



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, March 7, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

ARSENAL RESOURCES LLC
6031 WALLACE RD. EXTENSION
WEXFORD, PA 15090

Re: Permit approval for 216
47-091-01366-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

A blue ink signature of James A. Martin.

James A. Martin
Chief

Operator's Well Number: 216
Farm Name: ROBERT L & JULIE A ARMS
U.S. WELL NUMBER: 47-091-01366-00-00
Horizontal 6A New Drill
Date Issued: 3/7/2022

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: _____

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

03/11/2022

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

1) Well Operator: Arsenal Resources 494519412 Taylor Court H_q Grafton
Operator ID County District Quadrangle

2) Operator's Well Number: Armstrong II 216 Well Pad Name: Armstrong II

3) Farm Name/Surface Owner: Robert and Julie Armstong Public Road Access: CR13, CR 36 (Long Run Road) CR36/3

4) Elevation, current ground: 1288 Elevation, proposed post-construction: 1293'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____
(b) If Gas Shallow Deep _____
Horizontal

6) Existing Pad: Yes or No No, Adjacent to existing pad

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation - Marcellus Shale, Top = 7,682ft, Bottom-7,778ft, Anticipated Thickness = 96ft, Associated Pressure 0.5psi/ft

8) Proposed Total Vertical Depth: 7,789 ft

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 22,382 ft

11) Proposed Horizontal Leg Length: 13,837ft

12) Approximate Fresh Water Strata Depths: 30', 100', 150', 250', 850'

13) Method to Determine Fresh Water Depths: Offset wells reported water depths (091-01116, 091-00912, 091-01122, 091-01123, 091-01228, 091-00803)

14) Approximate Saltwater Depths: 2040'

15) Approximate Coal Seam Depths: Pittsburgh 48', Bakerstown-477.5', Brush Creek 523', Upper Freeport-693, Lower Freeport-748', Upper Kittanning-813', Middle Kittanning-868', Lower Kittanning-888'

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

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No None Known

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

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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		94	80	80	CTS
Fresh Water	13.375	New	J-55	54.50	950	950	CTS
Coal							
Intermediate	9.625	New	J-55	40	2,500	2,500	CTS
Production	5.5	New	P-110	20	22,382	22,382	TOC@2,250
Tubing							
Liners							

Bryan Hammi
10-5-21

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 3%CaCl2	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A 3%CaCl2	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A 3%CaCl2	1.29
Production	5.5	8.5-8.75	0.361	14,360	11,500	Class A / 50-50 Poz	1.29/1.34
Tubing					5,000		
Liners					NA		

PACKERS

Kind:				
Sizes:				
Depths Set:				

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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): 7.43

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22) Area to be disturbed for well pad only, less access road (acres): 4.96

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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 2,600'; there will be no centralizers from 2,600 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 cement and no greater than 3% CaCl (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A 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 and 50/50 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.

CEMENT ADDITIVES		
	Name	Purpose
Additive #1:	Bentonite	Helping fluid loss, reducing free water
Additive #2:	Calcium Chloride	Accelerator for low temp application
Additive #3:	Celloflake	Loss circulation additive
Additive #4:	Gypsum	Used for thixotropic properties
Additive #5:	Lignosulfonate	Low temp cement retarder
Additive #6:	Naphthalene Based Dispersant	Used to improve rheological properties of cement
Additive #7:	Cellulose	Help with fluid loss

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03/11/2022

Attachment 1811



9/16/2021

Diversified Resources Inc
4150 Belden Village Ave. NW Ste 410
Canton, OH 44718-2253

RE: Armstrong II Well Pad

Dear Sir/Madam,

Arsenal Resources has developed a Marcellus pad, Armstrong II 214, 215 and 216 wells, located in Taylor County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,800 TVD) and existing conventional natural gas wells included in the attached well list for which you are believed to be the operator.

Arsenal Resources anticipates conducting hydraulic fracturing at the Armstrong, 214, 215 and 216 wells during First Quarter of 2022. We have identified conventional natural gas wells operated by your company within 500' (lateral distance) of our newly planned wells. Plats for each well on this pad are attached.

We recommend that conventional well operators conduct the following activities before, during and after fracturing operations:

1. Inspect surface equipment, prior to fracturing, to establish integrity and establish well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and Arsenal Resources if any changes in water, gas production, pressure or other anomalies are identified.

Please feel free to contact me at 724-940-1137 with any questions or comments. You may also contact the WV Office of Oil and Gas at 304-926-0449.

Sincerely,

Ross Schweitzer
Sr. Director of Drilling, Construction and Permitting

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Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near Arsenal Resources hydraulic fracturing in Taylor County, WV prior to hydraulic fracturing at Armstrong II and Well Number 216.

Due to the apparent presence of unique geological conditions, the potential for communication between deep geologic zones exists in this area. This potential communication, via natural gas, water, or both, may occur between hydraulically fractured wells in the Marcellus formation (approximately 7,750' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Benson formations (approximately 5,000' TVD).

The plan is being implemented as an additional safety measure to be utilized in conjunction with best management practices and emergency action plans for this site. These additional measures include pre-notification of conventional well operators of the timing and location of the hydraulic fracturing, establishment of measures conventional well operators should implement, and assurance that the Division of Oil and Gas is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communications with Conventional Operators.

Arsenal Resources, using available data (WV Geological Survey, WVDEP Website, and IHS data service), has identified all known conventional wells and well operators within 500 feet of this pad and the lateral sections. A map showing these wells along with a list of the wells and operators is included in Attachment A.

Upon approval of this plan, Arsenal Resources will notify these operators, via letter, of the hydraulic fracturing schedule for these wells. A copy of this letter is included in Attachment B.

The letter provides recommendations to these conventional operators to 1) increase their monitoring of their wells during that time period, 2) ensure that their well head equipment is sound, and 3) provide immediate notification to Arsenal Resources and the OOG in the event of any changes in their well conditions.

Specifically, the letter recommends that conventional well operators conduct the following activities during and after fracturing operations:

1. Inspect their surface equipment prior to fracturing to establish integrity and establish pre-frac well conditions.
2. Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas or pressure.
3. Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
4. Notify the OOG and ARSENAL RESOURCES if any changes in water, gas production, pressure or other anomalies are identified.

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2. Reporting

Arsenal Resources will provide information relating to the hydraulic fracturing schedule, communication with conventional operators, and ongoing monitoring of the work upon request of OOG or immediately after any event of any noted abnormalities.

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Area of Review Report - **Armstrong II** Pad, **216** Lateral, **Taylor** County, WV

Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
St Comm of Public Inst #5	091-00832	Petroleum Development Corp	Plugged - 2002	39.324579	-80.09023	4952	Riley, Speechley	NA
Tom Carson 02403	091-00668	Greylock Opco LLC	Existing	39.317618	-80.08911	4797	Benson, Riley	NA
Tygart East Co #1	091-00571	Diversified Production LLC	Existing	39.310368	-80.085749	4734	Benson, Riley	NA
Robert & Julie Armstrong 1HM	091-01169	Arsenal Resources LLC	Existing	39.291898	-80.083136	7657	Marcellus	NA
Robert & J Armstrong 1	091-01116	Arsenal Resources LLC	Existing	39.291926	-80.08322	8042	Marcellus	NA

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**ARMSTRONG II LEASE
WELL NO. 216
ARSENAL RESOURCES**

T.H. LATITUDE 39°17'30"
B.H. LATITUDE 39°20'00"
B.H.

(S P C NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD83 S.P.C.(FT) N. 288,667.35 E. 1,803,266.67
NAD83 GEO. LAT-(N) 39.291073 LONG-(W) 80.083612
NAD83 UTM (M) N. 4,349,478.12 E. 579,008.90
LANDING POINT
NAD83 S.P.C.(FT) N. 289,999.7 E. 1,805,150.9
NAD83 GEO. LAT-(N) 39.294784 LONG-(W) 80.077256
NAD83 UTM (M) N. 4,349,893.6 E. 579,570.1
BOTTOM HOLE
NAD83 S.P.C.(FT) N. 303,078.7 E. 1,800,605.9
NAD83 GEO. LAT-(N) 39.330586 LONG-(W) 80.093550
NAD83 UTM (M) N. 4,353,654.8 E. 578,125.2

PARCEL	ADJOINING SURFACE OWNER	ACRES
3-16-61.1	BYRON D & ELAINE D GILBERT	6.55
1-16-61.2	NANCY B BAKER (LIFE) ET AL	16.29
1-16-62	ERNEST C HAWKINSBERY (LIFE) ET AL	55.00
1-26-17	REBECCA J BARTLETT	8.40
3-26-4	RALPH & CRYSTAL L MORRIS	79.65
5-4-15.1	CHAD L CURREY	7.38
5-4-15.3	KODI DARLENE & WILHE JOE HAUGHT	1.01
5-4-17	JERRY PAUL ROSS JR	27.00
5-4-51	GEORGE R WILLIAMS	168.22
5-4-52	ARK LAND LLC	69.73
5-4-52.1	ARK LAND LLC	2.23
5-5-13	LARRY M DANIEL (HEIRS)	4.96
5-5-14	TIMOTHY R & ROSS P GERARD	15.63
5-5-15.4	STATE OF WEST VIRGINIA (WV DEPT OF AGRICULTURE)	2.84
5-5-15.5	STATE OF WEST VIRGINIA (WV DEPT OF AGRICULTURE)	6.62
5-5-16	LARRY L REED ET AL	3.47
5-5-17.1	MATTHEW ALLEN & NORMA JEAN CHENOWETH	21.31
5-8-14	ARK LAND LLC	17.00
5-8-15	ARK LAND LLC	106.82
5-8-17	ARK LAND LLC	1.215
5-8-18	ARK LAND LLC	71.5
5-8-19	ARK LAND LLC	42.23
5-8-20	ARK LAND LLC	71.60
5-8-21	ARK LAND LLC	66.95
5-8-22	HAROLD THOMAS & MARY LOU ADKINS	34.77
5-8-30	RODNEY E & LINZA S SQUADIN	62.34
5-9-2	ARK LAND LLC	31.1
5-9-4	COALQUEST DEVELOPMENT LLC	115.09
5-9-5	COALQUEST DEVELOPMENT LLC	35.75
5-9-6	ROBERT H MOORE JR & MARY WOLFE	54.60
5-9-6.3	COALQUEST DEVELOPMENT LLC	20.60
5-9-6.6	MARY ELIZABETH MOORE	16.15
5-9-6.1	ROBERT H MOORE JR & MARY WOLFE	9.72
5-9-6.3	COALQUEST DEVELOPMENT LLC	2.50
5-9-7	ROBERT F COLEBANK	2.15
5-9-7.3	ROBERT F COLEBANK	1.10
5-9-7.4	LOREN L & DELLA A KNOTTS	7.52
5-9-7.6	GEORGIA L POLING	2.19
5-9-7.1	ARK LAND LLC	54.60
5-9-8.1	ROBERT F COLEBANK	24.60
5-12-5	ARK LAND LLC	1.00
5-12-7	RODNEY & DEBORAH A ANDERSON	138.13
5-12-31	MELISSA HAYS	42.87
5-12-32	ARK LAND LLC	1.25
5-12-31.1	HARRY V & PATRICIA J JOHNSON	89.30
5-12-34.1	BOW SMITH	4.825
5-12-35.2	MARIE ELEANORE & KEITH QUEEN (LIFE) ET AL	2.00
5-12-89	LONG RUN FELLOWSHIP CHURCH	0.86
5-12-90	ROBERT L & JULIE A ARMSTRONG	3.00
5-11-16.1	ALLISON SIMMONS	1.50
5-11-16.2	TRS OF LONG RUN FREE WILL BAPTIST CHURCH	6122.98 SQ FT
5-11-15	LONG RUN FELLOWSHIP CHURCH	1.341
5-11-71.1	ALLISON SIMMONS	3.00
5-11-71.2	ROSEPIA & LACEY N FREY	3.35

