

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-033-05911 County Harrison District Simpson
Quad Brownton Pad Name Pritt South Field/Pool Name _____
Farm name Ira and Laura Pritt Well Number 207
Operator (as registered with the OOG) Arsenal Resources
Address 6031 Wallace Rd Ext, Ste 3000 City Wexford State PA Zip 15090

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4344375.0 Easting 570144.9
Landing Point of Curve Northing 4344377.1 Easting 571142.5
Bottom Hole Northing 4341397.3 Easting 572226.1

Elevation (ft) 1345.9 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Synthetic Oil Based

Date permit issued 11/15/2017 Date drilling commenced 1/22/2019 Date drilling ceased 6/6/2019
Date completion activities began 6/9/19 Date completion activities ceased 1/30/2020
Verbal plugging (Y/N) NA Date permission granted NA Granted by NA

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 167, 216', 231', 301', 371' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1391' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 474', 581', 642', 701', 766', 833', 852' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
SDW 5/20/2020

WR-35
Rev. 8/23/13

API 47-033 - 05911

Farm name Ira and Laura Pritt

Well number 207

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	24"	80'	New	41.0	NA	Y
Surface	17 1/2"	13 3/8"	455'	New	54.5	362.09'	Y
Coal	NA	NA	NA	NA	NA	NA	N
Intermediate 1	12 1/4"	9 5/8"	1,501'	New	40.0	NA	Y
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	8 1/2"	5 1/2"	19,561'	New	20.0	NA	Y
Tubing	NA	NA	NA	NA	NA	NA	NA
Packer type and depth set		NA					

Comment Details Cement to surface on Conductor, Surface, and Intermediate. Top of production cement at 1,324'(GL)ft.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	210	15.60	1.18	247.8	Surface	8+
Surface	A	505	15.60	1.20	606	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	A	500	15.70	1.29	645	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	A	1,090/2,191	13.80/15.00	1.58/1.29	1,722.2/2,826.39	1,324' (GL)	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 19,578'(GL) Loggers TD (ft) NA
 Deepest formation penetrated Marcellus Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 7,691' (GL)

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 24"- No centralizers, 13 3/8"- one bow spring centralizer on every other joint, 9 5/8"- one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 1,400'; there will be no centralizers from 1,400' to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS 53 stages, and 2,120 perforations

