

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

API 47-033-05910 County Harrison District Simpson
Quad Brownnton Pad Name Pritt South Field/Pool Name _____
Farm name Ira and Laura Pritt Well Number 214
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 4344251.2 Easting 570203.5
Landing Point of Curve Northing 4344509.5 Easting 570300.3
Bottom Hole Northing 4347255.5 Easting 569300.7

Elevation (ft) 1351.90' 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 1/10/2019 Date drilling ceased 3/20/2019
Date completion activities began 4/15/2019 Date completion activities ceased 7/5/2019
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 176', 225', 240', 310', 380' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1400' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 483', 590', 651', 710', 775', 842', 861' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed

Reviewed by: JEL

SDW
1/14/2020

API 47- 033 - 05910

Farm name Ira and Laura Pritt

Well number 214

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	118'	Y
Surface	17 1/2"	13 3/8"	445' GL	New	54.5	NA	Y
Coal	NA	NA	NA	NA	NA	NA	N
Intermediate 1	12 1/4"	9 5/8"	1,509' 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"	17,943' 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 145'(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	483	15.60	1.20	579	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	A	511	15.60	1.19	608	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	A	879/2,127	13.80/15.00	1.57/1.30	1,380/2,765	145' (GL)	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 17,948'(GL)

Loggers TD (ft) NA

Deepest formation penetrated Marcellus

Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 6,473'(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 49 stages, 1960 perforations

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 033 - 05910 Farm name Ira and Laura Pritt Well number 214

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		See Attached			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
			See Attached					

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Please insert additional pages as applicable.

Perforation Record					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations (s)
49	6/1/2019	8,124.00	8,286.00	40	Marcellus Shale
48	6/1/2019	8,324.00	8,486.00	40	Marcellus Shale
47	6/1/2019	8,524.00	8,686.00	40	Marcellus Shale
46	6/1/2019	8,724.00	8,886.00	40	Marcellus Shale
45	5/31/2019	8,924.00	9,086.00	40	Marcellus Shale
44	5/31/2019	9,124.00	9,286.00	40	Marcellus Shale
43	5/31/2019	9,324.00	9,486.00	40	Marcellus Shale
42	5/31/2019	9,524.00	9,686.00	40	Marcellus Shale
41	5/31/2019	9,724.00	9,886.00	40	Marcellus Shale
40	5/31/2019	9,924.00	10,086.00	40	Marcellus Shale
39	5/30/2019	10,124.00	10,286.00	40	Marcellus Shale
38	5/30/2019	10,324.00	10,486.00	40	Marcellus Shale
37	5/30/2019	10,524.00	10,686.00	40	Marcellus Shale
36	5/30/2019	10,724.00	10,886.00	40	Marcellus Shale
35	5/28/2019	10,924.00	11,086.00	40	Marcellus Shale
34	5/28/2019	11,124.00	11,286.00	40	Marcellus Shale
33	5/28/2019	11,324.00	11,486.00	40	Marcellus Shale
32	5/27/2019	11,524.00	11,686.00	40	Marcellus Shale
31	5/27/2019	11,724.00	11,886.00	40	Marcellus Shale
30	5/27/2019	11,924.00	12,086.00	40	Marcellus Shale
29	5/27/2019	12,124.00	12,286.00	40	Marcellus Shale
28	5/27/2019	12,324.00	12,486.00	40	Marcellus Shale
27	5/26/2019	12,524.00	12,686.00	40	Marcellus Shale
26	5/26/2019	12,724.00	12,886.00	40	Marcellus Shale
25	5/26/2019	12,924.00	13,086.00	40	Marcellus Shale
24	5/25/2019	13,124.00	13,286.00	40	Marcellus Shale
23	5/25/2019	13,324.00	13,486.00	40	Marcellus Shale
22	5/25/2019	13,524.00	13,686.00	40	Marcellus Shale
21	5/25/2019	13,724.00	13,886.00	40	Marcellus Shale
20	5/24/2019	13,924.00	14,086.00	40	Marcellus Shale
19	5/24/2019	14,124.00	14,286.00	40	Marcellus Shale
18	5/24/2019	14,324.00	14,486.00	40	Marcellus Shale
17	5/23/2019	14,524.00	14,686.00	40	Marcellus Shale
16	5/23/2019	14,724.00	14,886.00	40	Marcellus Shale
15	5/23/2019	14,924.00	15,086.00	40	Marcellus Shale
14	5/23/2019	15,124.00	15,286.00	40	Marcellus Shale
13	5/22/2019	15,324.00	15,486.00	40	Marcellus Shale
12	5/22/2019	15,524.00	15,686.00	40	Marcellus Shale
11	5/22/2019	15,724.00	15,886.00	40	Marcellus Shale
10	5/21/2019	15,924.00	16,086.00	40	Marcellus Shale
9	5/21/2019	16,124.00	16,286.00	40	Marcellus Shale
8	5/20/2019	16,324.00	16,486.00	40	Marcellus Shale

