



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, July 27, 2026
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC
6031 WALLACE RD. EXT. SUITE 200
WEXFORD, PA 15090

Re: Permit Modification Approval for FLANDERS 204
47-091-01386-00-00

Lateral Extension

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.

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

H. Jason Harmon
Chief

Operator's Well Number: FLANDERS 204
Farm Name: VANDALIA LAND, LLC
U.S. WELL NUMBER: 47-091-01386-00-00
Horizontal 6A New Drill
Date Modification Issued: 07/27/2026

Promoting a healthy environment.

07/31/2026

WW-6B
(04/15)

API NO. 47- 091 - 01386
OPERATOR WELL NO. 204
Well Pad Name: Flanders

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

- 1) Well Operator: Arsenal Resources 494519412 Taylor Courthouse Grafton
Operator ID County District Quadrangle
- 2) Operator's Well Number: 204 Well Pad Name: Flanders
- 3) Farm Name/Surface Owner: Vandalia Land, LLC Public Road Access: CR-11/Wendel Road
- 4) Elevation, current ground: 1250.82' Elevation, proposed post-construction: 1250.00'
- 5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐
Other ☐
(b) If Gas Shallow ☒ Deep ☐
Horizontal ☒
- 6) Existing Pad: Yes or No No
- 7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus Shale, 7,642' (TVD Top) - 7,712' (TVD Bottom), 70 ft, 0.5 psi/ft
- 8) Proposed Total Vertical Depth: 7,702'
- 9) Formation at Total Vertical Depth: Marcellus Shale
- 10) Proposed Total Measured Depth: 29,118'
- 11) Proposed Horizontal Leg Length: 20,567'
- 12) Approximate Fresh Water Strata Depths: 55', 74', 140', 160', 500', 700', 945'
- 13) Method to Determine Fresh Water Depths: Offsetting well reported water depths (091-00630, 091-00912, 091-00623, 091-00619)
- 14) Approximate Saltwater Depths: None expected
- 15) Approximate Coal Seam Depths: Pittsburgh-57', Harlem-427', Lower Freeport-727', Upper Kittanning-792', Middle Kittanning-842', Clarion-837'
- 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: _____

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CK# 206334
\$ 7500.00
6/18/2026

Digitally signed by
Gayne Knitowski
Date: 2026.04.28
08:08:47 -04'00'

Gayne
Knitowski

07/31/2026

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	24	New	H-40	94	80	80	CTS
Fresh Water	13.375	New	J-55	54.5	1,000	1,000 ✓	CTS
Coal							
Intermediate	9.625	New	J-55	40	2,000	2,000	CTS ✓
Production	5.5	New	P-110	20	29,118	29,118 ✓	TOC @ 1,850 ✓
Tubing	2.875	New	L-80	6.5		8,000	none
Liners							

Gayne
Knitowski

Digitally signed by
Gayne Knitowski
Date: 2026.04.28
08:09:06 -04'00'

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	24	36			0	Class A/L, 3% CaCl ₂	1.2
Fresh Water	13.375	17.5	0.38	2,730	900 ✓	Class A/L, 3% CaCl ₂	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A/L, 3% CaCl ₂ ✓	1.29
Production	5.5	8.5-8.75	0.415	14,520 ✓	9,500	Class A/L, Poz	1.29/1.34
Tubing	2.875					none	
Liners							

Office of Oil and Gas

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PACKERS

WV Department of
Environmental Protection

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.

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 21.83 WV Department of
Environmental Protection

22) Area to be disturbed for well pad only, less access road (acres): 8.32

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 2,650'; there will be no centralizers from 2,650' 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 2,350' (+/- 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 to 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 borehole. This will provide lubricity as well as stabilize 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: Flanders Pad
Well: Flanders 204
Design: Plan 1
Lat: 39.285984
Long: -80.099923
GL: 1250.00
RKB: GL +27' RKB @ 1277.00usft



Job #:

