



west virginia department of environmental protection

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

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

Friday, May 8, 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 SLH 213
47-033-06111-00-00

Extending 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.

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

H. Jason Harmon
Acting Chief

Operator's Well Number: SLH 213
Farm Name: JERRY R NEWBROUGH
U.S. WELL NUMBER: 47-033-06111-00-00
Horizontal 6A New Drill
Date Modification Issued: 5-8-2026

Promoting a healthy environment.

05/08/2026

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

1) Well Operator: <u>Arsenal Resources</u>	494519412	Harrison	Simpson	Brownton
	Operator ID	County	District	Quadrangle

2) Operator's Well Number: 213 Well Pad Name: SLH

3) Farm Name/Surface Owner: Newbrough Public Road Access: C.R. 23/9

4) Elevation, current ground: 1042' Elevation, proposed post-construction: 1045'

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, 7,217' (TVD Top) - 7,317' (TVD Bottom), 100 ft, 0.5 psi/ft

8) Proposed Total Vertical Depth: 7,305'

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 27,037'

11) Proposed Horizontal Leg Length: 19,360'

12) Approximate Fresh Water Strata Depths: 25', 40', 200', 488'

13) Method to Determine Fresh Water Depths: Offsetting well reported water depths (033-02704, 033-03178, 033-05119)

14) Approximate Saltwater Depths: 700', 1550'

15) Approximate Coal Seam Depths: Bakerstown-272', Brush Creek-352', Upper Freeport-392', Clarion-672'

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: _____

RECEIVED
Office of Oil and Gas
APR 03 2026
WV Department of
Environmental Protection

Jeff A
Propst
Digitally signed by Jeff A
Propst
DN: CN = Jeff A Propst email
= jeff.a.propst@wv.gov C =
US
Date: 2026.03.23 14:08:52 -
04:00

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	550	550	CTS
Coal							
Intermediate	9.625	New	J-55	40	1,500	1,500	CTS
Production	5.5	New	P-110	20	27,037	27,037	TOC @ 1,350
Tubing							
Liners							

Jeff A Propst
Digitally signed by Jeff A Propst
CN = Jeff A Propst email = jeff.a.propst@wyo.gov C = US
Date: 2026.03.23 14:08:47 -0400

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							
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): 9.59

22) Area to be disturbed for well pad only, less access road (acres): 4.82

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 1,450'; there will be no centralizers from 1,450' 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 stands 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 - SLH Pad, 213 Lateral, Harrison County, WV

Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
NA	033-03412	NA	Reassign	unknown	unknown	NA	NA	None
James C Parks 4	033-03602	WV Mineral Group, LLC	Existing	39.223119	-80.221192	4,477	Benson	None
Duncan&Botson Lease 2	033-00533	WV Mineral Group, LLC	Existing	39.244431	-80.231249	1,740	Big Injun	Keener
Duncan - Batson Lease 1	033-00514	WV Mineral Group, LLC	Existing	39.247043	-80.234975	4,560	Brallier	Keener
J J Lang 1	033-00512	WV Mineral Group, LLC	Existing	39.253425	-80.236789	2,475	Fifth	Big Injun, Keener
J J Lang Etc 2	033-00232	WV Mineral Group, LLC	Existing	39.254747	-80.236703	1,451	Big Injun	None
J J Lang 1	033-00226	WV Mineral Group, LLC	Existing	39.254591	-80.237372	2,434	Fifth	Upper Devonian, Big Injun
S Farris 7264	033-01451	Diversified Production, LLC	Existing	39.265487	-80.243796	2,236	Fifth	Gordon Stray, Thirty-foot
Robert Faris 32	033-03154	Diversified Production, LLC	Existing	39.269134	-80.244521	4,768	Alexander	Benson

NA - not applicable



ARSENAL
R E S O U R C E S

SITE SAFETY PLAN

SLH Well Pad

911 Address:

*Jeff Propst
5-15-2025*

**4795 Brushy Fork Rd
Bridgeport, WV 26330**

Jeff A Propst

Digitally signed by: Jeff A Propst
DN: CN = Jeff A Propst email =
jeff.a.propst@wv.gov C = US
Date: 2026.03.25 15:54:09 -04'00'

LATITUDE :39°15'00"

SURFACE HOLE 3,925'

LATITUDE :39°17'30"

BOTTOM HOLE 10,263'



