

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

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Office Of Oil and Gas

MAR 19 2024

WV Department of
Environmental Protection

API 47 - 033 - 05901 County Harrison District Simpson
Quad Brownnton Pad Name Pritt South Field/Pool Name _____
Farm name Ira and Laura Pritt Well Number 202
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 4344361.2 Easting 570151.4
Landing Point of Curve Northing 4344116.6 Easting 570132.2
Bottom Hole Northing 4340947.8 Easting 571293.2

Elevation (ft) 1345.90 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 1/16/2019 Date drilling ceased 04/29/2019
Date completion activities began NA Date completion activities ceased NA
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 474', 581', 642', 701', 766', 833', 852' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:
[Signature]
04/19/2024

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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"	452' GL	New	54.5	140'	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"	19,248' 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 1,000'(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	865/2,368	13.80/15.00	1.58/1.30	1,366.7/3,078.4	1,000' (GL)	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 19,279'(GL) Loggers TD (ft) NA

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure NA

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Kick off depth (ft) 6,983'(GL)

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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 _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		Not Perforated			
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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)
			Not Stimulated					

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	TVD	MD
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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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	1716	Limestone
Balltown	3127	3173	3141	3187	Sandstone
Elk Siltstone	4876	4924	4890	4939	Siltstone
Burkett	7424	7447	7470	7500	Shale
Tully	7447	7494	7500	7561	Limestone
Mahantango	7494	7655	7561	7839	Shale
Marcellus	7655	7718	7839	8065	Shale
Purcell	7718	7722	8065	8090	Limestone
Lower Marcellus	7722	7744	8090	19306	Shale - Gas shows through lateral
Onondaga	7744*				*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 33 E City Weston State WV Zip 26452

Stimulating Company NA
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Arsenal Resources Telephone 724-940-1100
 Signature _____ Title Director of Geology & Dev Planning Date _____