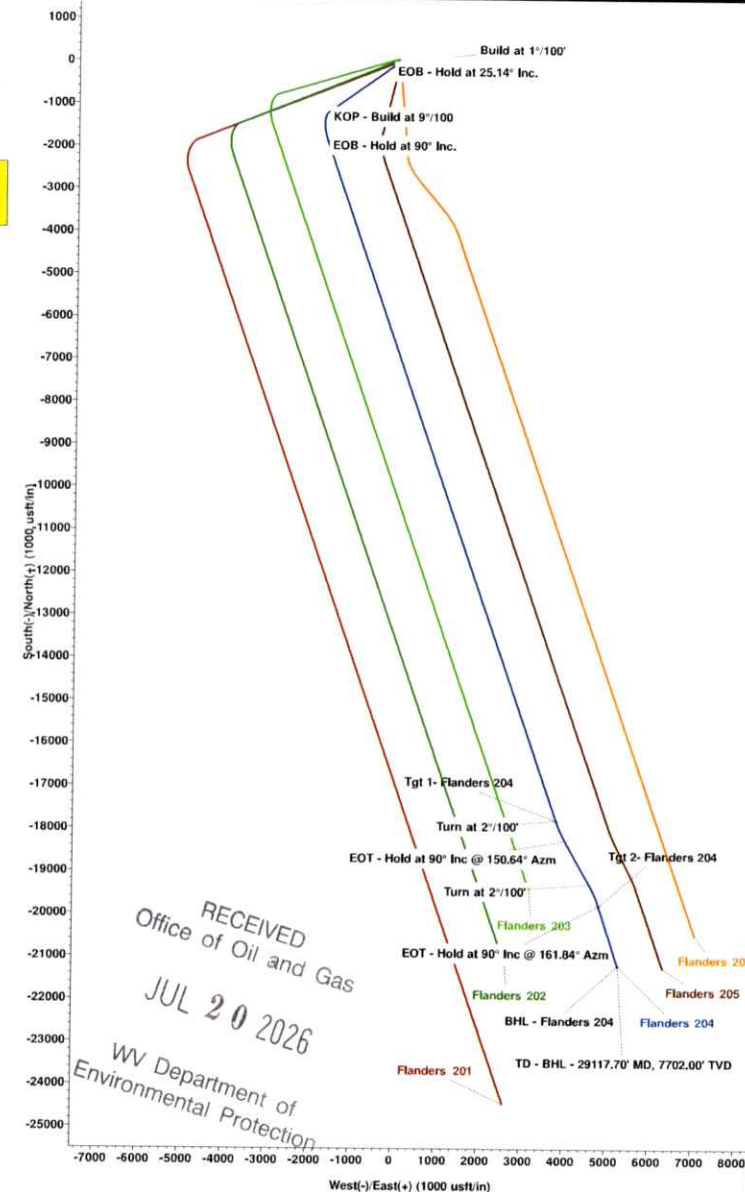
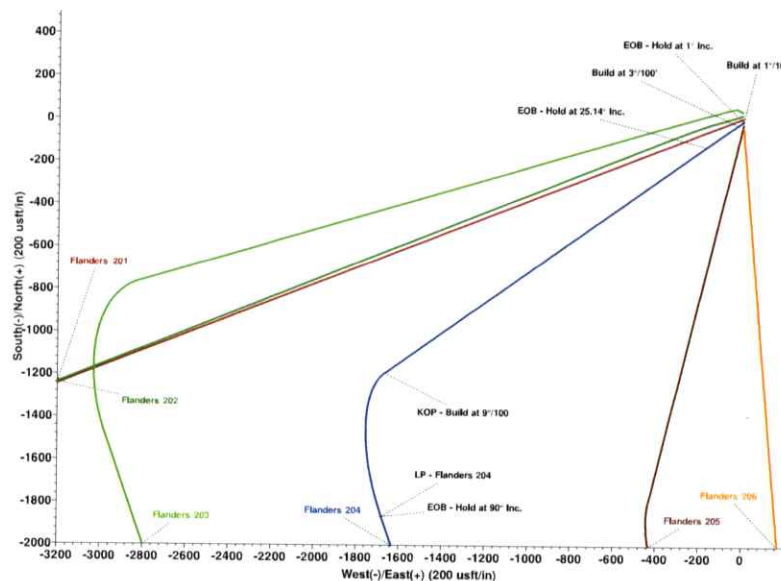
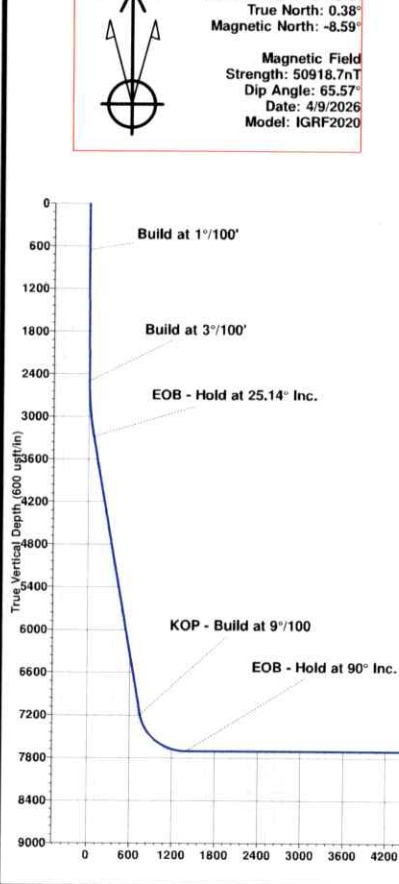
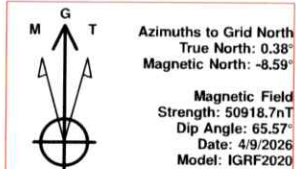
Plan 1