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7	5/20/2019	16,524.00	16,686.00	40	Marcellus Shale
6	5/20/2019	16,724.00	16,886.00	40	Marcellus Shale
5	5/19/2019	16,924.00	17,086.00	40	Marcellus Shale
4	5/19/2019	17,124.00	17,286.00	40	Marcellus Shale
3	5/19/2019	17,324.00	17,486.00	40	Marcellus Shale
2	5/18/2019	17,524.00	17,686.00	40	Marcellus Shale
1	4/26/2019	17,724.00	17,883.00	40	Marcellus Shale

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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	5/18/2019	75.10	8,092		5,944	388,160	10,010	NA
2	5/19/2019	76.00	8,080	6,458	6,109	488,800	9,941	NA
3	5/19/2019	75.20	8,012	7,155	4,660	501,500	8,966	NA
4	5/19/2019	77.10	8,312	6,702	5,160	389,500	9,902	NA
5	5/20/2019	78.80	8,094	6,594	5,847	503,160	9,090	NA
6	5/20/2019	79.50	8,370	7,409	4,333	502,480	9,800	NA
7	5/20/2019	74.90	8,060	7,066	4,882	504,420	8,992	NA
8	5/20/2019	79.00	8,276	7,424	5,804	461,380	9,945	NA
9	5/21/2019	78.20	8,099	5,697	5,176	501,360	9,531	NA
10	5/22/2019	79.20	8,229	7,257	6,296	503,320	9,411	NA
11	5/22/2019	79.90	8,106	6,998	5,363	499,260	9,258	NA
12	5/22/2019	79.80	8,166	6,830	5,157	478,620	9,935	NA
13	5/22/2019	80.30	8,214	6,493	6,165	503,980	9,748	NA
14	5/23/2019	79.90	8,154	6,488	5,838	502,880	9,833	NA
15	5/23/2019	79.60	8,168	7,288	5,854	504,900	9,487	NA
16	5/23/2019	79.60	8,168	7,342	5,921	513,060	9,861	NA
17	5/24/2019	80.30	7,984	8,257	6,093	501,860	9,556	NA
18	5/24/2019	80.50	8,023	6,115	5,798	505,480	9,804	NA
19	5/24/2019	80.00	8,028	6,255	6,109	507,300	9,941	NA
20	5/24/2019	80.50	8,147	7,534	5,111	501,840	9,267	NA
21	5/25/2019	79.90	8,091	6,734	5,675	475,740	10,031	NA
22	5/25/2019	80.40	7,809	6,100	5,867	501,780	9,484	NA
23	5/25/2019	80.50	7,799	7,151	5,681	503,960	9,415	NA
24	5/26/2019	79.90	8,081	7,590	5,567	504,860	9,791	NA
25	5/26/2019	80.30	8,027	7,243	5,816	500,560	9,683	NA
26	5/26/2019	80.30	7,924	7,389	5,865	500,720	9,347	NA
27	5/26/2019	84.50	8,002	6,120	5,333	504,000	9,643	NA
28	5/27/2019	78.60	7,800	7,253	4,979	396,500	9,916	NA
29	5/27/2019	77.80	8,139	7,249	4,709	369,600	10,034	NA
30	5/27/2019	80.00	7,782	7,275	5,797	502,380	9,176	NA
31	5/27/2019	82.30	7,870	7,027	6,120	501,720	9,370	NA
32	5/28/2019	81.10	7,766	7,093	5,703	390,220	9,790	NA
33	5/28/2019	80.20	8,183	7,305	5,318	420,620	9,988	NA
34	5/28/2019	80.10	8,365	6,920	5,221	297,700	9,919	NA
35	5/29/2019	80.20	7,594	7,336	5,681	394,960	9,444	NA
36	5/29/2019	80.80	7,740	6,454	5,528	345,380	9,631	NA
37	5/30/2019	80.70	7,609	6,888	5,592	492,900	9,974	NA
38	5/30/2019	81.30	7,782	6,634	4,776	508,000	9,987	NA