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

Perforation Record					
Stage No.	Perforation Date	Perforated from Top MD ft.	Perforated to BTM MD ft.	Number of Perforations	Formations (s)
53	7/21/2019	8,978.00	9,140.00	40	Marcellus, Original Hole
52	7/20/2019	9,178.00	9,340.00	40	Marcellus, Original Hole
51	7/20/2019	9,378.00	9,540.00	40	Marcellus, Original Hole
50	7/19/2019	9,578.00	9,740.00	40	Marcellus, Original Hole
49	7/19/2019	9,778.00	9,940.00	40	Marcellus, Original Hole
48	7/18/2019	9,978.00	10,140.00	40	Marcellus, Original Hole
47	7/18/2019	10,178.00	10,340.00	40	Marcellus, Original Hole
46	7/17/2019	10,378.00	10,540.00	40	Marcellus, Original Hole
45	7/17/2019	10,578.00	10,740.00	40	Marcellus, Original Hole
44	7/16/2019	10,778.00	10,940.00	40	Marcellus, Original Hole
43	7/16/2019	10,978.00	11,140.00	40	Marcellus, Original Hole
42	7/15/2019	11,178.00	11,340.00	40	Marcellus, Original Hole
41	7/14/2019	11,378.00	11,540.00	40	Marcellus, Original Hole
40	7/14/2019	11,578.00	11,740.00	40	Marcellus, Original Hole
39	7/13/2019	11,778.00	11,940.00	40	Marcellus, Original Hole
38	7/13/2019	11,978.00	12,140.00	40	Marcellus, Original Hole
37	7/13/2019	12,178.00	12,340.00	40	Marcellus, Original Hole
36	7/12/2019	12,378.00	12,540.00	40	Marcellus, Original Hole
35	7/12/2019	12,578.00	12,740.00	40	Marcellus, Original Hole
34	7/11/2019	12,778.00	12,940.00	40	Marcellus, Original Hole
33	7/10/2019	12,978.00	13,140.00	40	Marcellus, Original Hole
32	7/10/2019	13,178.00	13,340.00	40	Marcellus, Original Hole
31	7/9/2019	13,378.00	13,540.00	40	Marcellus, Original Hole
30	7/8/2019	13,578.00	13,740.00	40	Marcellus, Original Hole
29	7/8/2019	13,778.00	13,940.00	40	Marcellus, Original Hole
28	7/7/2019	13,978.00	14,140.00	40	Marcellus, Original Hole
27	7/7/2019	14,178.00	14,340.00	40	Marcellus, Original Hole
26	7/6/2019	14,378.00	14,540.00	40	Marcellus, Original Hole
25	7/6/2019	14,578.00	14,740.00	40	Marcellus, Original Hole
24	7/5/2019	14,778.00	14,940.00	40	Marcellus, Original Hole
23	7/4/2019	14,978.00	15,140.00	40	Marcellus, Original Hole
22	7/3/2019	15,178.00	15,340.00	40	Marcellus, Original Hole
21	7/3/2019	15,378.00	15,540.00	40	Marcellus, Original Hole
20	7/2/2019	15,578.00	15,740.00	40	Marcellus, Original Hole
19	7/1/2019	15,778.00	15,940.00	40	Marcellus, Original Hole
18	7/1/2019	15,978.00	16,140.00	40	Marcellus, Original Hole
17	6/30/2019	16,178.00	16,340.00	40	Marcellus, Original Hole
16	6/30/2019	16,378.00	16,540.00	40	Marcellus, Original Hole
15	6/29/2019	16,578.00	16,740.00	40	Marcellus, Original Hole
14	6/29/2019	16,778.00	16,940.00	40	Marcellus, Original Hole
13	6/28/2019	16,978.00	17,140.00	40	Marcellus, Original Hole
12	6/27/2019	17,178.00	17,340.00	40	Marcellus, Original Hole

11	6/27/2019	17,378.00	17,540.00	40	Marcellus, Original Hole
10	6/26/2019	17,578.00	17,740.00	40	Marcellus, Original Hole
9	6/26/2019	17,778.00	17,940.00	40	Marcellus, Original Hole
8	6/25/2019	17,978.00	18,140.00	40	Marcellus, Original Hole
7	6/24/2019	18,178.00	18,340.00	40	Marcellus, Original Hole
6	6/23/2019	18,378.00	18,740.00	40	Marcellus, Original Hole
5	6/22/2019	18,578.00	18,740.00	40	Marcellus, Original Hole
4	6/22/2019	18,778.00	18,940.00	40	Marcellus, Original Hole
3	6/21/2019	18,978.00	19,140.00	40	Marcellus, Original Hole
2	6/21/2019	19,178.00	19,340.00	40	Marcellus, Original Hole
1	6/16/2019	19,418.00	19,514.00	40	Marcellus, Original Hole