TAG	SURFACE OWNER	PARCEL	ACRES
A	ROBERT L & JULIE A ARMSTRONG	5-12-3	65.375
B	ROBERT L JR & PATRICIA LYNN CARPENTER	5-12-3	117.94
C	ARK LAND LLC	5-9-60	50.02
D	ARK LAND LLC	5-9-64	4.00
E	ARK LAND LLC	5-9-38	91.45
F	ARK LAND LLC	5-9-39	28.50
G	COALQUEST DEVELOPMENT LLC	5-9-61.3	85.45
H	COALQUEST DEVELOPMENT LLC	5-9-37.1	120.00
I	COALQUEST DEVELOPMENT LLC	5-9-37	118.00
J	ARK LAND LLC	5-9-1	74.00
K	STATE OF W.V INDUSTRIAL SCHOOL FOR BOYS	5-5-15	913.69
L	MARK A CURREY	5-4-15	108.86
M	TAYLOR COUNTY FAIR ASSOCIATION	5-5-15.2	1.20
N	TAYLOR COUNTY FAIR ASSOCIATION	5-5-15.1	54.5

REFERENCES



NOTES ON SURVEY

- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS, 2' 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
- WELL SPOT CIRCLE & TOPO MARK SCALE ARE 1" = 2000'
- THERE IS ONE (1) HOUSE TRAILER AND ONE (1) HUNTING CABIN WITHIN WITHIN 625 FEET. NEITHER STRUCTURE APPEARS TO BE OCCUPIED AND THE HOUSE TRAILER APPEARS TO BE DILAPIDATED.

12 Summers Drive | P.O. Box 506 | Summers, WV 26151 | 304-644-2944
1432 Commonwealth Blvd | Charleston, WV 25302 | 304-344-3300
127 E. 4th National Express Building, #74 | Charleston, WV 25301 | 304-251-8100

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. Gregory A. Smith
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
DATE NOVEMBER 9 20 21
REVISED _____ 20 _____
OPERATORS WELL NO. 216
API WELL NO. 47 STATE _____ COUNTY _____ PERMIT _____

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 0111-Arsenal-SURV-PL216-REC-211122XW&M.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 GAS

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___ X
LOCATION: GROUND = 1291.50' PROPOSED = 1293.72' WATERSHED LONG RUN
DISTRICT COURTHOUSE COUNTY TAYLOR QUADRANGLE GRAFTON
SURFACE OWNER ROBERT L. & JULIE A. ARMSTRONG ACREAGE 65.375±
ROYALTY OWNER ROBERT L. & JULIE A. ARMSTRONG ET AL ACREAGE 65.375±
PROPOSED WORK: DRILL ___ X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ X 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 TMD 22,383' / TVD 7,785'

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT
ADDRESS 6031 WALLACE RD. EXT. SUITE 300 WEXFORD, PA 15090 ADDRESS 633 WEST MAIN STREET BRIDGEPORT, WV 26330

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WW-9
(4/16)

API Number 47 - 091 - _____

Operator's Well No. Armstrong II 216

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Arsenal Resources OP Code 494519412

Watershed (HUC 10) Tygart Valley Quadrangle Grafton

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number Various)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

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Will closed loop system be used? If so, describe: Yes, the closed loop system will contain all of the drilling medium and drill cuttings on location and then be taken to a landfill.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Vertical: Freshwater, Horizontal: Oil based mud.

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Bentonite, Soap & Polymer Sticks, Soda Ash, Sodium Bicarbonate, Defoamer, Base Oil, Emulsifiers, Lime, Barite

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) N/A

-Landfill or offsite name/permit number? Meadowfill Landfill / Waste Management, Apex Landfill, and Wesmoreland Sanitary Landfill

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Ross Schweitzer

Company Official Title Sr. Director of Drilling, Construction and Permitting

Subscribed and sworn before me this 31st day of January, 2022

Annamarie O'Connor Notary Public

My commission expires 3/17/2022

Commonwealth of Pennsylvania - Notary Seal
Annamarie O'Connor, Notary Public
Allegheny County
My commission expires March 17, 2022
Commission number 1013834

Member, Pennsylvania Association of Notaries

03/11/2022

Arsenal Resources

Proposed Revegetation Treatment: Acres Disturbed 7.46 Prevegetation pH 6.8 Average

Lime 2.67 Tons/acre or to correct to pH 6.4

Fertilizer type 10-20-20

Fertilizer amount 100 lbs/acre

Mulch 2-3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	129	Orchard Grass	129
Rye	93	Rye	93
Clover	24	Clover	24
Timothy	45	Timothy	45

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Bryan Ham

Comments: Re-seed and mulch all disturbed areas as soon as reasonably possible per regulation. Upgrade erosion and sediment control measures where needed per the West Virginia Erosion and Sediment Control Field Manual.

RECEIVED
Office of Oil and Gas

FEB 3 2022

WV Department of
Environmental Protection

Title: Inspector Date: 10-5-21

Field Reviewed? Yes No



ARSENAL
R E S O U R C E S

SITE SAFETY PLAN

ARMSTRONG II WELL PAD #216

911 Address:

90 Freewill Drive
Flemington, WV 26347

Bryan Ham
10-5-21

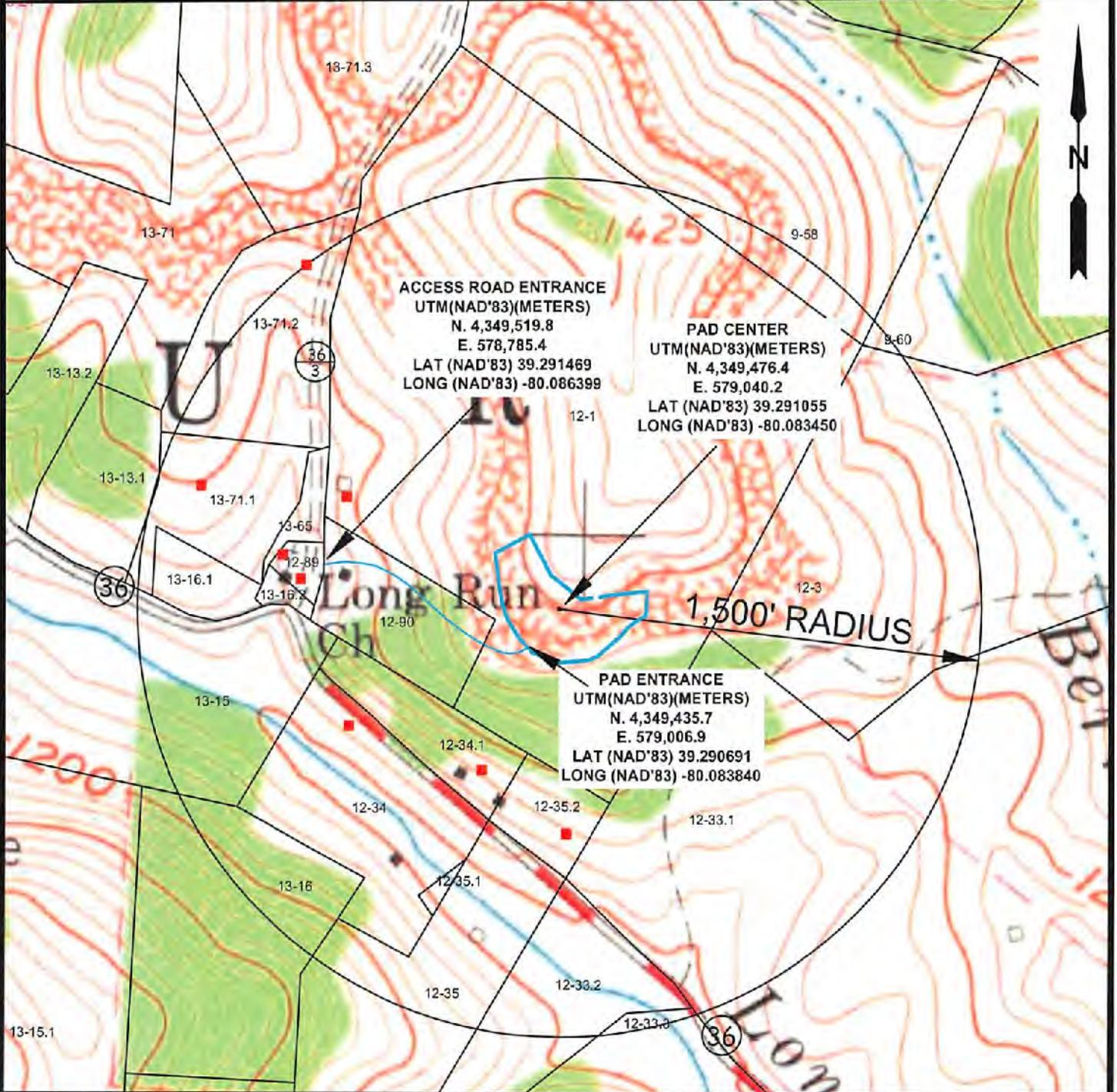
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Office of Oil and Gas
FEB 3 2022
WV Department of
Environmental Protection

PROPOSED ARMSTRONG II WELLS 214-216

RECEIVED
Office of Oil and Gas

FEB 3 2022

WV Department of
Environmental Protection



■ = APPARENT RESIDENCES FROM MAPPING



12 Vashon Drive | P.O. Box 150 | Glenville, WV 26031 | 304.462.5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25501 | 304.255.5796
slsww.com

TOPO SECTION:

GRAFTON 7.5'

COUNTY

DISTRICT

TAYLOR

COURTHOUSE

DRAWN BY

JOB NO.

OPERATOR:

PREPARED FOR:
ARSENAL RESOURCES
6031 WALLACE RD. EXT.
SUITE 300
WEXFORD, PA 15090

C.P.M.

9111

DATE

SCALE

08-11-2021

1" = 500'



03/11/2022

**ARMSTRONG II LEASE
WELL NO. 216
ARSENAL RESOURCES**

T.H. LATITUDE 39°17'30"
B.H. LATITUDE 39°20'00"

B.H.

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

NAD'83 S.P.C.(FT)	N. 288,667.35	E. 1,903,266.67
NAD'83 GEO.	LAT-(N) 39.291073	LONG-(W) 80.083812
NAD'83 UTM (M)	N. 4,349,478.12	E. 579,003.90
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 289,999.7	E. 1,805,130.9
NAD'83 GEO.	LAT-(N) 39.294764	LONG-(W) 80.077256
NAD'83 UTM (M)	N. 4,349,893.5	E. 579,570.1
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 303,076.7	E. 1,800,605.9
NAD'83 GEO.	LAT-(N) 39.330586	LONG-(W) 80.093550
NAD'83 UTM (M)	N. 4,353,854.8	E. 578,125.2

PARCEL	ADJOINING SURFACE OWNER	ACRES
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3-16-61.2	NANCY B. BAKER (L.F), ET AL	16.29
3-16-62	ERNEST C. HAWKINBERRY (LIFE), ET AL	55.60
3-20-3.2	REBECCA J. BARTLETT	8.40
3-20-4	RALPH & CRYSTAL L. MORRIS	79.65
5-4-15.1	CHAD L. CURREY	7.38
5-4-15.3	JODI DARLENE & WILLIE JOE HAUGHT	1.03
5-4-17	JERRY PAUL ROSS, JR	27.00
5-4-51	GEORGE R. WILLIAMS	168.22
5-4-52	ARK LAND LLC	69.75
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5-5-13	LARRY MCDANIEL (HEIRS)	4.98
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5-8-17	ARK LAND LLC	1.735
5-8-18	ARK LAND LLC	73.5
5-8-19	ARK LAND LLC	42.23
5-8-20	ARK LAND LLC	23.00
5-8-21	ARK LAND LLC	66.95
5-8-22	HAROLD THOMAS & MARY LOU ADKINS	34.77
5-8-30	RODNEY E. & LINDA S. MCQUAIN	62.54
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5-9-4	COALQUEST DEVELOPMENT LLC	115.00
5-9-56	COALQUEST DEVELOPMENT LLC	55.75
5-9-62	ROBERT B. MOORE JR. & MARY WOLFE	54.00
5-9-63	COALQUEST DEVELOPMENT LLC	20.00
5-9-66	MARY ELIZABETH MOORE	16.15
5-9-66.1	ROBERT B. MOORE JR. & MARY WOLFE	0.72
5-9-66.3	COALQUEST DEVELOPMENT LLC	2.50
5-9-70	ROBERT F. COLEBANK	2.15
5-9-70.3	ROBERT F. COLEBANK	3.10
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5-12-90	ROBERT L. & JULIE A. ARMSTRONG	5.00
5-13-16.1	ALLISON SIMMONS	1.39
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5-13-65	LONG RUN FELLOWSHIP CHURCH	1.341
5-13-71.1	ALLISON SIMMONS	5.00
5-13-71.2	JOSEPH & LACEY N. FREY	8.35

TAG	SURFACE OWNER	PARCEL	ACRES
A	ROBERT L. & JULIE A. ARMSTRONG	5-12-1	65.375
B	ROBERT L. JR. & PATRICIA LYNN CARPENTER	5-12-3	117.94
C	ARK LAND LLC	5-9-60	50.02
D	ARK LAND LLC	5-9-61	4.00
E	ARK LAND LLC	5-9-58	91.45
F	ARK LAND LLC	5-9-59	28.50
G	COALQUEST DEVELOPMENT LLC	5-9-63.3	85.45
H	COALQUEST DEVELOPMENT LLC	5-9-57.1	120.00
I	COALQUEST DEVELOPMENT LLC	5-9-57	118.00
J	ARK LAND LLC	5-9-1	74.00
K	STATE OF W.V. INDUSTRIAL SCHOOL FOR BOYS	5-5-15	913.69
L	MARK A. CURREY	5-4-15	108.46
M	TAYLOR COUNTY FAIR ASSOCIATION	5-5-15.2	3.20
N	TAYLOR COUNTY FAIR ASSOCIATION	5-5-15.1	54.5

REFERENCES



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FEB 3 2022
WV Department of
Environmental Protection

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12 Vanhorn Drive | P.O. Box 150 | Sissonville, WV 26051 | 304-482-5634
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304-346-5952
254 East Beckley Bypass | Beckley, WV 25801 | 304-235-5296
sllw.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
DATE NOVEMBER 9, 2021
REVISED _____, 20____
OPERATORS WELL NO. 216
API WELL NO. 47 - 091 - 01366
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 9111-Arsenal-SURV-Plan216-R00-211102KGM.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 GAS

WELL TYPE: OIL _____ GAS X INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
LOCATION: GROUND = 1291.50' ELEVATION PROPOSED = 1293.72' WATERSHED LONG RUN
DISTRICT COURTHOUSE COUNTY TAYLOR QUADRANGLE GRAFTON
SURFACE OWNER ROBERT L. & JULIE A. ARMSTRONG ACREAGE 65.375±
ROYALTY OWNER ROBERT L. & JULIE A. ARMSTRONG ET AL ACREAGE 65.375±
PROPOSED WORK: LEASE NO. SEE WW-6A1
DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X 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 TMD 22,383 / TVD 7,789'

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT
ADDRESS 6031 WALLACE RD. EXT. SUITE 300 ADDRESS 633 WEST MAIN STREET
WEXFORD, PA 15090 BRIDGEPORT, WV 26330

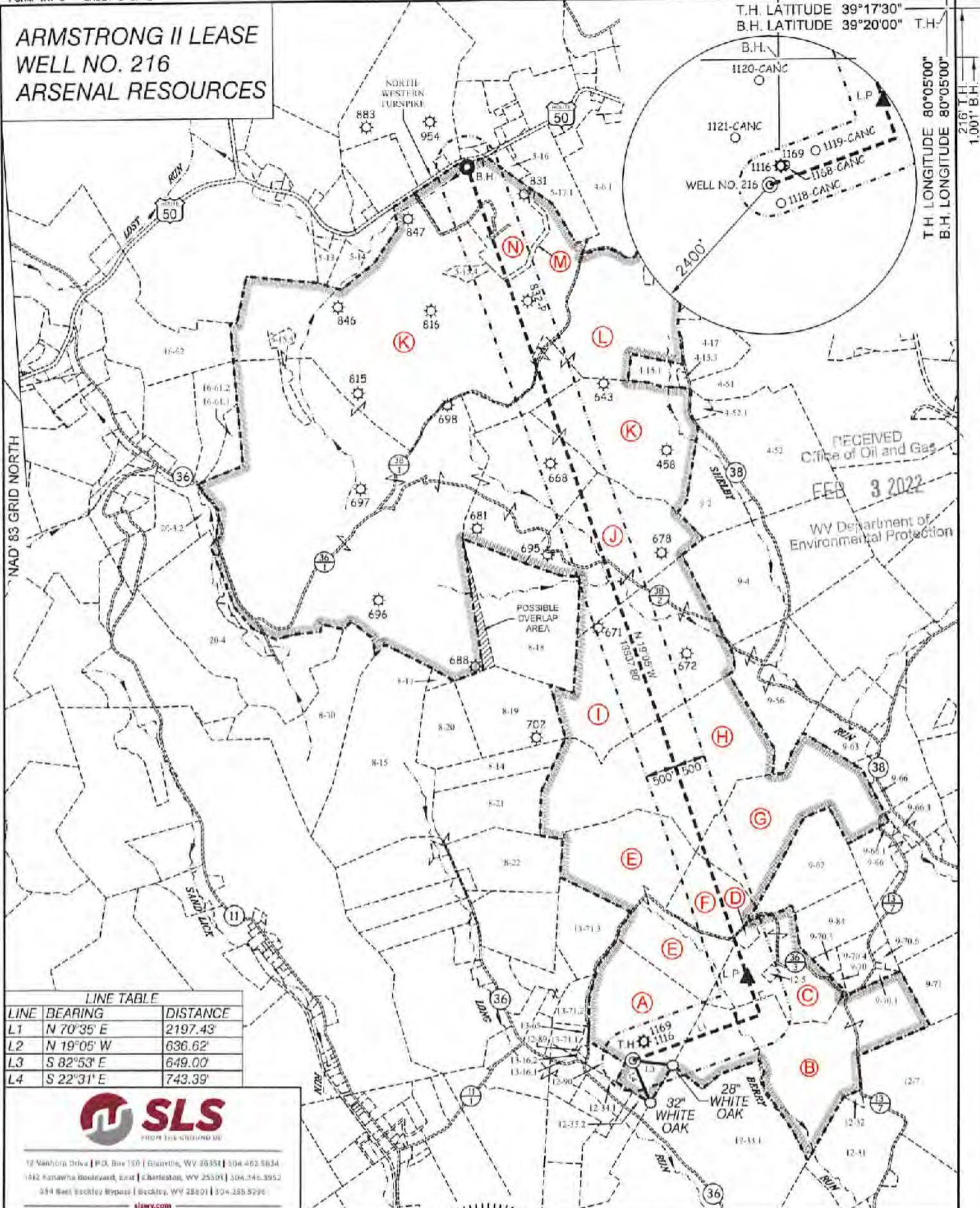
COUNTY NAME
PERMIT

**ARMSTRONG II LEASE
WELL NO. 216
ARSENAL RESOURCES**

T.H. LATITUDE 39°17'30"
B.H. LATITUDE 39°20'00" T.H.

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

NAD'83 GRID NORTH



LINE TABLE

LINE	BEARING	DISTANCE
L1	N 70°35' E	2197.43'
L2	N 19°05' W	636.62'
L3	S 82°53' E	649.00'
L4	S 22°31' E	743.39'



12 Vanhook Drive | P.O. Box 150 | Glenville, WV 26031 | 304-462-5634
152 Kanawha Boulevard, East | Charleston, WV 25301 | 304-246-3952
244 West Backley Bypass | Beckley, WV 25801 | 304-355-5796
slaw.com

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

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NAD'83 GEO.	LAT-(N) 39.330586	LONG-(W) 80.093550
NAD'83 UTM (M)	N. 4,353,854.8	E. 578,125.2



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

P.S. 677

Gregory A. Smith

LEGEND

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

COUNTY NAME
PERMIT

SCALE 1" = 2000' FILE NO. 9111-Arsenal-SURV-Plan 16-000-211122-KGM-DWG

DATE NOVEMBER 9, 20 21
REVISED _____, 20 ____
OPERATORS WELL NO. 216
API WELL NO. 47 - 091 - 01364
STATE COUNTY PERMIT

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



DESIGNATED AGENT GARY SHORT

ADDRESS 633 WEST MAIN STREET
BRIDGEPORT, WV 26330

WELL OPERATOR ARSENAL RESOURCES
ADDRESS 6031 WALLACE RD. EXT. SUITE 300
WEXFORD, PA 15090

**ARMSTRONG II LEASE
WELL NO. 216
ARSENAL RESOURCES**

2,890' B.H. 136' T.H.
T.H. LATITUDE 39°17'30"
B.H. LATITUDE 39°20'00" T.H.
B.H.

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
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T.H. LONGITUDE 80°05'00"
B.H. LONGITUDE 80°05'00"
216' T.H.
1,001' B.H.

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E	ARK LAND LLC	5-9-58	91.45
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H	COALQUEST DEVELOPMENT LLC	5-9-57.1	120.00
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M	TAYLOR COUNTY FAIR ASSOCIATION	5-5-15.2	3.20
N	TAYLOR COUNTY FAIR ASSOCIATION	5-5-15.1	54.5

REFERENCES



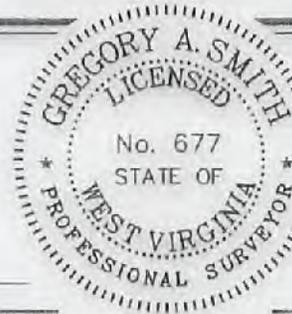
NOTES ON SURVEY

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- WELL SPOT CIRCLE & TOP MARK SCALE ARE 1"=2000'
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225 Riverside Street, Fort Lupton, PA 15110-1000 | 724-345-8877
10115 Woodloch Boulevard, Erie, PA 16590 | 814-833-2200
1000 East 10th Street, Erie, PA 16510 | 814-833-2200
www.sls.com

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P.S. 677 *Gregory A. Smith*

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DATE NOVEMBER 9 , 20 21
REVISED _____ , 20 ____
OPERATORS WELL NO. 216
API WELL NO. 47 — 091 — 01366
STATE COUNTY PERMIT

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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 GAS

WELL TYPE: OIL GAS INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW
LOCATION: GROUND = 1291.50' ELEVATION PROPOSED = 1293.72' WATERSHED LONG RUN
DISTRICT COURTHOUSE COUNTY TAYLOR QUADRANGLE GRAFTON
SURFACE OWNER ROBERT L. & JULIE A. ARMSTRONG ACREAGE 65.375±
ROYALTY OWNER ROBERT L. & JULIE A. ARMSTRONG ET AL ACREAGE 65.375±
PROPOSED WORK: LEASE NO. SEE WW-6A1
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 TMD 22,383 / TVD 7,789'

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT
ADDRESS 6031 WALLACE RD. EXT. SUITE 300 WEXFORD, PA 15090 ADDRESS 633 WEST MAIN STREET BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

03/11/2022

WW-6A1
(5/13)

Operator's Well No. Armstrong II 216

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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See Attached

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WV Department of
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**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Arsenal Resources

By:

Ross Schweitzer

Its:

Sr. Director of Drilling, Construction & Permitting

ATTACHMENT TO WW-6A1, ARMSTRONG 216

Lease Number	Lessor	Lessee	Lease Royalty	Book/Page	Gross Acres
A 00004370 47-091-5-12-1	ROBERT L ARMSTRONG AND JULIE ARMSTRONG HUSBAND AND WIFE PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC	PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC RIVER RIDGE ENERGY, LLC	0.125	55/708 30/698 8/541	65.37500000
A 00005202 47-091-5-12-1	KIM R ROGERS MARRIED DEALING IN HER SOLE AND SEPARATE PROPERTY PDC MOUNTAINEER, LLC	PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.15	65/103 8/541	65.37500000
A 00005203 47-091-5-12-1	RICHARD A AND CRYSTAL A VINCENT HIS WIFE PDC MOUNTAINEER, LLC	PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.15	65/115 8/541	65.37500000
A 00005204 47-091-5-12-1	RICHARD L DODD PDC MOUNTAINEER, LLC	PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.15	65/112 8/541	65.37500000
B 00004457 47-091-5-12-3	ROBERT L AND PATRICIA LYNN CARPENTER JR PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC	PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC RIVER RIDGE ENERGY, LLC	0.125	57/543 30/698 8/541	117.94000000
C 00004769 47-091-5-9-60	DIANE L FLECK FALCON PARTNERS PDC MOUNTAINEER, LLC	FALCON PARTNERS PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.15	54/89 31/318 8/541	50.02000000
D 00004769 47-091-5-9-61	DIANE L FLECK FALCON PARTNERS PDC MOUNTAINEER, LLC	FALCON PARTNERS PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.15	54/89 31/318 8/541	4.00000000
E 00004475 47-091-5-9-58	CHARLES F HUNSINGER ET UX PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC	PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC RIVER RIDGE ENERGY, LLC	0.125	58/19 30/698 8/541	91.45000000
F 00004769 47-091-5-9-59	DIANE L FLECK FALCON PARTNERS PDC MOUNTAINEER, LLC	FALCON PARTNERS PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.15	54/89 31/318 8/541	28.50000000
G	THOMAS A WILLIS	FALCON PARTNERS	0.15	54/502	85.45000000

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ATTACHMENT TO WW-6A1, ARMSTRONG 216

Lease Number	Lessor	Lessee	Lease Royalty	Book/Page	Gross Acres
00004770 47-091-5-9-63.3	FALCON PARTNERS PDC MOUNTAINEER, LLC	PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC		31/318 8/541	
G 00004771 47-091-5-9-63.3	D KEITH LAREW FALCON PARTNERS PDC MOUNTAINEER, LLC	FALCON PARTNERS PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.15	54/483 31/318 8/541	85.45000000
G 00004772 47-091-5-9-63.3	GLENN C LAREW FALCON PARTNERS PDC MOUNTAINEER, LLC	FALCON PARTNERS PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.15	54/477 31/318 8/541	85.45000000
H 00005176 47-091-5-8-21	COALQUEST DEVELOPMENT LLC PDC MOUNTAINEER, LLC	PDC MOUNTAINEER LLC RIVER RIDGE ENERGY, LLC	0.125	64/392 8/541	120.00000000
I 00003425 47-091-5-8-19	ROBERT L CARPENTER PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC	PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC RIVER RIDGE ENERGY, LLC	0.125	41/678 30/698 8/541	118.00000000
J 00004049 47-091-5-9-1	MONA H COOPER, A WIDOW AND DONNA J AND CHARLES R MCELDOWNEY H/W PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC	PETROLEUM DEVELOPMENT CORPORATION PDC MOUNTAINEER, LLC RIVER RIDGE ENERGY, LLC	0.125	42/13 30/698 8/541	73.50000000
K 00008290 47-091-5-5-15	DR FLORENCE KUNST HOBACK AND J HOLLAND HOBACK HER HUSBAND EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	37/663 314/429 36/618 37/8	913.69000000
K 00008292 47-091-5-5-15	TYGART EAST COMPANY EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	38/599 314/429 36/618 37/8	913.69000000

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ATTACHMENT TO WW-6A1, ARMSTRONG 216

Lease Number	Lessor	Lessee	Lease Royalty	Book/Page	Gross Acres
K 00008293 47-091-5-5-15	THE BOARD OF TRUSTEES OF DAVIS AND ELKINS COLLEGE EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	38/616 314/429 36/618 37/8	913.69000000
K 00008278 47-091-5-5-15	DR FLORENCE KUNST HOBACK AND J HOLLAND HOBACK HER HUSBAND EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	40/656 314/429 36/618 37/8	913.69000000
K 00008343 47-91-5-5-15	RITA M REYNOLDS WIDOW, REBECCA REYNOLDS SINGLE AND JOHN H REYNOLDS AND DIANA L REYNOLDS HIS WIFE EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/56 314/429 36/618 37/8	913.69000000
K 00008344 47-91-5-5-15	MILDRED P BAZZLE AND HANSEL BAZZLE HER HUSBAND EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/184 314/429 36/618 37/8	913.69000000
K 00008345 47-91-5-5-15	ALONZO D PETERS AND MARY E PETERS HIS WIFE AND ALONZO D PETERS AS ATTORNEY IN FACT FOR WILDA P MALLOW EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/176 314/429 36/618 37/8	913.69000000

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ATTACHMENT TO WW-6A1, ARMSTRONG 216

Lease Number	Lessor	Lessee	Lease Royalty	Book/Page	Gross Acres
K 00008346 47-91-5-5-15	MARY E COYLE WIDOW EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/180 314/429 36/618 37/8	913.69000000
K 00008347 47-91-5-5-15	CONSTANCE P FROST UNMARRIED EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/188 314/429 36/618 37/8	913.69000000
K 00008348 47-91-5-5-15	J STRIDER MOLER SINGLE EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/505 314/429 36/618 37/8	913.69000000
K D0000368 47-091-5-5-15	CONSTANCE P FROST BY HER ATTORNEY-IN-FACT PDC MOUNTAINEER, LLC	PETROLEUM DEVELOPMENT CORPORATION RIVER RIDGE ENERGY, LLC	0.125	249/302 8/541	913.69000000
L 00008294 47-091-5-4-15	JESSIE R MASON (WIDOW) AND SAMUEL FRED MASON II (SINGLE) EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	44/196 314/429 36/618 37/8	108.46000000
M D0000368 47-091-5-5-15.2	CONSTANCE P FROST BY HER ATTORNEY-IN-FACT PDC MOUNTAINEER, LLC	PETROLEUM DEVELOPMENT CORPORATION RIVER RIDGE ENERGY, LLC	0.125	249/302 8/541	3.20000000