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39	5/30/2019	76.30	8,024	7,630	5,586	335,520	9,911	NA
40	5/31/2019	72.50	7,917	7,705	5,437	296,680	9,000	NA
41	5/31/2019	80.70	7,820	7,917	5,536	338,220	9,983	NA
42	5/31/2019	80.70	8,164	7,519	5,010	363,160	9,953	NA
43	5/31/2019	80.90	7,715	7,399	5,205	469,180	9,907	NA
44	5/31/2019	82.20	7,504	7,164	5,189	504,860	9,748	NA
45	6/1/2019	82.70	7,513		4,723	502,480	9,692	NA
46	6/1/2019	82.50	7,811	6,950	4,938	391,840	9,872	NA
47	6/1/2019	79.90	7,764	7,924	4,653	504,660	9,810	NA
48	6/1/2019	80.00	7,717	7,206	5,124	498,690	9,381	NA
49	6/1/2019	81.80	7,526	7,676	4,684	508,840	9,714	NA

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API 47- 033 - 05910 Farm name Ira and Laura Pritt Well number 214

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus Shale	7,749'	TVD	17,975' 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	483	0	483	Freshwater @ 176', 225', 240', 310', 380'
Sand/Silt/Coal	483	651	483	651	Bakerstown Coal @ 483' TVD, Brush Creek Coal @ 590'TVD
Sand/Silt/Coal	651	775	651	776	Upper Freeport @ 651' TVD, Lower Freeport @ 710' TVD
Sand/Silt/Coal	775	1542	776	1555	Upper Kittanning @ 775' TVD, Middle Kittanning @ 842' TVD, Lower Kittanning @ 861' TVD, Saltwater @ 1,400'
Big Lime	1542	1712	1555	1726	Limestone
Balltown	3136	3182	3151	3197	Sandstone
Elk Siltstone	4885	4933	4903	4948	Siltstone
Burkett	7433	7456	7534	7565	Shale
Tully	7456	7503	7565	7630	Limestone
Mahantango	7503	7665	7630	7944	Shale
Marcellus	7665	7728	7944	8192	Shale
Purcell	7728	7731	8192	8212	Limestone
Lower Marcellus	7731	7753	8212	17975	Shale - Gas shows through lateral
Onondaga	7753*				*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 Technology Corp.
 Address PO Box 732149 City Dallas State TX Zip 75373-2149

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

Please insert additional pages as applicable.

Completed by Arsenal Resources Telephone 724-940-1204
 Signature [Signature] Title Permitting Manager Date _____

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

**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	Designated Agent	William Veigel
Address	6031 Wallace Road Ext. Suite 300 Wexford, PA 15090	Address	65 Professional Place, Suite 200 Bridgeport, WV 26330

Geological Target Formation: Marcellus Depth 7944 feet
Perforation Interval 8124' - 17883' 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	Time	End of Test Date	Time	Duration of Test
7/4/19	7:00 AM	7/5/19	7:00 AM	24 Hrs
Tubing Pressure	Casing Pressure	Separator Pressure	Separator Temperature	
NA	1416	850	94	
Oil Production During Test	Gas Production During Test	Water Production During Test		
0 BBLs	13844 MCF	574 BBLs	55,704	-Salinity
Oil Gravity	Producing Method (flowing, pumping, gas lift etc.)			
NA API	Flowing			

