

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

API 47 - 033 - 05932 County Harrison District Simpson
Quad Brownnton Pad Name Gamelli HSOG Field/Pool Name _____
Farm name James T. Gamelli et al 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 4,346,082.0 Easting 568,648.5
Landing Point of Curve Northing 4,345,826.2 Easting 568,402.5
Bottom Hole Northing 4,341,639.6 Easting 569,925.6

Elevation (ft) 1141.00' 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 03/01/2019 Date drilling commenced 03/18/2019 Date drilling ceased 07/04/2019
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 115', 380' 575', 650' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,400' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 97',155',254', 310',406',442',505',588',624',660' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed
580w

Reviewed by: RS
12/31/2021

API 47-033 - 05932

Farm name James T. Gamelli et al

Well number 202

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"	26"	40'	New	102.75	NA	Y
Surface	17 1/2"	13 3/8"	732' GL	New	54.5	182'	Y
Coal	NA	NA	NA	NA	NA	NA	N
Intermediate 1	12 1/4"	9 5/8"	2,471' 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"	22,439' GL	New	23.0	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 Cement for Production string, 1,320 (GL).

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	82	15.60	1.20	98.40	Surface	8+
Surface	A	700	15.60	1.18	826	Surface	8+
Coal	NA	NA	NA	NA	NA	NA	NA
Intermediate 1	A	767	15.70	1.29	989.43	Surface	8+
Intermediate 2	NA	NA	NA	NA	NA	NA	NA
Intermediate 3	NA	NA	NA	NA	NA	NA	NA
Production	A	862/3088	13.80/15.00	1.40/1.28	1,206.8/3,952.64	1,320' (GL)	8+
Tubing	NA	NA	NA	NA	NA	NA	NA

Drillers TD (ft) 22,450'(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 26"- 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

