

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

API 47 - 051 - 02045 County Marshall District Franklin
Quad Powhatan Point Pad Name MND20 Field/Pool Name _____
Farm name CCC/Murray Energy Well Number MND20 EU
Operator (as registered with the OOG) HG Energy II Appalachia, LLC
Address 5260 Dupont Rd City Parkersburg State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4411324.4 Easting 516847.5
Landing Point of Curve Northing 4411770.6 Easting 517980.6
Bottom Hole Northing 4407911.9 Easting 520795.6

Elevation (ft) 1058 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)
Air/ OBM

KCL, Barite, Lime, CaCL, graphite, base oil, clay, sulfatone, petrogel

Date permit issued 8/27/2018 Date drilling commenced 8/28/2018 Date drilling ceased 2/8/2019
Date completion activities began 3/14/2019 Date completion activities ceased 7/29/2019
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 450 Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 545 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

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Reviewed by: [Signature]
6/25/2020
WV Department of Environmental Protection

API 47-051 - 02045 Farm name CCC/Murray Energy Well number MND20 EU

| 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" | 30" | 100' | New | 154.5 lbs/ft | | No |
| Surface | 26" | 20" | 938' | New | 94 lbs/ft J-55 | | Yes |
| Coal | | | | | | | |
| Intermediate 1 | 17.5" | 13.375" | 2703' | New | 68 lbs/ft | | Yes |
| Intermediate 2 | 12.25" | 9.625" | 10292' | New | 47 lbs/ft P-11C | | Yes |
| Intermediate 3 | | | | | | | |
| Production | 8.5" | 6.625"/5.5" | 28184' | New | Q125 28.6/P | | Yes |
| Tubing | | | | | | | |
| Packer type and depth set | | | | | | | |

Comment Details _____

| 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 | | | | | | Drilled in | |
| Surface | Class A | 1765 | 15.6 | 1.19 | 2100 | Surface | 8 |
| Coal | | | | | | | |
| Intermediate 1 | Class A | 1430/660 | 15.2/15.8 | 1.26/1.33 | 1802/876 | Surface | 8 |
| Intermediate 2 | Class A | 1490/1500 | 13.5/15 | 1.66/1.14 | 2476/1712 | Surface | 8 |
| Intermediate 3 | | | | | | | |
| Production | Class H | 589/3550 | 15.3/16.0 | 1.24/1.44 | 730/5109 | ~1406 | 8 |
| Tubing | | | | | | | |

Drillers TD (ft) 28221 Loggers TD (ft) _____
 Deepest formation penetrated Point Pleasant Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 10356

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 30": N/A 20" centralizers every 3 joints to surface, 13.375" bow springs on first 2 joints then every 100' from surface 9.625" Bow spring on first 8 joints then every 3rd joint from surface 6.625/5.5" 1 spiral centralizer every 5 joints from top of curve to surface 1 spiral centralizer every 3 joints from 1st 5.5 long joint to the top of the curve.

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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API 47- 051 - 02045 Farm name CCC/Murray Energy Well number MND20 EU

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|------------------|
| | | | | | * See Attached * |
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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) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| | | | *See Attached* | | | | | |
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Please insert additional pages as applicable.

WR-35
Rev. 8/23/13

API 47- 051 - 02045 Farm name CCC/Murray Energy Well number MND20 EU

PRODUCING FORMATION(S) DEPTHS
Point Pleasant 10687-11100 TVD 11877-28221 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 7873 psi Bottom Hole _____ psi DURATION OF TEST 473 hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
48,057 mcfpd _____ bpd _____ bpd 360 bpd Estimated Orifice Pilot

| LITHOLOGY/ FORMATION | TOP | BOTTOM | TOP | BOTTOM | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
|-------------------------|-------------------------|--------------------|-------------------|-------------------|--|
| | DEPTH IN FT NAME TVD | DEPTH IN FT TVD | DEPTH IN FT MD | DEPTH IN FT MD | |
| | <u>0</u> | | <u>0</u> | | <u>*See Attached *</u> |
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Please insert additional pages as applicable.

Drilling Contractor Patterson Drilling
Address 2198 University Drive City Lemont Furnace State PA Zip 15456

Logging Company Renegade Wireline Services
Address 191 Earnhardt Rd. City Hunker State PA Zip 15639

Cementing Company C & J Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company Stingray
Address 14201 Caliber Dr City Oklahoma City State OK Zip 73134

Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119
Signature Diane White Title _____ Date 5/4/2020

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HG Energy II Appalachia, LLC
MND20 EU
Lithology Report

1083 RKB

| Formation | Top MD | TVD | Base MD | TVD | Formation Description |
|----------------------|--------|-------|---------|-------|--|
| Coal | 213 | 213 | 216 | 216 | |
| Other Coals | 465 | 465 | 470 | 470 | |
| Freshwater show | 450 | 450 | 452 | 452 | 1/2" stream only observed water show |
| Pittsburgh Coal | 545 | 545 | 553 | 553 | |
| Greenbrier Big Lime | 1583 | 1583 | 1600 | 1600 | Limestone |
| Loyalhanna Big Injun | 1673 | 1673 | 1712 | 1712 | Sandstone |
| Pocono Big Injun | 1763 | 1763 | 1916 | 1916 | Sandstone |
| Price | 2260 | 2260 | 2290 | 2290 | Sandstone |
| 50' sand | 2386 | 2386 | 2416 | 2416 | Sandstone |
| Gordon Stray | 2464 | 2464 | 2481 | 2481 | sandstone |
| Speechley | 3242 | 3239 | 3383 | 3379 | shale |
| Java | 4875 | 4759 | 4919 | 4799 | shale |
| Rhinestreet | 5730 | 5535 | 6070 | 5842 | shale |
| Cashaqua | 6070 | 5842 | 6141 | 5907 | shale |
| MiddleSex | 6141 | 5907 | 6174 | 5937 | shale |
| West River | 6174 | 5937 | 6206 | 5966 | shale |
| Burket | 6206 | 5966 | 6260 | 6016 | shale |
| Tully | 6260 | 6016 | 6288 | 6041 | Limestone |
| Hamilton | 6288 | 6041 | 6299 | 6051 | shale |
| Marcellus | 6299 | 6051 | 6368 | 6113 | shale, 1600 units peak gas |
| Onondaga | 6368 | 6113 | 6415 | 6155 | Limestone |
| Huntersville | 6415 | 6155 | 6485 | 6219 | chert,shale |
| Oriskany | 6485 | 6219 | 6718 | 6429 | sandstone, siltstone,limestone |
| Helderburg | 6718 | 6429 | 7008 | 6692 | Limestone |
| Bass Island | 7008 | 6692 | 7118 | 6793 | Dolomite |
| Salina | 7118 | 6793 | 8254 | 7822 | salt, dolomite, anhydrite |
| Lockport | 8254 | 7822 | 8458 | 8007 | Dolomite |
| Newburg | 8458 | 8007 | 8674 | 8206 | Dolomite, mudstone |
| Rochester | 8674 | 8206 | 8904 | 8417 | shale |
| Dayton/Packer | 8904 | 8417 | 9048 | 8548 | fossiliferous shale/Dolomite/Limestone |
| Rose Hill | 9048 | 8548 | 9133 | 8625 | shale |
| Clinton | 9133 | 8625 | 9281 | 8759 | Sandstone,shale |
| Medina | 9281 | 8759 | 9331 | 8804 | shale,sandstone |
| Queenston | 9331 | 8804 | 10236 | 9641 | red shale |
| Reedsville | 10236 | 9641 | 10727 | 10092 | grey shale |
| Utica | 10727 | 10092 | 11877 | 10687 | Limey shale |
| PP | 11877 | 10687 | 28221 | 11100 | Limey shale |

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HG Energy II Appalachia, LLC

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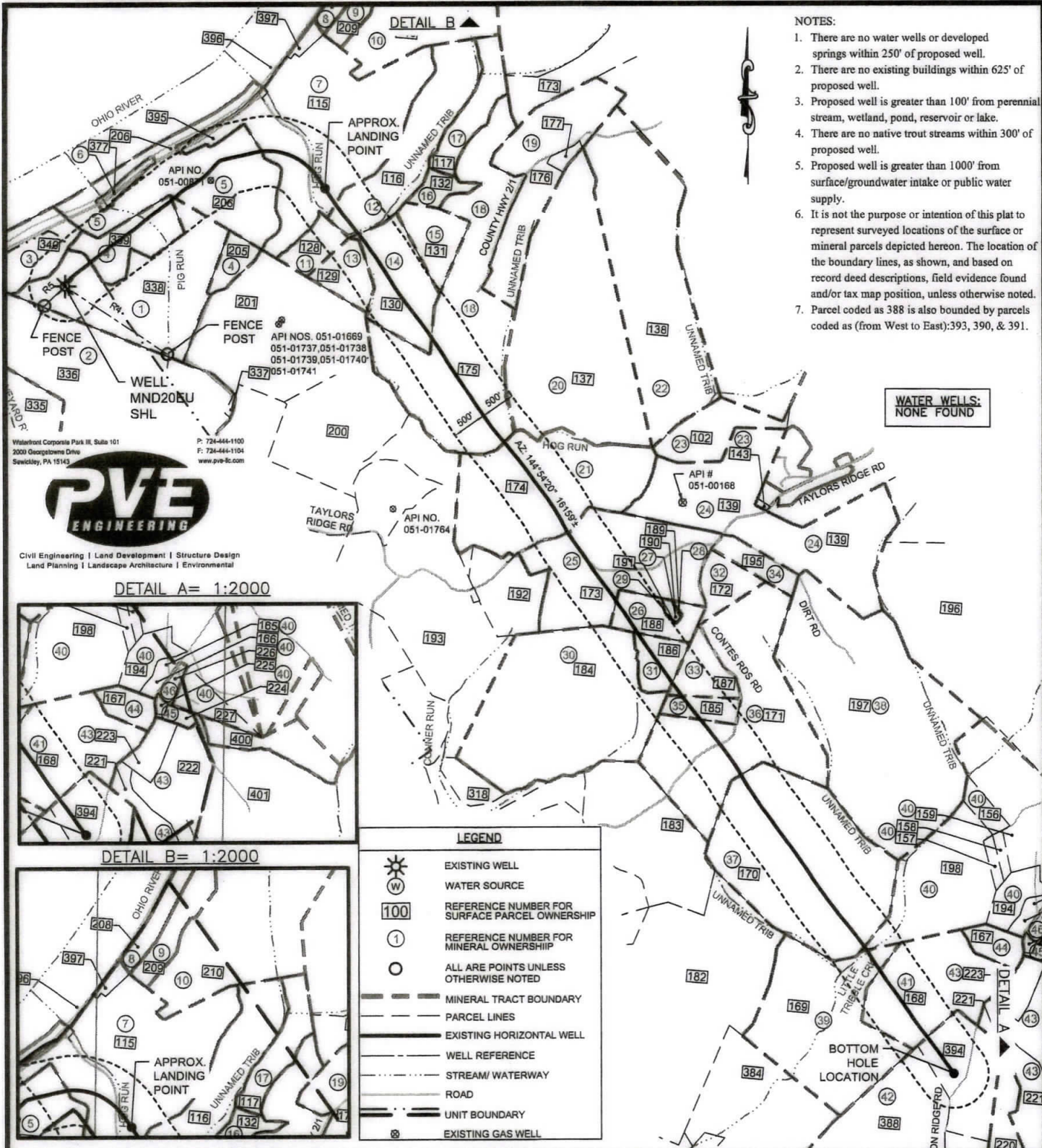
Perforation Report

| Stage # | Perforation Date | Perforation From Depth | Perforation to Depth | Number of Perforations | Formation |
|---------|------------------|------------------------|----------------------|------------------------|----------------|
| 1 | 3/24/2019 | 28066 | 28015 | 0 | Point Pleasant |
| 2 | 3/25/2019 | 27,975 | 27,815 | 45 | Point Pleasant |
| 3 | 3/26/2019 | 27,775 | 27,615 | 45 | Point Pleasant |
| 4 | 3/26/2019 | 27,575 | 27,415 | 45 | Point Pleasant |
| 5 | 3/26/2019 | 27,375 | 27,215 | 45 | Point Pleasant |
| 6 | 3/27/2019 | 27,175 | 27,015 | 45 | Point Pleasant |
| 7 | 3/27/2019 | 26,975 | 26,815 | 45 | Point Pleasant |
| 8 | 3/28/2019 | 26,775 | 26,615 | 45 | Point Pleasant |
| 9 | 3/28/2019 | 26,575 | 26,415 | 45 | Point Pleasant |
| 10 | 3/29/2019 | 26,375 | 26,215 | 45 | Point Pleasant |
| 11 | 3/29/2019 | 26,175 | 26,015 | 45 | Point Pleasant |
| 12 | 3/30/2019 | 25,975 | 25,815 | 45 | Point Pleasant |
| 13 | 3/30/2019 | 25,775 | 25,615 | 45 | Point Pleasant |
| 14 | 3/30/2019 | 25,575 | 25,415 | 45 | Point Pleasant |
| 15 | 3/31/2019 | 25,375 | 25,215 | 45 | Point Pleasant |
| 16 | 3/31/2019 | 25,175 | 25,015 | 45 | Point Pleasant |
| 17 | 4/1/2019 | 24,975 | 24,815 | 45 | Point Pleasant |
| 18 | 4/1/2019 | 24,775 | 24,615 | 45 | Point Pleasant |
| 19 | 4/1/2019 | 24,575 | 24,415 | 45 | Point Pleasant |
| 20 | 4/2/2019 | 24,375 | 24,215 | 45 | Point Pleasant |
| 21 | 4/2/2019 | 24,175 | 24,015 | 45 | Point Pleasant |
| 22 | 4/2/2019 | 23,975 | 23,815 | 45 | Point Pleasant |
| 23 | 4/3/2019 | 23,775 | 23,615 | 45 | Point Pleasant |
| 24 | 4/3/2019 | 23,575 | 23,415 | 45 | Point Pleasant |
| 25 | 4/4/2019 | 23,375 | 23,215 | 45 | Point Pleasant |
| 26 | 4/4/2019 | 23,175 | 23,015 | 45 | Point Pleasant |
| 27 | 4/4/2019 | 22,975 | 22,815 | 45 | Point Pleasant |
| 28 | 4/5/2019 | 22,775 | 22,615 | 45 | Point Pleasant |
| 29 | 4/5/2019 | 22,575 | 22,415 | 45 | Point Pleasant |
| 30 | 4/5/2019 | 22,375 | 22,215 | 45 | Point Pleasant |
| 31 | 4/6/2019 | 22,175 | 22,015 | 45 | Point Pleasant |
| 32 | 4/6/2019 | 21,975 | 21,815 | 45 | Point Pleasant |
| 33 | 4/6/2019 | 21,775 | 21,615 | 45 | Point Pleasant |
| 34 | 4/7/2019 | 21,575 | 21,415 | 45 | Point Pleasant |
| 35 | 4/7/2019 | 21,375 | 21,215 | 45 | Point Pleasant |
| 36 | 4/7/2019 | 21,175 | 21,015 | 45 | Point Pleasant |
| 37 | 4/7/2019 | 20,975 | 20,815 | 45 | Point Pleasant |
| 38 | 4/8/2019 | 20,775 | 20,615 | 45 | Point Pleasant |
| 39 | 4/8/2019 | 20,575 | 20,415 | 45 | Point Pleasant |
| 40 | 4/8/2019 | 20,375 | 20,215 | 45 | Point Pleasant |
| 41 | 4/9/2019 | 20,175 | 20,015 | 45 | Point Pleasant |
| 42 | 4/9/2019 | 19,976 | 19,816 | 45 | Point Pleasant |
| 43 | 4/10/2019 | 19,778 | 19,618 | 45 | Point Pleasant |
| 44 | 4/10/2019 | 19,580 | 19,420 | 45 | Point Pleasant |
| 45 | 4/10/2019 | 19,382 | 19,222 | 45 | Point Pleasant |
| 46 | 4/10/2019 | 19,184 | 19,024 | 45 | Point Pleasant |
| 47 | 4/11/2019 | 18,986 | 18,826 | 45 | Point Pleasant |
| 48 | 4/11/2019 | 18,788 | 18,628 | 45 | Point Pleasant |
| 49 | 4/11/2019 | 18,590 | 18,430 | 45 | Point Pleasant |
| 50 | 4/12/2019 | 18,392 | 18,232 | 45 | Point Pleasant |
| 51 | 4/12/2019 | 18,194 | 18,034 | 45 | Point Pleasant |
| 52 | 4/12/2019 | 17,996 | 17,836 | 45 | Point Pleasant |
| 53 | 4/12/2019 | 17,798 | 17,638 | 45 | Point Pleasant |
| 54 | 4/13/2019 | 17,600 | 17,440 | 45 | Point Pleasant |
| 55 | 4/13/2019 | 17,402 | 17,242 | 45 | Point Pleasant |
| 56 | 4/13/2019 | 17,204 | 17,044 | 45 | Point Pleasant |
| 57 | 4/14/2019 | 17,006 | 16,846 | 45 | Point Pleasant |
| 58 | 4/14/2019 | 16,808 | 16,648 | 45 | Point Pleasant |
| 59 | 4/14/2019 | 16,610 | 16,450 | 45 | Point Pleasant |
| 60 | 4/14/2019 | 16,412 | 16,252 | 45 | Point Pleasant |
| 61 | 4/15/2019 | 16,214 | 16,054 | 45 | Point Pleasant |
| 62 | 4/15/2019 | 16,016 | 15,856 | 45 | Point Pleasant |
| 63 | 4/15/2019 | 15,818 | 15,658 | 45 | Point Pleasant |
| 64 | 4/16/2019 | 15,620 | 15,460 | 45 | Point Pleasant |
| 65 | 4/16/2019 | 15,422 | 15,262 | 45 | Point Pleasant |
| 66 | 4/16/2019 | 15,224 | 15,064 | 45 | Point Pleasant |
| 67 | 4/16/2019 | 15,026 | 14,866 | 45 | Point Pleasant |
| 68 | 4/17/2019 | 14,828 | 14,668 | 45 | Point Pleasant |
| 69 | 4/17/2019 | 14,630 | 14,470 | 45 | Point Pleasant |
| 70 | 4/17/2019 | 14,432 | 14,272 | 45 | Point Pleasant |
| 71 | 4/18/2019 | 14,234 | 14,074 | 45 | Point Pleasant |
| 72 | 4/18/2019 | 14,036 | 13,876 | 45 | Point Pleasant |
| 73 | 4/19/2019 | 13,838 | 13,678 | 45 | Point Pleasant |
| 74 | 4/19/2019 | 13,640 | 13,480 | 45 | Point Pleasant |
| 75 | 4/19/2019 | 13,442 | 13,282 | 45 | Point Pleasant |
| 76 | 4/19/2019 | 13,244 | 13,084 | 45 | Point Pleasant |
| 77 | 4/20/2019 | 13,046 | 12,886 | 45 | Point Pleasant |
| 78 | 4/20/2019 | 12,848 | 12,688 | 45 | Point Pleasant |
| 79 | 4/20/2019 | 12,650 | 12,490 | 45 | Point Pleasant |
| 80 | 4/21/2019 | 12,452 | 12,292 | 45 | Point Pleasant |
| 81 | 4/21/2019 | 12,254 | 12,094 | 45 | Point Pleasant |
| 82 | 4/21/2019 | 12,056 | 11,896 | 45 | Point Pleasant |

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HG Energy II Appalachia, LLC
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Stimulation Record

| Stage # | Perforation Date | Average Pump Rate (BPM) | Average Treatment Press (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Proppant (LBS) | Water (BBLs) |
|---------|------------------|-------------------------|-------------------------------|------------------------------|------------|----------------|--------------|
| 1 | 3/24/2019 | 66 | 10832 | 11960 | 7920 | 56340 | 5777 |
| 2 | 3/25/2019 | 70 | 10,576 | 12,768 | 7,985 | 337600 | 9,675 |
| 3 | 3/26/2019 | 66 | 10,065 | 10,598 | 8,519 | 424000 | 10,866 |
| 4 | 3/26/2019 | 67 | 10,365 | 11,749 | 7,984 | 447300 | 10,589 |
| 5 | 3/26/2019 | 65 | 10,115 | 10,706 | 8,024 | 463600 | 10,600 |
| 6 | 3/27/2019 | 69 | 10,549 | 10,991 | 7,650 | 444300 | 11,789 |
| 7 | 3/27/2019 | 68 | 10,460 | 11,730 | 7,820 | 441200 | 10,986 |
| 8 | 3/28/2019 | 69 | 10,541 | 11,643 | 7,980 | 403400 | 10,694 |
| 9 | 3/28/2019 | 70 | 10,556 | 11,740 | 8,474 | 502900 | 11,251 |
| 10 | 3/29/2019 | 69 | 11,058 | 11,758 | 8,380 | 505000 | 12,162 |
| 11 | 3/29/2019 | 67 | 10,824 | 11,358 | 8,520 | 502200 | 12,094 |
| 12 | 3/30/2019 | 68 | 10,731 | 11,790 | 8,335 | 394300 | 8,847 |
| 13 | 3/30/2019 | 66 | 10,888 | 11,399 | 8,392 | 494900 | 11,353 |
| 14 | 3/30/2019 | 63 | 10,458 | 11,303 | 8,087 | 502100 | 11,061 |
| 15 | 3/31/2019 | 66 | 11,029 | 11,495 | 8,430 | 497800 | 10,660 |
| 16 | 3/31/2019 | 65 | 10,945 | 11,685 | 8,490 | 502000 | 10,166 |
| 17 | 4/1/2019 | 70 | 11,104 | 12,360 | 7,640 | 372500 | 8,428 |
| 18 | 4/1/2019 | 70 | 10,778 | 11,467 | 8,345 | 548600 | 11,126 |
| 19 | 4/1/2019 | 71 | 11,004 | 11,521 | 7,860 | 543600 | 10,570 |
| 20 | 4/2/2019 | 73 | 10,606 | 11,490 | 7,439 | 539200 | 10,410 |
| 21 | 4/2/2019 | 70 | 10,824 | 11,455 | 7,750 | 544400 | 10,694 |
| 22 | 4/2/2019 | 72 | 11,028 | 12,339 | 8,262 | 550600 | 9,756 |
| 23 | 4/3/2019 | 71 | 11,161 | 12,225 | 7,819 | 550100 | 9,874 |
| 24 | 4/3/2019 | 73 | 11,094 | 11,523 | 8,412 | 551700 | 10,231 |
| 25 | 4/4/2019 | 68 | 10,603 | 11,438 | 8,034 | 548300 | 9,872 |
| 26 | 4/4/2019 | 73 | 10,894 | 11,342 | 8,340 | 549700 | 10,142 |
| 27 | 4/4/2019 | 74 | 10,727 | 11,746 | 7,746 | 548400 | 9,810 |
| 28 | 4/5/2019 | 74 | 10,327 | 10,886 | 8,049 | 548100 | 9,677 |
| 29 | 4/5/2019 | 75 | 10,637 | 11,308 | 8,436 | 553600 | 9,970 |
| 30 | 4/5/2019 | 74 | 10,535 | 11,609 | 7,846 | 548600 | 9,381 |
| 31 | 4/6/2019 | 79 | 10,734 | 11,621 | 8,312 | 548200 | 9,653 |
| 32 | 4/6/2019 | 77 | 10,902 | 11,398 | 7,913 | 549200 | 9,980 |
| 33 | 4/6/2019 | 76 | 10,818 | 11,335 | 8,304 | 551500 | 9,854 |
| 34 | 4/7/2019 | 76 | 10,901 | 11,685 | 8,121 | 522100 | 9,582 |
| 35 | 4/7/2019 | 78 | 10,859 | 11,739 | 8,413 | 548000 | 10,011 |
| 36 | 4/7/2019 | 78 | 10,660 | 11,445 | 8,044 | 556000 | 9,737 |
| 37 | 4/7/2019 | 78 | 10,811 | 11,628 | 8,246 | 556100 | 9,720 |
| 38 | 4/8/2019 | 79 | 10,664 | 11,475 | 7,527 | 548500 | 9,877 |
| 39 | 4/8/2019 | 81 | 10,483 | 11,169 | 8,322 | 548800 | 9,760 |
| 40 | 4/8/2019 | 80 | 10,308 | 11,489 | 8,145 | 574000 | 9,996 |
| 41 | 4/9/2019 | 80 | 10,300 | 11,098 | 8,302 | 522600 | 9,407 |
| 42 | 4/9/2019 | 80 | 10,324 | 11,523 | 8,274 | 522600 | 10,898 |
| 43 | 4/10/2019 | 80 | 10,376 | 11,102 | 8,244 | 541600 | 9,690 |
| 44 | 4/10/2019 | 80 | 10,302 | 11,847 | 8,025 | 528700 | 9,555 |
| 45 | 4/10/2019 | 80 | 10,322 | 11,910 | 8,152 | 529300 | 9,096 |
| 46 | 4/10/2019 | 81 | 10,203 | 11,307 | 7,923 | 544400 | 9,558 |
| 47 | 4/11/2019 | 80 | 10,197 | 11,189 | 7,182 | 545200 | 9,670 |
| 48 | 4/11/2019 | 81 | 9,923 | 11,023 | 7,700 | 524200 | 9,297 |
| 49 | 4/11/2019 | 80 | 9,930 | 10,143 | 7,968 | 515200 | 9,109 |
| 50 | 4/12/2019 | 81 | 10,145 | 11,710 | 8,247 | 549800 | 9,769 |
| 51 | 4/12/2019 | 81 | 9,780 | 10,433 | 8,015 | 522600 | 9,463 |
| 52 | 4/12/2019 | 82 | 9,884 | 10,710 | 7,728 | 526500 | 9,412 |
| 53 | 4/12/2019 | 79 | 10,092 | 10,697 | 7,316 | 554200 | 9,575 |
| 54 | 4/13/2019 | 80 | 9,863 | 11,196 | 7,777 | 538900 | 9,597 |
| 55 | 4/13/2019 | 80 | 9,922 | 11,306 | 7,722 | 522100 | 9,323 |
| 56 | 4/13/2019 | 79 | 9,901 | 10,636 | 7,367 | 520200 | 9,379 |
| 57 | 4/14/2019 | 80 | 9,875 | 10,955 | 8,084 | 526300 | 9,331 |
| 58 | 4/14/2019 | 81 | 9,964 | 10,913 | 7,643 | 529400 | 9,964 |
| 59 | 4/14/2019 | 81 | 9,882 | 10,804 | 7,747 | 523200 | 9,387 |
| 60 | 4/14/2019 | 79 | 9,935 | 10,602 | 7,782 | 521100 | 9,179 |
| 61 | 4/15/2019 | 80 | 9,903 | 10,839 | 7,889 | 522400 | 9,356 |
| 62 | 4/15/2019 | 80 | 9,838 | 10,997 | 7,701 | 526900 | 9,449 |
| 63 | 4/15/2019 | 81 | 9,896 | 13,740 | 9,103 | 524500 | 9,555 |
| 64 | 4/16/2019 | 84 | 9,920 | 10,949 | 7,749 | 522900 | 9,310 |
| 65 | 4/16/2019 | 86 | 9,731 | 11,064 | 7,541 | 526100 | 9,170 |
| 66 | 4/16/2019 | 87 | 9,939 | 10,951 | 8,016 | 522000 | 9,299 |
| 67 | 4/16/2019 | 83 | 9,974 | 10,842 | 7,853 | 545200 | 9,664 |
| 68 | 4/17/2019 | 83 | 9,786 | 11,744 | 7,423 | 522000 | 9,877 |
| 69 | 4/17/2019 | 87 | 9,683 | 12,104 | 7,862 | 524400 | 9,219 |
| 70 | 4/17/2019 | 86 | 9,498 | 10,399 | 7,838 | 523700 | 9,175 |
| 71 | 4/18/2019 | 84 | 9,413 | 10,374 | 7,717 | 547200 | 9,532 |
| 72 | 4/18/2019 | 79 | 9,505 | 10,610 | 7,535 | 525100 | 9,011 |
| 73 | 4/19/2019 | 81 | 9,681 | 11,034 | 7,880 | 485900 | 8,651 |
| 74 | 4/19/2019 | 86 | 9,354 | 10,446 | 7,381 | 528100 | 9,046 |
| 75 | 4/19/2019 | 90 | 9,540 | 10,895 | 6,817 | 523100 | 9,021 |
| 76 | 4/19/2019 | 86 | 9,552 | 10,711 | 7,355 | 541200 | 9,388 |
| 77 | 4/20/2019 | 88 | 9,557 | 10,579 | 7,254 | 506900 | 9,131 |
| 78 | 4/20/2019 | 90 | 9,481 | 11,558 | 7,348 | 524000 | 8,829 |
| 79 | 4/20/2019 | 89 | 9,616 | 10,486 | 7,549 | 522300 | 8,874 |
| 80 | 4/21/2019 | 88 | 9,532 | 10,455 | 8,037 | 547500 | 10,530 |
| 81 | 4/21/2019 | 89 | 9,026 | 10,034 | 7,891 | 522200 | 9,261 |
| 82 | 4/21/2019 | 90 | 9,087 | 10,337 | 7,004 | 525300 | 9,207 |



- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
 7. Parcel coded as 388 is also bounded by parcels coded as (from West to East): 393, 390, & 391.

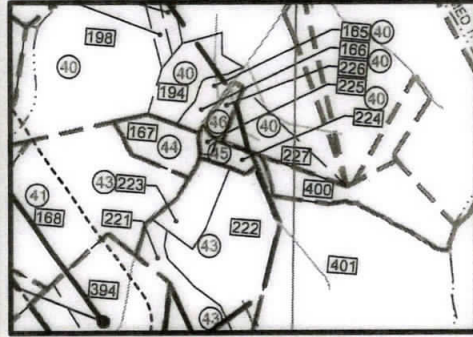
WATER WELLS:
NONE FOUND

Waterfront Corporate Park III, Suite 101
2000 Georgetown Drive
Sewickley, PA 15143

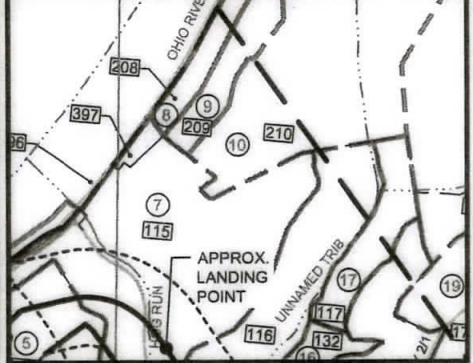
P: 724-444-1100
F: 724-444-1104
www.pve-ec.com

Civil Engineering | Land Development | Structure Design
Land Planning | Landscape Architecture | Environmental

DETAIL A = 1:2000



DETAIL B = 1:2000



LEGEND

- EXISTING WELL
- WATER SOURCE
- REFERENCE NUMBER FOR SURFACE PARCEL OWNERSHIP
- REFERENCE NUMBER FOR MINERAL OWNERSHIP
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- EXISTING HORIZONTAL WELL
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD
- UNIT BOUNDARY
- EXISTING GAS WELL

FILE #: MND 20 EU - AS DRILLED

DRAWING #: MND 20 EU - AS DRILLED

SCALE: 1"=2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT H 138: 638.58'

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED:

R.P.E.: 18766 L.L.S.: P.S. NO. _____



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1058'

COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO

SURFACE OWNER: CONSOLIDATION COAL COMPANY/ MURRAY ENERGY ACREAGE: 70.55

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 70.55

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,100' TMD: 28,221' LATERAL: 15,692'

WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD

City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101



DATE: MARCH 27, 2020

OPERATOR'S WELL #: MND 20 EU

API WELL # 47 051 02045
STATE COUNTY PERMIT

Bottom Hole is located on topo map 4,508 feet south of Latitude: 39° 50' 00"

Well is located on topo map 8,467 feet south of Latitude: 39° 52' 30"

Bottom Hole is located on topo map 1,961 feet west of Longitude: 80° 45' 00"
Well is located on topo map 3,198 feet west of Longitude: 80° 47' 30"

AS DRILLED

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83
N: 4411324.4
E: 516847.5
NAD27, WV NORTH
N: 484878.9
E: 1834113.3
LAT/LON DATUM-NAD83
LAT: 39.851774
LON: -80.803054

| LEGEND | |
|--------|----------------------|
| | TOPO MAP POINT |
| | TOPO MAP BOTTOM HOLE |

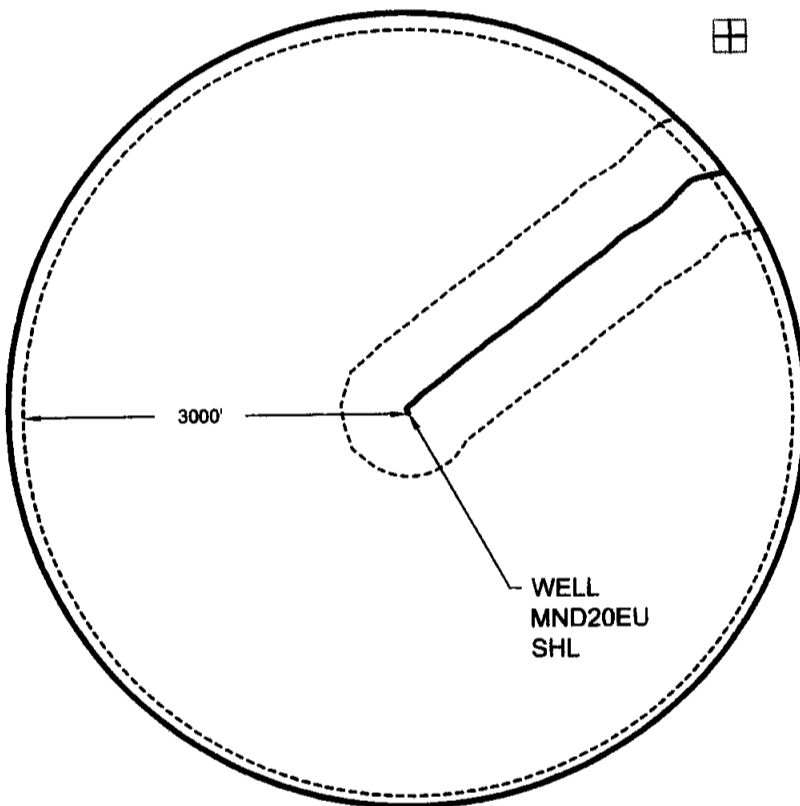
APPROX. LANDING POINT

UTM 17 - NAD83
N: 4411770.8
E: 517980.6
NAD27, WV NORTH
N: 488379.1
E: 1637855.8
LAT/LON DATUM-NAD83
LAT: 39.855772
LON: -80.788786

BOTTOM HOLE LOCATION

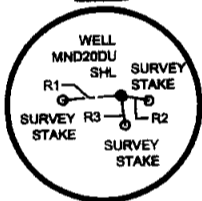
UTM 17 - NAD83
N: 4407911.9
E: 520795.6
NAD27, WV NORTH
N: 483582.2
E: 1648881.6
LAT/LON DATUM-NAD83
LAT: 39.820841
LON: -80.757010

DETAIL:
SCALE: 1"=1,500'
NO DEEP WELLS PRESENT



| LINE TABLE | | |
|------------|-------------|----------|
| LINE | BEARING | DISTANCE |
| R1 | N88°59'24"E | 301.99' |
| R2 | N78°21'30"W | 150.23' |
| R3 | N07°38'13"W | 158.51' |
| R4 | N58°20'55"W | 1789.12' |
| R5 | N47°06'45"E | 408.58' |

REFERENCE DETAIL



Waterford Corporate Park II, Suite 101
2000 Georgetown Drive
Dewsbury, PA 18848

P: 724-444-1100
F: 724-444-1104
www.pve-llc.com



Civil Engineering | Land Development | Structure Design
Land Planning | Landscape Architecture | Environmental

FILE #: MND 20 EU - AS DRILLED

DRAWING #: MND 20 EU - AS DRILLED

SCALE: 1"=2000'

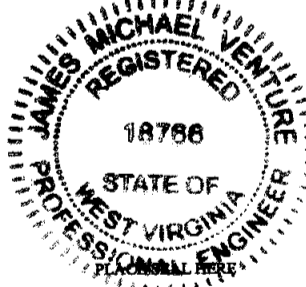
MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE U.S.G.S. MONUMENT
OF ELEVATION: H 138: 638.58'

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SIGNED:

R.P.E.: 18766 L.L.S.: P.S. NO. _____



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

OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SHORT CREEK-OHIO RIVER

COUNTY/DISTRICT: MARSHALL / FRANKLIN

SURFACE OWNER: CONSOLIDATION COAL COMPANY/ MURRAY ENERGY

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: POINT PLEASANT

WELL OPERATOR: HG ENERGY II APPALACHIA, LLC

Address: 5260 DUPONT ROAD

City PARKERSBURG State WV Zip Code 26101

DATE: MARCH 27, 2020

OPERATOR'S WELL #: MND 20 EU

API WELL # 47 051 02045
STATE COUNTY PERMIT

ELEVATION: 1058'

QUADRANGLE: POWHATAN POINT, W. VA./OHIO

ACREAGE: 70.55

ACREAGE: 70.55

ESTIMATED DEPTH: TVD: 11,100' TMD: 28,221 LATERAL: 15,692

DESIGNATED AGENT: DIANE C. WHITE

Address: 5260 DUPONT ROAD

City PARKERSBURG State WV Zip Code 26101

RAE MAC CORPORATION
 CONSOLIDATION COAL COMPANY, ET AL.
 CONSOLIDATION COAL COMPANY
 EDISON A. BARLOW ET UX.
 CONSOLIDATION COAL COMPANY, ET AL.
 CONSOLIDATION COAL COMPANY, ET AL.
 CONSOLIDATION COAL COMPANY, ET AL.
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY,
 MURRAY ENERGY C/O LAND DEPT.
 CONSOLIDATION COAL COMPANY
 CHURCH RALPH E. ET. UX.
 CHURCH RALPH E. ET. UX.
 SOUTHERN COUNTRY FARMS INC.
 DOTTY, JAMES H., & MELANIE A.
 DOTTY, JAMES H., & MELANIE A.
 SOUTHERN COUNTRY FARMS INC.
 ALLMAN KYLE MICHAEL
 WEST, WAYNE L. JR. ET. UX.
 WAYNE WEST L. JR. ET. UX.
 CNX LAND RESOURCES
 AEP GENERATION RESOURCES, INC.
 AEP GENERATION RESOURCES, INC.
 AEP GENERATION RESOURCES INC.
 TEXAS EASTERN TRANSMISSION
 FASOULETOS ANDREW M. ET. AL.
 GRAY ROBERT WILLIAM - LIFE
 CONSOLIDATION COAL COMPANY, ET AL.
 TSCHAPPAT ROBERT E. SR. ET. UX.
 TSCHAPPAT ROBERT E. SR. ET. UX.
 AEP GENERATION RESOURCES, INC.
 AEP GENERATION RESOURCES, INC.
 CONSOLIDATION COAL COMPANY, ET AL.
 HARTLEY PEGGY S.
 POTTS JAMES D. ET. UX.
 POTTS JAMES D. ET. UX.
 POTTS JAMES D. ET. UX.
 JASENEC RUDY ET. UX.
 JASENEC RUDY ET. UX.
 JASENEC RUDY ET. UX.
 BARNHART THOMAS K. ET. UX.
 CONSOLIDATION COAL COMPANY, ET AL.
 WEST WAYNE JR. ET. UX.
 TEXAS EASTERN TRANSMISSION
 HOWE RUSSELL BLAINE ET. UX. - LIFE
 AEP GENERATION RESOURCES INC.
 SOUTHERN COUNTRY FARMS INC.

TAX MAP NO. 05-0002-0018-0000-0000
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 TAX MAP NO. 05-0004-0003-0000-0000

AEP GENERATION RESOURCES INC.
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 STATE ROAD COMMISSION
 WV DEPT. OF HIGHWAYS
 MAIDENS PAUL J. & JULIE D.
 CONSOLIDATION COAL COMPANY
 STATE ROAD COMMISSION
 WV DEPT. OF HIGHWAYS
 MAIDENS PAUL J. & JULIE D.
 CNX LAND RESOURCES INC.
 CNX LAND RESOURCES INC.
 CNX LAND RESOURCES INC.
 OHIO POWER CO.
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 CONSOLIDATION COAL COMPANY
 JPM PROPERTIES LLC.
 HOLSTINE BERNARD W. & ROXANN L.
 HOLSTINE BERNARD W. & ROXANN L.
 LEGG JAMES R. EST.
 MCCLINTOCK PATRICIA A.
 ANDERSON RHONDA MARIE
 CONSOLIDATION COAL COMPANY
 WV STATE ROUTE 2 (OWNERSHIP UNKNOWN)
 STATE ROAD COMMISSION
 CNX LAND RESOURCES INC.
 CNX LAND RESOURCES INC.
 OSTRANDER LINDA S.

TAX MAP NO. 05-0004-0002-0000-0000
 TAX MAP NO. 05-0001-0007-0000-0000
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 TAX MAP NO. 04-0014-0001-0000-0000
 TAX MAP NO. 05-0004-0008-0002-0000
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 TAX MAP NO. 05-0004-0008-0001-0000

Waterford Corporate Park II, Suite 101
 2008 Georgetown Drive
 Sewabey, PA 15143

P: 724-444-1100
 F: 724-444-1104
 www.pve-llc.com



Civil Engineering | Land Development | Structure Design
 Land Planning | Landscape Architecture | Environmental

| LEGEND | |
|--------|---|
| 100 | REFERENCE NUMBER FOR SURFACE PARCEL OWNERSHIP |

FILE #: MND 20 EU - AS DRILLED

DRAWING #: MND 20 EU - AS DRILLED

SCALE: 1"=2000'

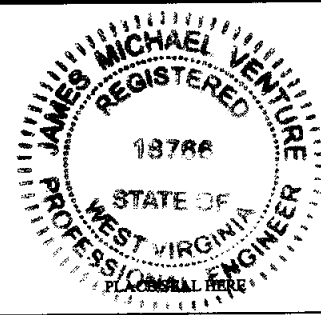
MINIMUM DEGREE
 OF ACCURACY: 1/2500

PROVEN SOURCE U.S.G.S. MONUMENT
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SIGNED: 

R.P.E.: 18766 L.L.S.: P.S. NO. _____



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 UNITED STATES TOPOGRAPHIC MAPS
 WVDEP

OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

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 SURFACE OWNER: CONSOLIDATION COAL COMPANY/
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QUADRANGLE: POWHATAN POINT, W. VA./OHIO

OIL & GAS ROYALTY OWNER: CNX GAS COMPANY

ACREAGE: 70.55

ACREAGE: 70.55

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 FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

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DESIGNATED AGENT: DIANE C. WHITE

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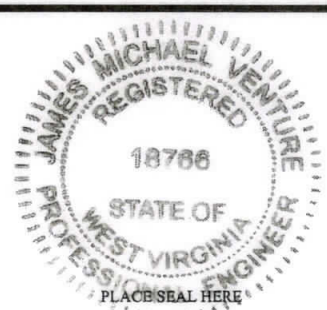
| HG Plat Number | MPID | Royalty Owner | Surface Ref Num. |
|----------------|--|---|------------------|
| ① | 05-0001-0003-0000-0000 | Belinda Eddy fka Belinda Page Hoover, a married woman dealing in her sole and separate property | 338 |
| | | Dara Marner and Douglas D. Marner, both individually and as wife and husband | |
| | | Jessica McNabb fka Jessica Faye Hoover, a married woman dealing in her sole and separate property | |
| | | Cheryl Sullivan, a single woman | |
| | | George H. Wells and Nancy Eklund Wells, both individually and as husband and wife | |
| | | William C.M. Wilson and Hiram C. Wilson, as Trustees of The Nancy L. Wilson Revocable Trust | |
| | | Wayland W. Bowser, a married man dealing in his sole and separate property | |
| | | Barbara G. Mathews, by Gay L. Mathews, Her Attorney in Fact | |
| | | HG Energy, LLC | |
| ② | 05-0001-0009-0000-0000 | Ruth Ann Ferris | 337 |
| | 05-0001-0010-0000-0000 | Larry F. Jefferson | 336 |
| | | Noble Marcellus, LP | |
| | | Anacapa Holdings, LLC | |
| | | HG Energy, LLC | |
| ③ | 05-0001-0002-0000-0000 | HG Energy, LLC | 339 |
| ④ | 05-0001-0002-0000-0000 | HG Energy, LLC | 339 |
| | 05-0001-0004-0000-0000 | | 205 |
| ⑤ | 05-0001-0001-0000-0000 | HG Energy, LLC | 206 |
| ⑥ | 05-0001-0001-0003-0000 | HG Energy, LLC | 377 |
| ⑦ | 05-0001-0001-0002-0000 | HG Energy, LLC | 395 |
| | 04-0014-0001-0000-0000 | | 397 |
| | 05-0001-0001-0002-0000 | | 115 |
| ⑧ | 04-0007-0016-0000-0000 | Niya J. Bell, widow | 208 |
| ⑨ | 04-0007-0015-0000-0000 | Niya J. Bell, widow | 209 |
| ⑩ | 04-0007-0014-0000-0000 | Paul J. Maidens, et ux | 210 |
| ⑪ | 05-0001-0006-0000-0000 | Susan Kay Flowers & Robert L. Flowers | 128 |
| | | Carol Lynn Gill | |
| | | William Gary & Nancy L. Messner | |
| | | George Michael & Pamela S. Messner | |
| | | Ethel Marie Malson | |
| | | Martha Jane Brown | |
| ⑫ | 04-0014-0003-0000-0000 | HG Energy, LLC | 116 |
| ⑬ | 05-0001-0006-0001-0000 | Susan Kay Flowers & Robert L. Flowers | 129 |
| | | Carol Lynn Gill | |
| | | William Gary & Nancy L. Messner | |
| | | George Michael & Pamela S. Messner | |
| | | Ethel Marie Malson | |
| | | Martha Jane Brown | |
| ⑭ | 04-0014-0012-0000-0000 | HG Energy, LLC | 130 |
| ⑮ | 04-0014-0013-0000-0000 | David C. White | 131 |
| ⑯ | 04-0014-0014-0000-0000 | HG Energy, LLC | 132 |
| ⑰ | 04-0014-0004-0000-0000 | Estate of Nellie Ramser Dowler, et al | 117 |
| | | Paul M. Karnell, II, et ux | |
| | | Robin Knowlton, single | |
| | | Sandra Borkowski, single | |
| | | Joyce Ann Donald, et vir | |
| | | Dick Tracey, et ux | |
| | | William H. Karnell, et ux | |
| | | Jennifer L. Duymich, et vir | |
| | | Tracy Clarke, et vir | |
| | | Lee Patterson, et ux | |
| ⑱ | 04-0014-0011-0000-0000, 04-0014-0005-0000-0000 | HG Energy, LLC | 375 |
| ⑲ | 04-0014-0006-0000-0000 | Robert E. Tschappat SR | 176 |
| ⑳ | 04-0014-0010-0000-0000 | HG Energy, LLC | 137 |
| ㉑ | 05-0002-0006-0000-0000 | Robert W. Gray, Jr., et al | 174 |
| ㉒ | 04-0014-0009-0000-0000 | Consolidation Coal Company | 138 |
| ㉓ | 05-0003A-0001-0000-0000 | James R. Chaplin | 143 |
| | 05-0002-0018-0000-0000 | | 102 |

| | | | |
|---|-------------------------|--|-----|
| ㉔ | 05-0002-0015-0000-0000 | Ralph E. Church and wife, Nancy A. Church, Ralph E. Church II, Patricia Barnhart and Peggy Sue Sebulsky, f/k/a Peggy Sue Hartley | 139 |
| ㉕ | 05-0002-0009-0000-0000 | Andrew M. Fasouletos, et ux | 173 |
| | | Michael Andrew Fasouletos | |
| | | Tena Marie Sticklin | |
| ㉖ | 05-0002-0010-0000-0000 | James D. Potts and Nancy C. Potts | 188 |
| ㉗ | 05-0002-0010-0002-0000 | Jason M. Walters and Helena E. Walters and Theresa M. Gouldsberry | 189 |
| ㉘ | 05-0002-0010-0001-0000 | Jason M. Walters and Helena E. Walters and Theresa M. Gouldsberry | 190 |
| ㉙ | 05-0002-0010-0003-0000 | Jason M. Walters and Helena E. Walters and Theresa M. Gouldsberry | 191 |
| ㉚ | 05-0002-0012-0000-0000 | AEP Generation Resources Inc. and Kentucky Power Company | 184 |
| ㉛ | 05-0002-00011-0000-0000 | Wesbanco Bank, Trustee John T. Gallaher EST | 186 |
| | | James D. Potts and Nancy C. Potts | |
| ㉜ | 05-0002-0013-0000-0000 | Texas Eastern Transmission, LP | 172 |
| ㉝ | 05-0002-0013-0002-0000 | Texas Eastern Transmission, LP | 187 |
| ㉞ | 05-0002-00013-0003-0000 | Arden Ray Heatherington | 195 |
| ㉟ | 05-0002-0013-0004-0000 | Peggy S. Hartley | 185 |
| ㊱ | 05-0002-0013-0005-0000 | AEP Generation Resources Inc. and Kentucky Power Company | 171 |
| ㊲ | 05-0004-0001-0000-0000 | AEP Generation Resources Inc. and Kentucky Power Company | 170 |
| ㊳ | 05-0004-0002-0000-0000 | AEP Generation Resources Inc. and Kentucky Power Company | 197 |
| ㊴ | 05-0004-0015-0000-0000 | AEP Generation Resources Inc. and Kentucky Power Company | 169 |
| ㊵ | 05-0004-0003-0000-0000 | Southern Country Farms, Inc. | 198 |
| | 05-0004-0003-0001-0000 | | 165 |
| | 05-0004-0003-0003-0000 | | 166 |
| | 05-0004-0003-0013-0000 | | 156 |
| | 05-0004-0003-0014-0000 | | 227 |
| | 05-0004-0034-0000-0000 | | 157 |
| | 05-0004-0025-0000-0000 | | 159 |
| | 05-0004-0044-0000-0000 | | 194 |
| ㊶ | 05-0004-0013-0000-0000 | MCCLEINTOCK DALE ET UX | 168 |
| ㊷ | 05-0004-0014-0000-0000 | MILLER CHARLES W | 388 |
| | 05-0004-0014-0001-0000 | PARSONS PAUL ET UX | 394 |
| | | RUSSELL SHARON LYN | |
| | | HUFF TIMOTHY ET UX | |
| | | ARNOLD LLOYD C ET UX | |
| | | CRONIN MARY JO | |
| | | KURPIL RICHARD ET UX | |
| | | CLIFTON CLARA MAE | |
| | | EDWARDS GEORGE ET UX | |
| | | KYLE DONNA FAE | |
| | | CONNOR JUDITH MAY | |
| | | SCHIBELHOOD PAUL ET AL | |
| | | SLOUGH ANITA L ET AL | |
| ㊸ | 05-0004-0010-0000-0000 | James D. Dimitro | 221 |
| | 05-0004-0011-0001-0000 | | 222 |
| | 05-0004-0012-0000-0000 | | 223 |
| ㊹ | 05-0004-0013-0001-0000 | WEST WAYNE L JR ET UX | 167 |
| ㊺ | 05-0004-0011-0000-0000 | Michael L. & Shar J. Mason | 225 |
| | 05-0004-0011-0002-0000 | | 224 |
| ㊻ | 05-0004-0003-0002-0000 | BLAKE LOYE ALFRED | 226 |

FILE #: MND 20 EU - AS DRILLED
DRAWING #: MND 20 EU - AS DRILLED
SCALE: 1"=2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT H 138: 638.58'

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: [Signature]
R.P.E.: 18766 L.L.S.: P.S. NO.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Gas Liquid Injection Production Storage Deep Shallow

WATERSHED: SHORT CREEK-OHIO RIVER ELEVATION: 1058'
COUNTY/DISTRICT: MARSHALL / FRANKLIN QUADRANGLE: POWHATAN POINT, W. VA./OHIO
SURFACE OWNER: CONSOLIDATION COAL COMPANY/ MURRAY ENERGY ACREAGE: 70.55
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY ACREAGE: 70.55

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)
TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,100' TMD: 28,221 LATERAL: 15,692
WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

DATE: MARCH 27, 2020
OPERATOR'S WELL #: MND 20 EU
API WELL # 47 051 02045
STATE COUNTY PERMIT