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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)

Monday, December 15, 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 204  
47-091-01380-00-00

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 204  
Farm Name: Atlas Shrugging LLC  
U.S. WELL NUMBER: 47-091-01380-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 12/15/2025

Promoting a healthy environment.

12/19/2025

WW-6B  
(04/15)

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API NO. 47-091 - 01380

OPERATOR WELL NO. Homer 204

Well Pad Name: Fiber II

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Environmental Protection

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: Homer 204 Well Pad Name: Fiber II

3) Farm Name/Surface Owner: Atlas Shrugging LLC Public Road Access: WV 76

4) Elevation, current ground: 1208' Elevation, proposed post-construction: 1187'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_

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Other \_\_\_\_\_

(b) If Gas Shallow  Deep \_\_\_\_\_

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Horizontal

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6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale, 7,633' (TVD Top) - 7,723' (TVD Bottom), 90 ft, 0.5 psi/ft

8) Proposed Total Vertical Depth: 7,708'

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 27,400'

11) Proposed Horizontal Leg Length: 18,852'

12) Approximate Fresh Water Strata Depths: 60', 85', 200', 630', 810', 892'

13) Method to Determine Fresh Water Depths: Offsetting well reported water depths (091-00102, 091-00586, 091-00607, 091-00721)

14) Approximate Saltwater Depths: 1065'

15) Approximate Coal Seam Depths: Harlem-364', Brushcreek-534', Lower Freeport-654', Upper Kittanning-724', Middle Kittanning-774', Clarion-834'

16) Approximate Depth to Possible Void (coal mine, karst, other): None expected

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: \_\_\_\_\_

Depth: \_\_\_\_\_

Seam: \_\_\_\_\_

Owner: \_\_\_\_\_

Gayne  
Knitowski

Digitally signed by  
Gayne Knitowski  
Date: 2025.12.04  
09:24:03 -05'00'

WW-6B  
(04/15)

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API NO. 47- 091 - 01380

OPERATOR WELL NO. Homer 204

Well Pad Name: Fiber II

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	27,400	27,400	TOC @ 1,350
Tubing							
Liners							

Gayne  
Knitowski

Digitally signed by  
Gayne Knitowski  
Date: 2025.12.04  
09:24:23 -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					5,000		
Liners							

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Kind:				WV Department of Environmental Protection
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.

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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:

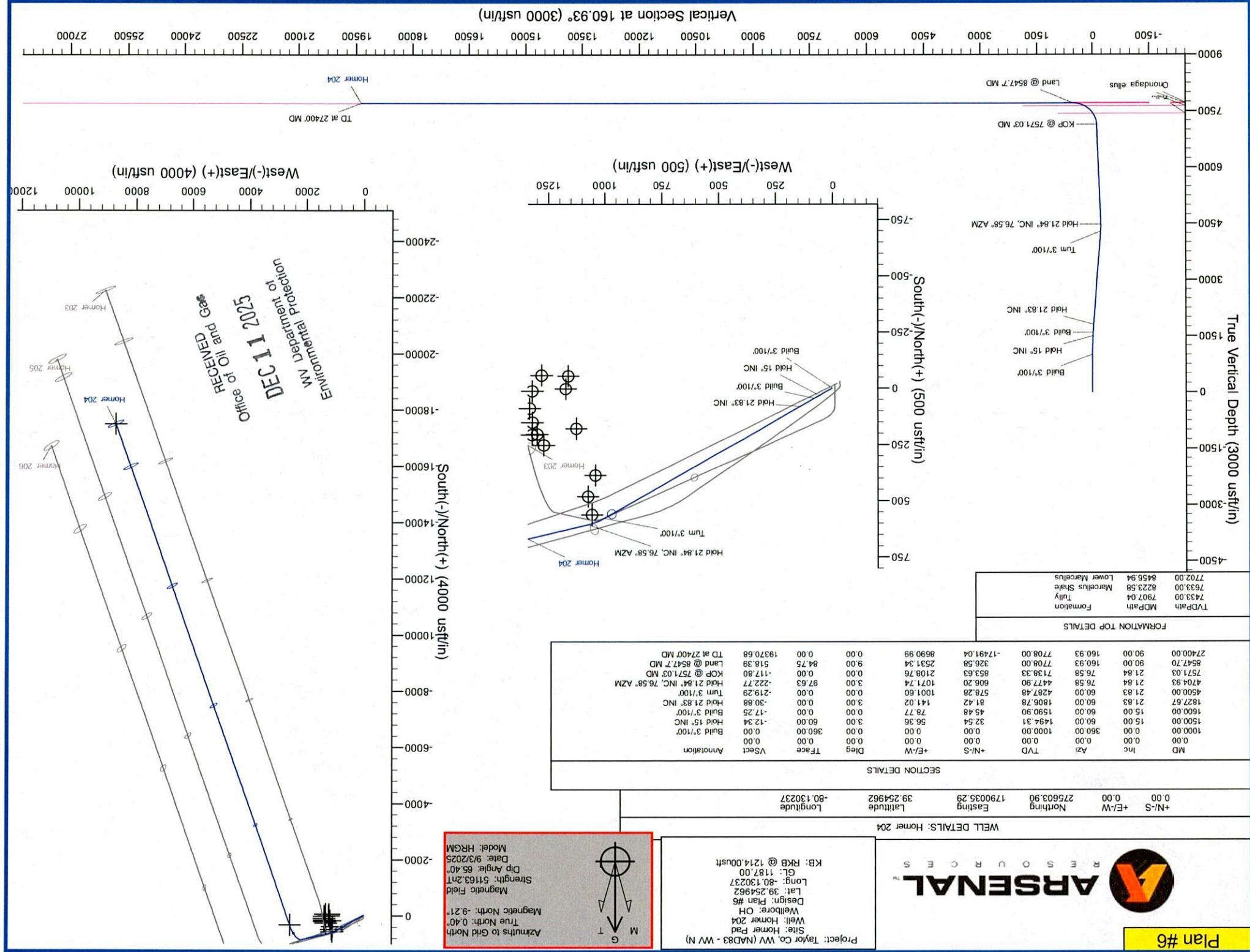
Top holes will be drilled with fresh water KOP. At KOP, the wellbore will be loaded with synthetic oil based mud, barite-weighted mud system with such properties as to build a filter-cake on the face of the bore-hole. This will provide lubricity as well as stabilizing the well bore. We will begin rotating 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.