WELL DETAILS: Flanders 204

	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
	0.00	0.00	286843.89	1798694.65	39.285984	-80.099923	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	650.00	0.00	0.00	650.00	0.00	0.00	0.00	0.00	0.00		Build at 1°/100'
3	750.00	1.00	235.99	749.99	-0.49	-0.72	1.00	235.99	0.30		EOB - Hold at 1° Inc.
4	2500.00	1.00	235.99	2499.73	-17.57	-26.04	0.00	0.00	10.74		Build at 3°/100'
5	3304.81	25.14	234.47	3277.89	-122.42	-173.18	3.00	-1.58	76.83		EOB - Hold at 25.14° Inc.
6	7628.01	25.14	234.47	7191.45	-1189.99	-1668.00	0.00	0.00	750.55		KOP - Build at 9°/100'
7	8551.08	90.00	160.95	7702.00	-1862.36	-1678.91	9.00	-75.01	1400.25	LP - Flanders 204	EOB - Hold at 90° Inc.
8	25398.74	90.00	160.95	7702.00	-17787.15	3820.58	0.00	0.00	18182.90	Tgt 1- Flanders 204	Turn at 2°/100'
9	25913.90	90.00	150.64	7702.00	-18256.40	4031.50	2.00	-90.00	18689.26		EOT - Hold at 90° Inc @ 150.64° Azm
10	27083.49	90.00	150.64	7702.00	-19275.81	4604.86	0.00	0.00	19817.19		Turn at 2°/100'
11	27643.30	90.00	161.84	7702.00	-19787.37	4830.03	2.00	90.00	20368.05	Tgt 2- Flanders 204	EOT - Hold at 90° Inc @ 161.84° Azm
12	29117.70	90.00	161.84	7702.00	-21188.33	5289.53	0.00	0.00	21838.60	BHL - Flanders 204	TD - BHL - 29117.70' MD, 7702.00' TVD

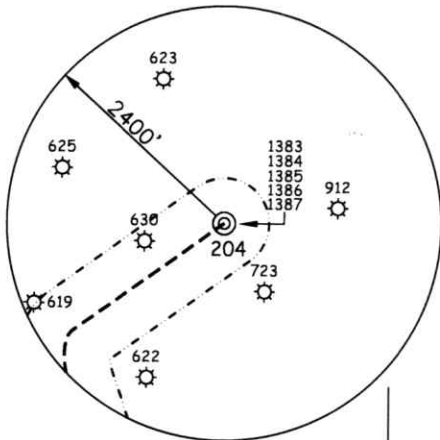


EOT - Hold at 90° Inc @ 161.84° Azm
EOT - Hold at 90° Inc @ 150.64° Azm
Turn at 2°/100'
Turn at 2°/100'
TD - BHL - 29117.70' MD, 7702.00' TVD

Area of Review Report - Flanders Pad, 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
✓ Tygart East Co 7	091-00630	WV Mineral Group, LLC	Existing	39.285378	-80.10273	4,800	Benson	Riley, Gordon
✓ Tygart East Co 2	091-00619	WV Mineral Group, LLC	Existing	39.283348	-80.107208	4,853	Benson	Riley
✓ Robert Turnbull 1	091-00687	WV Mineral Group, LLC	Existing	39.276243	-80.103287	4,590	Benson	Gordon
✓ Carolyn Turnbull et al 2	091-00713	WV Mineral Group, LLC	Existing	39.272182	-80.103473	2,677	Fifth	Gordon
✓ Clarence R Kinsey 2	091-00469-P	Petroleum Development Corp.	Plugged	39.267542	-80.098994	4,996	Benson	Speechley, Fourth
✓ James Joseph LaRosa 4	091-00446	Petroleum Development Corp.	Plugged	39.261307	-80.094703	unknown	unknown	unknown
✓ Nathan Coulson et ux 4	091-00775-P	Petroleum Development Corp.	Plugged	39.255796	-80.094329	unknown	unknown	unknown
✓ Martin Kaufman 2	091-00608	WV Mineral Group, LLC	Existing	39.248644	-80.089106	4,562	Benson	Riley
✓ Janice Trumble et vir 1	091-00662	Diversified Production, LLC	Existing	39.244874	-80.086868	4,513	Riley	None
✓ Lummi I Moss 1	001-02379	WV Mineral Group, LLC	Existing	39.238493	-80.086121	4,614	Benson	Riley

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ARSENAL RESOURCES
FLANDERS PAD
WELL 204

B.H.

T.H. LATITUDE 39°17'30"
B.H. LATITUDE 39°15'00"

T.H.

T.H. LONGITUDE 80°05'00"
B.H. LONGITUDE 80°02'30"2,070' T.H.
7,974' B.H.

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

TOP HOLE

NAD'83 S.P.C.(FT) N. 286,844.06 E. 1,798,694.75
NAD'83 GEO. LAT-(N) 39.285984 LONG-(W) 80.099923
NAD'83 UTM (M) N. 4,348,899.45 E. 577,625.19

LANDING POINT

NAD'83 S.P.C.(FT) N. 284,982.0 E. 1,797,016.0
NAD'83 GEO. LAT-(N) 39.280841 LONG-(W) 80.105809
NAD'83 UTM (M) N. 4,348,323.6 E. 577,123.2

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 265,728.4 E. 1,803,960.3
NAD'83 GEO. LAT-(N) 39.228106 LONG-(W) 80.080838
NAD'83 UTM (M) N. 4,342,492.8 E. 579,336.4

