

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

API 47 - 033 - 05902 County Harrison District Simpson
Quad Brownnton Pad Name Pritt South Field/Pool Name _____
Farm name Ira and Laura Pritt Well Number 204
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 4344366.7 Easting 570148.8
Landing Point of Curve Northing 4344217.6 Easting 570373.5
Bottom Hole Northing 4341065.3 Easting 571521.2

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
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Date permit issued 11/15/2017 Date drilling commenced 1/16/2019 Date drilling ceased 5/7/2019
Date completion activities began 6/9/19 Date completion activities ceased 1/30/2020
Verbal plugging (Y/N) N 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 4474', 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

API 47-033 - 05902 Farm name Ira and Laura Pritt Well number 204

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	28"	24"	80'	New	41.0	NA	Y
Surface	17 1/2"	13 3/8"	456' GL	New	54.5	143	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"	19,157' 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 598'(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	450	15.60	1.20	540	Surface	8+
Surface	A	460	15.60	1.20	552	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	A	510	15.60	1.31	668.1	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	A	869/2,332	13.80/15.00	1.58/1.29	1,373.02/3,008.28	598' (GL)	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 19,175'(GL) Loggers TD (ft) NA

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 6,650'(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 55 stages, 2,200 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)
55	7/22/2019	8,165.00	8,327.00	40	Marcellus, Original Hole
54	7/21/2019	8,365.00	8,527.00	40	Marcellus, Original Hole
53	7/21/2019	8,565.00	8,727.00	40	Marcellus, Original Hole
52	7/20/2019	8,765.00	8,927.00	40	Marcellus, Original Hole
51	7/20/2019	8,965.00	9,127.00	40	Marcellus, Original Hole
50	7/20/2019	9,165.00	9,327.00	40	Marcellus, Original Hole
49	7/19/2019	9,365.00	9,527.00	40	Marcellus, Original Hole
48	7/18/2019	9,565.00	9,727.00	40	Marcellus, Original Hole
47	7/18/2019	9,765.00	9,927.00	40	Marcellus, Original Hole
46	7/17/2019	9,965.00	10,127.00	40	Marcellus, Original Hole
45	7/17/2019	10,165.00	10,327.00	40	Marcellus, Original Hole
44	7/16/2019	10,365.00	10,527.00	40	Marcellus, Original Hole
43	7/16/2019	10,565.00	10,727.00	40	Marcellus, Original Hole
42	7/15/2019	10,765.00	10,927.00	40	Marcellus, Original Hole
41	7/15/2019	10,965.00	11,127.00	40	Marcellus, Original Hole
40	7/14/2019	11,165.00	11,327.00	40	Marcellus, Original Hole
39	7/14/2019	11,365.00	11,527.00	40	Marcellus, Original Hole
38	7/13/2019	11,565.00	11,727.00	40	Marcellus, Original Hole
37	7/13/2019	11,765.00	11,927.00	40	Marcellus, Original Hole
36	7/12/2019	11,965.00	12,127.00	40	Marcellus, Original Hole
35	7/12/2019	12,165.00	12,327.00	40	Marcellus, Original Hole
34	7/11/2019	12,365.00	12,527.00	40	Marcellus, Original Hole
33	7/10/2019	12,565.00	12,727.00	40	Marcellus, Original Hole
32	7/10/2019	12,765.00	12,927.00	40	Marcellus, Original Hole
31	7/9/2019	12,965.00	13,127.00	40	Marcellus, Original Hole
30	7/8/2019	13,165.00	13,327.00	40	Marcellus, Original Hole
29	7/8/2019	13,365.00	13,527.00	40	Marcellus, Original Hole
28	7/7/2019	13,565.00	13,727.00	40	Marcellus, Original Hole
27	7/7/2019	13,765.00	13,927.00	40	Marcellus, Original Hole
26	7/6/2019	13,965.00	14,127.00	40	Marcellus, Original Hole
25	7/6/2019	14,165.00	14,327.00	40	Marcellus, Original Hole
24	7/5/2019	14,365.00	14,527.00	40	Marcellus, Original Hole
23	7/5/2019	14,565.00	14,727.00	40	Marcellus, Original Hole
22	7/3/2019	14,765.00	14,927.00	40	Marcellus, Original Hole
21	7/3/2019	14,965.00	15,127.00	40	Marcellus, Original Hole
20	7/2/2019	15,165.00	15,327.00	40	Marcellus, Original Hole
19	7/2/2019	15,365.00	15,527.00	40	Marcellus, Original Hole
18	7/1/2019	15,565.00	15,727.00	40	Marcellus, Original Hole
17	7/1/2019	15,765.00	15,927.00	40	Marcellus, Original Hole
16	6/30/2019	15,965.00	16,127.00	40	Marcellus, Original Hole
15	6/29/2019	16,165.00	16,327.00	40	Marcellus, Original Hole
14	6/29/2019	16,365.00	16,527.00	40	Marcellus, Original Hole

13	6/28/2019	16,565.00	16,727.00	40	Marcellus, Original Hole
12	6/28/2019	16,765.00	16,927.00	40	Marcellus, Original Hole
11	6/27/2019	16,965.00	17,127.00	40	Marcellus, Original Hole
10	6/26/2019	17,165.00	17,327.00	40	Marcellus, Original Hole
9	6/26/2019	17,365.00	17,527.00	40	Marcellus, Original Hole
8	6/25/2019	17,565.00	17,727.00	40	Marcellus, Original Hole
7	6/25/2019	17,765.00	17,927.00	40	Marcellus, Original Hole
6	6/23/2019	17,965.00	18,127.00	40	Marcellus, Original Hole
5	6/22/2019	18,165.00	18,327.00	40	Marcellus, Original Hole
4	6/22/2019	18,365.00	18,527.00	40	Marcellus, Original Hole
3	6/21/2019	18,565.00	18,727.00	40	Marcellus, Original Hole
2	6/21/2019	18,765.00	18,927.00	40	Marcellus, Original Hole
1	6/16/2019	18,965.00	19,110.00	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	65.70	8,441	8,538	4,913	356,920	10,356	NA
2	6/21/2019	77.40	8,488	6,022	4,582	465,800	9,984	NA
3	6/22/2019	75.90	8,468	6,782	5,592	443,740	9,285	NA
4	6/22/2019	78.50	8,432	6,264	5,708	503,780	9,946	NA
5	6/23/2019	79.00	8,399	5,392	5,797	504,680	9,878	NA
6	6/24/2019	80.50	8,207	5,469	5,831	500,960	9,633	NA
7	6/25/2019	77.70	8,497	7,046	5,628	505,600	9,588	NA
8	6/26/2019	79.30	8,468	7,260	5,431	500,200	9,226	NA
9	6/26/2019	75.90	8,466	7,394	5,435	500,960	9,599	NA
10	6/27/2019	80.10	8,409	7,380	5,775	507,080	9,196	NA
11	6/27/2019	79.10	8,538	7,964	6,319	498,480	9,639	NA
12	6/28/2019	80.30	8,426	7,090	5,436	400,540	9,629	NA
13	6/28/2019	78.90	8,360	7,686	5,710	486,172	9,832	NA
14	6/29/2019	78.60	8,485	7,472	6,013	489,840	10,131	NA
15	6/30/2019	80.00	8,343	7,151	5,272	499,920	9,498	NA
16	6/30/2019	79.60	8,290	6,824	4,698	506,740	9,346	NA
17	7/1/2019	78.20	8,406	7,395	4,842	501,700	10,155	NA
18	7/2/2019	77.00	8,437	7,489	5,788	372,900	10,169	NA
19	7/2/2019	76.60	8,533	7,648	6,148	416,760	10,049	NA
20	7/3/2019	75.80	8,485	7,447	5,957	444,100	9,546	NA
21	7/3/2019	69.20	8,334	7,437	6,166	510,120	9,878	NA
22	7/5/2019	77.80	8,574	7,951	4,755	502,980	9,874	NA
23	7/5/2019	74.60	8,330	7,747	4,586	498,040	9,091	NA
24	7/6/2019	75.70	8,511	7,449	5,343	454,900	8,767	NA
25	7/6/2019	76.60	8,244	7,646	6,159	490,920	9,579	NA
26	7/6/2019	79.50	8,581	7,540	5,042	507,980	9,447	NA
27	7/7/2019	78.70	8,441	7,727	5,256	413,440	10,004	NA
28	7/8/2019	79.00	8,364	7,868	6,316	503,720	9,206	NA
29	7/8/2019	80.80	8,230	7,981	5,036	503,860	9,506	NA
30	7/9/2019	78.20	8,348	7,683	6,281	509,980	9,791	NA
31	7/9/2019	80.20	8,442	7,853	6,550	501,680	9,777	NA
32	7/10/2019	79.70	8,111	6,684	5,985	417,620	8,335	NA
33	7/11/2019	79.00	8,313	6,791	6,343	503,480	9,585	NA
34	7/12/2019	75.40	8,376	8,086	5,872	486,640	10,028	NA
35	7/12/2019	74.50	8,388	7,841	5,910	426,180	9,964	NA
36	7/13/2019	79.60	8,075	7,619	4,678	436,120	9,203	NA
37	7/13/2019	81.30	8,075	7,177	5,212	503,560	9,099	NA
38	7/13/2019	79.80	8,283	7,556	5,626	414,180	9,994	NA

39	7/14/2019	78.00	8,054	8,624	6,004	501,440	9,069	NA
40	7/15/2019	79.90	7,836	7,886	4,600	500,080	9,783	NA
41	7/15/2019	79.00	8,297	7,887	4,945	464,920	9,988	NA
42	7/16/2019	80.20	8,287	7,582	5,639	504,200	9,333	NA
43	7/16/2019	74.00	7,919	8,307	4,627	501,080	12,072	NA
44	7/17/2019	80.80	8,149	7,199	6,529	508,060	9,619	NA
45	7/17/2019	81.00	8,027	7,484	5,454	496,840	6,759	NA
46	7/18/2019	81.40	7,737	7,526	5,061	503,900	9,644	NA
47	7/18/2019	79.00	7,795	6,893	5,796	509,280	9,166	NA
48	7/19/2019	75.70	8,150	7,459	6,025	416,660	9,950	NA
49	7/19/2019	80.00	7,994	6,924	4,457	434,860	8,742	NA
50	7/20/2019	74.10	8,214	7,328	5,615	443,080	9,792	NA
51	7/20/2019	75.10	8,141	7,847	5,417	440,520	9,902	NA
52	7/21/2019	80.50	7,535	7,177	5,906	503,770	9,000	NA
53	7/21/2019	79.90	7,369	6,604	6,343	502,200	9,122	NA
54	7/21/2019	71.10	7,359	7,249	4,553	459,940	9,968	NA
55	7/22/2019	79.50	7,504	7,800	4,568	501,720	9,183	NA

API 47- 033 - 05902 Farm name Ira and Laura Pritt Well number 204

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus Shale</u>	<u>7,861'</u>	<u>TVD</u>	<u>19,202'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

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	1536	Upper Kittanning @ 766' TVD, Middle Kittanning @ 833' TVD, Lower Kittanning @ 852' TVD, Saltwater @ 1,391'
Big Lime	1533	1703	1536	1706	Limestone
Balltown	3127	3173	3131	3177	Sandstone
Elk Siltstone	4876	4924	4880	4928	Siltstone
Burkett	7419	7442	7488	7518	Shale
Tully	7442	7490	7518	7580	Limestone
Mahantango	7490	7655	7580	7865	Shale
Marcellus	7655	7721	7865	8109	Shale
Purcell	7721	7725	8109	8146	Limestone
Lower Marcellus	7725	7747	8146	19202	Shale - Gas shows through lateral
Onondaga	7747*				*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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 FEB 28 2020

WR-36
Rev. 5/08

Date: 2/17/20
Operators Well Number: Pritt South 204
API Well No: 47-033 - 05902

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

Well Operator's Report of
Initial Gas-Oil Ratio

Well Operator <u>Arsenal Resources LLC</u>	Designated Agent <u>Gary Short</u>
Address <u>6031 Wallace Road Ext. Suite 300</u>	Address <u>633 W Main St</u>
<u>Wexford, PA 15090</u>	<u>Bridgeport, WV 26330</u>

Geological Target Formation: Marcellus Depth 7865' feet
Perforation Interval 8165' - 19110' 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 2293	Separator Pressure 605	Separator Temperature 78	
Oil Production During Test 0	Gas Production During Test 21,681	Water Production During Test 454	-Salinity 59,452	
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 2.75" orifice
Differential 239" H2O		Static
Gas Gravity (Air = 1.0) Measured .5709 Estimated	Flowing Temperature 78	Gas Temperature 60
24 Hour Coefficient	24 Hour coefficient pressure PSIA	

TEST RESULTS

Daily Oil 0	Daily Water 454 BBLs	Daily Gas 21,681 MCF	Gas-Oil Ratio NA
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Arsenal Resources LLC
Well Operator
BY: [Signature]
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:	47-033-05902-00-00
Operator Name:	Arsenal Resources
Well Name and Number:	Pritt South 204
Latitude:	39.24577000
Longitude:	-80.18710000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,200
Total Base Water Volume (gal):	20,155,577
Total Base Non Water Volume:	0

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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	85.92026	
Sand, White	BJ Services	Proppant					
				Listed Below			

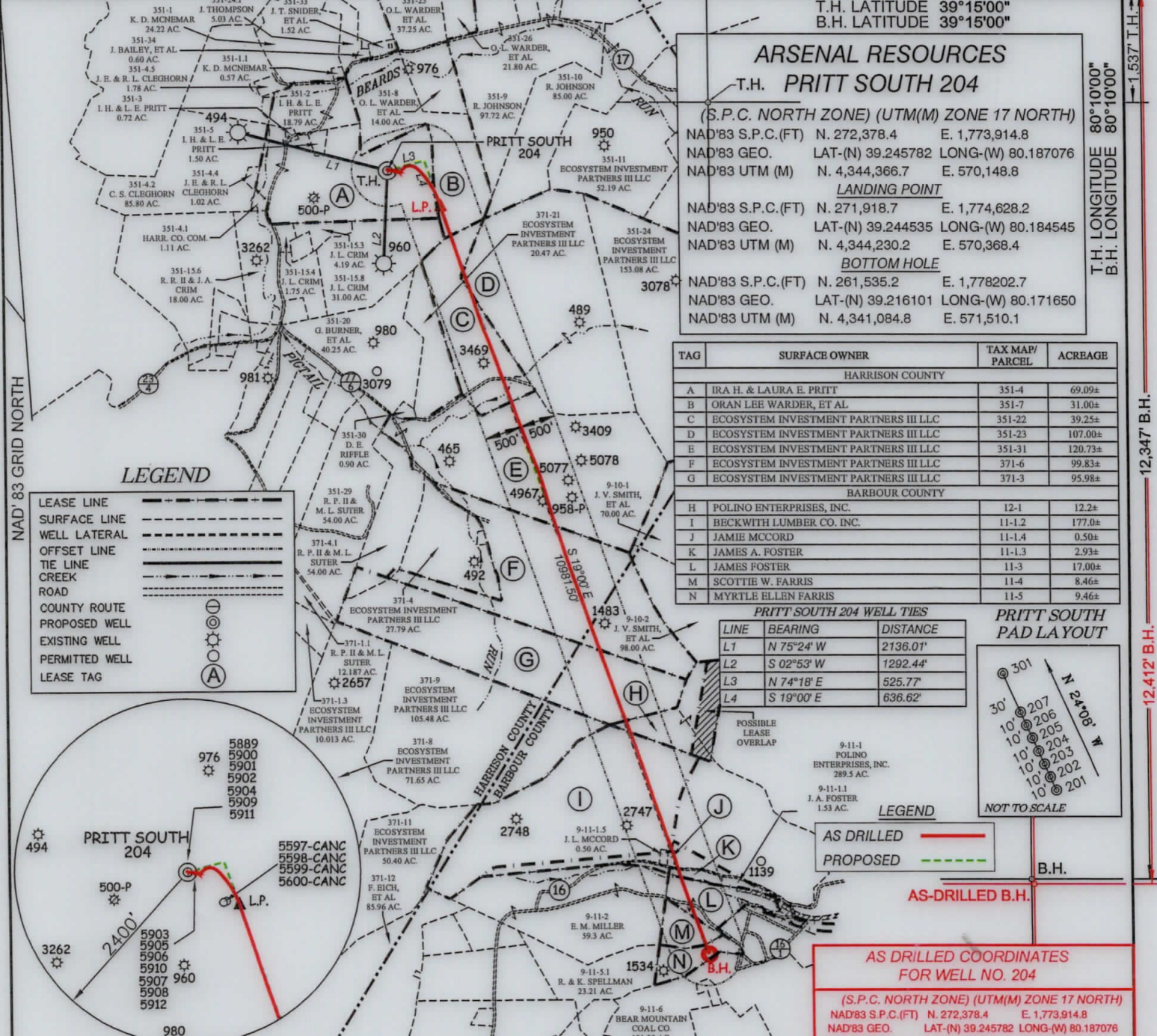
Other Chemical (s)	BJ Services	See Trade Name (s) List						
			Water		7732-18-5	100.00000	0.53312	
HCl, 5.1 - 7.5%	BJ Services	Acidizing			Listed Below			
ThinFrac FRW-03C	BJ Services	Friction Reducer			Listed Below			
FraCare SI-01	BJ Services	Scale Inhibitor			Listed Below			
BIOC11139A	BJ Services	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	13.43188		
			Hydrochloric Acid	7647-01-0	15.00000	0.03786		

			Petroleum Distillates	64742-47-8	25.00000	0.03101
			Quaternized Acrylate Polymer	35429-19-7	25.00000	0.03101
			Sodium chloride	7647-14-5	2.50000	0.00310
			Surfactant blend	68439-45-2	2.50000	0.00310
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00291
			Citric Acid	77-92-9	60.00000	0.00228
			Glutaraldehyde	111-30-8	10.00000	0.00097
			Methanol	67-56-1	100.00000	0.00087
			Organo phosphorus salt	Trade Secret	5.00000	0.00062
			Ethanol	64-17-5	5.00000	0.00049
			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
			Hydrochloric acid	7647-01-0	1.00000	0.00001
			Formaldehyde	50-00-0	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)

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ARSENAL RESOURCES
T.H. PRITT SOUTH 204

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

NAD'83 S.P.C.(FT)	N. 272,378.4	E. 1,773,914.8
NAD'83 GEO.	LAT-(N) 39.245782	LONG-(W) 80.187076
NAD'83 UTM (M)	N. 4,344,366.7	E. 570,148.8

LANDING POINT

NAD'83 S.P.C.(FT)	N. 271,918.7	E. 1,774,628.2
NAD'83 GEO.	LAT-(N) 39.244535	LONG-(W) 80.184545
NAD'83 UTM (M)	N. 4,344,230.2	E. 570,368.4

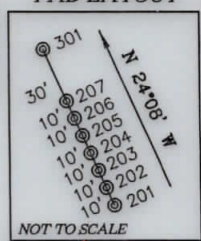
BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 261,535.2	E. 1,778,202.7
NAD'83 GEO.	LAT-(N) 39.216101	LONG-(W) 80.171650
NAD'83 UTM (M)	N. 4,341,084.8	E. 571,510.1

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	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-22	39.25±
D	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-23	107.00±
E	ECOSYSTEM INVESTMENT PARTNERS III LLC	351-31	120.73±
F	ECOSYSTEM INVESTMENT PARTNERS III LLC	371-6	99.83±
G	ECOSYSTEM INVESTMENT PARTNERS III LLC	371-3	95.98±
BARBOUR COUNTY			
H	POLINO ENTERPRISES, INC.	12-1	12.2±
I	BECKWITH LUMBER CO. INC.	11-1.2	177.0±
J	JAMIE MCCORD	11-1.4	0.50±
K	JAMES A. FOSTER	11-1.3	2.93±
L	JAMES FOSTER	11-3	17.00±
M	SCOTTIE W. FARRIS	11-4	8.46±
N	MYRTLE ELLEN FARRIS	11-5	9.46±

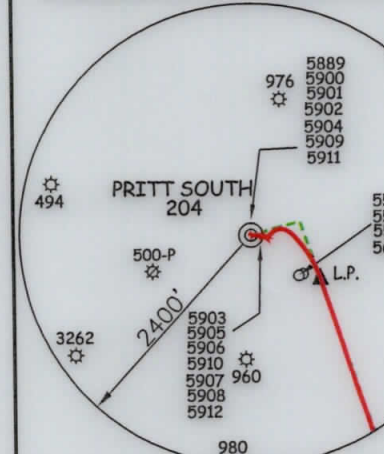
PRITT SOUTH 204 WELL TIES

LINE	BEARING	DISTANCE
L1	N 75°24' W	2136.01'
L2	S 02°53' W	1292.44'
L3	N 74°18' E	525.77'
L4	S 19°00' E	636.62'



LEGEND

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



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.
- WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
- AS-DRILLED DATA PROVIDED BY ARSENAL RESOURCES.

AS DRILLED COORDINATES FOR WELL NO. 204

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

NAD'83 S.P.C.(FT)	N. 272,378.4	E. 1,773,914.8
NAD'83 GEO.	LAT-(N) 39.245782	LONG-(W) 80.187076
NAD'83 UTM (M)	N. 4,344,366.7	E. 570,148.8

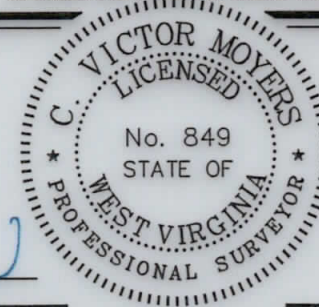
LANDING POINT

NAD'83 S.P.C.(FT)	N. 271,877.0	E. 1,774,644.1
NAD'83 GEO.	LAT-(N) 39.244421	LONG-(W) 80.184488
NAD'83 UTM (M)	N. 4,344,217.6	E. 570,373.5

BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 261,470.4	E. 1,778,238.0
NAD'83 GEO.	LAT-(N) 39.215924	LONG-(W) 80.171524
NAD'83 UTM (M)	N. 4,341,065.3	E. 571,521.2

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

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE AUGUST 16, 20 19
REVISED _____
OPERATORS WELL NO. PRITT SOUTH 204
API WELL NO. 47 - 033 - 5902
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)
FILE NO. 8383AD204.dwg
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

LOCATION: ELEVATION EXISTING: 1,342.90' / 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 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 19,220.2' TMD / 7,752' TVD

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