Perforations
Date

Perforations Date	Top (ftKB)	Btm (ftKB)	Entered Shot Total	Zone	Stage
6/26/2021	7,846.00	8,008.00	8,008.00	40 Marcellus	72
6/26/2021	8,046.00	8,208.00	8,208.00	40 Marcellus	71
6/25/2021	8,246.00	8,408.00	8,408.00	40 Marcellus	70
6/25/2021	8,446.00	8,608.00	8,608.00	40 Marcellus	69
6/25/2021	8,646.00	8,808.00	8,808.00	40 Marcellus	68
6/25/2021	8,846.00	9,008.00	9,008.00	40 Marcellus	67
6/25/2021	9,046.00	9,208.00	9,208.00	40 Marcellus	66
6/25/2021	9,246.00	9,408.00	9,408.00	40 Marcellus	65
6/24/2021	9,446.00	9,608.00	9,608.00	40 Marcellus	64
6/24/2021	9,646.00	9,808.00	9,808.00	40 Marcellus	63
6/24/2021	9,846.00	10,008.00	10,008.00	40 Marcellus	62
6/24/2021	10,046.00	10,208.00	10,208.00	40 Marcellus	61
6/24/2021	10,246.00	10,408.00	10,408.00	40 Marcellus	60
6/23/2021	10,446.00	10,608.00	10,608.00	40 Marcellus	59
6/23/2021	10,646.00	10,808.00	10,808.00	40 Marcellus	58
6/23/2021	10,846.00	11,008.00	11,008.00	40 Marcellus	57
6/23/2021	11,046.00	11,208.00	11,208.00	40 Marcellus	56
6/23/2021	11,246.00	11,408.00	11,408.00	40 Marcellus	55
6/22/2021	11,446.00	11,608.00	11,608.00	40 Marcellus	54
6/22/2021	11,646.00	11,808.00	11,808.00	40 Marcellus	53
6/22/2021	11,846.00	12,008.00	12,008.00	40 Marcellus	52
6/22/2021	12,046.00	12,208.00	12,208.00	40 Marcellus	51
6/21/2021	12,246.00	12,408.00	12,408.00	40 Marcellus	50
6/21/2021	12,446.00	12,611.00	12,611.00	40 Marcellus	49
6/21/2021	12,644.00	12,808.00	12,808.00	40 Marcellus	48
6/21/2021	12,846.00	13,008.00	13,008.00	40 Marcellus	47
6/20/2021	13,046.00	13,208.00	13,208.00	40 Marcellus	46
6/20/2021	13,246.00	13,408.00	13,408.00	40 Marcellus	45
6/20/2021	13,446.00	13,608.00	13,608.00	40 Marcellus	44
6/20/2021	13,646.00	13,806.00	13,806.00	40 Marcellus	43
6/19/2021	13,846.00	14,008.00	14,008.00	40 Marcellus	42
6/19/2021	14,046.00	14,208.00	14,208.00	40 Marcellus	41
6/19/2021	14,246.00	14,408.00	14,408.00	40 Marcellus	40
6/19/2021	14,446.00	14,608.00	14,608.00	40 Marcellus	39
6/19/2021	14,646.00	14,808.00	14,808.00	40 Marcellus	38
6/18/2021	14,846.00	15,008.00	15,008.00	40 Marcellus	37
6/18/2021	15,046.00	15,208.00	15,208.00	40 Marcellus	36
6/18/2021	15,246.00	15,408.00	15,408.00	40 Marcellus	35
6/18/2021	15,446.00	15,608.00	15,608.00	40 Marcellus	34
6/18/2021	15,646.00	15,808.00	15,808.00	40 Marcellus	33
6/17/2021	15,846.00	16,008.00	16,008.00	40 Marcellus	32
6/17/2021	16,046.00	16,208.00	16,208.00	40 Marcellus	31
6/17/2021	16,246.00	16,408.00	16,408.00	40 Marcellus	30
6/17/2021	16,446.00	16,608.00	16,608.00	40 Marcellus	29
6/16/2021	16,646.00	16,808.00	16,808.00	40 Marcellus	28
6/16/2021	16,846.00	17,008.00	17,008.00	40 Marcellus	27
6/16/2021	17,046.00	17,208.00	17,208.00	40 Marcellus	26
6/16/2021	17,246.00	17,408.00	17,408.00	40 Marcellus	25
6/16/2021	17,446.00	17,608.00	17,608.00	40 Marcellus	24
6/15/2021	17,646.00	17,808.00	17,808.00	40 Marcellus	23
6/15/2021	17,846.00	18,008.00	18,008.00	40 Marcellus	22
6/15/2021	18,046.00	18,208.00	18,208.00	40 Marcellus	21
6/14/2021	18,246.00	18,408.00	18,408.00	40 Marcellus	20
6/14/2021	18,446.00	18,608.00	18,608.00	40 Marcellus	19
6/14/2021	18,646.00	18,808.00	18,808.00	40 Marcellus	18
6/14/2021	18,846.00	19,008.00	19,008.00	40 Marcellus	17
6/14/2021	19,046.00	19,208.00	19,208.00	40 Marcellus	16
6/13/2021	19,246.00	19,408.00	19,408.00	40 Marcellus	15
6/13/2021	19,446.00	19,608.00	19,608.00	40 Marcellus	14
6/13/2021	19,646.00	19,808.00	19,808.00	40 Marcellus	13
6/13/2021	19,846.00	20,008.00	20,008.00	40 Marcellus	12
6/12/2021	20,046.00	20,208.00	20,208.00	40 Marcellus	11
6/12/2021	20,246.00	20,408.00	20,408.00	40 Marcellus	10
6/12/2021	20,446.00	20,608.00	20,608.00	40 Marcellus	9
6/11/2021	20,646.00	20,808.00	20,808.00	40 Marcellus	8
6/11/2021	20,846.00	21,008.00	21,008.00	40 Marcellus	7
6/11/2021	21,046.00	21,208.00	21,208.00	40 Marcellus	6
6/11/2021	21,246.00	21,408.00	21,408.00	40 Marcellus	5
6/10/2021	21,446.00	21,608.00	21,608.00	40 Marcellus	4
6/10/2021	21,646.00	21,808.00	21,808.00	40 Marcellus	3
6/10/2021	21,846.00	22,008.00	22,008.00	40 Marcellus	2
6/10/2021	22,046.00	22,208.00	22,208.00	40 Marcellus	1

Stimulations Summary
 Start Date: 6/10/2021
 Simulation Intervals

R Treat Avg (bbl/min): P Treat Avg (psi): Mass Prop Tot (lb): 35,931,625.0 Vol Clean Total (bbl): 647,943.00 Frac Grad Avg (psi/ft): 1.18