NOTES ON SURVEY

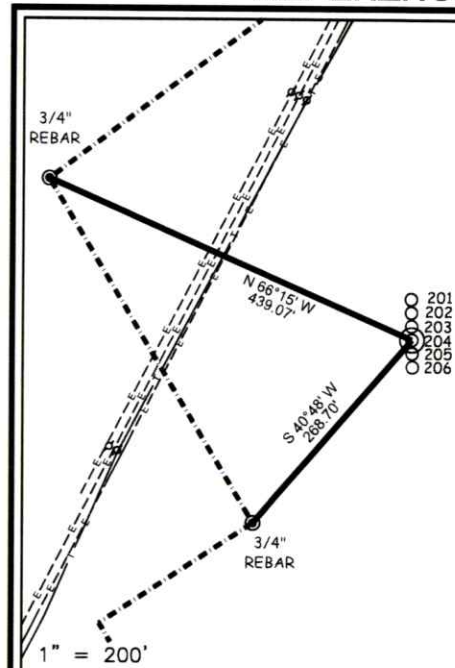
1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS $\geq$ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1"=2000'

LINE	BEARING	DISTANCE
L1	S 54°30' W	2048.73'

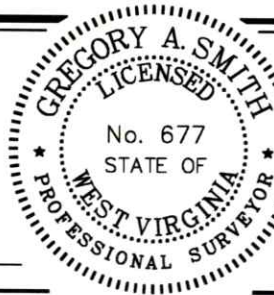
CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING
C1	185.36'	109.51'	107.92'	S 34°25' W
C2	472.28'	134.71'	134.25'	S 10°30' W
C3	1160.71'	460.44'	457.43'	S 09°23' E
C4	4346.86'	799.61'	798.49'	S 26°03' E
C5	3410.69'	699.90'	698.67'	S 25°33' E

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
slsvv.com

REFERENCES



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

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

DATE JUNE 29, 20 26

REVISED

OPERATORS WELL NO. 204

API
WELL
NO.

47 - 091 - 01386

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9554P204R-062926.dwg

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GASWELL TYPE: OIL _____ LIQUID WASTE IF
GAS ☒ INJECTION _____ DISPOSAL _____ "GAS" PRODUCTION ☒ STORAGE _____ DEEP _____ SHALLOW ☒

LOCATION:

ELEVATION 1,250.00' WATERSHED SANDLICK RUN

DISTRICT COURTHOUSE COUNTY TAYLOR QUADRANGLE GRAFTON 7.5'

SURFACE OWNER VANDALIA LAND LLC

ACREAGE 24.13±

ROYALTY OWNER KIM R. ROGERS ET AL

ACREAGE 6.04±

PROPOSED WORK:

DRILL ☒ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE ☒

FORMATION _____ PERFORATE NEW FORMATION _____ PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____

PHYSICAL CHANGE IN WELL (SPECIFY) _____

TARGET FORMATION MARCELLUS

ESTIMATED DEPTH TVD: 7,702' / TMD: 29,118'

WELL OPERATOR ARSENAL RESOURCES LLC
ADDRESS 6031 WALLACE RD. EXT. SUITE 200
WEXFORD, PA 15090DESIGNATED AGENT ERIC MORRIS
ADDRESS 633 WEST MAIN STREET
BRIDGEPORT, WV 26330