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ATTACHMENT TO WW-6A1, ARMSTRONG 216

Lease Number	Lessor	Lessee	Lease Royalty	Book/Page	Gross Acres
M 00008343 47-091-5-5-15.2	RITA M REYNOLDS WIDOW, REBECCA REYNOLDS SINGLE AND JOHN H REYNOLDS AND DIANA L REYNOLDS HIS WIFE EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/56 314/429 36/618 37/8	3.20000000
M 00008344 47-091-5-5-15.2	MILDRED P BAZZLE AND HANSEL BAZZLE HER HUSBAND EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/184 314/429 36/618 37/8	3.20000000
M 00008345 47-091-5-5-15.2	ALONZO D PETERS AND MARY E PETERS HIS WIFE AND ALONZO D PETERS AS ATTORNEY IN FACT FOR WILDA P MALLOW EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/176 314/429 36/618 37/8	3.20000000
M 00008346 47-091-5-5-15.2	MARY E COYLE WIDOW EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/180 314/429 36/618 37/8	3.20000000
M 00008347 47-091-5-5-15.2	CONSTANCE P FROST UNMARRIED EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/188 314/429 36/618 37/8	3.20000000

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Lease Number	Lessor	Lessee	Lease Royalty	Book/Page	Gross Acres
M 00008348 47-091-5-5-15.2	J STRIDER MOLER SINGLE EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/505 314/429 36/618 37/8	3.20000000
N D0000368 47-91-5-5-15.1	CONSTANCE P FROST BY HER ATTORNEY-IN-FACT PDC MOUNTAINEER, LLC	PETROLEUM DEVELOPMENT CORPORATION RIVER RIDGE ENERGY, LLC	0.125	249/302 8/541	54.50000000
N 00008343 47-91-5-5-15.1	RITA M REYNOLDS WIDOW, REBECCA REYNOLDS SINGLE AND JOHN H REYNOLDS AND DIANA L REYNOLDS HIS WIFE EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/56 314/429 36/618 37/8	54.50000000
N 00008344 47-91-5-5-15.1	MILDRED P BAZZLE AND HANSEL BAZZLE HER HUSBAND EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/184 314/429 36/618 37/8	54.50000000
N 00008345 47-91-5-5-15.1	ALONZO D PETERS AND MARY E PETERS HIS WIFE AND ALONZO D PETERS AS ATTORNEY IN FACT FOR WILDA P MALLOW EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC	0.125	45/176 314/429 36/618 37/8	54.50000000
N	MARY E COYLE WIDOW	EASTERN AMERICAN ENERGY CORPORATION	0.125	45/180	54.50000000

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Lease Number	Lessor	Lessee	Lease Royalty	Book/Page	Gross Acres
00008346 47-91-5-5-15.1	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC		314/429 36/618 37/8	
N	CONSTANCE P FROST UNMARRIED	EASTERN AMERICAN ENERGY CORPORATION	0.125	45/188	54.50000000
00008347 47-91-5-5-15.1	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC		314/429 36/618 37/8	
N	J STRIDER MOLER SINGLE	EASTERN AMERICAN ENERGY CORPORATION	0.125	45/505	54.50000000
00008348 47-91-5-5-15.1	EASTERN AMERICAN ENERGY CORPORATION ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC	ENERGY CORPORATION OF AMERICA GREYLOCK PRODUCTION LLC MAR KEY LLC		314/429 36/618 37/8	

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Agreement to Drill, Complete and Operate Oil & Gas Wells

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Mountaineer Keystone LLC, a West Virginia limited liability company ("Mountaineer Keystone"), PDC Mountaineer, LLC, a Delaware limited liability company ("PDC"), and PDC Mountaineer Holdings, LLC, a Delaware limited liability company ("PDC Holdings"), is effective as of October 15, 2014. (the "Effective Date") and sets forth the terms pursuant to which Mountaineer Keystone will drill, complete and operate the Wells (as defined below) on behalf of PDC and PDC Holdings. Mountaineer Keystone, PDC, and PDC Holdings are each a "Party" and are collectively the "Parties". In consideration of the foregoing and the respective agreements hereinafter set forth and the mutual benefits to be derived therefrom, the Parties, intending to be legally bound, hereby agree as follows:

1. **Term:** This Agreement is effective from the Effective Date until terminated by Mountaineer Keystone on the one hand or PDC and PDC Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").
2. **Authorization to Operate:** PDC and PDC Holdings authorize Mountaineer Keystone to undertake and perform, on PDC and PDC Holdings behalf, all operations, including without limitation permit applications, well pad preparation, drilling and completing wells, and marketing gas, oil and other hydrocarbons therefrom with respect to all oil and gas wells to be drilled on oil and gas leasehold acreage held by PDC or PDC Holdings. PDC, PDC Holdings and Mountaineer Keystone are affiliates with a common parent. Mountaineer Keystone was formed to operate oil and gas leasehold acreage held by PDC, PDC Holdings and certain other affiliates. Mountaineer Keystone agrees that it shall, in a good and workmanlike manner and in accordance with industry standards as they prevail in the area, drill, complete and operate oil and gas wells on leasehold acreage owned by PDC or PDC Holdings from time to time as directed by PDC or PDC Holdings (collectively, the "Wells").
3. **No Third Party Beneficiary:** This Agreement is for the benefit of the Parties and is not for the benefit of any third party.
4. **Counterparts:** This Agreement may be simultaneously executed in several counterparts and via facsimile or similar electronic transmittal, each of which shall be deemed to be an original and taken together shall constitute one and the same instrument.

[Signature Page Follows]

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03/11/2022

IN WITNESS WHEREOF, Mountaineer Keystone, PDC, and PDC Holdings have caused their duly authorized representatives to execute this Agreement as of the Effective Date.

MOUNTAINEER KEYSTONE LLC

By: 
Name: Robert Keel
Title: CEO

PDC MOUNTAINEER, LLC

By: 
Name: Robert Keel
Title: CEO

PDC MOUNTAINEER HOLDINGS, LLC

By: 
Name: Robert Keel
Title: CEO

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Agreement to Drill, Complete and Operate Oil & Gas Wells

This Agreement to Drill, Complete and Operate Oil & Gas Wells (this "Agreement"), by and among Arsenal Resources LLC, a West Virginia limited liability company ("Arsenal"), River Ridge Energy, LLC, a Delaware limited liability company ("River Ridge"), and River Ridge Energy, Holdings, LLC, a Delaware limited liability company ("River Ridge Holdings"), is effective as of March 1, 2017. (the "Effective Date") and sets forth the terms pursuant to which Arsenal will drill, complete and operate the Wells (as defined below) on behalf of River Ridge and River Ridge Holdings. Arsenal, River Ridge, and River Ridge Holdings are each a "Party" and are collectively the "Parties". In consideration of the foregoing and the respective agreements hereinafter set forth and the mutual benefits to be derived therefrom, the Parties, intending to be legally bound, hereby agree as follows:

1. **Term:** This Agreement is effective from the Effective Date until terminated by Arsenal on the one hand or River Ridge and River Ridge Holdings on the other hand with 30 days' written notice to the other Party or Parties, as applicable (the "Term").
2. **Authorization to Operate:** River Ridge and River Holdings authorize Arsenal to undertake and perform, on River Ridge and River Ridge Holdings behalf, all operations, including without limitation permit applications, well pad preparation, drilling and completing wells, and marketing gas, oil and other hydrocarbons therefrom with respect to all oil and gas wells to be drilled on oil and gas leasehold acreage held by River Ridge or River Ridge Holdings. River Ridge, River Ridge Holdings and Arsenal are affiliates with a common parent. Arsenal was formed to operate oil and gas leasehold acreage held by River Ridge, River Ridge Holdings and certain other affiliates. Arsenal agrees that it shall, in a good and workmanlike manner and in accordance with industry standards as they prevail in the area, drill, complete and operate oil and gas wells on leasehold acreage owned by River Ridge or River Ridge Holdings from time to time as directed by River Ridge or River Ridge Holdings (collectively, the "Wells").
3. **No Third Party Beneficiary:** This Agreement is for the benefit of the Parties and is not for the benefit of any third party.
4. **Counterparts:** This Agreement may be simultaneously executed in several counterparts and via facsimile or similar electronic transmittal, each of which shall be deemed to be an original and taken together shall constitute one and the same instrument.

[Signature Page Follows]

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WV Department of
Environmental Protection

03/11/2022

IN WITNESS WHEREOF, Arsenal, River Ridge, and River Ridge Holdings have caused their duly authorized representatives to execute this Agreement as of the Effective Date.

ARSENAL RESOURCES LLC

By: Joel E. Symonds
Name: Joel E. Symonds
Title: Vice President - Land

RIVER RIDGE ENERGY, LLC

By: Joel E. Symonds
Name: Joel E. Symonds
Title: Vice President - Land

RIVER RIDGE HOLDINGS, LLC

By: Joel E. Symonds
Name: Joel E. Symonds
Title: Vice President - Land

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03/11/2022



People Powered. Asset Strong.

October 1, 2021

Mr. James Martin, Chief of Oil and Gas
West Virginia Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

RE: Ownership of Roadways; Armstrong II 214-216 Wells

Dear Mr. Martin:

In preparation of filing a permit application for the above referenced well, Arsenal Resources has conducted a thorough title examination in order to determine the ownership of the oil and gas underlying roadways crossed by the proposed well(s). If owned in fee by the West Virginia Department of Transportation, Division of Highways, a lease covering its interest in the roadway or roadways has been properly obtained and provided in the application materials. If a right of way only, the oil and gas underlying such roadway or roadways is owned by the adjoining landowners and is also covered by the leaseholds provided in the application materials.

If you have any questions, concerns or need further information, please do not hesitate to contact me at the address listed below.

Sincerely,

A handwritten signature in cursive script that reads "Jon Sheldon".