STIMULATION INFORMATION PER STAGE								
Stage No.	Stimulations Date	Avg Pump Rate (BPM)	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (psi)	Amount of Proppant(lb)	Amount of Water (bbls)	Amount of Nitrogen/ Other (units)
1	6/21/2019	72.30	8,176	6,699	5,374	447,660	10,541	NA
2	6/21/2019	76.10	8,510	5,169	5,276	449,060	16,961	NA
3	6/22/2019	75.10	8,459	5,633	5,600	462,740	9,827	NA
4	6/22/2019	74.60	8,583	6,780	4,845	313,440	8,297	NA
5	6/23/2019	69.70	8,049	7,515	4,843	338,280	10,145	NA
6	6/24/2019	78.90	8,415	7,584	5,520	498,450	9,522	NA
7	6/25/2019	70.00	8,498	7,615	5,389	501,160	9,641	NA
8	6/26/2019	65.10	8,535	8,431	5,760	463,080	9,969	NA
9	6/26/2019	70.20	8,653	7,550	5,037	465,500	10,125	NA
10	6/26/2019	70.60	8,503	8,377	5,370	398,840	9,927	NA
11	6/27/2019	75.30	8,528	7,469	4,685	501,520	9,993	NA
12	6/28/2019	68.20	8,568	8,674	4,964	377,800	10,030	NA
13	6/28/2019	72.30	8,520	7,821	6,019	500,460	9,216	NA
14	6/29/2019	71.70	8,505	7,289	6,026	394,840	10,090	NA
15	6/30/2019	69.20	8,531	8,209	6,448	320,900	10,028	NA
16	6/30/2019	72.20	8,521	7,500	5,107	352,340	9,319	NA
17	7/1/2019	76.90	8,399	7,421	6,203	500,160	9,887	NA
18	7/1/2019	74.80	8,249	8,070	5,083	320,380	7,265	NA
19	7/2/2019	73.60	8,405	8,213	5,344	500,440	10,075	NA
20	7/3/2019	68.20	8,531	8,503	6,470	507,500	9,900	NA
21	7/3/2019	64.50	8,437	7,560	4,605	277,080	10,100	NA
22	7/3/2019	61.10	8,414	8,347	4,974	341,740	9,622	NA
23	7/5/2019	69.50	8,045	8,101	5,274	504,500	9,401	NA
24	7/6/2019	71.30	8,363	8,535	5,066	410,020	9,254	NA
25	7/6/2019	73.80	8,423	7,953	6,131	488,700	9,658	NA
26	7/7/2019	76.70	8,543	8,362	6,370	477,520	9,974	NA
27	7/7/2019	78.70	8,355	7,543	5,961	499,900	10,348	NA
28	7/8/2019	73.40	8,579	8,032	5,028	376,560	9,897	NA
29	7/8/2019	77.20	8,320	7,890	4,765	45,770	9,905	NA
30	7/9/2019	78.60	8,434	7,688	5,435	502,320	9,263	NA
31	7/9/2019	78.20	8,664	7,918	5,763	499,020	9,615	NA
32	7/10/2019	80.90	8,229	6,945	5,090	500,240	9,166	NA
33	7/11/2019	76.90	8,329	7,637	5,971	501,840	9,480	NA
34	7/12/2019	78.50	8,197	7,562	5,950	500,720	10,024	NA
35	7/12/2019	80.00	8,212	8,006	6,000	505,840	9,232	NA
36	7/12/2019	76.20	8,392	7,754	5,288	389,380	9,373	NA
37	7/13/2019	80.40	8,337	8,141	5,978	504,120	9,433	NA
38	7/13/2019	79.70	8,354	7,740	5,858	506,800	9,842	NA

39	7/14/2019	71.90	8,663	8,566	6,353	501,440	9,421	NA
40	7/14/2019	73.60	8,313	7,948	4,794	416,860	9,979	NA
41	7/15/2019	78.70	8,174	7,563	5,161	482,660	9,973	NA
42	7/16/2019	75.60	8,339	8,624	4,799	424,700	10,004	NA
43	7/16/2019	80.50	7,938	7,505	5,040	506,240	9,592	NA
44	7/17/2019	80.80	7,738	7,711	4,911	508,560	9,276	NA
45	7/17/2019	78.70	7,862	7,533	4,735	471,380	10,016	NA
46	7/18/2019	81.00	7,908	7,552	5,135	503,620	9,493	NA
47	7/18/2019	80.60	7,776	7,874	5,607	501,610	9,529	NA
48	7/19/2019	81.00	7,496	7,372	5,775	504,840	9,404	NA
49	7/19/2019	82.00	7,584	7,838	6,007	501,380	9,906	NA
50	7/20/2019	80.80	7,673	8,154	6,216	507,660	9,739	NA
51	7/20/2019	80.30	7,789	7,626	5,477	507,800	9,641	NA
52	7/21/2019	80.00	7,688	7,891	5,547	503,330	8,742	NA
53	7/21/2019	81.60	7,473	7,293	5,601	496,380	8,848	NA