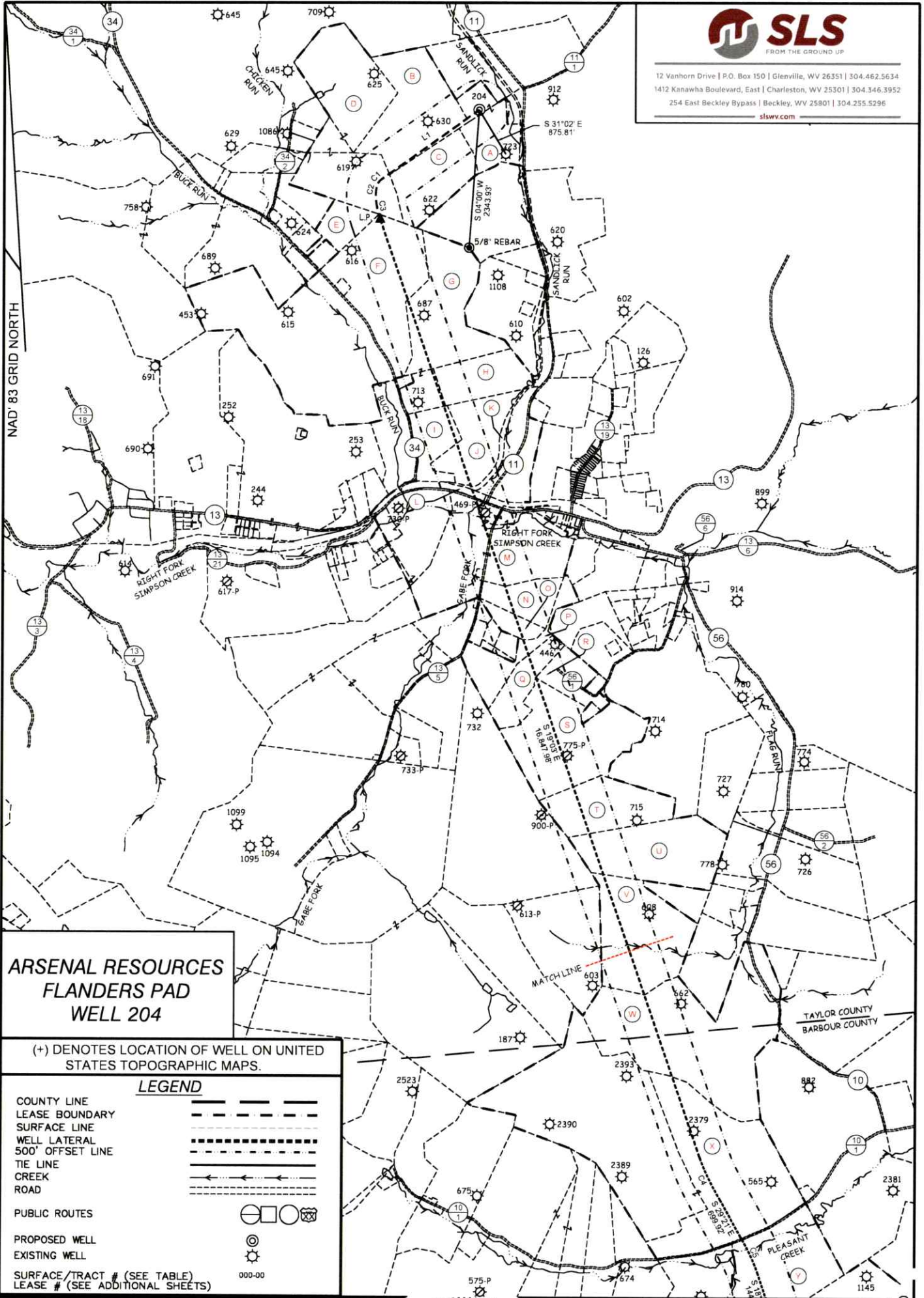
COUNTY NAME

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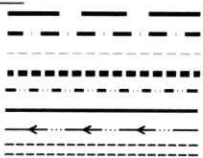


**ARSENAL RESOURCES
FLANDERS PAD
WELL 204**

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

LEGEND

COUNTY LINE
LEASE BOUNDARY
SURFACE LINE
WELL LATERAL
500' OFFSET LINE
TIE LINE
CREEK
ROAD



PUBLIC ROUTES



PROPOSED WELL



EXISTING WELL



SURFACE/TRACT # (SEE TABLE)

LEASE # (SEE ADDITIONAL SHEETS)



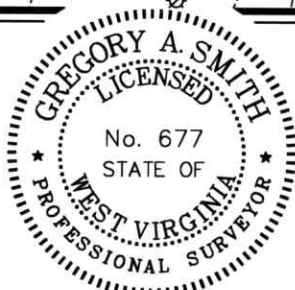
SCALE 1" = 2000' FILE NO. 9554P204R-062926.dwg

DATE JUNE 29, 2026

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OPERATORS WELL NO. 204

API WELL NO. 47 — 091 — 01386
STATE COUNTY PERMIT



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



07/31/2026

P.S. 677

Gregory A. Smith

WELL OPERATOR ARSENAL RESOURCES LLC
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



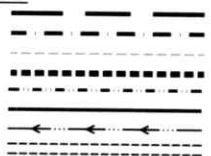
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**ARSENAL RESOURCES
FLANDERS PAD
WELL 204**

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LEGEND

COUNTY LINE
LEASE BOUNDARY
SURFACE LINE
WELL LATERAL
500' OFFSET LINE
TIE LINE
CREEK
ROAD



PUBLIC ROUTES



PROPOSED WELL

EXISTING WELL



SURFACE/TRACT # (SEE TABLE)
LEASE # (SEE ADDITIONAL SHEETS)

000-00

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TAG	PARCEL	SURFACE OWNER	ACREAGE
A	5-13A-2	VANDALIA LAND LLC	24.13
B	5-13-37	COALQUEST DEVELOPMENT LLC	49.75
C	5-13-36	COALQUEST DEVELOPMENT LLC	34.5
D	5-13-38	COALQUEST DEVELOPMENT LLC	83
E	5-13-69	HEATHER D PURKEY	12.07
F	4-4-4	JENNIE ANITA FINDLEY	178
G	5-13-44	TIMOTHY ROBERT & JACQUELINE FAYE SPENCER	61.25
H	5-13-45	TIMOTHY ROBERT & JACQUELINE FAYE SPENCER	23.5
I	5-14-1	TIMOTHY ROBERT & JACQUELINE FAYE SPENCER	17
J	5-14-2	TIMOTHY ROBERT & JACQUELINE FAYE SPENCER	69.34
K	X-144	CSX TRANSPORTATION	13.36
L	N/A	CSX RAILROAD	N/A
ROAD	N/A	TAYLOR CO. RT. 13	N/A
CREEK	N/A	RIGHT FORK OF SIMPSON CREEK	N/A
M	5-14-45	BEVERLY A KINSEY	110.28
CREEK	N/A	GABE FORK	N/A
ROAD	N/A	TAYLOR COUNTY ROUTE 13/5	N/A
N	5-14-44	ROBERT W BROWN JR	16.25
O	5-14-43	PAUL M SALTIS	6.75
P	5-14-35	WILLIAM P SALTIS	18.92
Q	5-14-34	GARY E & TARA L MCIE	14.1
R	5-14-33	CHARLES R SHEME	10.43
S	5-14-69	ROBERT A & CAROLE F KLEPFEL	65.19
T	5-14-73	STRAUDA L & DOUGLAS JOSEPH DEARDORFF	32
U	5-14-74	ALBERT EDWARD CHARLTON & TINA BAILEY	52.5
V	5-20-8	HARRYMAN PATRICIA J REVOCABLE TRUST-2021	57.5
W	5-20-9	LISA WAGEMAN	126.75
X	9-8-11	JEFFERY L MOSS ET AL	242
ROAD	N/A	BARBOUR COUNTY ROUTE 10/1	N/A
CREEK	N/A	PLEASANT CREEK	N/A
Y	9-7-3	EUGENE GREATHOUSE ET AL	55
Z	9-7-15	JOHN F & KAREN HYDE	66.83

FILE NO. 9554P204R-062926.dwg

DATE JUNE 29, 2026

REVISED

OPERATORS WELL NO. 204

API WELL NO. 47 — 091 — 01386

STATE COUNTY PERMIT



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



07/31/2026

P.S.
677

Gregory A. Smith

COUNTY NAME

PERMIT

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

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

Attachment to WW-6A1, Flanders 204

Tag, Parcel, Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book/Page	Royalty	Acreage
A, B 47-091-5-13A-2 47-091-5-13-37 (00004300)	Elladean Railing and Ethel Railing Petroleum Development Corporation PDC Mountaineer LLC	Petroleum Development Corporation PDC Mountaineer LLC River Ridge Energy, LLC	42/214 30/698 59/1263	12.5+%	106.5475
C 47-091-5-13-36 (00003944)	Elladean Railing and Ethel Railing Petroleum Development Corporation PDC Mountaineer LLC	Petroleum Development Corporation PDC Mountaineer LLC River Ridge Energy, LLC	42/221 30/698 59/1263	12.5+%	54.5000
D 47-091-5-13-38 (00003973)	Elladean Railing and Ethel Railing Petroleum Development Corporation PDC Mountaineer LLC	Petroleum Development Corporation PDC Mountaineer LLC River Ridge Energy, LLC	42/171 30/698 59/1263	12.5+%	82.4625
E 47-091-5-13-69 (00008300)	Laco B. Corder Petro-Lewis Corporation Partnership Properties Co Eastern American Energy Corporation Energy Corporation of America Greylock Production LLC	Petro-Lewis Corporation Partnership Properties Co Eastern American Energy Corporation Energy Corporation of America Greylock Production LLC Mar Key LLC	33/211 3/176 4/381 314/429 36/618 37/8	12.5+%	300
F 47-091-4-4-4 (00008263)	HAL FINDLEY & JENNIE FINDLEY PPG INDUSTRIES INC WHITE SHIELD OIL AND GAS CORP PARTNERSHIP PROPERTIES COMPANY Eastern American Energy Corporation Energy Corporation of America Greylock Production LLC	PITTSBURGH PLATE GLASS INDUSTRIES INC WHITE SHIELD OIL AND GAS CORP PARTNERSHIP PROPERTIES COMPANY Eastern American Energy Corporation Energy Corporation of America Greylock Production LLC Mar Key LLC	27/4 3/95 3/126 4/381 314/429 36/618 37/8	12.5+%	181
G, H, I, J 47-091-5-13-44 47-091-5-13-45 47-091-5-14-1 47-091-5-14-2 (00003760)	CAROLYN SUE & ROBERT E TURNBULL Petroleum Development Corporation PDC Mountaineer LLC	Petroleum Development Corporation PDC Mountaineer LLC River Ridge Energy, LLC	44/568 30/698 59/1263	12.5+%	173.25

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K, L X-144	CNX RAILROAD				
ROAD CREEK	TAYLOR COUNTY RIGHT FORK OF	ROUTE 13 SIMPSON CREEK			
M 47-091-5-14-45 (00008168)	JAMES A & BEVERLY A KINSEY	Mar Key LLC	69/184	12.5+%	110.28
CREEK	GABE FORK				
ROAD	TAYLOR COUNTY	ROUTE 13/5			
N 47-091-5-14-44 (00009808)	ROBERT W BROWN JR	Mar Key LLC	76/328	12.5+%	16.25
O 47-091-5-14-43 (00010002)	PAUL M SALTIS	Mar Key LLC	76/703	12.5+%	2.75
P 47-091-5-14-35 (00004772)	Glenn C Larew	Falcon Partners	54/477	12.5+%	156.27
P 47-091-5-14-35 (00004771)	Falcon Partners PDC Mountaineer LLC D Keith Larew	PDC Mountaineer LLC River Ridge Energy, LLC Falcon Partners	31/318 59/1263 54/483	12.5+%	156.27
P 47-091-5-14-35 (00004770)	Falcon Partners PDC Mountaineer LLC Thomas A Willis	PDC Mountaineer LLC River Ridge Energy, LLC Falcon Partners	31/318 59/1263 54/502	12.5+%	156.27
Q 47-091-5-14-34 (00008121)	JAMES DAVID BARR	Mar Key LLC	69/180	12.5+%	23.25
Q 47-091-5-14-34 (00008212)	JEFFREY SCOTT BARR	Mar Key LLC	69/222	12.5+%	23.25