**Area of Review Report - Fiber II Pad, Homer 204 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 2	091-00599	Diversified Production, LLC	Existing	39.256231	-80.122308	4,662	Benson	Riley
Sally Paugh 2	001-00892-P	NA	Plugged	39.23569	-80.110838	4,919	Benson	Riley
Sadie Lake 2	001-00633-P	NA	Plugged	39.227388	-80.109168	4,547	Benson	Riley
Sadie C Lake 3	001-00654	Wolf Run Mining LLC	Existing	39.222981	-80.10791	4,530	Benson	NA
Beckwith Lumber Co 20	001-02873	Wolf Run Mining LLC	Plugged	39.222973	-80.106531	862	Lower Kittanning Coal	NA
Beckwith Lumber Co 20A	001-02880	Wolf Run Mining LLC	Existing	39.223121	-80.107747	817	Lower Kittanning Coal	NA
W D Cleavenger 258-CH	001-00566-P	Wolf Run Mining LLC	Plugged	39.219875	-80.102286	4,546	Benson	Riley
Laco B Corder 3	001-02026	Diversified Production, LLC	Plugged	39.21322	-80.103658	4,615	Benson	Riley

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**ARSENAL RESOURCES LLC**  
**FIBER II PAD**  
**HOMER 204**

4,478' B.H. 1,483' T.H.  
 T.H. LATITUDE 39°17'30"  
 B.H. LATITUDE 39°12'30"

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17)			
NAD'83 S.P.C.(FT)	N. 275,604.05	E. 1,790,035.26	
NAD'83 GEO.	LAT-(N) 39.254962	LONG-(W) 80.130237	
NAD'83 UTM (M)	N. 4,345,431.09	E. 575,043.83	
<u>LANDING POINT</u>			
NAD'83 S.P.C.(FT)	N. 275,765.0	E. 1,792,623.7	
NAD'83 GEO.	LAT-(N) 39.255454	LONG-(W) 80.121100	
NAD'83 UTM (M)	N. 4,345,493.2	E. 575,831.6	
<u>BOTTOM HOLE</u>			
NAD'83 S.P.C.(FT)	N. 258,113.0	E. 1,798,725.8	
NAD'83 GEO.	LAT-(N) 39.207104	LONG-(W) 80.099136	
NAD'83 UTM (M)	N. 4,340,146.1	E. 577,780.1	

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

448' B.H.

13,369' T.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)	Ⓐ

LINE	BEARING	DISTANCE
L1	N 60°00' E	1016.07'
L2	N 74°40' E	1207.26'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	260.37'	66.89'	66.71'	N 67°20' E
C2	130.85'	101.95'	99.39'	S 78°56' E
C3	572.03'	239.53'	237.79'	S 43°56' E
C4	1284.86'	181.24'	181.09'	S 29°35' E
C5	3212.48'	368.27'	368.07'	S 20°47' E

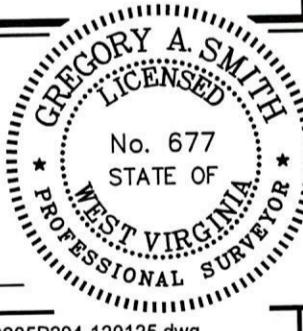


12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634  
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952  
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296  
 slswv.com

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

P.S.  
 677

*Gregory A. Smith*



MINIMUM DEGREE  
 OF ACCURACY 1 / 2500

FILE NO. 9205P204-120125.dwg

HORIZONTAL & VERTICAL  
 CONTROL DETERMINED BY: DGPS (SURVEY GRADE TIE TO CORS NETWORK)

SCALE 1" = 2000'

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

DATE DECEMBER 1, 20 25

REVISED 20

OPERATORS WELL NO. 204

API WELL NO. 47 - 091 - 01380  
 STATE COUNTY PERMIT

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



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

ELEVATION 1,187.00' WATERSHED SIMPSON CREEK

DISTRICT FLEMINGTON COUNTY TAYLOR QUADRANGLE ROSEMONT

ACREAGE 897.36±

SURFACE OWNER ATLAS SHRUGGING LLC ACREAGE 571,784.8, 601,501  
 ROYALTY OWNER CHESTER AND FRANCES SINSEL & A. BROOKS FLEMING ET AL SEE WW-6A1

LEASE NO.