Jon Sheldon
Chief Operating Officer

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Environmental Protection

6031 Wallace Road Ext, Suite 300
Wexford, PA 15090
P: 724-940-1100
F: 800-428-0981
www.arsenalresources.com

03/11/2022

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION**

Date of Notice Certification: 1-31-2022

API No. 47- 091 - _____
Operator's Well No. Armstrong II 216
Well Pad Name: Armstrong II

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>579006.7</u>
County: <u>Taylor</u>	Northing: <u>4349482.13</u>
District: <u>Court House</u>	Public Road Access: <u>CR13, CR 36 (Long Run Road) CR36/3</u>
Quadrangle: <u>Grafton</u>	Generally used farm name: <u>Armstrong II</u>
Watershed: <u>Tygart Valley</u>	

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
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Required Attachments:

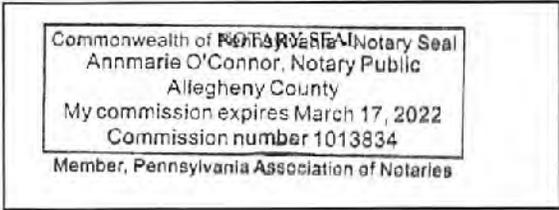
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

03/11/2022

Certification of Notice is hereby given:

THEREFORE, I Ross Schweitzer, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	<u>Arsenal Resources</u>	Address:	<u>6031 Wallace Road Extension, Suite 300</u>
By:	<u>Ross Schweitzer</u>		<u>Wexford, PA 15090</u>
Its:	<u>Sr. Director of Drilling, Construction & Permitting</u>	Facsimile:	<u>304-848-9134</u>
Telephone:	<u>724-940-1137</u>	Email:	<u>rschweitzer@arsenalresources.com</u>



Subscribed and sworn before me this 31st day of January, 2022
Annmaria O'Connor Notary Public
 My Commission Expires 3/17/2022

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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 Office of Oil and Gas
 FEB 3 2022
 WV Department of
 Environmental Protection

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 1/31/22 **Date Permit Application Filed:** 2/01/22

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: Robert and Julie Armstrong
Address: 90 Freewill Drive
Flemington, WV 26347

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Robert and Julie Armstrong
Address: 90 Freewill Drive
Flemington, WV 26347

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: Robert and Julie Armstrong (AST Pad)
Address: 90 Freewill Drive Flemington, WV 26347
Flemington, WV 26347

COAL OWNER OR LESSEE

Name: See Attached
Address: _____

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attached
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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Office of Oil and Gas

FEB 3 2022

WV Department of
Environmental Protection

03/11/2022

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a welland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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WV Department of
Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

03/11/2022

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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WV Department of
Environmental Protection

03/11/2022

WW-6A
(8-13)

API NO. 47-091 -
OPERATOR WELL NO. Armstrong II 216
Well Pad Name: Armstrong II

Notice is hereby given by:

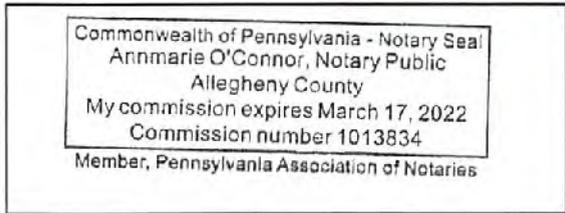
Well Operator: Arsenal Resources
Telephone: 724-940-1137
Email: rschweltzer@arsenalresources.com



Address: 6031 Wallace Road Extension, Suite 300
Wexford, PA 15090
Facsimile: 304-848-9134

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



Subscribed and sworn before me this 31st day of January 2022
Annmarie O'Connor Notary Public
My Commission Expires 3/17/2022

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FEB 3 2022
WV Department of
Environmental Protection

03/11/2022

Arsenal Resources
Armstrong II Well Site
WW-6A Notice of Application – Attachment Page 1 of 3

Drill Site (Surface & AST Site) 47-091-5-12-1

Robert L. Armstrong & Julie Armstrong
90 Freewill Drive
Flemington, WV 26347

Mineral

Robert L. Armstrong & Julie Armstrong
90 Freewill Drive
Flemington, WV 26347

Coal

CoalQuest Development, LLC
Attn: Chuck Duckworth
100 Tygart Drive
Grafton, West Virginia 26354

Surface (Road) 47-091-5-12-90

Robert L. Armstrong & Julie Armstrong
Rt. 1 Box 121
Flemington, WV 26347

Mineral

Kim R. Rogers
1672 Fairmont Avenue
Fairmont, WV 26554

Richard A. Vincent
192 Hines Hill Road
Bridgeport, WV 26330

John Leo Dodd II & Jonathan Ian Dodd
2403 Pace Avenue
Mount Vernon, IL 62864

Coal

CoalQuest Development, LLC
Attn: Chuck Duckworth
100 Tygart Drive
Grafton, West Virginia 26354

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WV Department of
Environmental Protection

03/11/2022



Possible Water Purveyors within 1500'

TM 12 P 1 (DWELLING APPARENT)
Robert & Julie Armstrong
90 Freewill Drive
Flemington, WV 26347

TM 12 P 90
Robert & Julie Armstrong
90 Freewill Drive
Flemington, WV 26347

TM 12 P 3
Robert & Patricia Carpenter
16 Belmont Drive
Whitehall, WV 26554

TM 12 P 33.1
Harry & Patricia Johnson
5750 Saltwell Road
Bridgeport, WV 26330

TM 12 P 33.2
Michael & Marlene Colebank
485 Long Run Road
Flemington, WV 26347

TM 12 P 33.3
Eugene & Marlee Cross
479 Long Run Road
Flemington, WV 26347

TM 12 P 35
Regina Rager
Timothy Corrothers
631 Long Run Road
Flemington, WV 26347

TM 12 P 35.1
Timothy Corrothers
631 Long Run Road
Flemington, WV 26347

TM 12 P 35.2 (DWELLING APPARENT)
Queen Marie Eleanor
618 Long Run Road
Flemington, WV 26347

TM 12 P 34.1 (DWELLING APPARENT)
John Starkey
Donna Goodnow
688 Long Run Road
Flemington, WV 26347

TM 12 P 34 (DWELLING APPARENT)
Timothy Corrothers
631 Long Run Road
Flemington, WV 26347

TM 12 P 16
Gary Lee Bolyard et al
70 Brains Run Rd
Morgantown, WV 26508

12 Vanhorn Drive, Glenville, WV 26351
1412 Kanawha Boulevard East, Charleston, WV 25301
254 East Beckley Bypass, Beckley, WV 25801
304-462-5634

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TM 12 P 15
Tine Freeze
428 Kerns Road
Flemington, WV 26347

TM 12 P 89 (DWELLING/CHURCH APPARENT)
Long Run Fellowship Church
RR 1 Box 53
Flemington, WV 26347

TM 13 P 16.2
Long Run Fellowship Church
RR 1 Box 53
Flemington, WV 26347

TM 13 P 65 (DWELLING/CHURCH APPARENT)
Long Run Fellowship Church
RR 1 Box 53
Flemington, WV 26347

TM 13 P 16.1
Allison Simmons
986 Long Run Road
Flemington, WV 26347

TM 13 P 71.1 (DWELLING APPARENT)
Allison Simmons
986 Long Run Road
Flemington, WV 26347

TM 13 P 71.2 (DWELLING APPARENT)
Joseph & Lacy Frey
1790 Long Run Road
Flemington, WV 26347

TM 13 P 13.1
Jerry & Marsha Welch
1040 Long Run Road
Flemington, WV 26347

TM 9 P 58
ARK Land Company
One City Place Dr Ste 300
Saint Louis, MO 63141

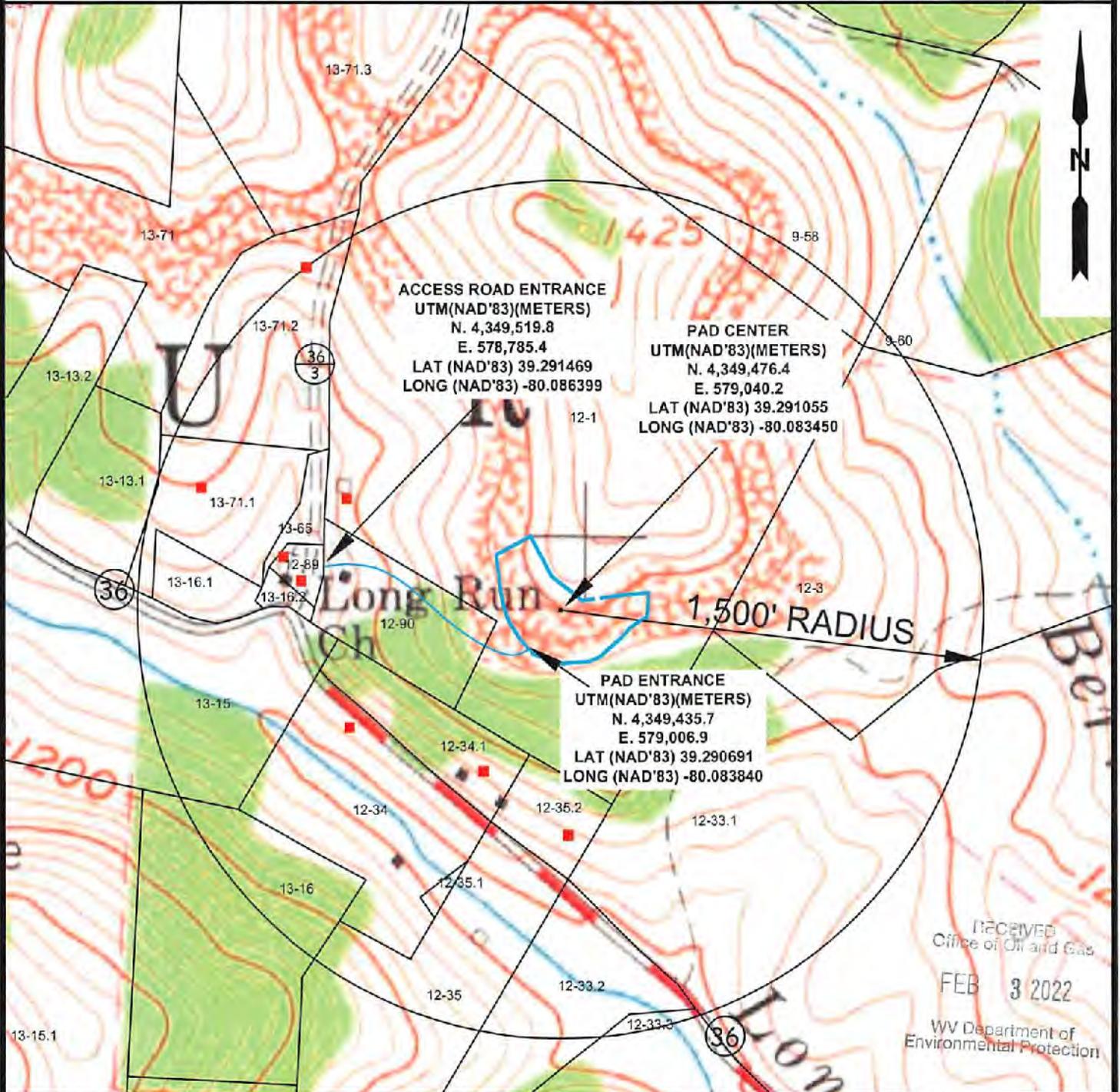
TM 9 P 60
ARK Land Company
One City Place Dr Ste 300
Saint Louis, MO 63141

REC'D
City of Oil and Gas

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WV Department of
Environmental Protection

PROPOSED ARMSTRONG II WELLS 214-216



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FEB 3 2022
WV Department of
Environmental Protection

■ = APPARENT RESIDENCES FROM MAPPING



12 Vanhorn Drive | P.O. Box 150 | Gleeville, WV 26351 | 304.462.5534
1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.2952
254 East Beckley Bypass | Beckley, WV 25801 | 504.255.5296
slswv.com

TOPO SECTION:

GRAFTON 7.5'

COUNTY

DISTRICT

TAYLOR

COURTHOUSE

DRAWN BY

JOB NO.

OPERATOR:

PREPARED FOR:
ARSENAL RESOURCES
6031 WALLACE RD. EXT.
SUITE 300
WEXFORD, PA 16090

DATE

SCALE

C.P.M.

9111

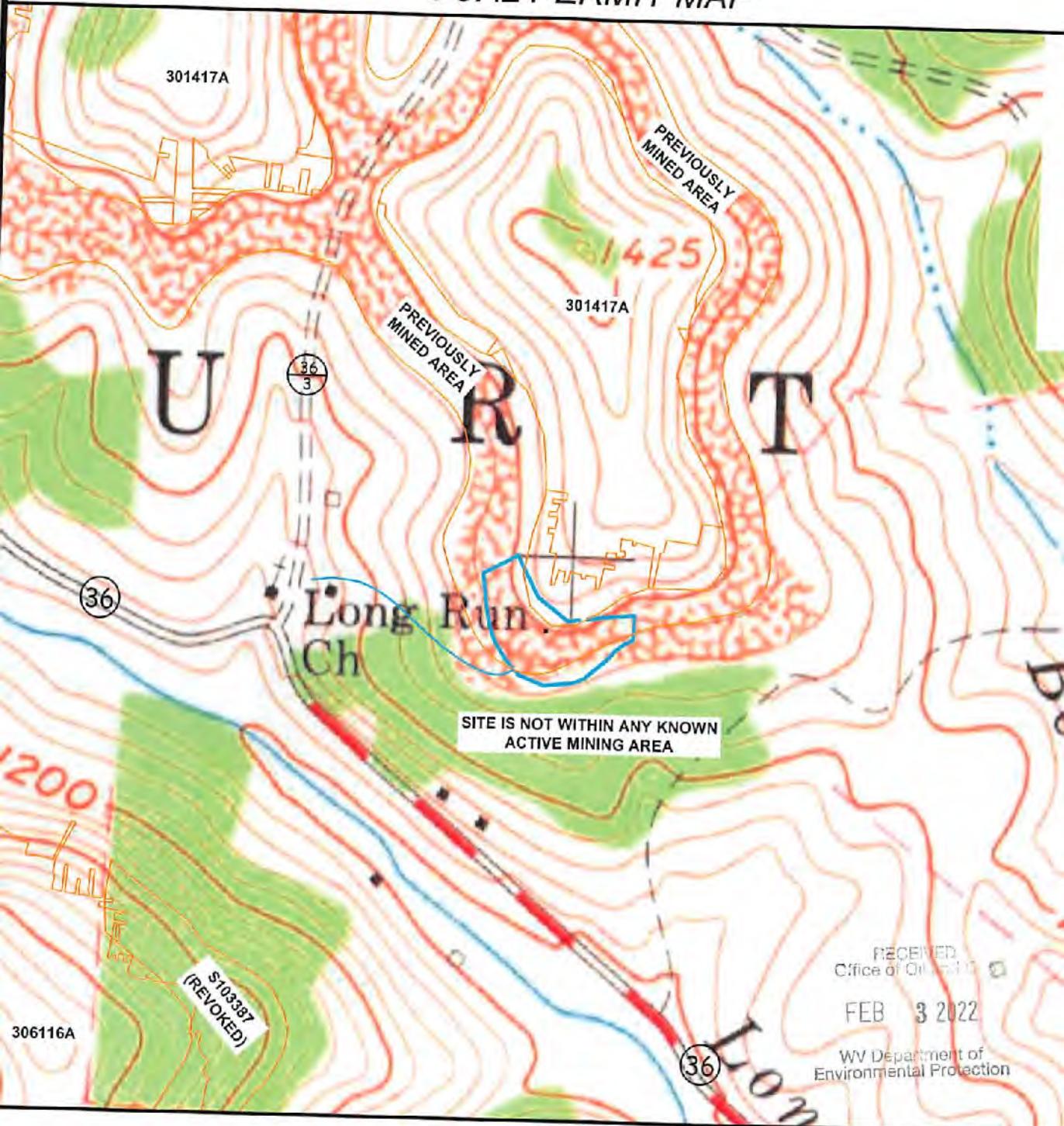
08-11-2021

1" = 500'



03/11/2022

PROPOSED ARMSTRONG II COAL PERMIT MAP



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WV Department of
Environmental Protection

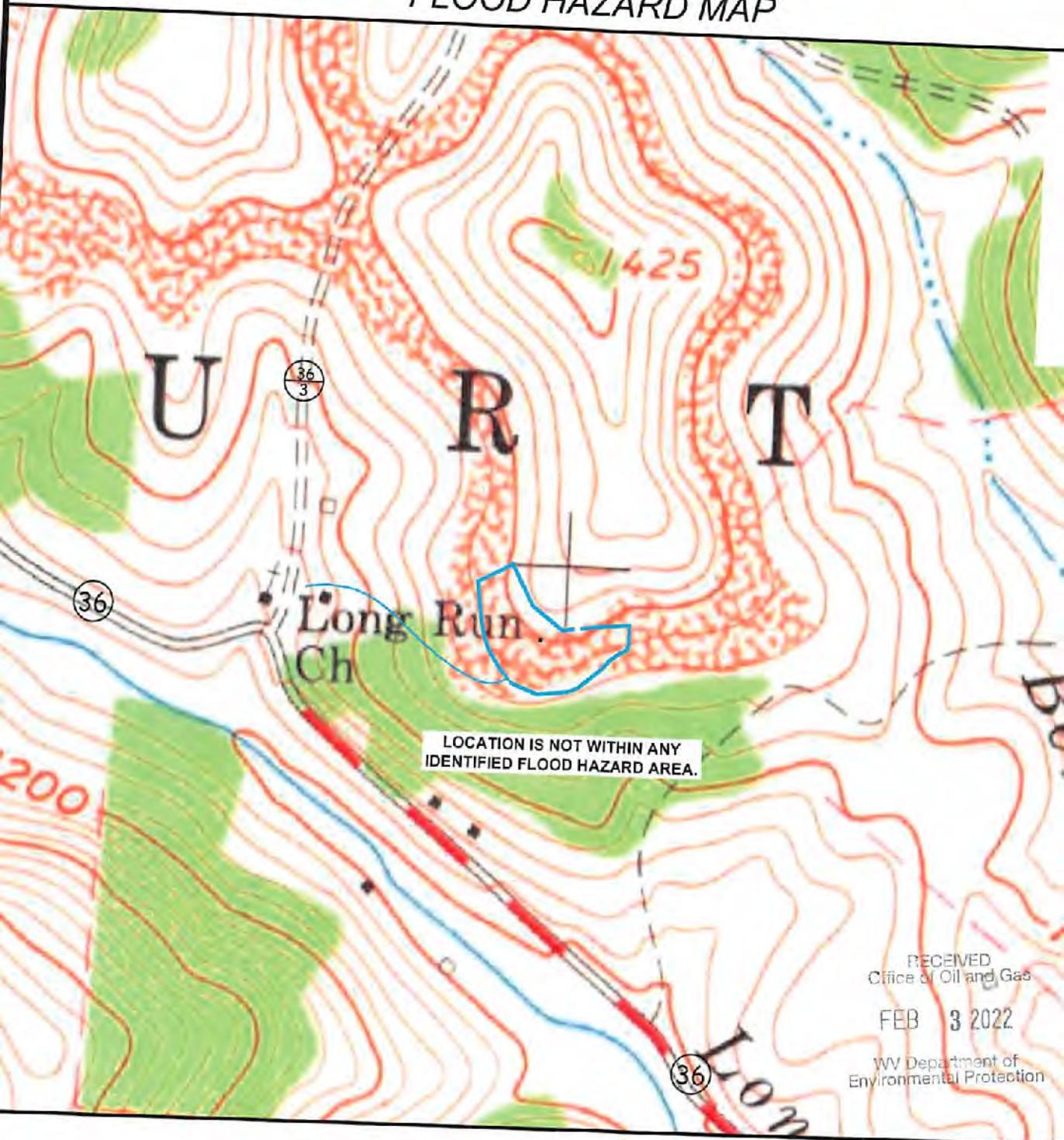


Annors Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5296
slserv.com

TOPO SECTION:		OPERATOR:	
GRAFTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	ARSENAL RESOURCES	
TAYLOR	COURTHOUSE	6031 WALLACE RD. EXT.	
		SUITE 300	
		WEXFORD, PA 15080	
DRAWN BY	JOB NO.	DATE	SCALE
C.P.M.	9111	08-11-2021	1" = 500'

ARSENAL
NEW YORK

PROPOSED ARMSTRONG II FLOOD HAZARD MAP



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WV Department of
Environmental Protection



SLS
FROM THE GROUND UP

1000 Main Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1000 Rawls Boulevard, East | Charleston, WV 25301 | 304.346.3952
 1000 East Beckley Bypass | SecMey, WV 25801 | 304.255.5296
 slswv.com

TOPO SECTION:		OPERATOR:	
GRAFTON 7.5'		PREPARED FOR:	
COUNTY	DISTRICT	ARSENAL RESOURCES	
TAYLOR	COURTHOUSE	6031 WALLACE RD. EXT.	
		SUITE 300	
		WEXFORD, PA 15090	
DRAWN BY	JOB NO.	DATE	SCALE
C.P.M.	9111	08-11-2021	1" = 500'

ARSENAL
RESOURCES

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF ENTRY FOR PLAT SURVEY**

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 5/11/2021 **Date of Planned Entry:** 06/21/2021

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
 REGISTERED MAIL
 METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Robert and Julie Armstrong

Address: 90 Freewill Drive
Flemington, WV 26347

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: See Attached

Address: _____

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MINERAL OWNER(s)

Name: See Attached

Address: _____

FEB 3 2022
WV Department of
Environmental Protection

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>39.2526781, -80.169049</u>
County: <u>Taylor</u>	Public Road Access: <u>CR13, CR 36 (Long Run Road) CR36/3</u>
District: <u>Court House</u>	Watershed: <u>Tygart Valley</u>
Quadrangle: <u>Grafton</u>	Generally used farm name: <u>Armstrong II</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Arsenal Resources 

Telephone: 724-940-1137

Email: rschweitzer@arsenalresources.com

Address: 6031 Wallace Road Extension, Suite 300
Wexford, PA 15090

Facsimile: 304-848-9134

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

03/11/2022

Arsenal Resources
Armstrong II Well Site

WW-6A3 Notice of Entry for Plat Survey – Attachment Page 1 of 1

Drill Site (Surface) 47-091-5-12-1

Robert L. Armstrong & Julie Armstrong
90 Freewill Drive
Flemington, WV 26347

Mineral

Robert L. Armstrong & Julie Armstrong
90 Freewill Drive
Flemington, WV 26347

Coal

CoalQuest Development, LLC
Attn: Chuck Duckworth
100 Tygart Drive
Grafton, West Virginia 26354

Surface 47-091-5-12-90

Robert L. Armstrong & Julie Armstrong
Rt. 1 Box 121
Flemington, WV 26347

Mineral

Kim R. Rogers
1672 Fairmont Avenue
Fairmont, WV 26554

Richard A. Vincent
142 Brighton Circle Road
Clarksburg, WV 26301

John Leo Dodd II & Jonathan Ian Dodd
2403 Pace Avenue
Mount Vernon, IL 62864

Coal

CoalQuest Development, LLC
Attn: Chuck Duckworth
100 Tygart Drive
Grafton, West Virginia 26354

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03/11/2022

Scanned 1/31/22 1366

908E 24PT 2000 1647 3806
701A 2290 0002 1647 9707

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

GAS

For delivery information, visit our website at www.usps.com®.
Flemington, WV 26347

Certified Mail Fee	\$3.75
Extra Services & Fees (check box, add fee as appropriate)	\$3.05
<input type="checkbox"/> Return Receipt (hardcopy)	\$0.00
<input type="checkbox"/> Return Receipt (electronic)	\$0.00
<input type="checkbox"/> Certified Mail Restricted Delivery	\$0.00
<input type="checkbox"/> Adult Signature Required	\$0.00
<input type="checkbox"/> Adult Signature Restricted Delivery	\$0.00
Postage	\$0.58
Total Postage and Fees	\$7.68

0011
01
Postmark Here
JAN 31 2022
01/31/2022
U.S. POSTAL SERVICE

Sent to: Robert & Julie Armstrong
Street: 90 Freewill Drive
City: Flemington, WV 26347

ARM II 214, 216
WV 6A1
WV-6A5

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WV Department of
Environmental Protection

03/11/2022



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

D. Alan Reed, P.E.
State Highway Engineer

Jimmy Wriston, P. E.
Secretary of Transportation
Commissioner of Highways

November 16, 2021

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Armstrong II Pad, Taylor County
Armstrong II 216 Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #04-2021-0828 which has been issued to Arsenal Resources, LLC for access to the State Road for a well site located off Taylor County Route 36/3 SLS MP 0.035.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Ross Schweitzer
Arsenal Resources LLC
CH, OM, D-4
File

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Environmental Protection

FRACTURING ADDITIVES			
	PURPOSE	TRADE NAME	CAS #
Additive #1:	Friction Reducer	WFRA-405	Proprietary
Additive #2:	Scale Inhibitor	SI-1000	7440-21-3
Additive #3:	Biocide	BIOCLEAR 2000	25314-61-8
Additive #4:	Gelling Agent	LGC-15	9000-30-0
Additive #5:	Corrosion Inhibitor	AI-300	111-76-2
Additive #6:	Gel Breaker	AP-One	7727-54-0
Additive #7:	Acid	HCl - 7.5%	7647-01-0

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Office of Oil and Gas

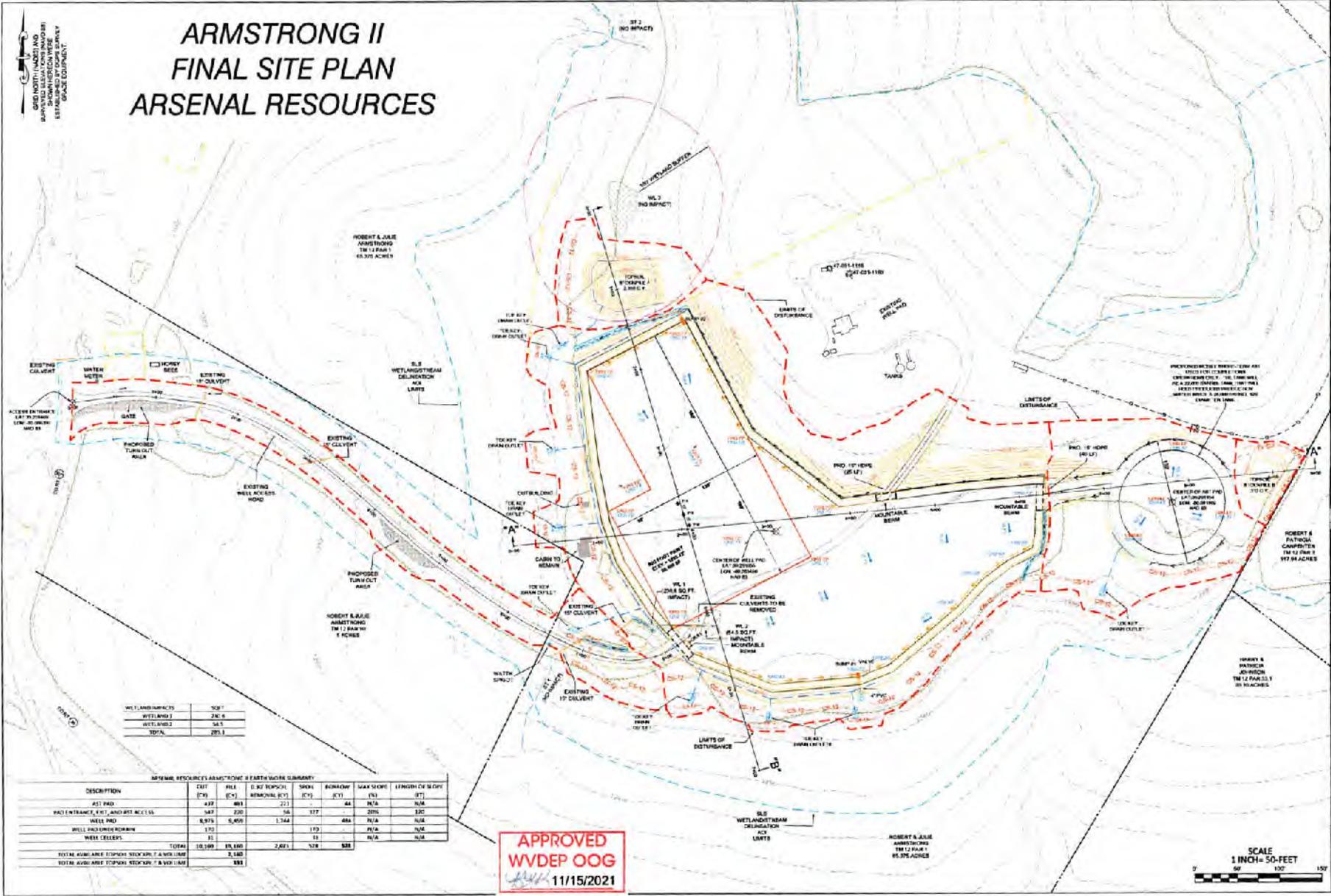
FEB 3 2022

WV Department of
Environmental Protection

03/11/2022

ARMSTRONG II FINAL SITE PLAN ARSENAL RESOURCES

GRID NORTH (NAD83) AND
SPATIAL DATUM (NAD83) ARE
ESTABLISHED BY FOUR STATION
GRADE EQUIPMENT.



ARMENAL RESOURCES'S ARMSTRONG II EARTH MOVER CLIMATE

DESCRIPTION	DATE	FILE	1:50 TOPOG	SPIN	BOUNDS	MAX SLOPE	LENGTH OF SLOPE
	(Y)	(C)	(E)	(Y)	(Y)	(%)	(FT)
AST PAD	437	881	221	-	44	N/A	N/A
PAD ENTRANCE, ERT, AND LAST ACCESS	547	700	58	177	206	2.87	2.87
WELL PAD UNDERNOB	875	5,400	1,344	-	484	N/A	N/A
WELL PAD UNDERNOB	170	-	170	-	-	N/A	N/A
WEEK CELEPS	51	-	51	-	-	N/A	N/A
TOTAL	10,100	10,100	2,665	528	828	-	-
TOTAL AVAILABLE TOPOG STOCKPILE & VOLUME			2,180				
TOTAL AVAILABLE TOPOG STOCKPILE & VOLUME			331				

APPROVED
WVDEP OOG
11/15/2021

SCALE
1 INCH = 50 FEET



ACCESS ROAD, WELL PAD, & AST PAD
ARMSTRONG II
FINAL SITE PLAN
COURTHOUSE DISTRICT
TAYLOR COUNTY, WV

DATE: 06/07/2021
SCALE: 1" = 50'
DESIGNED BY: C.P.M.
FILE NO: 9111
SHEET 8 OF 18
REV: 11/05/2021



Stansberry, Wade A <wade.a.stansberry@wv.gov>

H6A Horizontal Well Work Permit API: 47-091-01366)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Mon, Mar 7, 2022 at 1:59 PM

To: Ross Schweitzer <rschweitzer@arsenalresources.com>, C Kinsey <ckinsey@wvassessor.com>, "Greynolds, Kenneth L" <kenneth.l.greynolds@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.

47-091-01366 - 216

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

4 attachments

-  **47-091-01366 - Copy.pdf**
5051K
-  **91-01366 SSP signed.pdf**
4538K
-  **WMP02648 Armstrong II 2022.02.08.pdf**
216K
-  **IR-26 Blank.pdf**
169K

03/11/2022