13-23 N 47-001-09-13-22.2 O 47-001-09-13-22.1 Q 47-001-09-13-23.13 R 47-001-09-13-23.3 S 47-001-09-13-23.7 T 47-001-09-13-13 (00005917)	SADIE C LAKE	CUMBERLAND AND ALLEGHENY GAS COMPANY	45/423	12.5+%	472
Cumberland and Allegheny Gas Company		Union Drilling Inc. & Allerton Miller	46/347		
Allerton Miller		Union Drilling Inc.	98/11		
Union Drilling Inc.		Equitable Resources Exploration	325/219		
<u>Equitable Resources Exploration</u>		<u>Equitable Resources Energy Co</u>	<u>328/171</u>		

**Attachment to WW-6A1, Fiber II HOMER SOUTH 203**

<b>TAG AND PARCEL on Plat</b>	<b>Grantor, Lessor, Assignor, etc.</b>	<b>Grantee, Lessee, Assignee, etc.</b>	<b>Book/Page</b>	<b>Royalty</b>	<b>Acreage</b>
	Equitable Resources Energy Co	Fuel Resources Production & Development	116/81		
	Equitable Resources Energy Co	Enervest East Limited Partnership	129/524		
	Fuel Resources Production & Development	The Houston Exploration Company	136/162		
	Enervest East Limited Partnership	The Houston Exploration Company	138/1		
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc	139/48		
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC	447/129		
M 47-001-09-13-22.4					
O 47-001-09-13-22.1 (00009669)	SAMUEL MAYLE	MAR KEY LLC	see attached lease copy	12.5+%	8.47
P 47-001-09-13-22 (00009667)	DARREN WHITEHAIR	MAR KEY LLC	see attached lease copy	12.5+%	1
Q 47-001-09-13-23.13 00009662	DANA A SMITH & MATTHEW A SMITH	MAR KEY LLC	see attached lease copy	12.5+%	1.587
ROAD	COUNTY RT 77/1	CAMP RUN ROAD			
U 47-001-09-13-35.5					
V 47-001-09-13-35 (00005730)	LACO B CORDER AND ROXIE E CORDER	CUMBERLAND AND ALLEGHENY GAS COMPANY	45/447	12.5+%	421
	Cumberland and Allegheny Gas Company	Union Drilling Inc. & Allerton Miller	46/347		
	Allerton Miller	Union Drilling Inc.	98/11		
	Union Drilling Inc.	Equitable Resources Exploration	325/219		
	Equitable Resources Exploration	Equitable Resources Energy Co	328/171		
	Equitable Resources Energy Co	Fuel Resources Production & Development	116/81		
	Equitable Resources Energy Co	Enervest East Limited Partnership	129/524		
	Fuel Resources Production & Development	The Houston Exploration Company	136/162		
	Enervest East Limited Partnership	The Houston Exploration Company	138/1		
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc	139/48		
	Seneca-Upshur Petroleum Inc	Seneca-Upshur Petroleum LLC	447/129		

## MEMORANDUM OF OIL AND GAS LEASE

**State of West Virginia**

**County Harrison**

**Lessor:** David L. Brown

**Lessor's Address:** 66 Substation Rd. Flemington, WV 26347

**Lessee:** Mar Key, LLC.

**Lessee's Address:** 6031 Wallace Road Extension, Suite 200  
Wexford, PA 15090

**Date Executed:** October 7, 2025

**Effective Date:** October 7, 2025

As of the Effective Date stated above, Lessors, named above, executed and delivered to Lessee, name above, an Oil and Gas Lease, Easement and Right-of-Way (the "Agreement") in which Lessors granted, leased, and let to Lessee lands (the "Lands") located in the County and State named, described as follows:

All that certain tract of land in Flemington District, Taylor County, West Virginia, described in Deed Book(s) 398, at Page(s) 499, dated August 5, 2024 and recorded in the Recorder's Office of said County, containing 1.8000 acres, more or less. Said Leased Premises, including but not limited to tract(s) being identified for tax purposes as parcel number(s) 47-091-4-9-33, as of the date of this Agreement. Notwithstanding said tax map designation, the Agreement shall be effective as to the tract(s) described in Deed Book 398, at Page 499 and actually owned by Lessor whether or not the tax map designation correctly identifies the location of the tract. It being the purpose and intent of Lessor to lease and Lessor does hereby lease all interests in the land above described now owned or hereafter acquired by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the lands above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

The Agreement is for a primary term of Two (2) years from the Effective Date stated above, which terms may be extended for additional terms of 1 year up to a total of Two (2) years after the expiration of the primary term, pursuant to paragraphs 3 & 4 of the lease and as long thereafter as oil, gas or other minerals are produced from the lands described above, or lands pooled therewith, according to and by the terms and provisions of the Agreement between Lessor and Lessee. The Agreement, with all of its terms, covenants and other provisions, is referred to and incorporated into this Memorandum for all purposes.

This Memorandum of Oil and Gas Lease, Easement and Right-of-Way is executed by Lessor and Lessee and placed of record in the County in which the Lands are located for the purpose of placing all persons on notice of the existence of the Agreement which Agreement is not, at the request of both parties, being placed of record.

WITNESS:

**LESSORS:**



By: David L. Brown

By:

**LESSEE:**  
Mar Key, LLC

By: Jon Sheldon  
Its: SVP & COO

12/19/2025

## MEMORANDUM OF OIL AND GAS LEASE

**State of West Virginia**

**County Barbour**

**Lessor:** Samuel Mayle

**Lessor's Address:** 4312 Galloway Rd. Flemington, WV 26347...

**Lessee:** Mar Key, LLC.

**Lessee's Address:** 6031 Wallace Road Extension, Suite 200  
Wexford, PA 15090

**Date Executed:** 11-10-2025

**Effective Date:** 11-10-2025

As of the Effective Date stated above, Lessors, named above, executed and delivered to Lessee, name above, an Oil and Gas Lease, Easement and Right-of-Way (the "Agreement") in which Lessors granted, leased, and let to Lessee lands (the "Lands") located in the County and State named, described as follows:

All that certain tract of land in Pleasant District, Barbour County, West Virginia, described in Deed Book(s) 133, 433, at Page(s) 447, 537, dated 6/17/1944, 10/4/2010 and recorded in the Recorder's Office of said County, containing 8.4700000000000006 acres, more or less. Said Leased Premises, including but not limited to tract(s) being identified for tax purposes as parcel number(s) 47-01-9-13-22.1, 22.4, as of the date of this Agreement. Notwithstanding said tax map designation, the Agreement shall be effective as to the tract(s) described in Deed Book 133, 433, at Page 447, 537 and actually owned by Lessor whether or not the tax map designation correctly identifies the location of the tract. It being the purpose and intent of Lessor to lease and Lessor does hereby lease all interests in the land above described now owned or hereafter acquired by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the lands above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

The Agreement is for a primary term of Two (2) years from the Effective Date stated above and as long thereafter as oil, gas or other minerals are produced from the lands described above, or lands pooled therewith, according to and by the terms and provisions of the Agreement between Lessor and Lessee. The Agreement, with all of its terms, covenants and other provisions, is referred to and incorporated into this Memorandum for all purposes.

This Memorandum of Oil and Gas Lease, Easement and Right-of-Way is executed by Lessor and Lessee and placed of record in the County in which the Lands are located for the purpose of placing all persons on notice of the existence of the Agreement which Agreement is not, at the request of both parties, being placed of record.

**WITNESS:**

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**LESSORS:**

Samuel Mayle

By: Samuel Mayle

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By:

**LESSEE:**

Mar Key, LLC



By: Jon Sheldon  
Its: SVP & COO

12/19/2025

9669

## MEMORANDUM OF OIL AND GAS LEASE

**State of West Virginia**

**County Barbour**

**Lessor:**

**Lessor's Address:**

Darren Eugene Whitehair

4290 Galloway Rd. Flemington, WV 26347, ..

**Lessee:**

**Lessee's Address:**

Mar Key, LLC.

6031 Wallace Road Extension, Suite 200  
Wexford, PA 15090

**Date Executed:**

November 14, 2025

**Effective Date:**

November 14, 2025

As of the Effective Date stated above, Lessors, named above, executed and delivered to Lessee, name above, an Oil and Gas Lease, Easement and Right-of-Way (the "Agreement") in which Lessors granted, leased, and let to Lessee lands (the "Lands") located in the County and State named, described as follows:

All that certain tract of land in Pleasant District, Barbour County, West Virginia, described in Deed Book(s) DB 534, at Page(s) 214, dated 6/28/2021 and recorded in the Recorder's Office of said County, containing 1 acres, more or less. Said Leased Premises, including but not limited to tract(s) being identified for tax purposes as parcel number(s) 47-01-9-13-22, as of the date of this Agreement. Notwithstanding said tax map designation, the Agreement shall be effective as to the tract(s) described in Deed Book DB 534, at Page 214 and actually owned by Lessor whether or not the tax map designation correctly identifies the location of the tract. It being the purpose and intent of Lessor to lease and Lessor does hereby lease all interests in the land above described now owned or hereafter acquired by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the lands above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

The Agreement is for a primary term of Five (5) years from the Effective Date stated above, which terms may be extended for additional terms of 1 year up to a total of Five (5) years after the expiration of the primary term, pursuant to paragraphs 3 & 4 of the lease and as long thereafter as oil, gas or other minerals are produced from the lands described above, or lands pooled therewith, according to and by the terms and provisions of the Agreement between Lessor and Lessee. The Agreement, with all of its terms, covenants and other provisions, is referred to and incorporated into this Memorandum for all purposes.

This Memorandum of Oil and Gas Lease, Easement and Right-of-Way is executed by Lessor and Lessee and placed of record in the County in which the Lands are located for the purpose of placing all persons on notice of the existence of the Agreement which Agreement is not, at the request of both parties, being placed of record.

**WITNESS:**

**LESSORS:**

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Darren Eugene Whitehair  
By: Darren Eugene Whitehair

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By:

**LESSEE:**  
Mar Key, LLC



By: Jon Sheldon  
Its: SVP & COO

12/19/2025

9667

## MEMORANDUM OF OIL AND GAS LEASE

State of West Virginia

County Barbour

**Lessor:** Dana A. Smith and Matthew A. Smith  
**Lessor's Address:** 371 Summit Dr. Ridgely, WV 26753

**Lessee:** Mar Key, LLC.  
**Lessee's Address:** 6031 Wallace Road Extension, Suite 200  
Wexford, PA 15090

**Date Executed:** 11-8-2025  
**Effective Date:** 11-8-2025

As of the Effective Date stated above, Lessors, named above, executed and delivered to Lessee, name above, an Oil and Gas Lease, Easement and Right-of-Way (the "Agreement") in which Lessors granted, leased, and let to Lessee lands (the "Lands") located in the County and State named, described as follows:

All that certain tract of land in Pleasant District, Barbour County, West Virginia, described in Deed Book(s) DB 451, at Page(s) 460, dated 3/6/2012 and recorded in the Recorder's Office of said County, containing 1.587 acres, more or less. Said Leased Premises, including but not limited to tract(s) being identified for tax purposes as parcel number(s) 47-01-9-13-21, as of the date of this Agreement. Notwithstanding said tax map designation, the Agreement shall be effective as to the tract(s) described in Deed Book DB 451, at Page 460 and actually owned by Lessor whether or not the tax map designation correctly identifies the location of the tract. It being the purpose and intent of Lessor to lease and Lessor does hereby lease all interests in the land above described now owned or hereafter acquired by Lessor. This Lease also covers and includes, in addition to that above described, all land, if any, contiguous or adjacent to or adjoining the lands above described and (a) owned or claimed by Lessor, by limitation, prescription, possession, reversion or unrecorded instrument or (b) as to which Lessor has a preference right of acquisition. Lessor agrees to execute any supplemental instrument requested by Lessee for a more complete or accurate description of said land.

*(1/2) DAS depth restricted from 200 ft above  
the marcellus to 200 ft below marcellus*

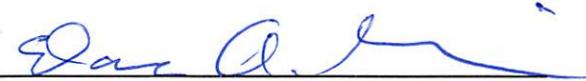
The Agreement is for a primary term of Five (5) years from the Effective Date stated above, which terms may be extended for additional terms of 1 year up to a total of Five (5) years after the expiration of the primary term, pursuant to paragraphs 3 & 4 of the lease and as long thereafter as oil, gas or other minerals are produced from the lands described above, or lands pooled therewith, according to and by the terms and provisions of the Agreement between Lessor and Lessee. The Agreement, with all of its terms, covenants and other provisions, is referred to and incorporated into this Memorandum for all purposes.

This Memorandum of Oil and Gas Lease, Easement and Right-of-Way is executed by Lessor and Lessee and placed of record in the County in which the Lands are located for the purpose of placing all persons on notice of the existence of the Agreement which Agreement is not, at the request of both parties, being placed of record.

WITNESS:

Shawna Lesta  
Shawna Lesta

LESSORS:

  
By: Dana A. Smith

  
By: Matthew A. Smith

LESSEE:  
Mar Key, LLC

  
By: Jon Sheldon  
Its: SVP & COO

12/19/2025

9662