

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

API 47-95-02154 County Tyler District Lincoln
 Quad Paden City Pad Name Wells Meckley Unit Field/Pool Name Middlebourne
 Farm name Velma L. Wells Well Number # 1404 MH

Operator (as registered with the OOG) Triad Hunter, LLC
 Address 122 W. John Carpenter City Irving State Texas Zip 75039
Freeway, suite 300

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
 Top hole Northing 380247.4 Easting 1567259.1
 Landing Point of Curve Northing 381148.98 Easting 1567628.36
 Bottom Hole Northing 372703.04 Easting 1570476.24

Elevation (ft) 985' 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 Mud System

**Drilling re-work 12/14/17 - 12/22/17*
 Date permit issued 5/21/2014 Date drilling commenced 12/31/2014 Date drilling ceased 1/3/2015 PH
 Date completion activities began 3/13/18 Date completion activities ceased 4/4/18
 Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

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Freshwater depth(s) ft Surface - 300' Open mine(s) (Y/N) depths N/A
 Salt water depth(s) ft @ 1200' Void(s) encountered (Y/N) depths N/A
 Coal depth(s) ft 600' - 700' Cavern(s) encountered (Y/N) depths N/A
 Is coal being mined in area (Y/N) N

WV Department of
Environmental Protection

Reviewed by:

JCB

Reviewed

J. Magan Blasz 8/20/2018

WR-35
Rev. 8/23/13

API 47-095 - 02154 Farm name Velma L. Wells Well number # 1404 MH

| 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 | 24" | 20" | 100' | New | J-55 94# | - 0 - | yes |
| Surface | 17 1/2" | 13 3/8" | 423' | New | J-55 54.5# | - 0 - | 18 bbl. cement returns |
| Coal | | | | | | | |
| Intermediate 1 | 12 1/4" | 9 5/8" | 2,877' | New | J-55 36# | - 0 - | 50 bbl. cement returns |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8 1/2" | 5 1/2" | 15,908 | New | P-110 20# | - 0 - | 73 bbl returns |
| Tubing | | 2 7/16" | 6,872 | New | L-80 6.4# | - 0 - | |
| 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 | Class A | 180 | 15.6 | 1.18 | 212.4 | Surface | 24+ |
| Surface | HALCEM (Class A) | 380 | 15.6 | 1.19 | 452.2 | Surface | 12+ |
| Coal | | | | | | | |
| Intermediate 1 | HALCEM (Class A) | 1,040 | 15.6 | 1.19 | 1,237.6 | Surface | 24+ |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | scavenger (H)/lead (H)/tail (H) | 515/590/220 | 12.5/15/13.2 | 1.46/1.40/1.34 | 4454.1 | Surface | 24+ |
| Tubing | | | | | | | |

Drillers TD (ft) MD=15,980 TVD=6285 Loggers TD (ft) N/A No open hole logs run
 Deepest formation penetrated Marcellus shale Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) MD=4242 TVD=5747

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 _____

Surface Casing 20" - 2 centralizers
 Intermediate Casing 13 3/8" - 7 centralizers
production casing 5 1/2" 102 centralizers

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 47-095-02154 Farm name Velma L. Wells Well number # 1404MH

| PRODUCING FORMATION(S) | DEPTHS |
|------------------------|--------------------------------|
| <u>Marcellus shale</u> | <u>6109</u> TVD <u>6713</u> MD |
| | |
| | |
| | |

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3170 psi Bottom Hole 5310 psi DURATION OF TEST 90 hrs

OPEN FLOW Gas 6 mcfpd Oil 304 bpd NGL NA bpd Water 450 bpd GAS MEASURED BY 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 FORMATION DETAILS</u> |
| | | | | | |
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Please insert additional pages as applicable.

+ Helmerich & Rayne 912 North Eagle Valley Rd
Howard, PA 16641

Drilling Contractor Alpha Hunter Rig 7
Address 28407 State Route 7 City Marletta State Ohio Zip 45750

Logging Company Baker Hughes
Address 370 Westec Drive City Mt. Pleasant State PA Zip 15616

Cementing Company Halliburton Energy Services + O-Tex Pumping 2916 Old Route 422E
Address 4999 East Point Drive City Zanesville State Ohio Zip 43702

Stimulating Company Stingray Pressure Pumping
Address 42739 National Rd City Belmont State OH Zip 43718

Please insert additional pages as applicable.