Interval Number	Start Date	Slurry Rate Avg (bbl/min)	P Treat Avg (psi)	P Breakdown (psi)	ISIP (psi)	Proppant Total CR (lb)	Vol Clean Total (bbl)	Nitrogen
1	6/10/2021	76.70	10,601.00	8,976.00	4,538.00	499,880.00	9,575.00	NA
2	6/10/2021	79.30	10,407.00	6,909.00	4,663.00	500,020.00	9,410.00	NA
3	6/10/2021	80.10	10,079.00	5,996.00	5,095.00	500,085.00	9,401.00	NA
4	6/11/2021	82.80	9,096.00	5,332.00	5,561.00	501,370.00	9,342.00	NA
5	6/11/2021	79.80	8,922.00	7,517.00	5,427.00	500,390.00	9,395.00	NA
6	6/11/2021	80.30	9,178.00	6,961.00	5,209.00	500,380.00	9,221.00	NA
7	6/11/2021	80.80	9,399.00	6,691.00	5,492.00	500,820.00	9,157.00	NA
8	6/11/2021	80.60	9,755.00	7,539.00	5,109.00	500,350.00	9,111.00	NA
9	6/12/2021	80.10	9,668.00	7,430.00	6,067.00	499,710.00	9,278.00	NA
10	6/12/2021	81.00	9,470.00	6,663.00	5,245.00	422,640.00	8,846.00	NA
11	6/12/2021	82.40	9,214.00	6,098.00	5,172.00	501,370.00	9,134.00	NA
12	6/13/2021	84.90	9,349.00	6,926.00	5,206.00	499,910.00	9,164.00	NA
13	6/13/2021	84.90	9,399.00	4,913.00	5,166.00	500,660.00	9,153.00	NA
14	6/13/2021	84.90	8,706.00	5,426.00	4,955.00	495,990.00	10,045.00	NA
15	6/13/2021	85.20	9,233.00	5,400.00	4,955.00	495,990.00	9,999.00	NA
16	6/14/2021	85.00	8,706.00	5,368.00	6,133.00	502,050.00	9,182.00	NA
17	6/14/2021	84.60	8,999.00	5,838.00	5,194.00	501,950.00	9,094.00	NA
18	6/14/2021	84.80	9,063.00	6,788.00	6,150.00	501,100.00	8,941.00	NA
19	6/14/2021	85.20	9,101.00	6,770.00	5,598.00	490,140.00	8,816.00	NA
20	6/15/2021	84.50	9,453.00	5,426.00	6,152.00	500,190.00	9,002.00	NA
21	6/15/2021	84.60	9,308.00	6,236.00	5,402.00	478,850.00	8,816.00	NA
22	6/15/2021	84.20	9,373.00	5,426.00	5,295.00	500,040.00	9,002.00	NA
23	6/15/2021	84.80	9,203.00	4,977.00	5,498.00	499,920.00	9,093.00	NA
24	6/16/2021	86.70	8,898.00	5,175.00	5,813.00	500,790.00	9,296.00	NA
25	6/16/2021	87.80	9,230.00	6,517.00	5,685.00	500,790.00	9,049.00	NA
26	6/16/2021	86.40	9,261.00	6,315.00	5,880.00	500,120.00	9,216.00	NA
27	6/16/2021	85.60	9,261.00	4,814.00	6,278.00	500,160.00	9,000.00	NA
28	6/17/2021	85.60	8,924.00	5,689.00	5,800.00	499,580.00	9,162.00	NA
29	6/17/2021	85.20	8,964.00	6,881.00	6,050.00	498,150.00	9,238.00	NA
30	6/17/2021	88.40	8,845.00	6,092.00	5,196.00	489,930.00	9,008.00	NA
31	6/17/2021	87.60	8,874.00	6,769.00	6,047.00	500,100.00	9,067.00	NA
32	6/17/2021	87.30	8,992.00	6,353.00	6,020.00	500,030.00	9,031.00	NA
33	6/17/2021	85.50	8,883.00	6,915.00	5,750.00	500,290.00	9,095.00	NA
34	6/18/2021	86.40	8,997.00	6,455.00	6,270.00	501,340.00	9,070.00	NA
35	6/18/2021	88.00	8,877.00	5,468.00	5,243.00	500,080.00	8,959.00	NA
36	6/18/2021	88.40	9,135.00	5,440.00	5,719.00	500,080.00	8,954.00	NA
37	6/18/2021	85.30	9,121.00	5,645.00	5,620.00	501,460.00	9,284.00	NA
38	6/19/2021	86.10	9,096.00	6,319.00	5,500.00	500,760.00	9,080.00	NA
39	6/19/2021	85.50	8,848.00	6,644.00	5,877.00	499,640.00	10,221.00	NA
40	6/19/2021	86.90	8,919.00	5,523.00	5,638.00	500,220.00	9,000.00	NA
41	6/19/2021	88.30	8,896.00	5,593.00	5,600.00	499,450.00	8,864.00	NA
42	6/20/2021	85.80	8,412.00	6,008.00	5,700.00	500,990.00	8,932.00	NA
43	6/20/2021	88.60	8,271.00	4,944.00	5,611.00	501,240.00	8,985.00	NA
44	6/20/2021	88.70	8,337.00	5,218.00	6,950.00	500,550.00	8,788.00	NA
45	6/20/2021	89.20	8,481.00	5,113.00	5,483.00	500,020.00	8,797.00	NA
46	6/20/2021	84.70	8,448.00	5,703.00	5,600.00	499,740.00	8,849.00	NA
47	6/21/2021	88.60	8,626.00	6,116.00	5,775.00	500,540.00	9,175.00	NA
48	6/21/2021	88.60	8,476.00	6,088.00	5,916.00	500,160.00	8,909.00	NA
49	6/21/2021	85.40	8,362.00	6,182.00	6,164.00	500,300.00	8,760.00	NA
50	6/22/2021	85.10	8,498.00	5,692.00	5,950.00	500,180.00	8,928.00	NA
51	6/22/2021	87.70	8,488.00	6,103.00	5,480.00	500,180.00	8,938.00	NA
52	6/22/2021	87.60	8,282.00	6,192.00	6,035.00	500,730.00	8,722.00	NA
53	6/22/2021	85.30	8,408.00	5,410.00	6,217.00	500,560.00	8,723.00	NA
54	6/22/2021	85.10	8,552.00	6,360.00	6,150.00	500,610.00	8,721.00	NA
55	6/23/2021	85.10	8,286.00	7,277.00	6,325.00	499,920.00	8,704.00	NA
56	6/23/2021	85.60	8,252.00	7,121.00	6,175.00	501,220.00	8,697.00	NA
57	6/23/2021	85.20	8,044.00	6,761.00	6,077.00	500,210.00	8,639.00	NA
58	6/23/2021	86.10	8,157.00	6,213.00	6,057.00	500,150.00	8,685.00	NA
59	6/23/2021	85.70	8,002.00	5,406.00	5,660.00	500,710.00	8,679.00	NA
60	6/24/2021	85.50	7,887.00	5,269.00	5,820.00	501,600.00	8,716.00	NA
61	6/24/2021	86.00	7,579.00	4,586.00	6,050.00	501,070.00	8,647.00	NA
62	6/24/2021	87.00	7,697.00	6,221.00	5,763.00	502,200.00	8,871.00	NA
63	6/24/2021	85.10	7,829.00	6,428.00	5,504.00	502,240.00	8,638.00	NA
64	6/24/2021	85.40	7,633.00	6,292.00	5,950.00	500,960.00	8,714.00	NA
65	6/25/2021	85.70	7,386.00	6,292.00	5,237.00	500,510.00	8,652.00	NA
66	6/25/2021	85.80	7,599.00	5,809.00	5,850.00	500,970.00	8,617.00	NA
67	6/25/2021	86.90	7,740.00	6,970.00	5,978.00	502,340.00	8,657.00	NA
68	6/25/2021	85.30	7,601.00	6,908.00	6,060.00	500,920.00	8,648.00	NA
69	6/25/2021	86.00	7,675.00	6,798.00	6,200.00	498,580.00	8,795.00	NA
70	6/26/2021	85.90	7,757.00	6,995.00	5,280.00	500,480.00	8,597.00	NA
71	6/26/2021	86.00	7,835.00	5,614.00	5,380.00	500,680.00	8,623.00	NA
72	6/26/2021	85.50	7,657.00	6,123.00	5,957.00	501,650.00	8,581.00	NA
72	6/26/2021	85.80	7,643.00	7,861.00	5,154.00	518,810.00	8,717.00	NA