WR-35
Rev. 8/23/13

API 47- 033 - 05911 Farm name Ira and Laura Pritt Well number 207

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus Shale	7,861'	TVD	19,605' MD
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
Sand/Silt	0	474	0	474	Freshwater @ 167', 216', 231', 301', 371'
Sand/Silt/Coal	474	642	474	642	Bakerstown Coal @ 474' TVD, Brush Creek Coal @ 581'TVD
Sand/Silt/Coal	642	766	642	766	Upper Freeport @ 642' TVD, Lower Freeport @ 701' TVD
Sand/Silt/Coal	766	1533	766	1544	Upper Kittanning @ 766' TVD, Middle Kittanning @ 833' TVD, Lower Kittanning @ 852' TVD, Saltwater @ 1,391'
Big Lime	1533	1703	1544	1718	Limestone
Balltown	3127	3173	3170	3219	Sandstone
Elk Siltstone	4876	4924	5185	5240	Siltstone
Burkett	7452	7475	8184	8217	Shale
Tully	7475	7522	8217	8288	Limestone
Mahantango	7522	7697	8288	8654	Shale
Marcellus	7697	7764	8654	8990	Shale
Purcell	7764	7768	8990	9022	Limestone
Lower Marcellus	7768	7790	9022	19605	Shale - Gas shows through lateral
Onondaga	7790*				*Onondaga not penetrated - top estimated based on 4700103013 thickness

Please insert additional pages as applicable.

Drilling Contractor Helmerich & Payne
Address 1437 South Boulder Ave City Tulsa State OK Zip 74119

Logging Company NA
Address _____ City _____ State _____ Zip _____

Cementing Company Schlumberger
Address 1080 Us Highway City Weston State WV Zip 26452

Stimulating Company BJ Services, Inc.
Address 88 Heckmans Gap Rd. City Mill Hall State PA Zip 17751

Please insert additional pages as applicable.

Completed by Arsenal Resources Telephone 724-584-1192
Signature [Signature] Title Sr. Director of Drilling Date 2-24-2020

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

WR-36
Rev. 5/08

Date: 2/17/20
Operators Well Number: Pritt South 207
API Well No: 47-033 - 05911

**State of West Virginia
Department of Environmental Protection
Office of Oil and Gas**

Well Operator's Report of
Initial Gas-Oil Ratio

Well Operator Arsenal Resources LLC
Address 6031 Wallace Road Ext. Suite 300
Wexford, PA 15090

Designated Agent Gary Short
Address 633 W Main Street
Bridgeport, WV 26330

Geological Target Formation: Marcellus Depth 8654' feet
Perforation Interval 8978' - 19514' feet

Guidelines for testing:

1. A minimum of gas vented or flared.
2. A 24 hour pre-flow into pipelines or tanks.
3. Uniform producing rate during the 24 hour test per test period.
4. Measurement standards as for Form WR-39, "Report of Annual Production" (see 35CSR4-15)
5. Separate Form WR-36 for each producing formation in a multiple completion.

TEST DATA

Start of Test Date 1/29/20		Time 8:00 AM		End of Test Date 1/30/20		Time 8:00 AM		Duration of Test 24 Hrs	
Tubing Pressure NA		Casing Pressure 2150		Separator Pressure 542		Separator Temperature 65			
Oil Production During Test 0		Gas Production During Test 17,808		Water Production During Test 623		-Salinity 65,518			
Oil Gravity NA		API		Producing Method (flowing, pumping, gas lift etc.) Flowing					

GAS PRODUCTION

Measurement Method Flange Tap <input checked="" type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>			Positive Choke <input type="checkbox"/>		
			Positive flow prover <input checked="" type="checkbox"/>		
Orifice diameter		Pipe Diameter (inside)		Nominal Choke Size inches 48/64"	
Differential Pressure range		Max. Static pressure range		Prover and Orifice diameter - inches 3.828" run with 2.5" orifice	
Differential 282" H2O			Static		
Gas Gravity (Air = 1.0) Measured .5710 Estimated		Flowing Temperature 65		Gas Temperature 60	
24 Hour Coefficient		24 Hour coefficient pressure PSIA			