Complete Rachael Parker Telephone 740-808-1319
Signature R Parker Title Sr. Engineering Technician Date 6-18-18

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

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Rev. 8/23/13

API 47- 095 - 02154 Farm name Velma L. Wells Well number # 1404 MH

PERFORATION RECORD

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

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

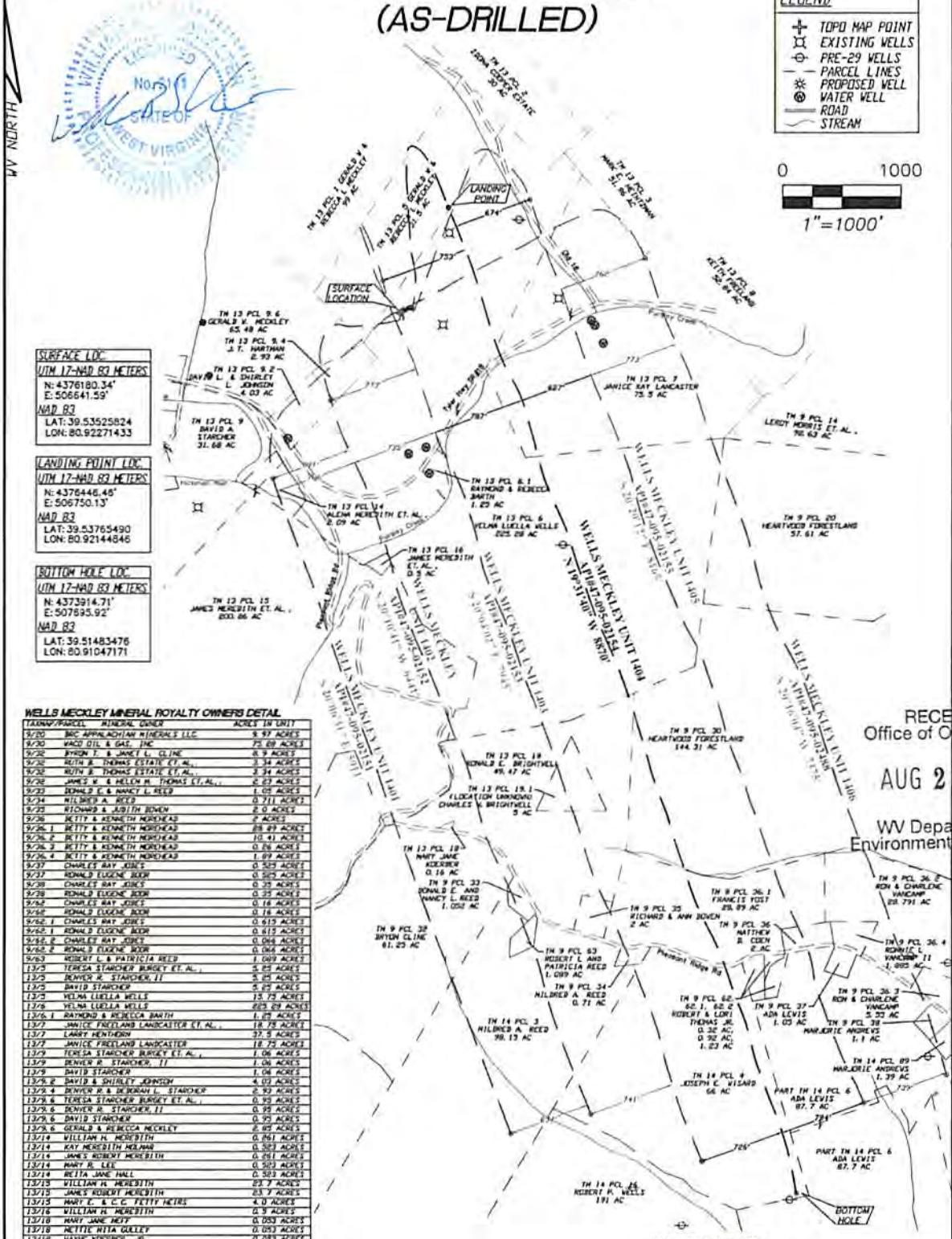
| Stage No. | Stimulations Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/other (units) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
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Please insert additional pages as applicable.

WELLS MECKLEY 1404 (AS-DRILLED)

02/15/2019



SURFACE LOC.
 UTM 17-NAD 83 METERS
 N: 4376180.34
 E: 506641.59
NAD 83
 LAT: 39.53525824
 LON: 80.92271433

LANDING POINT LOC.
 UTM 17-NAD 83 METERS
 N: 4376446.45
 E: 506750.13
NAD 83
 LAT: 39.53765490
 LON: 80.92144846

BOTTOM HOLE LOC.
 UTM 17-NAD 83 METERS
 N: 4373814.71
 E: 507895.92
NAD 83
 LAT: 39.51483476
 LON: 80.91047171

WELLS MECKLEY MINERAL ROYALTY OWNERS DETAIL

| TAXMAP/PARCEL | MINERAL OWNER | ACRES IN UNIT |
|---------------|-----------------------------------|---------------|
| 13/20 | BOC APPALACHIAN MINERALS LLC | 9.97 ACRES |
| 13/20 | WARD OIL & GAS, INC | 75.89 ACRES |
| 13/22 | BYRON T. & JANE L. CLINE | 8.9 ACRES |
| 13/22 | MITA B. THOMAS ESTATE ET AL. | 3.34 ACRES |
| 13/22 | MITA B. THOMAS ESTATE ET AL. | 3.34 ACRES |
| 13/26 | JAMES B. & HELEN B. THOMAS ET AL. | 2.23 ACRES |
| 13/22 | RONALD E. & MARY L. REED | 1.05 ACRES |
| 13/24 | MILDRED A. REED | 0.711 ACRES |
| 13/25 | RICHARD & JUDITH BOWEN | 2.0 ACRES |
| 13/26 | PETTY & KENNETH MORSHEAD | 7 ACRES |
| 13/26.1 | PETTY & KENNETH MORSHEAD | 28.89 ACRES |
| 13/26.2 | PETTY & KENNETH MORSHEAD | 10.41 ACRES |
| 13/26.3 | PETTY & KENNETH MORSHEAD | 0.26 ACRES |
| 13/26.4 | PETTY & KENNETH MORSHEAD | 1.09 ACRES |
| 13/27 | CHARLES RAY JONES | 0.583 ACRES |
| 13/27 | RONALD EUGENE BOON | 0.583 ACRES |
| 13/28 | CHARLES RAY JONES | 0.25 ACRES |
| 13/28 | RONALD EUGENE BOON | 0.25 ACRES |
| 13/28 | CHARLES RAY JONES | 0.18 ACRES |
| 13/28 | RONALD EUGENE BOON | 0.18 ACRES |
| 13/28.1 | CHARLES RAY JONES | 0.619 ACRES |
| 13/28.1 | RONALD EUGENE BOON | 0.619 ACRES |
| 13/28.2 | CHARLES RAY JONES | 0.046 ACRES |
| 13/28.2 | RONALD EUGENE BOON | 0.046 ACRES |
| 13/29 | ROBERT L. & PATRICIA REED | 1.089 ACRES |
| 13/3 | TERESA STANCHER BURGEE ET AL. | 5.85 ACRES |
| 13/3 | BONNER R. STANCHER, II | 5.25 ACRES |
| 13/3 | DAVID STANCHER | 5.25 ACRES |
| 13/3 | WELMA LUELLA WELLS | 15.75 ACRES |
| 13/3 | WELMA LUELLA WELLS | 603.89 ACRES |
| 13/36.1 | RAYMOND & REBECCA BARTH | 1.25 ACRES |
| 13/37 | JANICE FREELAND LANCASTER ET AL. | 18.78 ACRES |
| 13/37 | LARRY HENTON | 37.5 ACRES |
| 13/37 | JANICE FREELAND LANCASTER | 18.75 ACRES |
| 13/39 | TERESA STANCHER BURGEE ET AL. | 1.06 ACRES |
| 13/39 | BONNER R. STANCHER, II | 1.06 ACRES |
| 13/39 | DAVID STANCHER | 1.06 ACRES |
| 13/39.2 | DAVID & SHIRLEY JOHNSON | 4.03 ACRES |
| 13/39.4 | BONNER R. STANCHER, II | 2.52 ACRES |
| 13/39.4 | TERESA STANCHER BURGEE ET AL. | 0.95 ACRES |
| 13/39.6 | BONNER R. STANCHER, II | 0.95 ACRES |
| 13/39.6 | DAVID STANCHER | 0.95 ACRES |
| 13/39.8 | GERALD & BECKA MECKLEY | 2.45 ACRES |
| 13/39.8 | WILLIAM H. MERESEITH | 0.951 ACRES |
| 13/39.8 | KAY MERESEITH MELMAN | 0.503 ACRES |
| 13/39.8 | JAMES ROBERT MERESEITH | 0.261 ACRES |
| 13/39.8 | MARY R. LEE | 0.503 ACRES |
| 13/39.8 | BETTA JANE HALL | 0.503 ACRES |
| 13/39.8 | WILLIAM H. MERESEITH | 23.7 ACRES |
| 13/39.8 | JAMES ROBERT MERESEITH | 23.7 ACRES |
| 13/39.8 | MARY E. & C.C. PETTY HEIRS | 4.0 ACRES |
| 13/39.8 | WILLIAM H. MERESEITH | 0.9 ACRES |
| 13/39.8 | MARY JANE HEFF | 0.053 ACRES |
| 13/39.8 | METTIE WILIA GALLEY | 0.053 ACRES |
| 13/39.8 | WAYNE KREIBER, JR. | 0.053 ACRES |
| 13/39.8 | RONALD E. BRIGHTWELL | 48.49 ACRES |
| 13/39.8 | CHARLES W. BRIGHTWELL | 5.0 ACRES |
| 13/39.8 | MILDRED A. REED | 46.4 ACRES |

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SURVEY NOTES:

1. THIS IS A VOLUNTARILY POOLED UNIT
2. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF PROPOSED WELL.
3. THERE ARE NO EXISTING BUILDINGS WITHIN 600' OF PROPOSED WELL.
4. PROPOSED WELL IS GREATER THAN 100' FROM PERENNIAL STREAM, WETLAND, POND, RESERVOIR, OR LAKE.
5. THERE ARE NO NATIVE FISH STREAMS WITHIN 300' OF PROPOSED WELL.
6. PROPOSED WELL IS GREATER THAN 1000' FROM SURFACE/GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY.
7. IT IS NOT THE INTENTION OF THIS PLAN TO REPRESENT SURVEYED LOCATIONS OF THE SURFACE OR MINERAL PARCELS DEPICTED HEREON. THE LOCATION OF THE BOUNDARY LINES, AS SHOWN, ARE BASED ON RECORD DEED DESCRIPTIONS, FIELD EVIDENCE FOUND, AND/OR TAX MAP POSITION, UNLESS OTHERWISE NOTED.



Architects • Engineers • Surveyors
 11283 EMERSON AVENUE, PARKERSBURG, WV 26104
 (304) 464-5305 PICKERING USA.COM

API WELL#: 47-095-02154
 STATE COUNTY PERMIT
 OPERATOR'S WELL#: **WELLS MECKLEY 1404**

WELL OPERATOR TRIAD HUNTER, LLC (SUBSIDIARY OF BLUE RIDGE MOUNTAIN RESOURCES) ADDRESS 125 PUTNAM ST. MARIETTA OH 45750
 DESIGNATED AGENT KIMBERLY ARNOLD ADDRESS PO BOX 154 WAVERLY WV 26184 DATE: 3/14/2018

