

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

API 47-033-05909 County Harrison District Simpson
Quad Brownton Pad Name Pritt South Field/Pool Name _____
Farm name Ira and Laura Pritt Well Number 206

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 4344372.2 Easting 570146.2
Landing Point of Curve Northing 4344374.9 Easting 570869.3
Bottom Hole Northing 4341099.1 Easting 572066.0

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 1/17/2019 Date drilling ceased 5/28/2019
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:
SPDW 5/20/2020

API 47- 033 - 05909 Farm name Ira and Laura Pritt Well number 206

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	24"	24"	80'	New	41.0	NA	Y
Surface	17 1/2"	13 3/8"	448' GL	New	54.5	144'	Y
Coal	NA	NA	NA	NA	NA	NA	N
Intermediate 1	12 1/4"	9 5/8"	1,501' GL	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"	20,156' GL	New	20.0	NA	N
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 108'(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	462	15.60	1.20	554.4	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	A	478	15.60	1.29	616.62	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	A	1,026/2,383	13.80/15.00	1.58/1.29	1,621.08/3,074.07	108' GL	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 20,180'(GL) Loggers TD (ft) NA
 Deepest formation penetrated Marcellus Plug back to (ft) NA
 Plug back procedure NA

Kick off depth (ft) 7,409'

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 58 Stages, 2,320 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)
58	7/22/2019	8,577.00	8,739.00	40	Marcellus, Original Hole
57	7/22/2019	8,777.00	8,939.00	40	Marcellus, Original Hole
56	7/21/2019	8,977.00	9,139.00	40	Marcellus, Original Hole
55	7/21/2019	9,177.00	9,339.00	40	Marcellus, Original Hole
54	7/20/2019	9,377.00	9,539.00	40	Marcellus, Original Hole
53	7/20/2019	9,577.00	9,739.00	40	Marcellus, Original Hole
52	7/20/2019	9,777.00	9,939.00	40	Marcellus, Original Hole
51	7/19/2019	9,977.00	10,139.00	40	Marcellus, Original Hole
50	7/18/2019	10,177.00	10,339.00	40	Marcellus, Original Hole
49	7/18/2019	10,377.00	10,539.00	40	Marcellus, Original Hole
48	7/17/2019	10,577.00	10,739.00	40	Marcellus, Original Hole
47	7/17/2019	10,777.00	10,939.00	40	Marcellus, Original Hole
46	7/17/2019	10,977.00	11,139.00	40	Marcellus, Original Hole
45	7/16/2019	11,177.00	11,339.00	40	Marcellus, Original Hole
44	7/16/2019	11,377.00	11,539.00	40	Marcellus, Original Hole
43	7/15/2019	11,577.00	11,739.00	40	Marcellus, Original Hole
42	7/14/2019	11,777.00	11,939.00	40	Marcellus, Original Hole
41	7/14/2019	11,977.00	12,139.00	40	Marcellus, Original Hole
40	7/13/2019	12,177.00	12,339.00	40	Marcellus, Original Hole
39	7/13/2019	12,377.00	12,539.00	40	Marcellus, Original Hole
38	7/13/2019	12,577.00	12,739.00	40	Marcellus, Original Hole
37	7/12/2019	12,777.00	12,939.00	40	Marcellus, Original Hole
36	7/11/2019	12,977.00	13,139.00	40	Marcellus, Original Hole
35	7/11/2019	13,177.00	13,339.00	40	Marcellus, Original Hole
34	7/10/2019	13,377.00	13,539.00	40	Marcellus, Original Hole
33	7/10/2019	13,577.00	13,739.00	40	Marcellus, Original Hole
32	7/9/2019	13,777.00	13,939.00	40	Marcellus, Original Hole
31	7/8/2019	13,977.00	14,139.00	40	Marcellus, Original Hole
30	7/8/2019	14,177.00	14,339.00	40	Marcellus, Original Hole
29	7/8/2019	14,377.00	14,539.00	40	Marcellus, Original Hole
28	7/7/2019	14,577.00	14,739.00	40	Marcellus, Original Hole
27	7/7/2019	14,777.00	14,939.00	40	Marcellus, Original Hole
26	7/6/2019	14,977.00	15,139.00	40	Marcellus, Original Hole
25	7/6/2019	15,177.00	15,339.00	40	Marcellus, Original Hole
24	7/5/2019	15,377.00	15,539.00	40	Marcellus, Original Hole
23	7/3/2019	15,577.00	15,739.00	40	Marcellus, Original Hole
22	7/3/2019	15,777.00	15,939.00	40	Marcellus, Original Hole
21	7/2/2019	15,977.00	16,139.00	40	Marcellus, Original Hole
20	7/2/2019	16,177.00	16,339.00	40	Marcellus, Original Hole
19	7/1/2019	16,377.00	16,539.00	40	Marcellus, Original Hole
18	7/1/2019	16,577.00	16,739.00	40	Marcellus, Original Hole
17	6/30/2019	16,777.00	16,939.00	40	Marcellus, Original Hole