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 27,400'

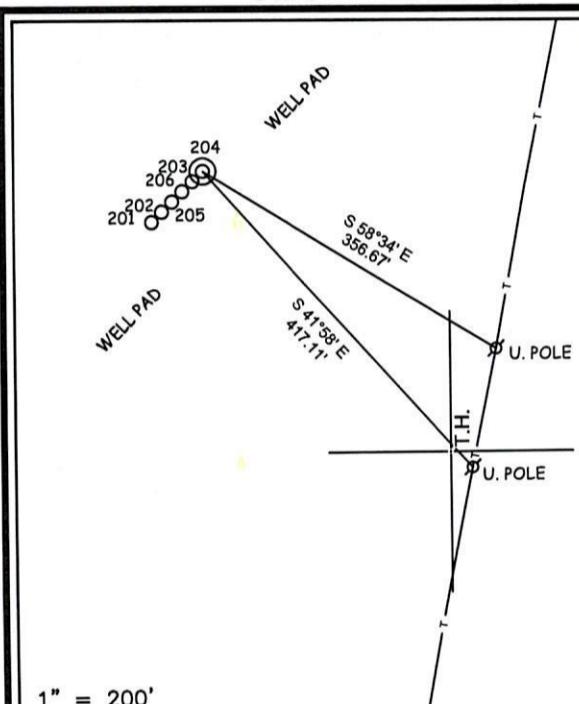
WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT ERIC MORRIS