RECEIVED
 Office of Oil and Gas

SEP 24 2021

WV Department of
 Environmental Protection

API 47- 033 - 05932 Farm name James T. Gamelli et al Well number 202

PRODUCING FORMATION(S)	DEPTHS		
Marcellus Shale	7,521'	TVD	22,477' 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/Coal	0	254	0	254	Freshwater @ 115', 380', 575', 650', Elk Lick Coal @ 106' TVD, Harlem Coal @ 155' TVD
Sand/Silt/Coal	254	406	254	406	Bakerstown Coal @ 254' TVD, Brush Creek Coal @ 310' TVD
Sand/Silt/Coal	406	505	406	505	Upper Freeport @ 406' TVD, Lower Freeport @ 442' TVD
Sand/Silt/Coal	505	1260	505	1260	Upper Kittanning @ 505' TVD, Middle Kittanning @ 588' TVD, Lower Kittanning @ 624' TVD, Clarion @ 660' TVD
Big Lime	1260	1430	1260	1430	Limestone, Saltwater @ 1,400'
Balltown	2860	2906	2861	2907	Sandstone
Elk Siltstone	4590	4638	4593	4641	Siltstone
Burkett	7021	7041	7225	7253	Shale
Tully	7041	7089	7253	7321	Limestone
Mahantango	7089	7251	7321	7627	Shale
Marcellus	7251	7304	7627	7797	Shale
Purcell	7304	7306	7797	7802	Limestone
Lower Marcellus	7306	7344	7802	22477	Shale - Gas shows through lateral
Onondaga	7344*				*Onondaga not penetrated - top estimated based on 4703305933 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 Universal Pressure Pumping
 Address 6 Desta Drive, Suite 4400 City Midland State TX Zip 79705

Stimulating Company Stingray - Mammoth Energy Services INC
 Address 14201 Caliber Drive Suite 300 City Oklahoma City State OK Zip 73134

Please insert additional pages as applicable.