TEST RESULTS

Daily Oil 0		Daily Water 623 BBLs		Daily Gas 17,808 MCF		Gas-Oil Ratio NA	
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Arsenal Resources LLC

BY  Well Operator

ITS: Responsible Person - Sr. Director of Drilling

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Office of Oil and Gas
FEB 28 2020
Department of
Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/20/2019
Job End Date:	7/21/2019
State:	West Virginia
County:	Harrison
API Number:	47-033-05911-00-00
Operator Name:	Arsenal Resources
Well Name and Number:	Pritt South 207
Latitude:	39.24585724
Longitude:	-80.18711853
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,200
Total Base Water Volume (gal):	20,057,731
Total Base Non Water Volume:	0



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 FEB 23 2020

Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier					
			Water	7732-18-5	100.00000	86.79757	
Sand, White	BJ Services	Proppant					
			Listed Below				

Other Chemical (s)	BJ Services	See Trade Name (s) List	Water	7732-18-5	100.00000	0.53073
HCl, 5.1 - 7.5%	BJ Services	Acidizing		Listed Below		
ThinFrac FRW-03C	BJ Services	Friction Reducer		Listed Below		
FraCare SI-01	BJ Services	Scale Inhibitor		Listed Below		
BIOC11139A	BJ Services	Biocide		Listed Below		
HCl, 10.1 - 15%	BJ Services	Acidizing		Listed Below		
ResCare IC 300L	BJ Services	Iron Control		Listed Below		
CI-14	BJ Services	Corrosion Inhibitor		Listed Below		
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.						
			Crystalline Silica (Quartz)	14808-60-7	100.00000	12.55826
			Hydrochloric Acid	7647-01-0	15.00000	0.03776

				Quaternized Acrylate Polymer	35429-19-7	25.00000	0.03048
				Petroleum Distillates	64742-47-8	25.00000	0.03048
				Sodium chloride	7647-14-5	2.50000	0.00305
				Surfactant blend	68439-45-2	2.50000	0.00305
				Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00289
				Citric Acid	77-92-9	60.00000	0.00228
				Glutaraldehyde	111-30-8	10.00000	0.00096
				Methanol	67-56-1	100.00000	0.00088
				Organo phosphorus salt	Trade Secret	5.00000	0.00062
				Ethanol	64-17-5	5.00000	0.00048
				Polyoxyalkylenes	68951-67-7	30.00000	0.00026
				Fatty Acids	61790-12-3	10.00000	0.00009
				Modified Thiourea Polymer	68527-49-1	7.00000	0.00006
				Olefin	64743-02-8	5.00000	0.00004
				Propargyl Alcohol	107-19-7	5.00000	0.00004
				Formaldehyde	50-00-0	1.00000	0.00001
				Hydrochloric acid	7647-01-0	1.00000	0.00001

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

10,891' B.H. 10,858' B.H. 5,793' T.H.

T.H. LATITUDE 39°15'00"
B.H. LATITUDE 39°12'30"

ARSENAL RESOURCES PRITT SOUTH 207

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD'83 S.P.C.(FT) N. 272,405.8 E. 1,773,902.5
NAD'83 GEO. LAT-(N) 39.245857 LONG-(W) 80.187121
NAD'83 UTM (M) N. 4,344,375.0 E. 570,144.9

LANDING POINT

NAD'83 S.P.C.(FT) N. 272,641.8 E. 1,777,072.9
NAD'83 GEO. LAT-(N) 39.246571 LONG-(W) 80.175932
NAD'83 UTM (M) N. 4,344,462.9 E. 571,109.6

BOTTOM HOLE

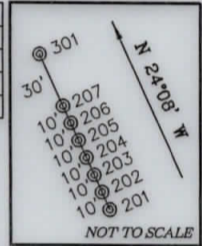
NAD'83 S.P.C.(FT) N. 262,591.9 E. 1,780,536.7
NAD'83 GEO. LAT-(N) 39.219050 LONG-(W) 80.163440
NAD'83 UTM (M) N. 4,341,418.6 E. 572,215.8