GAS PRODUCTION

Measurement Method		Positive Choke	<input type="checkbox"/>
Flange Tap <input checked="" type="checkbox"/>	Pipe Tap <input type="checkbox"/> L-10 <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	
		3.826" run with 2" orifice	
Differential		Static	
133.5" H2O			
Gas Gravity (Air = 1.0)	Flowing Temperature	Gas Temperature	
Measured .5710 Estimated	94	60	
24 Hour Coefficient	24 Hour coefficient pressure PSIA		

TEST RESULTS

Daily Oil	Daily Water	Daily Gas	Gas-Oil Ratio
0	574 BBLs	13844 MCF	NA

Arsenal Resources LLC
BY W. Veigel Well Operator
ITS: Designated Agent

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/18/2019
Job End Date:	6/1/2019
State:	West Virginia
County:	Harrison
API Number:	47-033-05910-00-00
Operator Name:	Arsenal Resources
Well Name and Number:	Pritt South 214
Latitude:	39.24473700
Longitude:	-80.18645400
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,556
Total Base Water Volume (gal):	20,365,380
Total Base Non Water Volume:	0

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	87.75197	
Sand, White	BJ Services	Proppant		Listed Below			



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Other Chemical (s)	BU Services	See Trade Name (s) List							
			Water	7732-18-5	95.00000	0.47811			
HCl, 5.1 - 7.5%	BU Services	Acidizing							
				Listed Below					
ThinFrac FRW-03C	BU Services	Friction Reducer		Listed Below					
FracCare SI-01	BU Services	Scale Inhibitor		Listed Below					
BIOC11139A	BU Services	Biocide		Listed Below					
ResCare IC 300L	BU Services	Iron Control		Listed Below					
CI-14	BU 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	11.67345			
			Hydrochloric Acid	7647-01-0	7.50000	0.03353			
			Quaternized Acrylate Polymer	35429-19-7	25.00000	0.02528			
			Petroleum Distillates	64742-47-8	25.00000	0.02528			
			Surfactant blend	68439-45-2	2.50000	0.00253			

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**ARSENAL RESOURCES
PRITT SOUTH 214**

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

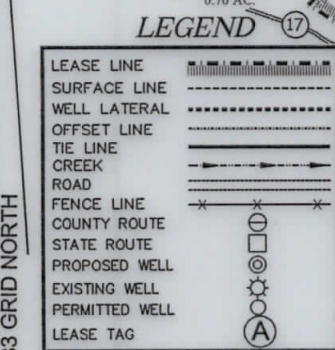
NAD'83 S.P.C.(FT)	N. 271,996.5	E. 1,774,088.0
NAD'83 GEO.	LAT-(N) 39.244737	LONG-(W) 80.186454
NAD'83 UTM (M)	N. 4,344,251.2	E. 570,203.5

LANDING POINT

NAD'83 S.P.C.(FT)	N. 272,669.8	E. 1,774,469.0
NAD'83 GEO.	LAT-(N) 39.246594	LONG-(W) 80.185127
NAD'83 UTM (M)	N. 4,344,458.3	E. 570,316.1

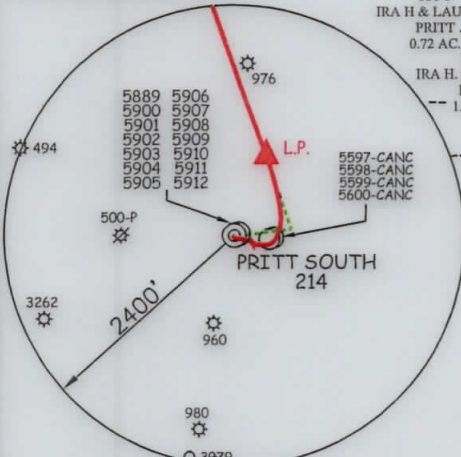
BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 281,853.5	E. 1,771,307.3
NAD'83 GEO.	LAT-(N) 39.271741	LONG-(W) 80.196542
NAD'83 UTM (M)	N. 4,347,240.2	E. 569,306.4