Completed by Arsenal Resources Telephone 724-584-1192
 Signature _____ Title Sr. Director of Drilling Date 9/11/2021

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

12/31/2021

**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 West Main St
Bridgeport WV 26330

Geological Target Formation: Marcellus Depth 7310 feet
Perforation Interval 7846-22208 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 8/17/21	Time 9:00 AM	End of Test Date 8/18/21	Time 9:00 AM	Duration of Test 24 hr
Tubing Pressure NA	Casing Pressure 1672	Separator Pressure 713	Separator Temperature 89	
Oil Production During Test BBLs	Gas Production During Test MCF	Water Production During Test BBLs -Salinity		
Oil Gravity 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 5.761" run with 2" orifice
Differential		Static
Gas Gravity (Air = 1.0) Measured Estimated	Flowing Temperature 89	Gas Temperature 60
24 Hour Coefficient	24 Hour coefficient pressure PSIA	

TEST RESULTS

Daily Oil 0	Daily Water 1031	Daily Gas 13036	Gas-Oil Ratio NA
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Arsenal Resources LLC

BY Well Operator
R Schweitzer
ITS: Responsible Person - Sr. Director of Drilling

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/9/2021
Job End Date:	6/26/2021
State:	West Virginia
County:	Harrison
API Number:	47-033-05932-00-00
Operator Name:	Arsenal Resources
Well Name and Number:	Gamelli 202
Latitude:	39.26138000
Longitude:	-80.20426000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7,472
Total Base Water Volume (gal):	28,409,430
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	Arsenal Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.63518	None
Sand (40/70 Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	10.23376	None
Sand (100 Mesh Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100.00000	2.89677	None
Hydrochloric Acid (28%)	Dover	Acidizing	Water	7732-18-5	64.00000	0.08482	None
			Hydrochloric Acid (Hydrogen Chloride)	7732-18-5	36.00000	0.04771	None
StimSTREAM FR 9750	Chemstream	Friction Reducer	Petroleum Distillates, hydrotreated light	64742-47-8	25.00000	0.01804	None
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00361	None
StimSTREAM SC-398	Chemstream	Scale Inhibitor	Non-hazardous substances	Proprietary	90.00000	0.01548	None

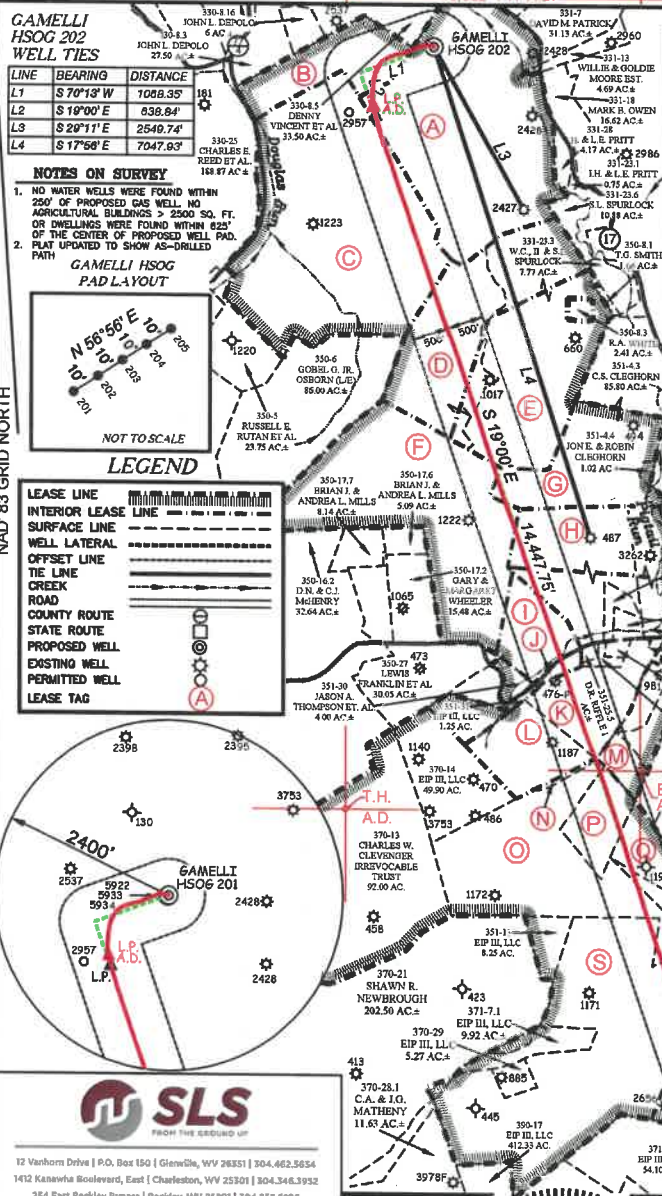
			Bis (HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00172	None
Clearal 268	Chemstream	Biocide					
			Non-hazardous substances	Proprietary	80.00000	0.00944	None
			Glutaraldehyde	111-30-8	20.00000	0.00236	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00035	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00035	None
			Ethanol	64-17-5	1.50000	0.00018	None
NEFE-180	Dover	Corrosion Inhibitor/Iron Control					
			Acetic acid	64-19-7	89.00000	0.00052	None
			Methanol	67-56-1	40.00000	0.00023	None
			2-Ethylhexanol	104-76-7	10.00000	0.00006	None
			Fatty acids, tall oil	61790-12-3	5.00000	0.00003	None
			2-Propyn-1-ol	107-19-7	5.00000	0.00003	None
			Alcohols, C14-15, ethoxylated	68951-67-7	5.00000	0.00003	None
			Coconut oil acid diethanolamine	68603-42-9	5.00000	0.00003	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	64.00000	0.08482	
			Non-hazardous substances	Proprietary	90.00000	0.01548	
			Non-hazardous substances	Proprietary	80.00000	0.00944	
			Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00000	0.00361	
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00035	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00035	
			Methanol	67-56-1	40.00000	0.00023	
			Ethanol	64-17-5	1.50000	0.00018	
			2-Ethylhexanol	104-76-7	10.00000	0.00006	
			Fatty acids, tall oil	61790-12-3	5.00000	0.00003	
			Alcohols, C14-15, ethoxylated	68951-67-7	5.00000	0.00003	
			2-Propyn-1-ol	107-19-7	5.00000	0.00003	
			Coconut oil acid diethanolamine	68603-42-9	5.00000	0.00003	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

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

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)



**ARSENAL RESOURCES
GAMELLI HSOG 202 AS-DRILLED**

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

NAD'83 S.P.C.(FT) N. 278,088.8 E. 1,769,086.3
 NAD'83 GEO. LAT(-N) 39.259072 LONG(-W) 80.204287
 NAD'83 UTM (M) N. 4,345,082.0 E. 568,648.5

LANDING POINT

NAD'83 S.P.C.(FT) N. 277,282.8 E. 1,768,264.1
 NAD'83 GEO. LAT(-N) 39.259072 LONG(-W) 80.207164
 NAD'83 UTM (M) N. 4,345,826.2 E. 568,402.5

BOTTOM HOLE

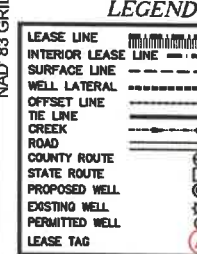
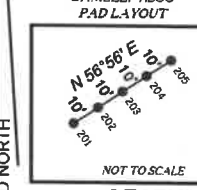
NAD'83 S.P.C.(FT) N. 263,441.9 E. 1,773,033.7
 NAD'83 GEO. LAT(-N) 39.221229 LONG(-W) 80.189945
 NAD'83 UTM (M) N. 4,341,639.6 E. 569,925.6

LINE BEARING DISTANCE

L1	S 70°13' W	1088.35'	181
L2	S 19°00' E	838.64'	
L3	S 29°11' E	2549.74'	
L4	S 17°58' E	7047.63'	

NOTES ON SURVEY

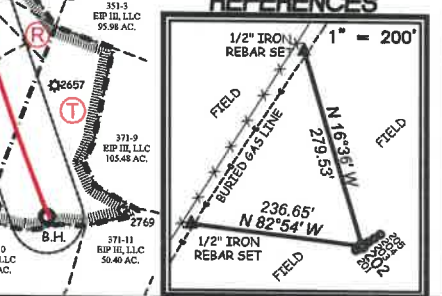
- NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. PLAT UPDATED TO SHOW AS-DRILLED PART.



SLS
FROM THE GROUND UP

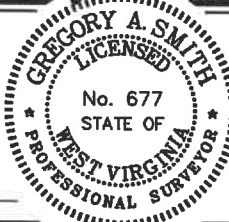
12 Vanborn Drive | P.O. Box 150 | Glen Dale, WV 26031 | 304.462.5654
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.348.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.258.5296
 slsenv.com

TAG	SURFACE OWNER	TAX ID#	ACREAGE
A	JAMES T. GAMELLI ET AL.	330-28	151.20±
B	DEPOLO FAMILY TRUST	330-8.6	33.50±
C	SCOT S. DIERRINGER ET AL.	330-26	172.93±
D	SCOTT & LINDA DIERRINGER	330-71	57.45±
E	SARA L. SPURLOCK	350-7	97.19±
F	R. MARK & DIANA L. HACKETT	350-8	127.44±
G	CAROLYN S. CLEGHORN	351-4.2	85.83±
H	RONALD R. II & JODY A. CRIM	351-15	103.37±
I	DELLA R. & RANDALL RIFFLE	351-16	22.75±
J	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-16.1	2.00±
K	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-25.2	31.98±
L	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-25.1	27.30±
M	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-26	11.60±
N	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-25.4	1.03±
O	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-1	94.91±
P	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-1.2	19.59±
Q	ROGER P. II & MELISSA L. SUTTER	371-1.1	12.19±
R	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-7	162.57±
S	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-1.3	10.01±
T	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-7	162.57±
	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-8	71.65±