ADDRESS 6031 WALLACE RD. EXT. SUITE 200 ADDRESS 633 WEST MAIN STREET

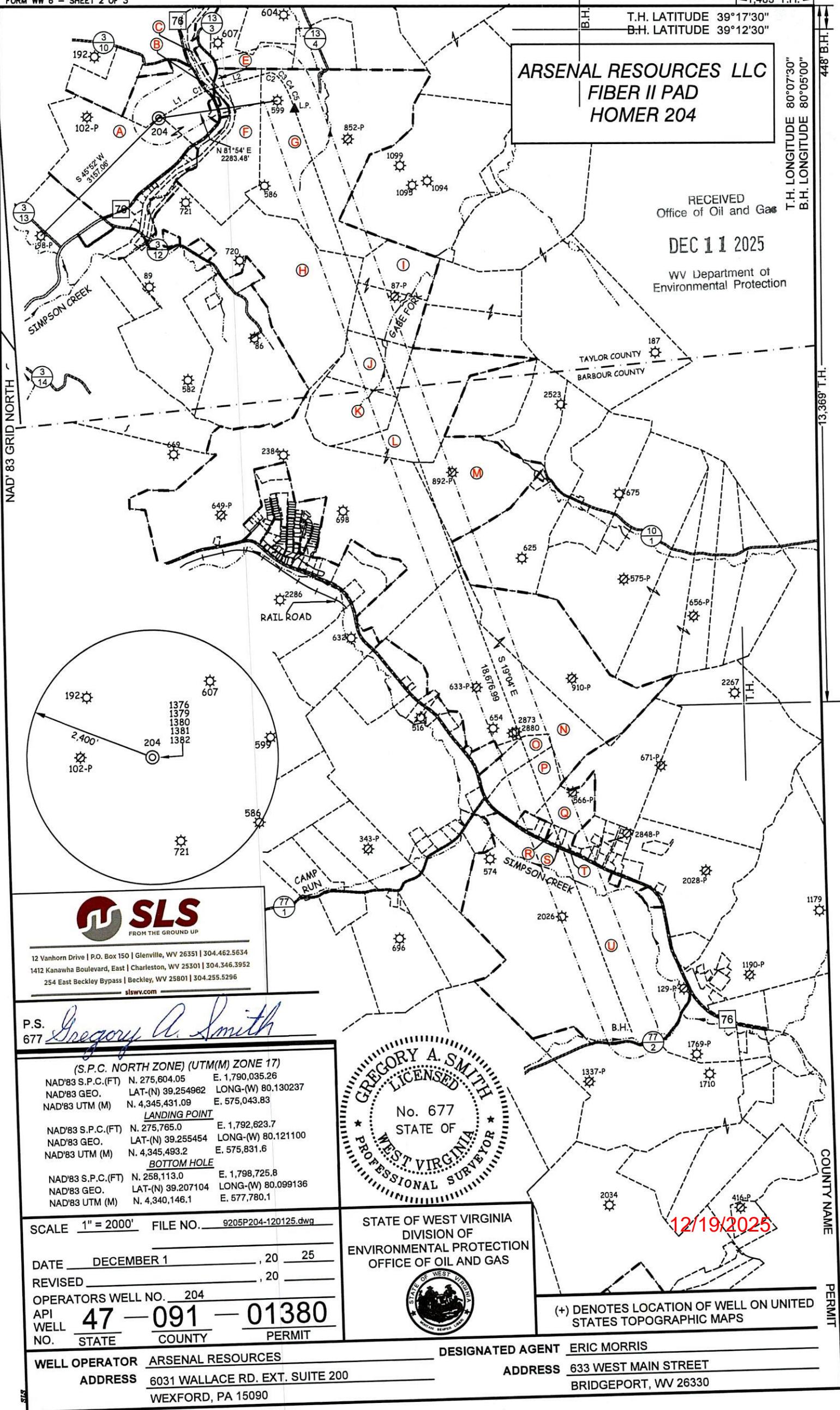
WEXFORD, PA 15090 BRIDGEPORT, WV 26330

COUNTY NAME

PERMIT



4,478' B.H. 1,483' T.H.

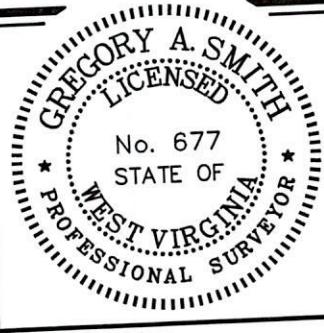
T.H. LATITUDE 39°17'30"  
B.H. LATITUDE 39°12'30"

ARSENAL RESOURCES LLC  
FIBER II PAD  
HOMER 204

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

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
E	4-9-33	DAVID L BROWN	1.8
F	4-9-39	WILLIAM CLARK & CRYSTAL RANEAU BRAKE	57.6
G	4-9-40	EUGENE GREATHOUSE ET AL	170
H	4-10-1	CLINTON & CANDANCE DRAINER IRR TRUST	124.42
I	5-20-1	EUGENE GREATHOUSE ET AL	53.25
J	5-19-7	EUGENE GREATHOUSE ET AL	29.59
CREEK	N/A	GABE FORK	N/A
K	5-20-2	EUGENE GREATHOUSE ET AL	35.5
L	9-8-1	BECKWITH LUMBER COMPANY INC	444.17
M	9-8-5	WILLIAM R & ANNE V HAMMARSTROM	63
N	9-13-23	BECKWITH LUMBER COMPANY INC	413.3
O	9-13-23.4	DEVON McNAMARA	18.3
P	9-13-23.11	MICHAEL P & CRYSTAL L HICKMAN	19.2
Q	9-13-31.2	SAMUEL & BARBARA BOWERS	17.005
R	9-13-30.9	EARL E ROY	1.25
S	9-13-30.2	ROCKY A ROY SR	1.37
T	9-13-30.10	HOLLEY & FREDA DALTON	1.37
U	9-13-35	JASON CORDER & BENSON CORDER	394.64

FILE NO.	9205P204-120125.dwg		
DATE	DECEMBER 1	, 20	25
REVISED			
OPERATORS WELL NO.	204		
API WELL NO.	47	— 091 —	01380
STATE	COUNTY	PERMIT	



STATE OF WEST VIRGINIA  
DIVISION OF  
ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS  
12/19/2025

P.S.  
677

Gregory A. Smith



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

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

COUNTY NAME

PERMIT

Attachment to WW-6A1, Fiber II HOMER SOUTH 204

<b>TAG PARCEL</b>	<b>Grantor, Lessor, Assignor, etc.</b>	<b>Grantee, Lessee, Assignee, etc.</b>	<b>Royalty</b>	<b>Book/Page</b>	<b>Acreage</b>
A, B, F 47-091-4-11-1 47-091-4-9-39 (00005213)	Chester Sinsel and Frances Sinsel, his wife	Union Drilling Inc	12.5+%	35/488	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, B, F 47-091-4-11-1 47-091-4-9-39 (00006028)	A Brooks Fleming and Winnie Fleming his wife and Georgia L Fleming Widow	Union Drilling Inc.	12.5+%	33/79	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	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004128)	ANNA KAY SMITH	Petroleum Development Corp			
			12.5+%	42/584	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	

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C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004130)	AUGUSTIS B SMITH MARY A SMITH	Petroleum Development Corp	12.5+%	41/531	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004131)	DENVER D SMITH AND BERTIE SMITH	Petroleum Development Corp	12.5+%	41/513	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004132)	RICHARD G SMITH	Petroleum Development Corp	12.5+%	42/1	356
	<i>Office of Oil and Gas RECEIVED DEC 11 2025 WV Department of Environmental Protection</i>				
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004133)	MURREL WILSON AND O B WILSON	Petroleum Development Corp	12.5+%	41/568	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	

**Attachment to WW-6A1, Fiber II HOMER SOUTH 204**

<b>TAG PARCEL</b>	<b>Grantor, Lessor, Assignor, etc.</b>	<b>Grantee, Lessee, Assignee, etc.</b>	<b>Royalty</b>	<b>Book/Page</b>	<b>Acreage</b>
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004134)	CAROLYN KAY STUART & GAIL B STUART	Petroleum Development Corp	12.5+%	41/593	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004135)	KIMBERLY ANN CORLEY VOLLMAN ET VIR	Petroleum Development Corp	12.5+%	42/235	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004136)	ELIZABETH STOUT	Petroleum Development Corp	12.5+%	41/521	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004137)	VIRGINIA SMITH	Petroleum Development Corp	12.5+%	41/552	356
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**Attachment to WW-6A1, Fiber II HOMER SOUTH 204**

<b>TAG PARCEL</b>	<b>Grantor, Lessor, Assignor, etc.</b>	<b>Grantee, Lessee, Assignee, etc.</b>	<b>Royalty</b>	<b>Book/Page</b>	<b>Acreage</b>
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004138)	VIRGINIA JOY STEMPLE ET VIR	Petroleum Development Corp			
	Petroleum Development Corp	PDC Mountaineer LLC	12.5+%	41/564	356
	PDC Mountaineer LLC	River Ridge Energy, LLC			
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004139)	DONALD D SMITH	Petroleum Development Corp			
	Petroleum Development Corp	PDC Mountaineer LLC	12.5+%	41/556	356
	PDC Mountaineer LLC	River Ridge Energy, LLC			
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004141)	ERNEST T SMITH AND ADA SMITH	Petroleum Development Corp			
	Petroleum Development Corp	PDC Mountaineer LLC	12.5+%	41/517	356
	PDC Mountaineer LLC	River Ridge Energy, LLC			

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TAG PARCEL	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004142)	KENNETH SMITH AND BEATRICE SMITH	Petroleum Development Corp	12.5+%	41/572	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004143)	MICHAEL SMITH & REBECCA SMITH	Petroleum Development Corp	12.5+%	42/98	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004144)	FRANCELL EICH AND ROBERT EICH	Petroleum Development Corp	12.5+%	41/501	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004145)	ELEANOR GREATHOUSE & ONA SMITH L/E	Petroleum Development Corp	12.5+%	41/657	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	

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TAG PARCEL	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004146)	PEARL FUNDAK AND FRANK FUNDAK	Petroleum Development Corp	12.5+%	41/497	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004147)	EVELYN MARTIN AND JAMES E MARTIN	Petroleum Development Corp	12.5+%	41/649	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004148)	BETTY LOU SHOCKEY	Petroleum Development Corp	12.5+%	41/601	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004149)	HAZEL POSTLETHWAIT	Petroleum Development Corp	12.5+%	41/560	356

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TAG PARCEL	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004150)	KATHLEEN ROACH	Petroleum Development Corp	12.5+%	41/613	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004151)	CONNIE SUE SCOTT AND ROY A SCOTT	Petroleum Development Corp	12.5+%	41/609	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004152)	CARRIE JEANETTE SMITH	Petroleum Development Corp	12.5+%	41/509	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	

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C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004153)	ALVA O PHILLIPS	Petroleum Development Corp	12.5+%	41/505	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004154)	CHERYL LYNN CORLEY HALL ET VIR	Petroleum Development Corp RECEIVED Office of Oil and Gas DEC 11 2025 WV Department of Environmental Protection	12.5+%	41/661	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
C, G, I, J, K, 47-091-4-9-54 47-091-4-9-40 47-091-5-20-1 47-091-5-19-7 47-091-5-20-2 (00004155)	SARAH SHIELDS	Petroleum Development Corp	12.5+%	41/641	356
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
ROAD	COUNTY ROUTE 13/3	SUBSTATION ROAD			
E 47-091-4-9-33 (00009638)	DAVID L BROWN	MAR KEY LLC	12.5+%	see attached lease copy	1.8
H 47-091-4-10-1 (00004271)	James B & Alma E Ross	Union Drilling Inc	12.5+%	40/504	134
	Union Drilling Inc	Equitable Resources Exploration Inc		9/427	

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TAG PARCEL	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		10/79	
	Equitable Resources Energy Company	Petroleum Development Corp		12/137	
	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	
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
H 47-091-4-10-1 (00004272)	Ann Ross and John R Dunn	Union Drilling Inc	12.5+%	40/489	134
	Union Drilling Inc	Equitable Resources Exploration Inc		9/427	
	Equitable Resources Exploration Inc	Equitable Resources Energy Company		10/79	
	Equitable Resources Energy Company	Petroleum Development Corp		12/137	
	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	
	Petroleum Development Corp	PDC Mountaineer LLC		30/698	
	PDC Mountaineer LLC	River Ridge Energy, LLC		59/1263	
L 47-001-9-8-1 (00005717)	JAMES R TAYLOR ET AL	UNION DRILLING INC	12.5+%	71/397	208
	Union Drilling/PECO/UDI	Union Drilling Inc		14/316	
	Union Drilling Inc	Consolidated Gas Supply			
	Consolidated Gas Supply	Consolidated Gas Transmission		99/481	
	Consolidated Gas Transmission	CNG Development Co		103/71	
	CNG Development Co	Equitable Resources Energy		113/28	
	Equitable Resources Energy	Fuel Resources Production		110/81	
	Equitable Resources Energy	Enervest East Limited Partnership		129/524	
	Fuel Resources Production	The Houston Exploration Company		383/187	
	Enervest East Limited Partnership	The Houston Exploration Company		138/1	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshure Petroleum LLC		447/129	

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TAG PARCEL	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
L 47-001-9-8-1 (00005718)	FRED CLEAVENGER ET AL	UNION DRILLING INC	12.5+%	73/408	208
	Union Drilling/PECO/UDI	Equitable Resources Exploration Inc		14/312	
	Equitable Resources Exploration Inc	Equitable Resources Energy		328/171	
	Equitable Resources Energy	Enervest East Limited Partnership		129/524	
	Equitable Resources Energy	Fuel Resources Production		116/81	
	Fuel Resources Production	The Houston Exploration Company		139/48	
	Enervest East Limited Partnership	The Houston Exploration Company		138/1	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshure Petroleum LLC		447/129	
L 47-001-9-8-1 (00005719)	LUCILLE CLEAVENGER ET AL	UNION DRILLING INC	12.5+%	73/412	208
	Union Drilling/PECO/UDI	Equitable Resources Exploration Inc		14/312	
	Equitable Resources Exploration Inc	Equitable Resources Energy		328/171	
	Equitable Resources Energy	Enervest East Limited Partnership		129/524	
	Equitable Resources Energy	Fuel Resources Production		116/81	
	Fuel Resources Production	The Houston Exploration Company		139/48	
	Enervest East Limited Partnership	The Houston Exploration Company		138/1	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshure Petroleum LLC		447/129	
L 47-001-9-8-1 (00005720)	RUSSELL T TAYLOR	UNION DRILLING INC	12.5+%	73/316	208
	Union Drilling/PECO/UDI	Equitable Resources Exploration Inc		14/312	
	Equitable Resources Exploration Inc	Equitable Resources Energy		328/171	
	Equitable Resources Energy	Enervest East Limited Partnership		129/524	
	Equitable Resources Energy	Fuel Resources Production		116/81	
	Fuel Resources Production	The Houston Exploration Company		139/48	
	Enervest East Limited Partnership	The Houston Exploration Company		138/1	
	The Houston Exploration Company	Seneca-Upshur Petroleum Inc		404/381	
	Seneca-Upshur Petroleum Inc	Seneca-Upshure Petroleum LLC		447/129	

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TAG PARCEL	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
L 47-001-9-8-1 (00005920)	ADA M CLEAVENGER ET VIR	CUMBERLAND AND ALLEGHENY GAS COMPANY	12.5+%	45/443	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	
L 47-001-9-8-1 00007805	RICHARD D SMITH	MAR KEY LLC	12.5+%	177/561	46
L 47-001-9-8-1 00007811	HARRIET S BUTCHER ET VIR	MAR KEY LLC	12.5+%	177/579	46
L 47-001-9-8-1 00007812	TERRY L SMITH	MAR KEY LLC	12.5+%	177/585	46
L 47-001-9-8-1 00007819	RANDAL S SMITH AND GLORIA S SMITH	MAR KEY LLC	12.5+%	177/583	46
L 47-001-9-8-1 00007834	MAXINE SHAW BOYLEN	MAR KEY LLC	12.5+%	177/593	46
L 47-001-9-8-1 00007858	DARLENE LOU SHAW SCHOONOVER ET VIR	MAR KEY LLC	12.5+%	178/103	46
L 47-001-9-8-1 00007860	CHYLENE SHAW	MAR KEY LLC	12.5+%	178/105	46

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Tag Parcel	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
L 47-001-9-8-1 00007861	ARLENE JO SHAW THOMPSON ET VIR	MAR KEY LLC	12.5+%	178/107	46
L 47-001-9-8-1 00008123	MURRELL J BRYAN	MAR KEY LLC	12.5+%	179/340	46
L 47-001-9-8-1 00008124	PATRICIA G PHILLIPS	MAR KEY LLC	12.5+%	179/342	46
L 47-001-9-8-1 00008125	GARY L PRICE AND BRENDA J PRICE	MAR KEY LLC	12.5+%	179/344	46
L 47-001-9-8-1 00008126	JOSEPH PRICE	MAR KEY LLC	12.5+%	179/346	46
L 47-001-9-8-1 00008127	KIMBERLY D MARSH ET VIR	MAR KEY LLC	12.5+%	179/348	46
L 47-001-9-8-1 00008129	ALICE M POLING	MAR KEY LLC	12.5+%	179/350	46
L 47-001-9-8-1 00008133	MICHAEL R SWIGER & EDNA D SWIGER	MAR KEY LLC	12.5+%	179/352	46
L 47-001-9-8-1 00008135	BETH A WALLS	MAR KEY LLC	12.5+%	179/354	46
L 47-001-9-8-1 00008136	KAREN J BROWN ET VIR	MAR KEY LLC	12.5+%	179/356	46
L 47-001-9-8-1 00008140	ALAN HAMILTON	MAR KEY LLC	12.5+%	179/364	46

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TAG PARCEL	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
L 47-001-9-8-1 00008162	MYRA C HANSFORD	MAR KEY LLC	12.5+%	179/465	46
L 47-001-9-8-1 00008177	BRUCE A SHERBS & REINETTE L SHERBS	MAR KEY LLC	12.5+%	179/471	46
L 47-001-9-8-1 00008181	BARBARA KAY WILT	MAR KEY LLC	12.5+%	179/473	46
L 47-001-9-8-1 00008182	ANGELA GAIL YOAKUM & GARY W YOAKUM	MAR KEY LLC	12.5+%	179/475	46
L 47-001-9-8-1 00008185	ROBERT B YOST II & CHRISTINE M YOST	MAR KEY LLC	12.5+%	179/477	46
L 47-001-9-8-1 00008198	JOHNATHAN ALLEN SHAW ET UX	MAR KEY LLC	12.5+%	179/479	46
L 47-001-9-8-1 00008200	WILLIAM THOMAS WILSON ET UX	MAR KEY LLC	12.5+%	179/481	46
L 47-001-9-8-1 00008205	REBECCA J BRYAN POA DEBA CORBIN	MAR KEY LLC	12.5+%	179/517	46
L 47-001-9-8-1 00008208	HAZEL MARY SHERBS POA DEBRA CORBIN	MAR KEY LLC	12.5+%	179/519	46
L 47-001-9-8-1 00008209	MELINDA L SHERBS ET VIR	MAR KEY LLC	12.5+%	179/521	46
L 47-001-9-8-1 00008214	MARK A YOST SR & ANDREA YOST	MAR KEY LLC	12.5+%	179/527	46

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L 47-001-9-8-1 00008221	ROBERT W BRYAN & KIMBERLY J BRYAN	MAR KEY LLC	12.5+%	179/533	46
L 47-001-9-8-1 00008227	ROBERT LEE SHERBS JR	MAR KEY LLC	12.5+%	179/535	46
L 47-001-9-8-1 00008228	VIRGINIA LEE BUTCHER ET VIR	MAR KEY LLC	12.5+%	179/537	46
L 47-001-9-8-1 00008250	MELINDA ANN BALL	MAR KEY LLC	12.5+%	179/552	46
L 47-001-9-8-1 00008253	MARIE G PEPPER	MAR KEY LLC	12.5+%	179/542	46
L 47-001-9-8-1 00008256	THE UNITED METHODIST FDN OF WV INC	MAR KEY LLC	12.5+%	179/556	46
L 47-001-9-8-1 00008326	RACHEL ANN HATFIELD	MAR KEY LLC	12.5+%	180/585	46
L 47-001-9-8-1 00008328	ROBERT B SHERBS & SUSAN NOTINI	MAR KEY LLC	12.5+%	180/587	46
L 47-001-9-8-1 00008336	ANDREW CLINTON SPENCER ET UX	MAR KEY LLC	12.5+%	180/591	46
L 47-001-9-8-1 00008354	EUGENE WILSON SPENCER ET UX	MAR KEY LLC	12.5+%	180/593	46
L 47-001-9-8-1 00008371	JOSEPHINE ANN BEVERLIN	MAR KEY LLC	12.5+%	180/639	46

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L 47-001-9-8-1 00008401	LULU L DAVIS & GAYLE A DAVIS	MAR KEY LLC	12.5+%	181/25	46
L 47-001-9-8-1 00008419	RUTH ELAINE LACHAPELLE ET VIR	MAR KEY LLC	12.5+%	181/163	46
L 47-001-9-8-1 00008420	TERESA E SCHOECK ET VIR	MAR KEY LLC	12.5+%	181/157	46
L 47-001-9-8-1 00008423	MICHEL G ANTILL & MAUREEN A ANTILL	MAR KEY LLC	12.5+%	181/161	46
L 47-001-9-8-1 00008424	GLORIA ANN HERSHBERGER	MAR KEY LLC	12.5+%	181/165	46
L 47-001-9-8-1 00008435	R KELVIN ANTILL & CAROL ANTILL	MAR KEY LLC	12.5+%	181/192	46
L 47-001-9-8-1 00008436	CHARLES E BATES	MAR KEY LLC	12.5+%	181/194	46
L 47-001-9-8-1 00008438	DAVID E ANTILL	MAR KEY LLC	12.5+%	181/196	46
L 47-001-9-8-1 00008466	ERLINE LINDBERG & PAUL K LINDBERG	MAR KEY LLC	12.5+%	181/200	46
L 47-001-9-8-1 00008490	ELTON EUGENE BRYAN ET UX	MAR KEY LLC	12.5+%	181/236	46
L 47-001-9-8-1 00008491	DAVID ALLEN CLEMENS ET UX	MAR KEY LLC	12.5+%	181/238	46

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L 47-001-9-8-1 00008498	JAMES R PRICE AND CARA T PRICE	MAR KEY LLC	12.5+%	181/392	46
L 47-001-9-8-1 00008529	DAVID M YOST & KATHY JO D YOST	MAR KEY LLC	12.5+%	181/463	46
L 47-001-9-8-1 00008592	MICHAEL L HUTCHINS ET UX	MAR KEY LLC	12.5+%	181/639	46
L 47-001-9-8-1 00008648	LOUISE V JACKSON BIGGS	MAR KEY LLC	12.5+%	182/18	46
L 47-001-9-8-1 00008883	CHRISTOPHER PAUL PEPPER	MAR KEY LLC	12.5+%	182/414	46
M 47-001-9-8-5 (00005921)	SALLIE & C W PAUGH	UNION DRILLING INC & ALLERTON MILLER	12.5+%	70/5	154.83
	Allerton Miller	Union Drilling Inc		98/11	
	Union Drilling Inc	Equitable Resources Exploration		325/219	
	Equitable Resources Exploration	Equitable Resources Energy Company		328/171	
	Equitable Resources Energy Company	Fuel Resources Production & Dev		116/81	
	Equitable Resources Energy Company	Enervest East Limited Partnership		129/524	
	Fuel Resources Production & Dev	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	
N 47-001-09-13-23 O 47-001-09-13-23.4 P 47-001-09-13-23.11 (00005917)	SADIE C LAKE	CUMBERLAND AND ALLEGHENY GAS COMPANY	12.5+%	45/423	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	

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TAG PARCEL	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
	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	
Q, R, S, T 47-001-09-13-31.2 47-001-09-13-30.9 47-001-09-13-30.2 47-001-09-13-30.10	JERRY PRICE	MAR KEY LLC	12.5+%	see attached lease copy	30.85
U 47-001-09-13-35 (00005730)	LACO B CORDER AND ROXIE E CORDER	CUMBERLAND AND ALLEGHENY GAS COMPANY	12.5+%	45/447	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	

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Environmental Protection  
Office of Oil and Gas  
DEC 11 2025

## MEMORANDUM OF OIL AND GAS LEASE

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DEC 11 2025

WV Department of  
Environmental Protection

**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:**

**Lessor's Address:**

Jerry Price

3872 Portrush Way, Amelia, OH 45102, ..

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DEC 11 2025

**Lessee:**

**Lessee's Address:**

Mar Key, LLC.

6031 Wallace Road Extension, Suite 200  
Wexford, PA 15090

WV Department of  
Environmental Protection

**Date Executed:**

11/26/25

**Effective Date:**

11/26/25

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:

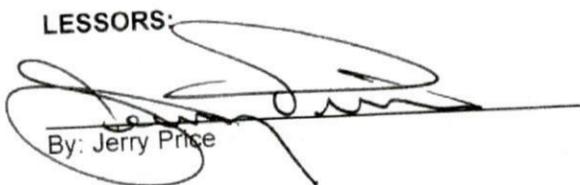
All that certain tract of land in Pleasant District, Barbour County, West Virginia, described in Deed Book(s) 106 & 63, at Page(s) 89 & 389, dated 10/14/1910 & 5/15/1905 and recorded in the Recorder's Office of said County, containing 30.850000000000000001 acres, more or less. Said Leased Premises, including but not limited to tract(s) being identified for tax purposes as parcel number(s) 47-001-09-13-30, 47-001-09-13-30.1, 47-001-09-13-30.2, 47-001-09-13-30.3, 47-001-09-13-30.4, 47-001-09-13-30.5, 47-001-09-13-30.6, 47-001-09-13-30.7, 47-001-09-13-30.8, 47-001-09-13-30.9, 47-001-09-13-30.10, 47-001-09-13-30.11, 47-001-09-13-31.1, 47-001-09, 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 106 & 63, at Page 89 & 389 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:**

Arika Godawa

**LESSORS:**  
  
By: Jerry Price

Arika Godawa

By:

**LESSEE:**  
Mar Key, LLC

By: Jon Sheldon  
Its: SVP & COO

12/19/2025



People Powered. Asset Strong.

December 8, 2025

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

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Office of Oil and Gas

DEC 11 2025

WV Department of  
Environmental Protection

**RE: Homer #204 (47-091-01380) - Expedited Modification Due to Well Extension**

Dear Mr. Brewer,

Enclosed please find the permit modification for the Homer #204 (47-091-01380).

The wellhead location remains the same as the current permit. The well is being extended to the planned lateral length of 18,852'.

Revised documents attached include the revised WW-6B, wellbore schematic with plan, plat, WW-6A1, and area of review. The expedited modification review fee is also included.

Should you have any questions or need any additional information, please feel free to contact me by phone or email.

Sincerely,

A handwritten signature in black ink that appears to read "Emily Glick".

CK# 0000204526

AMT \$ 7,500

Emily Glick  
Geologist & Permitting Specialist  
(c) 724-759-9612  
(e) eglick@arsenalresources.com

6031 Wallace Road Ext., Suite 200  
Wexford, PA 15090  
P - 724-940-1100  
F - 800-428-0981

[www.arsenalresources.com](http://www.arsenalresources.com)  
12/19/2025