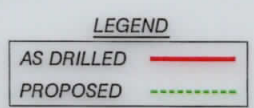
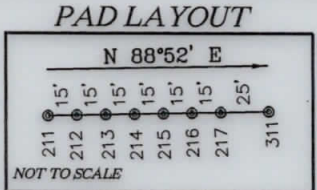


**PRITT SOUTH 214
WELL TIES**

LINE	BEARING	DISTANCE
L1	S 26°04' E	2556.29'
L2	S 14°41' W	939.57'
L3	N 83°05' E	592.53'
L4	N 19°00' W	636.77'



	SURFACE OWNER	TAX MAP PCL	AC.
A	IRA H. & LAURA E. PRITT	351-4	69.09±
B	ORAN LEE WARDER, ET AL	351-7	47.40±
C	JOHN TROY & CYNTHIA LYNN SNIDER	351-33	1.52±
D	JOHN TROY & CYNTHIA LYNN SNIDER	351-33.1	.08±
E	JOHN TROY & CYNTHIA LYNN SNIDER	331-24	48.14±
F	CLEE T HENDERSON, II	331-19	33.43±
G	CLEE T HENDERSON, II	331-20	8.04±
H	RICHARD L KINER	331-18.2	66.80±
I	JAMES SCOTT & ERICA BROOK CECIL	331-16	17.35±
J	WILLIE MOORE ESTATE	331-8	7.34±
K	WILLIE MOORE ESTATE	331-9	4±
L	WILLIE MOORE ESTATE	331-10	7.87±
M	DAVID MARK PATRICK	331-3	15.00±
N	STEFAN M. & ELIZABETH J. GRAZIANO	331-1.1	10.00±
O	HARLAN L. & LORNA J. HUTCHESON	331-1.3	3.93±
P	JEFFREY A. & ROBIN D. BOGGIO (ASSESSED IN TAYLOR COUNTY)	7-30	10.00±
Q	J. MICHAEL POOLE	330-32	23.84±



**AS DRILLED COORDINATES
FOR WELL NO. 214**

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

NAD'83 S.P.C.(FT)	N. 271,996.5	E. 1,774,088.0
NAD'83 GEO.(DD)	LAT-(N) 39.244737	LONG-(W) 80.186454
NAD'83 GEO.(DMS)	LAT-(N) 39°14'41.1"	LONG-(W) 80°11'11.2"
NAD'83 UTM (M)	N. 4,344,251.2	E. 570,203.5

LANDING POINT

NAD'83 S.P.C.(FT)	N. 272,838.6	E. 1,774,419.7
NAD'83 GEO.(DD)	LAT-(N) 39.247056	LONG-(W) 80.185306
NAD'83 GEO.(DMS)	LAT-(N) 39°14'49.4"	LONG-(W) 80°11'07.1"
NAD'83 UTM (M)	N. 4,344,509.5	E. 570,300.3

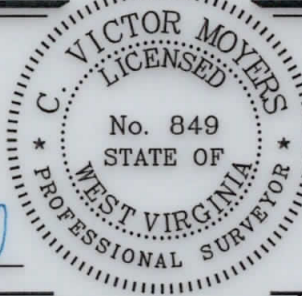
BOTTOM HOLE

NAD'83 S.P.C.(FT)	N. 281,904.0	E. 1,771,289.6
NAD'83 GEO.(DD)	LAT-(N) 39.271879	LONG-(W) 80.196606
NAD'83 GEO.(DMS)	LAT-(N) 39°16'18.8"	LONG-(W) 80°11'47.8"
NAD'83 UTM (M)	N. 4,347,255.5	E. 569,300.7

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.

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 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. 849 *C. Victor Moyers*

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

DATE AUGUST 2, 20 19

REVISED _____

OPERATORS WELL NO. PRITT SOUTH 214

API WELL NO. 47 - 033 - 05910

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8383AD214.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

LOCATION: ELEVATION EXISTING: 1,351.90' / PROPOSED: 1,354.80' 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 92.06±

PROPOSED WORK: 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 17,916.4' TMD / 7,754' 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

COUNTY NAME _____ PERMIT _____