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R 47-091-5-14-33 (00009873)	ANN V COULSON TRUST	Mar Key LLC	76/332	12.5+%	10.43
S 47-091-5-14-69 00009046	RRHAMCO INC	Mar Key LLC	72/226	12.5+%	77.46
T 47-091-5-14-73 (00003685)	JAMES W THOMPSON Petroleum Development Corporation PDC Mountaineer LLC	Petroleum Development Corporation PDC Mountaineer LLC River Ridge Energy, LLC	44/401 30/698 59/1263	12.5+%	32
U 47-091-5-14-74	TEN-A-COAL COMPANY	Mar Key LLC	SEE ATTACHED LEASE	12.5+%	52.5
V 47-091-5-20-8 (00003961)	MARTIN KAUFMAN Petroleum Development Corporation PDC Mountaineer LLC	Petroleum Development Corporation PDC Mountaineer LLC River Ridge Energy, LLC	41/718 30/698 59/1263	12.5+%	57.5
W 47-091-5-20-9 (00003962)	Janice R and Walker L Trumble Petroleum Development Corporation PDC Mountaineer LLC	Petroleum Development Corporation PDC Mountaineer LLC River Ridge Energy, LLC	41/637 30/698 59/1263	12.5+%	126.75
X 47-001-9-8-11 (00003576)	Floyd and Nora Jane Moss Cumberland & Allegheny Gas Union Drilling Inc Equitable Resources Exploration Equitable Resources Energy Equitable Resources Energy Fuel Resources Production Enervest East LP The Houston Exploration Co Seneca-Upshur Petroleum Inc	Cumberland & Allegheny Gas Union Drilling Inc Equitable Resources Exploration Equitable Resources Energy Fuel Resources Production Enervest East LP The Houston Exploration Co Seneca Upshur Petroleum Inc Seneca-Upshur Petroleum LLC	46/36 46/347 325/219 328/171 116/81 129/524 383/187 138/1 404/381 447/129	12.5+%	245
ROAD CREEK	BARBOUR COUNTY PLEASANT CREEK	ROUTE 10/1	RECEIVED Office of Oil and Gas JUL 20 2026 WV Department of Environmental Protection		

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Tag, Parcel, Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book/Page	Royalty	Acreage
Y 47-001-9-7-3 (00007918)	ELEANOR D GREATHOUSE	Mar Key LLC	178/171	12.5+%	55
Y 47-001-9-7-3 (00007918)	RALPH D SMITH AND EILEEN SMITH	MAR KEY LLC	179/21	12.5+%	55
Y 47-001-9-7-3 (00007918)	VIRGINIA JOY STEMPLER ET VIR	MAR KEY LLC	179/23	12.5+%	55
Y 47-001-9-7-3 (00007918)	CORNELIUS H SULLIVAN JR	MAR KEY LLC	179/27	12.5+%	55
Y 47-001-9-7-3 (00007918)	CAROLYN K STUART	MAR KEY LLC	179/94	12.5+%	55
Y 47-001-9-7-3 (00007918)	RAYMOND LEE SHOCKEY	MAR KEY LLC	179/92	12.5+%	55
Y 47-001-9-7-3 (00007918)	GREGORY W SMITH	MAR KEY LLC	179/360	12.5+%	55
Y 47-001-9-7-3 (00007918)	JOHNNA LOHR	MAR KEY LLC	179/362	12.5+%	55
Y 47-001-9-7-3 (00007918)	DONNA ROACH WILLIAMS	MAR KEY LLC	179/461	12.5+%	55
Y 47-001-9-7-3 (00007918)	CONNIE SUE SCOTT & ROY A SCOTT	MAR KEY LLC	179/463	12.5+%	55
Y 47-001-9-7-3 (00007918)	BRADLEY NEWLIN & JUDY NEWLIN	MAR KEY LLC	179/467	12.5+%	55
Y 47-001-9-7-3 (00007918)	VIRGINIA BRYAN & FRED BRYAN	MAR KEY LLC	179/469	12.5+%	55