16	6/29/2019	16,977.00	17,139.00	40	Marcellus, Original Hole
15	6/29/2019	17,177.00	17,339.00	40	Marcellus, Original Hole
14	6/28/2019	17,377.00	17,539.00	40	Marcellus, Original Hole
13	6/28/2019	17,577.00	17,739.00	40	Marcellus, Original Hole
12	6/27/2019	17,777.00	17,939.00	40	Marcellus, Original Hole
11	6/26/2019	17,977.00	18,139.00	40	Marcellus, Original Hole
10	6/26/2019	18,177.00	18,339.00	40	Marcellus, Original Hole
9	6/25/2019	18,377.00	18,539.00	40	Marcellus, Original Hole
8	6/25/2019	18,577.00	18,739.00	40	Marcellus, Original Hole
7	6/24/2019	18,777.00	18,939.00	40	Marcellus, Original Hole
6	6/23/2019	18,977.00	19,139.00	40	Marcellus, Original Hole
5	6/22/2019	19,177.00	19,339.00	40	Marcellus, Original Hole
4	6/22/2019	19,377.00	19,539.00	40	Marcellus, Original Hole
3	6/21/2019	19,577.00	19,739.00	40	Marcellus, Original Hole
2	6/20/2019	19,777.00	19,939.00	40	Marcellus, Original Hole
1	6/16/2019	19,977.00	20,117.00	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	6/20/2019	68.20	8,455	8,261	5,280	370,300	10,210	NA
2	6/21/2019	71.00	8,442	6,331	6,002	404,800	9,844	NA
3	6/21/2019	76.50	8,475	6,583	5,607	422,500	9,931	NA
4	6/22/2019	76.90	8,568	5,251	5,586	383,820	10,037	NA
5	6/22/2019	70.40	8,390	8,606	5,077	429,620	9,889	NA
6	6/24/2019	73.60	8,519	7,182	5,358	405,510	9,900	NA
7	6/25/2019	71.40	8,440	7,735	6,143	502,620	9,981	NA
8	6/25/2019	71.00	8,528	7,389	5,878	453,720	9,897	NA
9	6/26/2019	70.70	8,629	7,295	6,069	500,240	10,032	NA
10	6/26/2019	70.30	8,468	7,505	5,250	501,900	9,553	NA
11	6/27/2019	72.80	8,646	7,977	5,760	414,120	9,795	NA
12	6/28/2019	70.00	8,540	8,091	4,732	501,960	9,647	NA
13	6/28/2019	73.00	8,405	7,850	5,151	501,040	9,520	NA
14	6/29/2019	74.50	8,561	7,235	5,130	432,300	9,583	NA
15	6/29/2019	70.60	8,522	8,145	5,973	461,880	9,944	NA
16	6/30/2019	71.80	8,499	7,435	4,749	399,020	9,912	NA
17	7/1/2019	66.10	8,471	7,630	5,022	318,980	9,119	NA
18	7/1/2019	77.40	8,556	7,263	4,832	497,000	9,687	NA
19	7/2/2019	75.00	8,459	7,605	5,138	499,500	10,074	NA
20	7/2/2019	78.90	8,459	7,903	5,900	478,120	9,537	NA
21	7/3/2019	76.00	8,342	7,197	5,846	500,780	9,669	NA
22	7/3/2019	77.90	8,241	7,641	5,806	500,140	9,882	NA
23	7/5/2019	81.10	8,648	7,735	6,019	506,560	9,682	NA
24	7/5/2019	76.20	8,457	7,877	5,429	443,160	10,023	NA
25	7/6/2019	79.10	8,538	8,160	5,464	504,400	9,940	NA
26	7/6/2019	79.20	8,451	7,764	6,534	485,840	10,019	NA
27	7/29/2019	78.30	8,535	7,781	6,000	499,220	9,676	NA
28	7/7/2019	76.40	8,398	7,591	5,130	456,240	10,027	NA
29	7/7/2019	73.60	8,260	8,508	5,864	497,520	9,430	NA
30	7/8/2019	80.20	8,272	7,316	6,397	508,720	9,190	NA
31	7/8/2019	76.10	8,460	8,218	5,536	411,000	9,943	NA
32	7/10/2019	69.50	8,449	7,777	5,485	358,020	9,939	NA
33	7/10/2019	80.20	8,379	7,254	6,025	492,900	9,438	NA
34	7/10/2019	79.60	8,282	7,375	6,340	437,940	10,055	NA
35	7/11/2019	80.10	8,365	7,408	5,905	500,140	9,889	NA
36	7/12/2019	79.60	8,264	6,186	6,119	499,300	9,190	NA
37	7/12/2019	70.90	8,443	7,492	4,709	468,700	10,300	NA
38	7/13/2019	77.70	8,393	6,950	5,979	420,140	9,351	NA

39	7/13/2019	81.10	8,285	7,474	5,209	495,040	9,548	NA
40	7/14/2019	78.90	8,269	8,453	6,183	484,500	9,976	NA
41	7/14/2019	80.00	8,091	7,366	6,078	496,340	9,441	NA
42	7/15/2019	81.10	8,071	8,160	5,900	459,020	9,150	NA
43	7/16/2019	75.90	8,160	7,777	4,574	404,540	10,008	NA
44	7/16/2019	80.00	8,143	8,952	4,997	503,680	9,366	NA
45	7/16/2019	80.10	7,739	7,247	5,362	507,280	9,567	NA
46	7/17/2019	80.60	7,730	7,025	6,078	495,460	9,433	NA
47	7/17/2019	81.00	7,938	7,793	4,761	422,020	8,781	NA
48	7/18/2019	79.80	7,904	7,744	4,927	501,720	9,186	NA
49	7/18/2019	80.00	7,960	7,510	4,904	503,040	9,700	NA
50	7/19/2019	81.00	7,533	7,273	5,581	402,360	9,775	NA
51	7/20/2019	80.80	7,708	7,443	5,798	500,300	9,424	NA
52	7/20/2019	80.10	7,586	6,974	5,708	501,720	9,323	NA
53	7/20/2019	79.90	7,729	6,848	5,571	475,260	7,490	NA
54	7/21/2019	80.30	7,655	6,916	5,592	501,500	9,536	NA
55	7/21/2019	78.60	7,879	7,352	5,586	444,940	9,217	NA
56	7/22/2019	80.00	7,764	7,764	5,653	507,280	9,495	NA
57	7/22/2019	80.20	7,553	8,141	5,491	468,180	9,030	NA
58	7/22/2019	80.10	7,485	6,884	4,925	499,100	8,666	NA

API 47- 033 - 05909 Farm name Ira and Laura Pritt Well number 206

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus Shale	7,871'	TVD	20,207' 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	1545	Upper Kittanning @ 766' TVD, Middle Kittanning @ 833' TVD, Lower Kittanning @ 852' TVD, Saltwater @ 1,391'
Big Lime	1533	1703	1545	1718	Limestone
Balltown	3127	3173	3143	3189	Sandstone
Elk Siltstone	4876	4924	4989	5044	Siltstone
Burkett	7429	7452	7929	7964	Shale
Tully	7452	7501	7964	8040	Limestone
Mahantango	7501	7672	8040	8376	Shale
Marcellus	7672	7741	8376	8617	Shale
Purcell	7741	7745	8617	8641	Limestone
Lower Marcellus	7745	7767	8641	20207	Shale - Gas shows through lateral
Onondaga	7767*				*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

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 Office of Oil and Gas
 W. Virginia Department of
 Environmental Protection
 FEB 28 2020

WR-36
Rev. 5/08

Date: 2/17/20
Operators Well Number: Pritt South 206
API Well No: 47-033 - 05909

**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 8376' feet
Perforation Interval 8577' - 20117' 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 2010	Separator Pressure 586	Separator Temperature 84	
Oil Production During Test 0	Gas Production During Test 20,126	Water Production During Test 548	-Salinity 65,518	
Oil Gravity NA	Producing Method (flowing, pumping, gas lift etc.) Flowing			

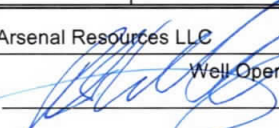
GAS PRODUCTION

Measurement Method Flange Tap <input checked="" type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>	Positive Choke <input type="checkbox"/>
Orifice diameter	Positive flow prover <input checked="" type="checkbox"/>
Pipe Diameter (inside)	Nominal Choke Size inches 48/64"
Differential Pressure range	Max. Static pressure range
Differential 319" H2O	Prover and Orifice diameter - inches 3.828" run with 2.5" orifice
Gas Gravity (Air = 1.0) Measured .5712 Estimated	Flowing Temperature 87
24 Hour Coefficient	Static 60
24 Hour coefficient pressure PSIA	

TEST RESULTS

Daily Oil 0	Daily Water 548 BBLs	Daily Gas 20,126 MCF	Gas-Oil Ratio NA
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Arsenal Resources LLC
Well Operator
BY: 
ITS: Responsible Person - Sr. Director of Drilling

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/20/2019
Job End Date:	7/22/2019
State:	West Virginia
County:	Harrison
API Number:	47-033-05909-00-00
Operator Name:	Arsenal Resources
Well Name and Number:	Pritt South 206
Latitude:	39.24583000
Longitude:	-80.18710000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,200
Total Base Water Volume (gal):	26,206,316
Total Base Non Water Volume:	0

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WV Division of Environmental Protection



Frac Focus
Chemical Disclosure Registry



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	88.49658	
Sand, White	BJ Services	Proppant					
				Listed Below			

Other Chemical (s)	BJ Services	See Trade Name (s) List						
			Water		7732-18-5	100.00000	0.45265	
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	10.95366	
			Hydrochloric Acid		7647-01-0	15.00000	0.03209	

			Petroleum Distillates	64742-47-8	25.00000	0.02622	
			Quaternized Acrylate Polymer	35429-19-7	25.00000	0.02622	
			Sodium chloride	7647-14-5	2.50000	0.00262	
			Surfactant blend	68439-45-2	2.50000	0.00262	
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00246	
			Citric Acid	77-92-9	60.00000	0.00193	
			Glutaraldehyde	111-30-8	10.00000	0.00082	
			Methanol	67-56-1	100.00000	0.00074	
			Organo phosphorus salt	Trade Secret	5.00000	0.00055	
			Ethanol	64-17-5	5.00000	0.00041	
			Polyoxyalkylenes	68951-67-7	30.00000	0.00022	
			Fatty Acids	61790-12-3	10.00000	0.00007	
			Modified Thiourea Polymer	68527-49-1	7.00000	0.00005	
			Propargyl Alcohol	107-19-7	5.00000	0.00004	
			Olefin	64743-02-8	5.00000	0.00004	
			Hydrochloric acid	7647-01-0	1.00000	0.00001	
			Formaldehyde	50-00-0	1.00000	0.00001	

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* 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)

11,393' B.H. 11,421' B.H. 5,789' T.H.

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

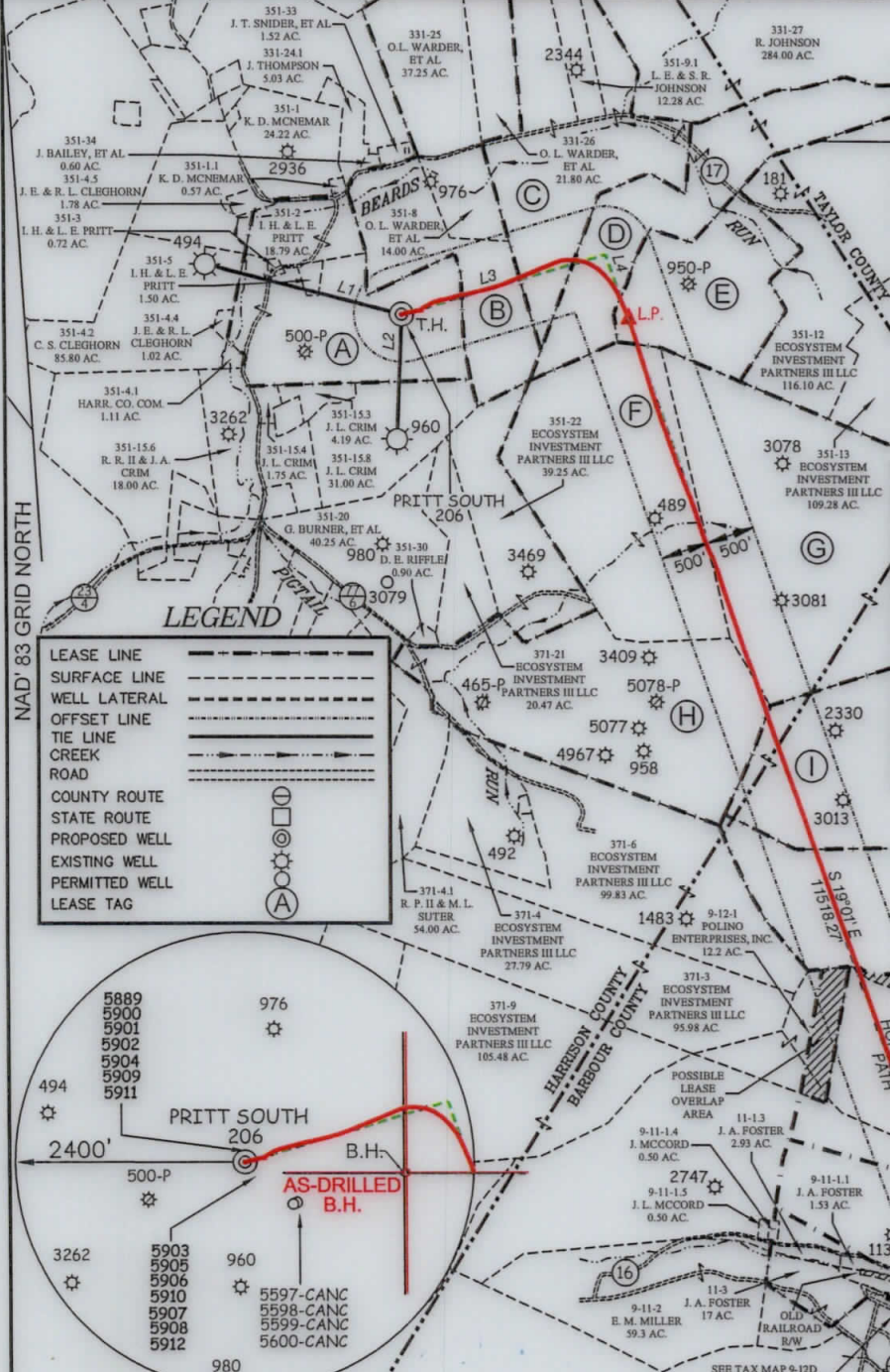
ARSENAL RESOURCES

T.H. PRITT SOUTH 206

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

NAD'83 S.P.C.(FT)	N. 272,396.6	E. 1,773,906.6
NAD'83 GEO.	LAT-(N) 39.245832	LONG-(W) 80.187106
NAD'83 UTM (M)	N. 4,344,372.2	E. 570,146.2
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 272,432.9	E. 1,776,245.9
NAD'83 GEO.	LAT-(N) 39.245980	LONG-(W) 80.178847
NAD'83 UTM (M)	N. 4,344,395.1	E. 570,858.7
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 261,543.3	E. 1,779,999.2
NAD'83 GEO.	LAT-(N) 39.216160	LONG-(W) 80.165310
NAD'83 UTM (M)	N. 4,341,096.4	E. 572,057.4

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

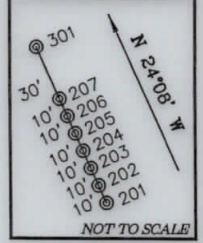


TAG	SURFACE OWNER	TAX MAP/PARCEL	ACREAGE
HARRISON COUNTY			
A	IRA H. & LAURA E. PRITT	351-4	69.09±
B	ORAN LEE WARDER, ET AL	351-7	31.00±
C	RENEE JOHNSON	351-9	97.72±
D	RENEE JOHNSON	351-10	85.00±
E	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-11	52.19±
F	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-23	107.00±
G	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-24	153.08±
H	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-31	120.73±
BARBOUR COUNTY			
I	JO ANN V SMITH & GARY M. BROWN, JR.	10-1	70.00±
J	JO ANN V SMITH & GARY M. BROWN, JR.	10-2	98.00±
K	POLINO ENTERPRISES, INC.	11-1	289.5±
L	BECKWITH LUMBER CO., INC.	11-1.2	177.0±
M	DENNIS ALBIN ZBOSNIK	12-40	51.89±

PRITT SOUTH 206 WELL TIES

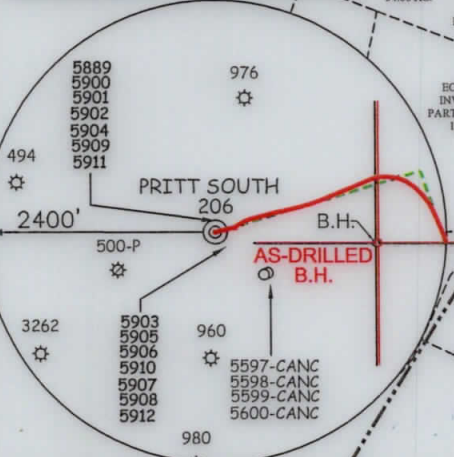
LINE	BEARING	DISTANCE
L1	N 75°49' W	2123.55'
L2	S 02°29' W	1310.29'
L3	N 73°20' E	2225.32'
L4	S 19°01' E	636.80'

PRITT SOUTH PAD LAYOUT



LEGEND

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



LEGEND

- AS DRILLED
- PROPOSED

AS DRILLED COORDINATES FOR WELL NO. 206

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

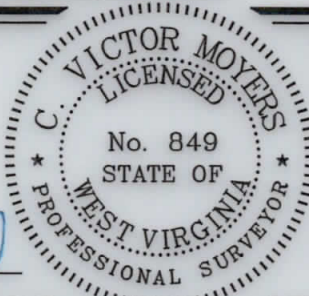
NAD'83 S.P.C.(FT)	N. 272,396.6	E. 1,773,906.6
NAD'83 GEO.	LAT-(N) 39.245832	LONG-(W) 80.187106
NAD'83 UTM (M)	N. 4,344,372.2	E. 570,146.2
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 272,366.0	E. 1,776,276.5
NAD'83 GEO.	LAT-(N) 39.245797	LONG-(W) 80.178728
NAD'83 UTM (M)	N. 4,344,374.9	E. 570,869.3
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 261,551.7	E. 1,780,027.7
NAD'83 GEO.	LAT-(N) 39.216184	LONG-(W) 80.165210
NAD'83 UTM (M)	N. 4,341,099.1	E. 572,066.0

- 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. core 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.

SLS
Land & Energy Development
Solutions from the ground up.
P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 462-5634
www.slsww.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. *C. Victor Moyers*
849



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 16, 20 19
REVISED _____
OPERATORS WELL NO. PRITT SOUTH 206
API WELL NO. 47 - 033 - 05909
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8383AD206.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: 1,342.20' / 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 20,045.0' TMD / 7,758' 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