SURVEYOR/ENGINEER:
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

SURFACE HOLE LOCATION (SHL):

GEOGRAPHIC (NAD83):
LATITUDE: 39.217809°
LONGITUDE: -80.222185°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 262,268.282
EASTING: 1,763,890.049

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,341,235.712
EASTING: 567,145.799

LANDING POINT LOCATION (LPL):

GEOGRAPHIC (NAD83):
LATITUDE: 39.219215°
LONGITUDE: -80.221814°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 262,779.352
EASTING: 1,763,999.167

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,341,391.969
EASTING: 567,176.455

BOTTOM HOLE LOCATION (BHL):

GEOGRAPHIC (NAD83):
LATITUDE: 39.269332°
LONGITUDE: -80.244584°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 281,085.482
EASTING: 1,757,699.587

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,346,937.277
EASTING: 565,164.450



200' 0 200'

GRAPHIC SCALE IN FEET

SEE PAGE 2 FOR PLAT
SEE PAGE 3 FOR SURFACE OWNER TABLE

LINE	BEARING	DISTANCE
L1	N 43°15'36" E	424.04'
L2	S 63°41'17" W	391.11'
L3	S 79°27'06" W	386.19'
L4	N 65°31'53" W	97.56'
L5	N 24°19'18" E	270.85'
L6	S 12°03'51" W	522.42'

WELL RESTRICTIONS

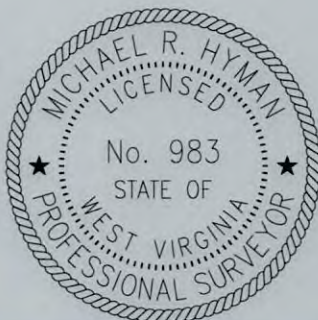
- ONE OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS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

NOTES ON SURVEY

- TIES TO WELLS AND CORNERS ARE BASED ON UTM, NAD83 DATUM, ZONE 17, US FT.
- WELL LAT./LONG. ESTABLISHED BY DIRECT GPS NAD '83.
- BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
- SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF BARBOUR COUNTY IN OCTOBER OF 2021.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

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

P.S. 983 *Michael R. Hyman* 03-20-2026



LONGITUDE: -80°12'30"
LONGITUDE: -80°12'30"



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

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

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

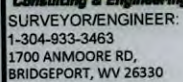
S.L.H. WELL PAD AND AST PAD

OPERATOR'S WELL #: #213H
API WELL #: 47 033 06111
STATE COUNTY PERMIT

WELL TYPE: OIL ☐ WASTE DISPOSAL ☐ PRODUCTION ☒ DEEP ☐ GAS ☒ LIQUID INJECTION ☐ STORAGE ☐ SHALLOW ☒
WATERSHED: WEST FORK ELEVATION: 1045
DISTRICT: Simpson-Outside District COUNTY: HARRISON QUADRANGLE: BROWNTON
SURFACE OWNER: JERRY R. NEWBROUGH ACREAGE: ±90.0
OIL & GAS ROYALTY OWNER: Chad W. Johnson, Betty Lee Stout, Charles Lloyd Stout, & Jennifer K Sprouse, Trustee of the Ruth Ann Kniceley Irrevocable Trust ACREAGE: ±90.0
DRILL ☒ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐ PERFORATE NEW FORMATION ☒
CONVERT ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY) 05/08/2026
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,305' TVD 27,037' TMD

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

LEGEND:	REVISIONS:	DATE:
PROPOSED SURFACE HOLE / BOTTOM HOLE	SURVEYED BOUNDARY	03-20-2026
EXISTING / PRODUCING WELLHEAD	DRILLING UNIT	FILE NO: 10-4254
LPL: LANDING POINT LOCATION	MINERAL TRACT BOUNDARY	DRAWN BY: TMF
	500' OFFSET LINE	SCALE: 1" = 2000'
	PROPOSED PATH	DRAWING NO: xxxxx
		WELL LOCATION PLAT 1



SURVEYOR/ENGINEER.
1-304-933-3463
1700 ANMOORE RD,
BRIDGEPORT, WV 26330

GEOGRAPHIC (NAD83):
LATITUDE: 39.217809°
LONGITUDE: -80.222185°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 262,268.282
EASTING: 1,763,890.049

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,341,235.712
EASTING: 567,145.799

GEOGRAPHIC (NAD83):
LATITUDE: 39.219215°
LONGITUDE: -80.221814°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 262,779.352
EASTING: 1,763,999.167

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,341,391.969
EASTING: 567,176.455

GEOGRAPHIC (NAD83):
LATITUDE: 39.269332°
LONGITUDE: -80.244584°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 281,085.482
EASTING: 1,757,699.587

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,346,937.277
EASTING: 565,164.450



REVISIONS:

COMPANY:



ARSENAL

RESOURCES

OPERATOR'S	S.L.H. WELL PAD AND AST PAD
------------	-----------------------------

WELL #: 47-033-06111 #213H

DISTRICT:
Simpson-Outside District

COUNTY:
HARRISON

STATE:
WV

DATE: 03-20-2026
10-4254

DRAWN BY: TMF

SCALE: N/A

DRAWING NO: xxxxx

WELL LOCATION PLAT 2

TAG	PARCEL	SURFACE OWNER / ROAD / RIVER	ACREAGE
A	17-15-370-25	JERRY R. NEWBROUGH	90.0
B	17-15-370-19	BARRY T. HATHAWAY	41.3
C	17-15-370-18	BARRY T. HATHAWAY	78.46
D	17-15-370-03	MARY M. TUCKER, etal	47.98
E	17-15-370-04-02	MARY M. TUCKER, etal	8.75
ROAD	N/A	GREEN VALLEY ROAD	N/A
F	17-15-370-04-01	MICHAEL D. & JAIMEE L. DEROSA	2.16
G	17-15-370-06-11	MICHAEL D. & JAIMEE L. DEROSA	0.83
ROAD	N/A	MOSS RUN ROAD	N/A
H	17-15-370-04-03	JOHN E. & SHAREN K. ROBINSON	7.83
I	17-15-370-05	MARY M. TUCKER, etal	41.55
J	17-15-350-20	AARON & SHERRI ZIRKLE	24.73
K	17-15-350-20-01	AARON & SHERRI ZIRKLE	4.86
L	17-15-350-0021	EDWARD G. ROLLINS, JR.	81.24
M	17-15-350-19	WACO OIL & GAS CO INC	221.28
N	17-15-350-09	GARY LEE, JR. & SHARON A. MARTIN	96.30
ROAD	N/A	RODA LANE	N/A
O	17-15-350-09-01	CHARLES E., IV & STEPHANIE L. COMPTON	12.25
P	17-15-350-01	JAMES & LETITIA KELLEY	61.24
Q	17-15-330-23	JOHN C. PAS	26.24
R	17-15-330-22-05	DAVID EVERETT & BARBARA M. ALLEN	3.84
ROAD	N/A	ISABELLA LANE	N/A
S	17-15-329-63	MEADOW CREST FARM LLC	49.06
T	17-15-329-63-02	PAUL RICHARD & JUDY DOUGLAS	0.48
U	17-15-329-63-01	PAUL RICHARD & JUDY DOUGLAS	0.64
ROAD	N/A	DOUGLAS DAIRY ROAD	N/A
V	17-15-329-52	JOHN J. & RUBY I. FRATT	0.52
W	17-15-329-51	MICHAEL R. JOHNSON	1.29
ROAD	N/A	WAYBACK LANE	N/A
X	17-15-329-49	BARBARA FORMAN	1.56
ROAD	N/A	HINKLE LAKE ROAD	N/A
Y	17-15-329-47-01	CAROLYN S. HARRON	6.98
Z	17-15-329-47-03	CAROLYN S. HARRON	24.56
A1	17-15-329-47	DAVID A. & TAMMERA L. FARIS	55.43
B2	17-15-329-32	DAVID A. & TAMMERA L. FARIS	33.15
C3	17-15-329-37	H. WOOD THRASHER	3.29
D4	17-15-329-34-03	ANNE BARTLETT	11.37
E5	17-15-329-68	ANNE FARIS & TROY BRENT BARTLETT	12.10

05/08/2026

REVISIONS:	COMPANY:		
	OPERATOR'S	S.L.H. WELL PAD AND AST PAD	
	WELL #:	47-033-0611 #213H	
	DISTRICT:	COUNTY:	STATE:
	Simpson-Outside District	HARRISON	WV
			DATE: 03-26-2026
			10-4254
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: xxxxx
			WELL LOCATION PLAT 3

Attachment to WW-6A1, SLH 213

Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
A	47-033-15-370-25	00003705	Harley M Reeder and Orba H Reeder Petroleum Development Corp PDC Mountaineer LLC	Petroleum Development Corp PDC Mountaineer LLC River Ridge Energy	1018 1440 59	77 364 1260	12.5%+	90
B	47-033-15-370-19	00004299	N D Parks ET UX ET AL Union Carbide Corp Creslenn Oil Company Delta Producing Corp Delta Petroleum Co R W Johnston M Roy Spielman Michael D Brown R L Eubanks Miles J Willard Delta Petroleum Co Delta Petroleum Co Petroleum Corporation of America Petroleum Development Corp Oil Discoveries Inc Oil Discoveries Inc Petroleum Corporation of America Ernest L Linthicum D/B/A/ Delta Petroleum Co Petroleum Development Corp Comet Investments LTD X-oil Drilling Partners Petroleum Development Corp PDC Mountaineer LLC	Union Carbide Corporation Creslenn Oil Company Delta Producing Corp Delta Petroleum Co R W Johnston M Roy Spielman Petroleum Corporation of America R L Eubanks Petroleum Corporation of America Petroleum Corporation of America Petroleum Corporation of America Petroleum Corporation of America Petroleum Development Corp Oil Discoveries Inc x-oil pdc jv x-oil pdc jv Petroleum Development Corp Petroleum Development Corp Comet Investments LTD Petroleum Development Corp Petroleum Development Corp PDC Mountaineer LLC River Ridge Energy	852 897 919 923 923 26 26 956 956 956 958 967 977 1068 1068 1068 1081 1083 1125 1262 1268 1440 59	563 286 740 65 146 217 221 146 149 153 118 575 165 73 173 696 1096 531 601 952 912 364 1260	12.5%+	250
C	47-033-15-370-18	00009682	BRIAN S LEESON	Mar Key LLC	1811	845	12.5%+	82
C	47-033-15-370-18	00009736	DAVID KEITH ODER	Mar Key LLC	1812	1284	12.5%+	82
D	47-033-15-370-3	00008897	CHARLES W CLEVINGER IRREV TRUST	Mar Key LLC	1723	813	12.5%+	109.4
E	47-033-15-370-4.2	00008964	SUSAN CAROLE CONLEY	Mar Key LLC	1744	1250	12.5%+	75.25
F	47-033-15-370-4.1							
G	47-033-15-370-6.11							
H	47-033-15-370-4.3							
E	47-033-15-370-4.2	00008978	ELIZABETH CONLEY DINGUS AKA DINGESS	Mar Key LLC	1747	919	12.5%+	75.25
F	47-033-15-370-4.1							
G	47-033-15-370-6.11							
H	47-033-15-370-4.3							

RECEIVED
Office of Oil and Gas
APR 03 2026
WV Department of
Environmental Protection

Attachment to WW-6A1, SLH 213

Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
E	47-033-15-370-4.2	00008979	JOSEPH EDWARD CONLEY	Mar Key LLC	1747	921	12.5%+	75.25
F	47-033-15-370-4.1							
G	47-033-15-370-6.11							
H	47-033-15-370-4.3							
ROAD			GREEN VALLEY	ROAD				
ROAD			MOSS RUN	ROAD				
I	47-033-15-370-5		ROYALTY OWNER SUBJECT TO	UNITIZATION FILING	N/A	N/A	N/A	N/A
J, K	47-033-15-350-20 47-033-15-350-20.1	00009847	George D Kirkpatrick	Mar Key LLC	1815	596	12.5%+	30.45
J, K	47-033-15-350-20 47-033-15-350-20.1	00009848	Ryan D Kirkpatrick	Mar Key LLC	1815	598	12.5%+	30.45
J, K	47-033-15-350-20 47-033-15-350-20.1	00009858	Gerald L Kirkpatrick	Mar Key LLC	1815	600	12.5%+	30.45
J, K	47-033-15-350-20 47-033-15-350-20.1	00009863	Colleen Anne Wood-Smith	Mar Key LLC	1815	604	12.5%+	30.45
L	47-033-15-350-21	00008222	RALPH L MCDONALD ET UX	Mar Key LLC	1611	621	12.5%+	393.9
L	47-033-15-350-21	00008226	KEVIN L MCDONALD	Mar Key LLC	1611	631	12.5%+	393.9
L	47-033-15-350-21	00008283	ALMA L CARSON	Mar Key LLC	1615	748	12.5%+	393.9
L	47-033-15-350-21	00008284	M RUTH CUTLIP	Mar Key LLC	1615	758	12.5%+	393.9
L	47-033-15-350-21	00008285	TRACY H MCDONALD	Mar Key LLC	1615	768	12.5%+	393.9
L	47-033-15-350-21	00008286	GLORIA GLOVER MCDONALD LIFE ESTATE	Mar Key LLC	1615	778	12.5%+	393.9
M	47-033-15-350-19	00008352	GEORGE T FARIS ET AL	Delaware Gas Company	820	128	12.5%+	1528.9
Y	47-033-15-329-47.1							
Z	47-033-15-329-47.3							
A1	47-033-15-329-47							
B2	47-033-15-329-32							
			Delaware Gas Company Creslenn Oil Company	Creslenn Oil Company Deminex Oil Corporation	897 SEE DELAWARE SEC	279 OF STATE SITE		

Docket/
Cause
455-590

Attachment to WW-6A1, SLH 213

Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
			Deminex Oil Corporation	Deminex U.S. Oil Company	SEE DELAWARE SEC	OF STATE SITE		
			Deminex U.S. Oil Company	Southwest Exploration And Acquisition Company	SEE DELAWARE SEC	OF STATE SITE		
			Southwest Exploration And Acquisition Company	Southwest Royalties Inc	SEE DELAWARE SEC	OF STATE SITE		
			Southwest Royalties Inc	HG Energy II Appalachia	1605	194		
			HG Energy II Appalachia	Mar Key, LLC	1611	595		
			HG Energy II Appalachia	Mar Key, LLC	1739	555		
Z, A1, B2	47-033-15-329-47.3 47-033-15-329-47 47-033-15-329-32	00003643	SALLIE FARIS ET AL	Hope Natural Gas	347	441	12.5%+	376
			Hope Natural Gas	CNG Producing Co	1277	699		
			CNG Producing Co	Dominion Exploration & Prod	58	366		
			Dominion Exploration & Prod	Antero Resources Appalachian	1423	1068		
			Dominion Exploration & Prod	Dominion Transmission Inc	1457	978		
			Dominion Transmission Inc	CONSOL Energy Holdings LLC	1458	299		
			CONSOL Energy Holdings LLC	CONSOL Gas Co	59	1019		
			CONSOL Gas Co	CNX	1472	294		
			CNX	Antero Resources Appalachian	1479	628		
			CNX	Antero Resources Appalachian	1480	731		
			Antero Resources Appalachian	Mar Key LLC	1785	1112		
N O P	47-033-15-350-09 47-033-15-350-09.1 47-033-15-350-01	00003533	LUCY C DUNKIN ET AL	Union Carbide Corporation	845	615	12.5%+	171.62
			Union Carbide Corp	Creslenn Oil Company	897	286		
			Creslenn Oil Company	Delta Producing Corp	919	740		
			Delta Producing Corp	Delta Petroleum Co	923	65		
			Delta Petroleum Co	R W Johnston	923	146		
			R W Johnston	M Roy Spielman	26	217		
			M Roy Spielman	Petroleum Corporation of America	26	221		
			Michael D Brown	R L Eubanks	956	146		
			R L Eubanks	Petroleum Corporation of America	956	149		

RECEIVED
Office of Oil and Gas
APR 03 2026
WV Department of
Environmental Protection

Attachment to WW-6A1, SLH 213

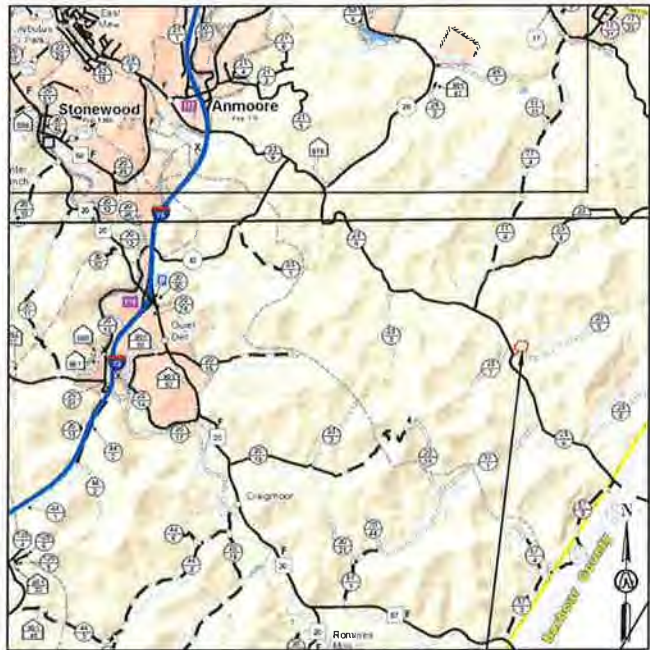
Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
			Miles J Willard	Petroleum Corporation of America	956	153		
			Delta Petroleum Co	Petroleum Corporation of America	958	118		
			Delta Petroleum Co	Petroleum Corporation of America	967	575		
			Petroleum Corporation of America	Petroleum Development Corp	977	165		
			Petroleum Development Corp	Oil Discoveries Inc	1068	73		
			Oil Discoveries Inc	x-oil pdc jv	1068	173		
			Oil Discoveries Inc	x-oil pdc jv	1068	696		
			Petroleum Corporation of America	Petroleum Development Corp	1081	1096		
			Ernest L Linthicum D/B/A/ Delta Petroleum Co	Petroleum Development Corp	1083	531		
			Petroleum Development Corp	Comet Investments LTD	1125	601		
			Comet Investments LTD	Petroleum Development Corp	1262	952		
			X-oil Drilling Partners	Petroleum Development Corp	1268	912		
			Petroleum Development Corp	PDC Mountaineer LLC	1440	364		
			PDC Mountaineer LLC	River Ridge Energy	59	1260		
ROAD			RODA	LANE				
Q	47-033-15-330-23	00008349	ELLA WELCH ET AL	Delaware Gas Company	845	474	12.5%+	107.94
R	47-033-15-330-22.5							
V	47-033-15-329-52							
W	47-033-15-329-51							
X	47-033-15-329-49							
			Delaware Gas Company	Creslenn Oil Company	897	279		
			Creslenn Oil Company	Deminex Oil Corporation	See Delaware Secretary of State Site			
			Deminex Oil Corporation	Deminex U.S. Oil Company	See Delaware Secretary of State Site			
			Deminex U.S. Oil Company	Southwest Exploration And Acquisition Company	See Delaware Secretary of State Site			
			Southwest Exploration And Acquisition Company	Southwest Royalties Inc	See Delaware Secretary of State Site			
			Southwest Royalties Inc	HG Energy II Appalachia	1605	194		
			HG Energy II Appalachia	Mar Key, LLC	1611	595		
			HG Energy II Appalachia	Mar Key, LLC	1739	555		
ROAD			ISABELLA	LANE				
S	47-033-15-329-63	00003679	G LESTER DOUGLAS ET UX	Petroleum Development Corp	1146	113	12.5%+	66.03
T	47-033-15-329-63.2							
			Petroleum Development Corp	PDC Mountaineer LLC	1440	364		
			PDC Mountaineer LLC	River Ridge Energy	59	1260		

Attachment to WW-6A1, SLH 213

Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
U	47-033-15-329-63.1	00009762	PAUL R & JUDY DOUGLAS	Mar Key LLC	1813	524	12.5%+	0.57
ROAD			DOUGLAS DAIRY	ROAD				
ROAD			WAYBACK	LANE				
ROAD			HINKLE LAKE	ROAD				
C3	47-033-15-329-37	00003643	SALLIE FARIS ET AL	Hope Natural Gas Company	347	441	12.5%+	376
D4	47-033-15-329-34.3							
E5	47-033-15-329-68							
			Hope Natural Gas Company	Petroleum Development Corp	1141	952		
			Hope Natural Gas Company	CNG Producing Company	1277	699		
			CNG Producing Company	Dominion Exploration & Production	58	366		
			Dominion Exploration & Production	Dominion Transmission	1457	978		
			Dominion Transmission	CONSOL Energy Holdings	1458	299		
			CONSOL Energy Holdings	CONSOL Gas Company	59	1019		
			CNX Gas Company sucessor to CONSOL	Antero Resources Appalachian	1479	628		
			Antero Resources Appalachian	Antero Resources Corp	2	914		
			Antero Resources Corp	Mar Key LLC	1785	1112		

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

RECEIVED
Office of Oil and Gas
APR 03 2025
WV Department of
Environmental Protection



PROJECT LOCATION
VICINITY MAP
HARRISON COUNTY, WV
GENERAL HIGHWAY MAP

DRIVING DIRECTIONS

- 1) Starting at the Intersection of WV-58 & I-79, Head east on WV-58 / Anmoore Rd., 0.3 miles
- 2) Turn left onto Philippi Pike / County Hwy-23/9, 5.4 miles
- 3) Arrive at S.L.H. Well Pad Access Rd., Brushy Fork Rd. / Philippi Pike



PERMITTING PLANS FOR S.L.H. WELL PAD & AST PAD PROPOSED WELL #'s 211, 212, 213, 214, & 215 HARRISON COUNTY, WV MAY 2025

*Site Permit
5-15-2025*

SITUATE ON THE WATERS OF THE WEST FORK
IN SIMPSON-OUTSIDE DISTRICT, HARRISON COUNTY, WEST VIRGINIA.

LOCATION COORDINATES

ACCESS ROAD ENTRANCE:			
LATITUDE: 39.216882° N	LONGITUDE: 80.223205° W	(DECIMAL DEGREES)	
LATITUDE: 39°13' 00.77" N	LONGITUDE: 80° 13' 23.54" W	(DEGREES*MINUTES*SECONDS)	
NORTHING: 261932.8085	EASTING: 1763598.3184	(WV SP-83, FEET)	
NORTHING: 4340913.213	EASTING: 567043.885	(UTM ZONE 17, METERS)	
WELL PAD CENTER:			
LATITUDE: 39.217681° N	LONGITUDE: 80.221747° W	(DECIMAL DEGREES)	
LATITUDE: 39°13' 03.65" N	LONGITUDE: 80°13' 18.29" W	(DEGREES*MINUTES*SECONDS)	
NORTHING: 262220.7918	EASTING: 1764013.7557	(WV SP-NAD83, FEET)	
NORTHING: 4341221.870	EASTING: 567183.729	(UTM ZONE 17, METERS)	

S.L.H. WELL PAD SURFACE HOLE LOCATIONS							
WELL NUMBER	STATE PLANE (NAD83) N	STATE PLANE (NAD83) E	UTM (NAD83) N (METER)	UTM (NAD83) E (METER)	LATITUDE (NAD83)	LONGITUDE (NAD83)	PROPOSED ELEVATION
211	262251.996	1763864.856	4341230.623	567138.206	39 21 77.64	80 22 22.73	1045.00
212	262260.059	1763877.505	4341233.143	567142.019	39 21 77.86	80 22 22.29	1045.00
213	262268.122	1763890.154	4341235.664	567145.832	39 21 78.09	80 22 21.85	1045.00
214	262276.185	1763902.802	4341238.184	567149.645	39 21 78.31	80 22 21.40	1045.00
215	262284.248	1763915.451	4341240.705	567153.457	39 21 78.53	80 22 20.96	1045.00

LIMITS OF DISTURBANCE BY PROPERTY

PROPERTY#	PROPERTY OWNER	ACRES DISTURBED
TAX MAP 370, PARCEL 19.1	JERRY R. NEWBROUGH	0.34 AC
TAX MAP 370, PARCEL 25, TRACT 2	JERRY R. NEWBROUGH	9.13 AC
PHILLIPI PIKE R.O.W.	WEST VIRGINIA DEPT. OF HIGHWAYS	0.12 AC

TOTAL LIMITS OF DISTURBANCE: 9.59 ACRES

SHEET INDEX

No.	DESCRIPTION
1	COVER
2-4	GENERAL NOTES
5	EXISTING CONDITIONS
6A	OVERALL SITE GRADING & ESC PLAN
6B	DETAILED SITE GRADING PLAN
7	ACCESS ROAD PROFILE
8	SUMP & CULVERT PROFILES
9	WELL PAD BASELINE PROFILE
10-20	CROSS SECTIONS
21	RECLAMATION PLAN
22-28	DETAILS

TOPOGRAPHIC INFORMATION:

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE NAD83
WEST VIRGINIA STATE PLANES, NORTH ZONE, IN U.S. SURVEY FEET.



PROJECT LOCATION
LOCATION MAP
BROWNTON QUADRANGLE MAP

LEGEND

EXISTING CONTOURS	PROPOSED CONTOURS
EXISTING PROPERTY LINES	PROPOSED EDGE OF ROAD
EXISTING RIGHT OF WAY	PROPOSED SMART FENCE HD
EXISTING PAVED ROAD	AOI
EXISTING ROCK LINED DITCH	PROPOSED AREA OF INTEREST
EXISTING EDGE OF GRAVEL	PROPOSED LIMITS OF DISTURBANCE
EXISTING EDGE OF CONCRETE	PROPOSED WELL PAD UNDERDRAIN
EXISTING CENTER LINE OF ROAD	PROPOSED WELL PAD EDGE
EXISTING BUILDING	PROPOSED STOCKPILE EDGE
EXISTING GATE / POST	PROPOSED EARTHEN BERM
EXISTING FENCE LINE	PROPOSED CUT
EXISTING TREE LINE	PROPOSED CUT FILL INTERFACE
EXISTING DITCH	PROPOSED FENCE LINE
EXISTING WETLAND	PROPOSED SUMP OUTLET
EXISTING STREAM	PROPOSED CULVERT
EXISTING GAS LINE	PROPOSED ROCK LINED DITCH
EXISTING WATER LINE	PROPOSED BLIND DITCH
EXISTING OVERHEAD ELECTRIC	
EXISTING GUY WIRE	
EXISTING POWER POLE	
EXISTING BOREHOLE LOCATION	

UTILITY CONTACTS:

HOPE GAS:
48 COLUMBIA BLVD
CLARKSBURG, WV 26301
TYLER HITT
PHONE: (681)-209-6740
EMAIL: JAMES.T.HITT@HOPEGAS.COM

FRONTIER COMMUNICATIONS:
483 BRUSHY FORK RD.
BRIDGEPORT, WV 26330
JASON LEMLEY
PHONE: (304) 622-1665
EMAIL: JASON.D.LEMLEY@FTR.COM

HARRISON RURAL ELECTRIC:
2100 SUN VALLEY RD.
CLARKSBURG, WV 26301
DONALD RUTTER
PHONE: (304)-677-6174
EMAIL: DONALD@HREA.COOP

911 EMERGENCY ADDRESS:
S.L.H. WELL PAD
4795 BRUSHY FORK RD.
BRIDGEPORT, WV 26330

LOCAL EMERGENCY SERVICES

NAME	NUMBER
AMBULANCE	911
HOSPITAL EMERGENCY ROOM	(681) 342 - 1100
FIRE DEPARTMENT	911
POLICE DEPARTMENT	911
POISON CONTROL CENTER	(800) 222 - 1222

PROJECT CONTACTS:

ENGINEER:
MICHAEL NESTOR, PE
ASCENT CONSULTING & ENGINEERING
1700 ANMOORE ROAD
BRIDGEPORT, WV 26330
PHONE: (304) 933 - 3463
EMAIL: MNESTOR@ASCENTWV.COM

CONSTRUCTION SUPERINTENDENT:
JONATHAN GEARY
ARSENAL RESOURCES
6031 WALLACE ROAD EXT., SUITE 200
WEXFORD, PA 15090
PHONE: (304) 688 - 9384
EMAIL: JGEARY@ARSENALRESOURCES.COM



MISS UTILITY OF WEST VIRGINIA
1-800-245-4848
WEST VIRGINIA STATE LAW
(SECTION XIV, CHAPTER 24-C)
REQUIRES THAT YOU CALL TWO
BUSINESS DAYS BEFORE YOU DIG IN
THE STATE OF WEST VIRGINIA.
IT'S THE LAW!!!



LOCATION MAP NOT TO SCALE

NO.	DATE	DESCRIPTION
6		
5		
4		
3		
2		
1		

PREPARED FOR:
ARSENAL RESOURCES, LLC
6031 WALLACE ROAD EXT., SUITE 200
WEXFORD, PA 15090
WWW.ARSENALRESOURCES.COM
(724) 940 - 1100



PROJECT NUMBER:	4254	DRAWN:	EMS
DATE:	5/1/2025	DESIGN:	EMS
SCALE:	AS SHOWN	CHECKED:	MRN

CONSTRUCTION PLANS FOR
ARSENAL RESOURCES
S.L.H. WELL PAD & AST PAD
HARRISON COUNTY, WV

TITLE:	COVER SHEET
PLAN STATUS:	PERMITTING
SHEET NO.	1