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Y 47-001-9-7-3 (00007918)	PHYLLIS RANDALLS & DANIEL RANDALLS	MAR KEY LLC	179/529	12.5+%	55
Y 47-001-9-7-3 (00007918)	SHARON WALDEN & STEPHEN WALDEN	MAR KEY LLC	179/531	12.5+%	55
Y 47-001-9-7-3 (00007918)	JANICE ESCUE	MAR KEY LLC	180/294	12.5+%	55
Y 47-001-9-7-3 (00007918)	BARBARA PERRY & IRVIN PERRY	MAR KEY LLC	180/306	12.5+%	55
Y 47-001-9-7-3 (00007918)	DEBBIE SUE THORNBERRY ET VIR	MAR KEY LLC	180/613	12.5+%	55
Y 47-001-9-7-3 (00007918)	JANICE LOHR	MAR KEY LLC	180/643	12.5+%	55
Y 47-001-9-7-3 (00007918)	LUCINDA STOUT THOMSON	MAR KEY LLC	181/155	12.5+%	55
Y 47-001-9-7-3 (00007918)	GERALD SMITH & DIANNA SMITH	MAR KEY LLC	181/171	12.5+%	55
/ Z 47-001-9-7-15 (00005902)	C W AND SALLIE D PAUGH	Union Drilling Inc	80/6	12.5+%	66
	Union Drilling Inc	Equitable Resources Exploration	325/219	RECEIVED Office of Oil and Gas JUL 20 2026 WV Department of Environmental Protection	
	Equitable Resources Exploration	Equitable Resources Energy	328/171		
	Equitable Resources Energy	Enervest East	129/524		
	Enervest East	Houston Exploration	138/1		
	Houston Exploration	Seneca Upshur Petroleum Inc	139/48		
	Seneca Upshur Petroleum Inc	Seneca Upshur Petroleum LLC	447/129		
	Equitable Resources Energy	Fuel Resources Production	116/81		
	Fuel Resources Production	Houston Exploration	383/187		
	Houston Exploration	Seneca Upshur Petroleum Inc	139/48		
	Seneca Upshur Petroleum Inc	Seneca Upshur Petroleum LLC	447/129		

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JUL 20 2026

MEMORANDUM OF NO SURFACE USE OIL AND GAS LEASE

State of West Virginia

County Taylor

Lessor: Ten-A-Coal Company, a WV general partnership, Frank O. Cunningham, individually and as the last surviving partner in Ten A Coal Company, of 63 Ashby Dr., Bridgeport, WV 26330

WV Department of
Environmental Protection

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

Date Executed:

July 13, 2026

Effective Date:

As of the Effective Date stated above, Lessors, named above, executed and delivered to Lessee, name above, a No Surface Use-Oil and Gas Lease, (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 Courthouse District, Taylor County, West Virginia, described in Deed Book(s) 12:173, at Page(s) 136:114, dated 4/15/1874;10/8/1976 and recorded in the Recorder's Office of said County, containing 52.50000 acres, more or less. Said Leased Premises, including but not limited to tract(s) being identified for tax purposes as parcel number(s) 47-091-5-14-74, 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 12:173, at Page 136:114 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 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 No Surface Use-Oil and Gas Lease, 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:
TEN-A-COAL Company

Frank O Cunningham
By: Frank O. Cunningham, Last Surviving Partner

Frank O Cunningham
By: Frank O. Cunningham, Individually

LESSEE:
Mar Key, LLC

Jon Sheldon
By: Jon Sheldon
Its: SVP & COO

07/31/2026

ACKNOWLEDGMENT

STATE OF WV)
COUNTY OF Harrison) SS.

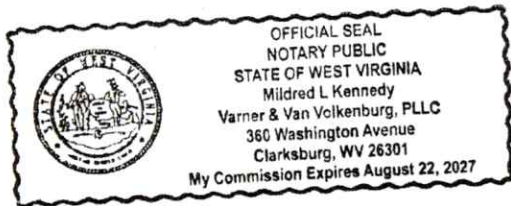
On this the 13th day of July, 2026, before me, the undersigned officer personally appeared **Frank O. Cunningham**, who acknowledged himself to be the **Last Surviving Partner of Ten A Coal Company** and as such **Last Surviving Partner**, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing his name as **Last Surviving Partner and Individually**.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: Aug 22, 2027

Signature/Notary Public: Mildred L. Kennedy

Name/Notary Public (print): Mildred L. Kennedy



ACKNOWLEDGMENT

COMMONWEALTH OF PENNSYLVANIA)
COUNTY OF ALLEGHENY) SS.

On this the _____ day of _____, 2026, before me, the undersigned officer personally appeared **Jon Sheldon**, who acknowledged himself to be the **SVP & COO of Mar Key, LLC** and as such **SVP and COO**, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing his name as **SVP & COO**.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission Expires: _____

Signature/Notary Public: _____

Name/Notary Public (print): _____

PREPARED BY & RETURN TO:
MAR KEY, LLC
6031 WALLACE RD EXT, STE 200
WEXFORD, PA 15090

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Office of Oil and Gas

JUL 20 2026

WV Department of
Environmental Protection

07/31/2026



People Powered. Asset Strong.

July 16, 2026

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

RE: Flanders #204 (47-091-01386) - Expedited Modification Due to Well Extension

Dear Mr. Brewer,

Enclosed please find the permit modification for the Flanders #204 (47-091-01386) lateral.

The wellhead location remains the same as the current permit. The well is being extended to the planned lateral length of 20,567'.

Revised documents attached include the revised WW-6B, SSP, wellbore schematic with plan, WMP, plat, WW-6A1, and area of review. The 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 blue ink that reads 'Emily Glick'.

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

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Office of Oil and Gas

JUL 20 2026

WV Department of
Environmental Protection

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

07/31/2026