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 *Gregory A. Smith*



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

DATE SEPTEMBER 17, 20 21

REVISED _____

OPERATORS WELL NO. GAMELLI HSOG 202

API WELL NO. 47 - 033 - 5932

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 8597P202AD.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: 1,131.30' / PROPOSED: 1,140.50' WATERSHED BEARDS RUN

DISTRICT SIMPSON COUNTY HARRISON QUADRANGLE ROSEMONT 7.5'

SURFACE OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±

ROYALTY OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±

PROPOSED WORK: LEASE NO. _____

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 2,283.2' TMD / 7,317' TVD

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT GARY SHORT

ADDRESS 6031 WALLACE RD. EXT. SUITE 300 ADDRESS 633 WEST MAIN ST.

WEXFORD, PA 15090 BRIDGEPORT, WV 26330

T.H. LATITUDE 39°17'30" B.H. LATITUDE 39°15'00" T.H. LONGITUDE 80°10'00" B.H. LONGITUDE 80°10'00" 10,480' B.H. A.D. 11,049' T.H. A.D.

12/31/2021

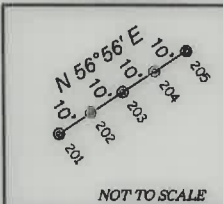
GAMELLI HSOG 202 WELL TIES

LINE	BEARING	DISTANCE
L1	S 70°13' W	1068.95'
L2	S 19°00' E	638.84'
L3	S 29°11' E	2549.74'
L4	S 17°56' E	7047.93'

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 825' OF THE CENTER OF PROPOSED WELL PAD.
- PLAT UPDATED TO SHOW AS-DRILLED PATH

GAMELLI HSOG PAD LAYOUT



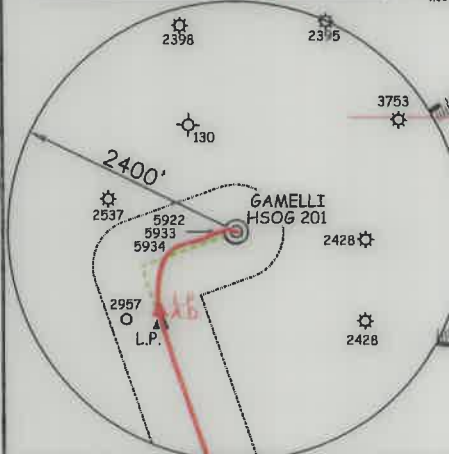
LEGEND

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

NAD'83 GRID NORTH

LEGEND

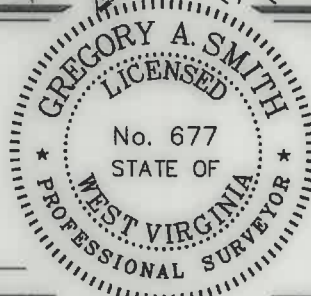
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12 Yarmouth Drive | P.O. Box 100 | Clarksburg, WV 26301 | 304.467.8844
 1012 Marzetta Boulevard, First Floor | Charleston, WV 25301 | 304.348.3092
 200 Bank Building | Lynchburg, VA 24501 | 434.340.5196

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P.S. 849 *Gregory A. Smith*



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 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION EXISTING: 1,131.30' / PROPOSED: 1,140.50' WATERSHED BEARDS RUN DISTRICT SIMPSON COUNTY HARRISON QUADRANGLE ROSEMONT 7.5'

SURFACE OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±

ROYALTY OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±

PROPOSED WORK: LEASE NO. 12/31/2021

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 22,283.2' TMD / 7,317' TVD

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 ADDRESS 6031 WALLACE RD. EXT. SUITE 300 WEXFORD, PA 15090 ADDRESS 633 WEST MAIN ST. BRIDGEPORT, WV 26330

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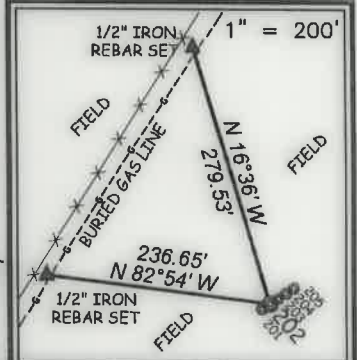
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T	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-7	162.57±
		371-8	71.65±

LEGEND

- AS DRILLED
- PROPOSED

REFERENCES



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS. DATE SEPTEMBER 17, 2021

REVISED OPERATORS WELL NO. GAMELLI HSOG 202
 API WELL NO. 47 - 033 - 5932
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS



COUNTY NAME PERMIT

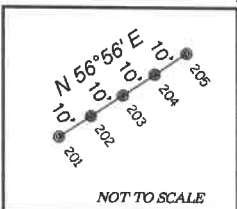
GAMELLI HSOG 202 WELL TIES

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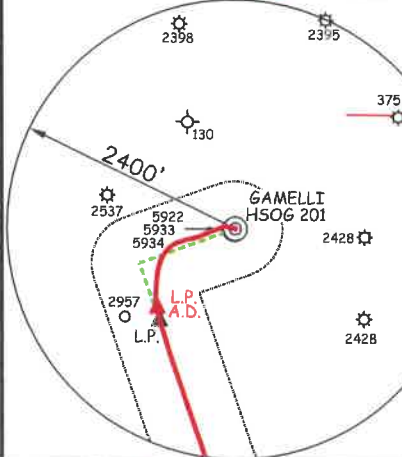
GAMELLI HSOG PAD LAYOUT



LEGEND

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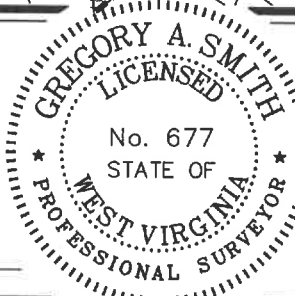
NAD'83 GRID NORTH



12 Vanhorn Drive | P.O. Box 150 | Glenville, WV 26351 | 304.462.5634
 1412 Kanawha Boulevard, East | Charleston, WV 25301 | 304.346.3952
 254 East Beckley Bypass | Beckley, WV 25801 | 304.255.5298
 slsvw.com

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P.S. 849 *Gregory A. Smith*



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 DATE SEPTEMBER 17, 20 21

REVISED _____
 OPERATORS WELL NO. GAMELLI HSOG 202
 API WELL NO. 47 - 033 - 5932
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8597P202AD.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 INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION EXISTING: 1,131.30' / PROPOSED: 1,140.50' WATERSHED BEARDS RUN
 DISTRICT SIMPSON COUNTY HARRISON QUADRANGLE ROSEMONT 7.5'

SURFACE OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±
 ROYALTY OWNER JAMES T. GAMELLI ET AL. ACREAGE 151.20±

PROPOSED WORK: 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 22,283.2' TMD / 7,317' TVD

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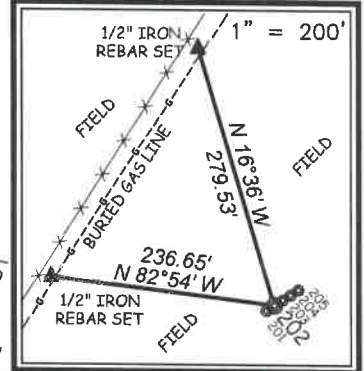
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 NAD'83 GEO. LAT-(N) 39.259072 LONG-(W) 80.207184
 NAD'83 UTM (M) N. 4,345,826.2 E. 568,402.5
 BOTTOM HOLE
 NAD'83 S.P.C.(FT) N. 263,441.9 E. 1,773,033.7
 NAD'83 GEO. LAT-(N) 39.221229 LONG-(W) 80.189945
 NAD'83 UTM (M) N. 4,341,639.6 E. 569,925.6

TAG	SURFACE OWNER	TAX MAP	ACREAGE
A	JAMES T. GAMELLI ET AL.	330-28	151.20±
B	DEPOLO FAMILY TRUST	330-8.6	33.50±
C	SCOTT S. DIERINGER ET AL.	330-26	172.93±
D	SCOTT & LINDA DIERINGER	350-7.1	57.45±
E	SARA L. SPURLOCK	350-7	97.19±
F	R. MARK & DIANA L. HACKETT	350-18	127.84±
G	CAROLYN S. CLEGHORN	351-4.2	85.80±
H	RONALD R., II & JODY A. CRIM	351-15	100.37±
I	DELLA R. & RANDALL RIFFLE	351-16	22.75±
J	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-16.1	2.00±
K	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-25.2	31.98±
L	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-25.1	27.30±
M	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-26	11.60±
N	ECOSYSTEM INVESTMENT PARTNERS III, LLC	351-25.4	1.03±
O	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-1	94.91±
P	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-1.2	19.59±
Q	ROGER P., II & MELISSA L. SUTER	371-1.1	12.19±
R	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-7	162.57±
S	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-1.3	10.01±
T	ECOSYSTEM INVESTMENT PARTNERS III, LLC	371-8	71.65±

LEGEND
 AS DRILLED (Red line)
 PROPOSED (Green dashed line)

REFERENCES



T.H. LONGITUDE 80°10'00" B.H. LONGITUDE 80°10'00" 10,480' T.H. A.D.

COUNTY NAME PERMIT