TAG	SURFACE OWNER	TAX MAP/ PARCEL	ACREAGE
HARRISON COUNTY			
A	IRA H. & LAURA E. PRITT	351-4	69.09±
B	ORAN LEE WARDER, ET AL	351-7	47.40±
C	RENEE JOHNSON	351-9	97.72±
D	RENEE JOHNSON	351-10	85.00±
E	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-11	52.19±
F	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-24	153.08±
BARBOUR COUNTY			
G	JO ANN V SMITH & GARY M. BROWN, JR.	10-1	70.00±
H	JO ANN V SMITH & GARY M. BROWN, JR.	10-2	98.00±
I	POLINO ENTERPRISES, INC.	11-1	289.5±

PRITT SOUTH 207 WELL TIES

LINE	BEARING	DISTANCE
L1	N 76°02' W	2117.37'
L2	S 02°17' W	1319.24'
L3	N 74°12' E	3079.25'
L4	S 19°01' E	636.68'

PRITT SOUTH PAD LAYOUT



NAD'83 GRID NORTH

T.H. LONGITUDE 80°10'00"
B.H. LONGITUDE 80°07'30"

11,273' B.H.

11,343' B.H.

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- LEASE TAG

LEGEND

- AS DRILLED
- PROPOSED

AS DRILLED COORDINATES FOR WELL NO. 207

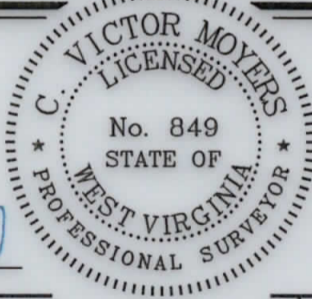
(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
NAD'83 S.P.C.(FT) N. 272,405.8 E. 1,773,902.5
NAD'83 GEO. LAT-(N) 39.245857 LONG-(W) 80.187121
NAD'83 UTM (M) N. 4,344,375.0 E. 570,144.9

LANDING POINT
NAD'83 S.P.C.(FT) N. 272,358.2 E. 1,777,176.0
NAD'83 GEO. LAT-(N) 39.245794 LONG-(W) 80.175561
NAD'83 UTM (M) N. 4,344,377.1 E. 571,142.5

BOTTOM HOLE
NAD'83 S.P.C.(FT) N. 262,521.4 E. 1,780,569.1
NAD'83 GEO. LAT-(N) 39.218857 LONG-(W) 80.163324
NAD'83 UTM (M) N. 4,341,397.3 E. 572,226.1

NOTES ON SURVEY

- No water wells were found within 250' of proposed gas well.
- No agricultural buildings > 2500 sq. ft. or dwellings were found within 625' of the center of proposed well pad.
- Location of 625 sq. ft. grave site as recorded in db 80 pg 433, situated within 71.5 acres and 11.5 acres, unable to be determined. Proper leasing of 625 sq. ft. tract to be obtained prior to drilling within the 71.5 and 11.5 acre tracts.
- Well spot circle & topo mark scale is 1"=2000'
- As-drilled data provided by Arsenal Resources.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 16, 20 19

REVISED _____
OPERATORS WELL NO. PRITT SOUTH 207
API WELL NO. 47 - 033 - 5911
STATE COUNTY PERMIT

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5634
www.slsnv.com

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

P.S. 849 *C. Victor Moyers*

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8383AD207.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 LIQUID INJECTION ___ WASTE DISPOSAL ___ IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION:
ELEVATION EXISTING: 1,341.70' / PROPOSED: 1,345.90' WATERSHED BEARDS RUN & PIGTAIL RUN
DISTRICT SIMPSON COUNTY HARRISON QUADRANGLE BROWNTON 7.5'
SURFACE OWNER IRA & LAURA PRITT ACREAGE 69.096±
ROYALTY OWNER IRA & LAURA PRITT ET AL ACREAGE 69.096±
PROPOSED WORK: LEASE NO. 00006622
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 19,484.8' TMD / 7,783' TVD

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT WILLIAM VEIGEL
ADDRESS 6031 WALLACE RD. EXT. SUITE 300 ADDRESS 65 PROFESSIONAL PLACE
WEXFORD, PA 15090 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT