



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 214
47-033-06112-00-00

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 214
Farm Name: JERRY R NEWBROUGH
U.S. WELL NUMBER: 47-033-06112-00-00
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: Arsenal Resources 494519412 Harrison Simpson Brownton
Operator ID County District Quadrangle

2) Operator's Well Number: SLH 214 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 X Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow X Deep _____
Horizontal X

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: 28,233'

11) Proposed Horizontal Leg Length: 20,336'

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 X

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

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

Digitally signed by: Jeff A Propst
DN: CN = Jeff A Propst
email = jeff.a.propst@wv.gov, C = US
Date: 2026.03.23 14:10:01 -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	28,233	28,233	TOC @ 1,350
Tubing							
Liners							

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Propst

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DN: CN = Jeff A Propst email = jeff.a.propst@wv.gov C = US
Date: 2026.03.23 14:09:57 -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.

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.59

APR 03 2026

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

WV Department of
Environmental Protection

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 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.

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 14:09:51 -
0400

Area of Review Report - SLH Pad, 214 Lateral, Harrison County, WV

Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
Reeder 1	033-01219	WV Mineral Group, LLC	Existing	39.219323	-80.217086	4,550	Benson	Balltown, Bradford
James C Parks 4	033-03602	WV Mineral Group, LLC	Existing	39.223119	-80.221192	4,477	Benson	None
Faris Heirs 1004	033-00530	WV Mineral Group, LLC	Existing	39.249076	-80.231192	1,470	Big Injun	Keener
George Faris 3	033-00503	WV Mineral Group, LLC	Existing	39.250103	-80.231476	4,450	Brallier	Fifth, Big Injun, Keener
G T Farris et al 1	033-00213	NA	Plugged	39.262439	-80.236143	2,362	Fifth	Fifty-foot, Big Injun, Freeport Ss
H Garrett Hrs 5	033-00223	Alexander Production Company	Existing	39.28058	-80.428987	1,342	Big Injun	None
Mary D Faris 34	033-03387	Diversified Production, LLC	Existing	39.263914	-80.238362	4,397	Benson	None
Robert Faris 36	033-03408	Diversified Production, LLC	Existing	39.266669	-80.240229	4,423	Benson	None
Robert Faris 29	033-03108	Diversified Production, LLC	Existing	39.272905	-80.241164	4,410	Benson	Fifth, Keener

NA - not applicable

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APR 03 2026
WV Department of
Environmental Protection



ARSENAL
R E S O U R C E S

SITE SAFETY PLAN

SLH Well Pad

911 Address:

**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'



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

SURFACE HOLE LOCATION (SHL):

GEOGRAPHIC (NAD83):
LATITUDE: 39.217831°
LONGITUDE: -80.222140°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 262,276.185
EASTING: 1,763,902.802

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,341,238.187
EASTING: 567,149.663

LANDING POINT LOCATION (LPL):

GEOGRAPHIC (NAD83):
LATITUDE: 39.220342°
LONGITUDE: -80.217833°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 263,181.042
EASTING: 1,765,130.371

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,341,520.073
EASTING: 567,519.063

BOTTOM HOLE LOCATION (BHL):

GEOGRAPHIC (NAD83):
LATITUDE: 39.272986°
LONGITUDE: -80.241748°

SPCS (NAD83, WV NORTH, FEET):
NORTHING: 282,409.708
EASTING: 1,758,513.598

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,347,344.848
EASTING: 565,405.739

LINE	BEARING	DISTANCE
L1	N 43°45'57" E	438.56'
L2	S 63°29'10" W	406.05'
L3	S 78°40'25" W	400.21'
L4	S 73°17'28" E	106.11'
L5	N 22°28'02" E	258.53'
L6	N 53°37'03" E	1,525'

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

03-20-2026



(+) 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
SOURCE OF
ELEVATION:

SURVEY
GRADE GPS
(NAVD 88, US FT)

S.L.H. WELL PAD AND AST PAD

OPERATOR'S WELL #: #214H

API WELL #: 47 033 06112
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' TMD 28,233' TMD

WELL OPERATOR: ARSENAL RESOURCES
ADDRESS: 6031 WALLACE RD. EXT. SUITE 200
CITY: WEXFORD, STATE: PA ZIP CODE: 15090

DESIGNATED AGENT: ERIC MORRIS
ADDRESS: 633 WEST MAIN STREET
CITY: BRIDGEPORT STATE: WV ZIP CODE: 26330

LEGEND:
● PROPOSED SURFACE HOLE / BOTTOM HOLE
* EXISTING / PRODUCING WELLHEAD
LPL* LANDING POINT LOCATION
— SURVEYED BOUNDARY
— DRILLING UNIT
— MINERAL TRACT BOUNDARY
— 500' OFFSET LINE
— PROPOSED PATH

REVISIONS:
DATE: 03-20-2026
FILE NO: 10-4254
DRAWN BY: TMF
SCALE: 1" = 2000'
DRAWING NO: xxxxx
WELL LOCATION PLAT 1

TAG	PARCEL	SURFACE OWNER / ROAD / RIVER	ACREAGE
1	17-15-370-25-00	JERRY R. NEWBROUGH	82.51
2	17-15-370-20-00	JOEL C. KIRK	104.85
3	17-15-370-19-00	BARRY T. HATHAWAY	38.91
4	17-15-370-18-00	BARRY T. HATHAWAY	78.46
5	17-15-370-07-00	MARY M. TUCKER ETAL	42.40
ROAD	N/A	GREEN VALLEY ROAD	N/A
6	17-15-370-07-03	DOUGLAS R, HARVEY	1.94
7	17-15-370-06-05	DOUGLAS R. & THELMA L. & SHANNON M. HARVEY	32.78
8	17-15-370-06-03	RICHARD C. & CYNTHIA A. ALLEN	10.71
9	17-15-370-06-01	RICHARD C. & CYNTHIA A. ALLEN	2.97
10	17-15-370-06-07	AARON & SYDNEY RHOADES	5.19
ROAD	N/A	MOSS RUN ROAD	N/A
11	17-15-350-20-00	AARON & SHERRI ZIRKLE	24.73
12	17-15-350-21-01	DONNA BOWERS	2.41
13	17-15-350-21-00	EDWARD G. ROLLINS, JR.	79.87
14	17-15-350-10-00	JOHN C. ROLLINS	29.52
ROAD	N/A	RODA LANE	N/A
15	17-15-350-09-00	GARY LEE, JR. & SHARON A. MARTIN	96.27
16	17-15-350-02-00	JAMES P & COURTNEY PHILLIPS	158.49
17	17-15-330-24-00	JAMES P. & COURTNEY L. PHILLIPS	162.91
18	17-15-330-23-00	JOHN C. PAS	26.24
19	17-15-330-22-02	BRENT RANDON BLARE	5.69
20	17-15-330-22-03	LARRY REEL	5.54
21	17-15-330-20-00	EARL EUGENE & DEBORAH ANN FINDLEY	8.81
22	17-15-330-19-00	EARL EUGENE FINDLEY ETUX	9.89
23	17-15-330-18-01	EARL EUGENE & DEBORAH ANN FINDLEY	10.12
24	17-15-330-24-01	CAROLYN S. HARRON	30.26
ROAD	N/A	DOUGLAS RUN ROAD	N/A
25	17-16-2423-69-00	MARY FRANCES SMITH ETAL	1.04
ROAD	N/A	BRIARWOOD DRIVE	N/A
26	17-16-2423-83-00	TIMOTHY E. & JOLIE P. CARTER	0.55
27	17-15-330-02-01	JOHN W. EBERT & CYNTHIA M. EBERT & GRACE C. EBERT	6.54
28	17-15-330-02-02	JAMES R. OLIVERIO ETUX (LE) (SAMUEL J PATSY ETUX)	3.16
29	17-15-329-38-00	JOHN & CYNTHIA EBERT	72.82
30	17-15-329-38-01	DAVID A. & TAMMERA L. FARIS	76.33
31	17-15-309-75-01	DAVID A. & TAMMERA L. FARIS	33.02
32	17-15-309-75-00	DAVID A. & TAMMERA L. FARIS	72.57

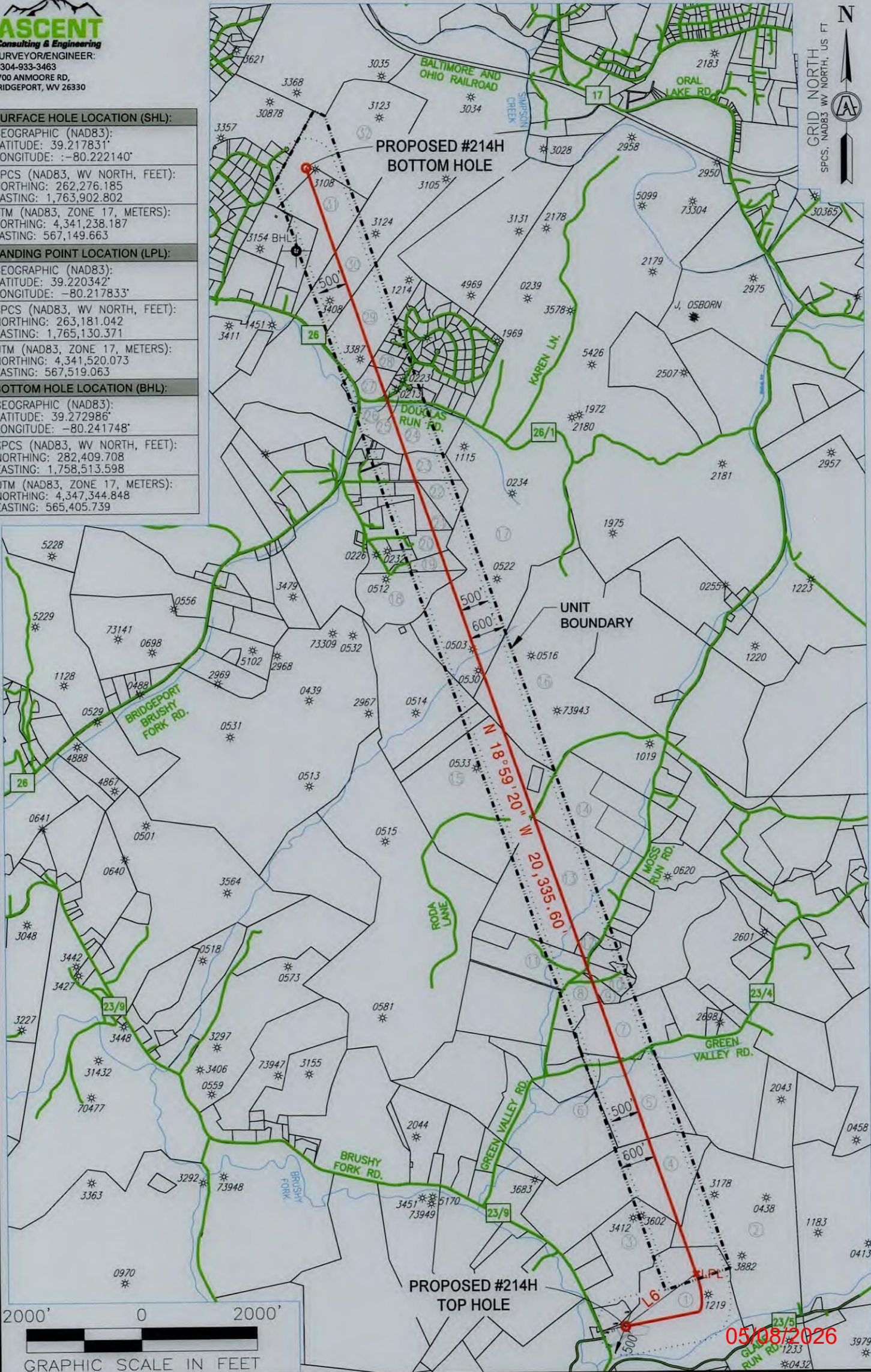
05/08/2026

REVISIONS:	COMPANY:		
	OPERATOR'S	S.L.H. WELL PAD AND AST PAD	
	WELL #:	47-033-06112 #214H	
	DISTRICT:	COUNTY:	STATE:
	Simpson-Outside District	HARRISON	WV
			DATE: 03-20-2026
			10-4254
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: xxxxx
			WELL LOCATION PLAT 2



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

SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 39.217831°	
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EASTING: 565,405.739	



REVISIONS:	

COMPANY:			
OPERATOR'S		S.L.H. WELL PAD AND AST PAD	
WELL #:		47-D33-D6112 #214H	
DISTRICT:		COUNTY:	STATE:
Simpson-Outside District		HARRISON	WV
DATE:		03-25-2026	
DRAWN BY:		TMF	
SCALE:		N/A	
DRAWING NO:		xxxxx	
WELL LOCATION PLAT		2	

Attachment to WW-6A1, SLH 214

Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
1	47-033-15-370-25	00003705	Harley M Reeder and Orba H Reeder	Petroleum Development Corp	1018	77	12.5%+	90
			Petroleum Development Corp	PDC Mountaineer LLC	1440	364		
			PDC Mountaineer LLC	River Ridge Energy	59	1260		
2	47-033-15-370-20	00009465	JOEL C KIRK	Mar Key LLC	1800	990	12.5%+	103.95
2	47-033-15-370-20	00009479	AMY K LUSTIG	Mar Key LLC	1802	348	12.5%+	103.95
2	47-033-15-370-20	00009480	LAUREN LUSTIG	Mar Key LLC	1802	352	12.5%+	103.95
2	47-033-15-370-20	00009483	DANIEL G LUSTIG	Mar Key LLC	1802	357	12.5%+	103.95
2	47-033-15-370-20	00009484	SUSAN G LUSTIG	Mar Key LLC	1802	359	12.5%+	103.95
2	47-033-15-370-20	00009499	BENJAMIN J LUSTIG	Mar Key LLC	1802	281	12.5%+	103.95
2	47-033-15-370-20	00009500	KURT LUSTIG	Mar Key LLC	1802	236	12.5%+	103.95
2	47-033-15-370-20	00009507	DAVID LUSTIG	Mar Key LLC	1805	61	12.5%+	103.95
2	47-033-15-370-20	00009510	RICHARD LUSTIG	Mar Key LLC	1805	252	12.5%+	103.95
3	47-033-15-370-19	00004299	N D Parks ET UX ET AL	Union Carbide Corporation	852	563	12.5%+	250
			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		
			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 jy	1068	173		
			Oil Discoveries Inc	x-oil pdc jy	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		

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

Attachment to WW-6A1, SLH 214

Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
			Petroleum Development Corp	PDC Mountaineer LLC	1440	364		
			PDC Mountaineer LLC	River Ridge Energy	59	1260		
4	47-033-15-370-18	00009682	BRIAN S LEESON	Mar Key LLC	1811	845	12.5%+	82
4	47-033-15-370-18	00009736	DAVID KEITH ODER	Mar Key LLC	1812	1284	12.5%+	82
5	47-033-15-370-7		ROYALTY OWNER SUBJECT TO	UNITIZATION FILING	N/A	N/A	N/A	N/A
ROAD GREEN VALLEY ROAD								
6	47-033-15-370-7.3		ROYALTY OWNER SUBJECT TO	UNITIZATION FILING	N/A	N/A	N/A	N/A
7	47-033-15-370-6.5	00008222	RALPH L MCDONALD ET UX	Mar Key LLC	1611	621	12.5%+	393.9
8	47-033-15-370-6.3							
9	47-033-15-370-6.1							
10	47-033-15-370-6.7							
12	47-033-15-370-21.1							
13	47-033-15-370-21							
7	47-033-15-370-6.5	00008226	KEVIN L MCDONALD	Mar Key LLC	1611	631	12.5%+	393.9
8	47-033-15-370-6.3							
9	47-033-15-370-6.1							
10	47-033-15-370-6.7							
12	47-033-15-370-21.1							
13	47-033-15-370-21							
7	47-033-15-370-6.5	00008283	ALMA L CARSON	Mar Key LLC	1615	748	12.5%+	393.9
8	47-033-15-370-6.3							
9	47-033-15-370-6.1							
10	47-033-15-370-6.7							
12	47-033-15-370-21.1							
13	47-033-15-370-21							
7	47-033-15-370-6.5	00008284	M RUTH CUTLIP	Mar Key LLC	1615	758	12.5%+	393.9
8	47-033-15-370-6.3							
9	47-033-15-370-6.1							
10	47-033-15-370-6.7							
12	47-033-15-370-21.1							
13	47-033-15-370-21							

Docket/
Cause
455-592

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Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
7	47-033-15-370-6.5	00008285	TRACY H MCDONALD	Mar Key LLC	1615	768	12.5%+	393.9
8	47-033-15-370-6.3							
9	47-033-15-370-6.1							
10	47-033-15-370-6.7							
12	47-033-15-370-21.1							
13	47-033-15-370-21							
7	47-033-15-370-6.5	00008286	GLORIA GLOVER MCDONALD LIFE ESTATE	Mar Key LLC	1615	778	12.5%+	393.9
8	47-033-15-370-6.3							
9	47-033-15-370-6.1							
10	47-033-15-370-6.7							
12	47-033-15-370-21.1							
13	47-033-15-370-21							
ROAD			MOSS RUN	ROAD				
11	47-033-15-350-20	00009847	George D Kirkpatrick	Mar Key LLC	1815	596	12.5%+	30.45
11	47-033-15-350-20	00009848	Ryan D Kirkpatrick	Mar Key LLC	1815	598	12.5%+	30.45
11	47-033-15-350-20	00009858	Gerald L Kirkpatrick	Mar Key LLC	1815	600	12.5%+	30.45
11	47-033-15-350-20	00009863	Colleen Anne Wood-Smith	Mar Key LLC	1815	604	12.5%+	30.45
14	47-033-15-350-10	00009737	DAVID W LAWMAN	Mar Key LLC	1812	1316	12.5%+	39.205
14	47-033-15-350-10	00008587	IRREVOCABLE TRUST OF W DAVID TETER	Mar Key LLC	1629	171	12.5%+	56.62
14	47-033-15-350-10	00008052	SUZANNE M HORNOR	Mar Key LLC	1606	367	12.5%+	56.62
ROAD			RODA	LANE				
15	47-033-15-350-9	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		
			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		

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Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
			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		
16	47-033-15-350-2	00008352	GEORGE T FARIS ET AL	Delaware Gas Company	820	128	12.5%+	1528.9
17	47-033-15-330-24							
24	47-033-15-330-24.1							
25	47-033-16-2423-69							
26	47-033-16-2423-83							
27	47-033-15-330-2.1							
28	47-033-15-330-2.2							
29	47-033-15-329-38							
			Delaware Gas Company	Creslenn Oil Company	897	279		
			Creslenn Oil Company	Deminex Oil Corporation	SEE	OF		
					DELAWARE	STATE		
					ARE	SITE		
					SEC			
			Deminex Oil Corporation	Deminex U.S. Oil Company	SEE	OF		
					DELAWARE	STATE		
					ARE	SITE		
					SEC			
			Deminex U.S. Oil Company	Southwest Exploration And Acquisition Company	SEE	OF		
					DELAWARE	STATE		
					ARE	SITE		
					SEC			

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Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
			Southwest Exploration And Acquisition Company	Southwest Royalties Inc	SEE DELAW ARE SEC	OF STATE SITE		
			Southwest Royalties Inc HG Energy II Appalachia HG Energy II Appalachia	HG Energy II Appalachia Mar Key, LLC Mar Key, LLC	1605 1611 1739	194 595 555		
18	47-033-15-330-23	00008349	ELLA WELCH ET AL	Delaware Gas Company	845	474	12.5%+	107.94
19	47-033-15-330-22.2							
20	47-033-15-330-22.3							
21	47-033-15-330-20							
22	47-033-15-330-19							
23	47-033-15-330-18.1							
			Delaware Gas Company Creslenn Oil Company	Creslenn Oil Company Deminex Oil Corporation	897 SEE DELAW ARE SEC	279 OF STATE SITE		
			Deminex Oil Corporation	Deminex U.S. Oil Company	SEE DELAW ARE SEC	OF STATE SITE		
			Deminex U.S. Oil Company	Southwest Exploration And Acquisition Company	SEE DELAW ARE SEC	OF STATE SITE		
			Southwest Exploration And Acquisition Company	Southwest Royalties Inc	SEE DELAW ARE SEC	OF STATE SITE		
			Southwest Royalties Inc HG Energy II Appalachia HG Energy II Appalachia	HG Energy II Appalachia Mar Key, LLC Mar Key, LLC	1605 1611 1739	194 595 555		
ROAD			DOUGLAS RUN	ROAD				

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Tag	Parcel #	Lease #	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Book	Page	Royalty	Acreage
ROAD			BRIARWOOD	DRIVE				
29	47-033-15-329-38	00003643	SALLIE FARIS ET AL	Hope Natural Gas Company	347	441	12.5%+	376
30	47-033-15-329-38.1							
31	47-033-15-329-75.1							
32	47-033-15-329-75							
			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