Hydraulic Fracturing Fluid Product Component Information Disclosure

| | |
|--------------------------------|--------------------|
| Job Start Date: | 3/13/2018 |
| Job End Date: | 4/4/2018 |
| State: | West Virginia |
| County: | Tyler |
| API Number: | 47-095-02154-00-00 |
| Operator Name: | Triad Hunter LLC. |
| Well Name and Number: | Meckley 1404 |
| Latitude: | 39.53765490 |
| Longitude: | -80.92144846 |
| Datum: | NAD83 |
| Federal Well: | NO |
| Indian Well: | NO |
| True Vertical Depth: | 6,284 |
| Total Base Water Volume (gal): | 14,644,350 |
| 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 | Blue Ridge Mountain Resources | Carrier/Base Fluid | Water | 7732-18-5 | 100.00000 | 88.82368 | None |
| Sand (40/70 Proppant) | Muskie Proppant | Proppant | Silica Substrate | 14808-60-7 | 100.00000 | 9.46042 | None |
| Sand (100 Mesh Proppant) | Muskie Proppant | Proppant | Silica Substrate | 14808-60-7 | 100.00000 | 1.15327 | None |
| Hydrochloric Acid (28%) | Dover | Acidizing | Water | 7732-18-5 | 64.00000 | 0.27292 | None |
| | | | Hydrochloric Acid (Hydrogen Chloride) | 7732-18-5 | 36.00000 | 0.15352 | None |
| Plexslick 957 | Chemplex SOLVAY | Friction Reducer | Water | 7732-18-5 | 75.00000 | 0.04704 | None |
| | | | Petroleum Distillate | 64742-47-8 | 20.00000 | 0.01254 | None |
| | | | Ammonium Chloride ((NH4)Cl) | 12125-02-9 | 2.00000 | 0.00125 | None |
| | | | Alcohols, C14-15, ethoxylated | 68551-12-2 | 1.50000 | 0.00094 | None |
| | | | Oleic Acid Diethanolamide | 93-83-4 | 1.50000 | 0.00094 | None |

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|--|--------------------------------|----------------------------------|---|-------------|-----------|---------|------|
| Plexgel 907 | Chemplex SOLVAY | Gelling Agent, Water Viscofier | | | | | |
| | | | Guar gum | 9000-30-0 | 50.00000 | 0.01213 | None |
| | | | Petroleum distillate | 64742-47-8 | 50.00000 | 0.01213 | None |
| | | | Organophilic clay | Proprietary | 2.00000 | 0.00049 | None |
| | | | Alcohol ethoxylate | 34398-01-1 | 1.00000 | 0.00024 | None |
| | | | Crystalline silica | 14808-60-7 | 0.10000 | 0.00001 | None |
| SI-20W | Moon Chemical Products | Scale Inhibitor | | | | | |
| | | | Water | 7732-18-5 | 56.00000 | 0.01351 | None |
| | | | Phosphinocarboxylic acid | 110224-99-2 | 44.00000 | 0.01061 | None |
| K-BAC 1005 | Water Science Technologie, LLC | Biocide | | | | | |
| | | | Polyethylene glycol | 25322-68-3 | 50.00000 | 0.00742 | None |
| | | | Water | 7732-18-5 | 44.30000 | 0.00657 | None |
| | | | 2, 2-Dibromo-3-nitrilopropionamide | 10222-01-2 | 5.80000 | 0.00085 | None |
| Breaker | Chemplex SOLVAY | Gel Breaker | | | | | |
| | | | Sodium Persulfate | 7775-27-1 | 100.00000 | 0.00776 | None |
| NEFE-180 | Chemplex | Corrosion Inhibitor/Iron Control | | | | | |
| | | | Acetic acid | 64-19-7 | 89.00000 | 0.00177 | None |
| | | | Methanol | 67-56-1 | 40.00000 | 0.00080 | None |
| | | | 2-Ethylhexanol | 104-76-7 | 10.00000 | 0.00020 | None |
| | | | Fatty acids, tall oil | 61790-12-3 | 5.00000 | 0.00010 | None |
| | | | 2-Propyn-1-ol | 107-19-7 | 5.00000 | 0.00010 | None |
| | | | Alcohols, C14-15, ethoxylated | 68951-67-7 | 5.00000 | 0.00010 | None |
| | | | Coconut oil acid diethanolamine | 68603-42-9 | 5.00000 | 0.00010 | None |
| Hostastim TCA6038 | X-Chem | Corrosion Inhibitor/Iron Control | | | | | |
| | | | Methanol | 67-56-1 | 70.00000 | 0.00037 | None |
| | | | Pyridinium, 1-(phenylmethyl)-, ethyl methy derivatives, chlorides | 68909-18-2 | 30.00000 | 0.00016 | None |
| | | | 2-Ethylhexanol | 104-76-7 | 10.00000 | 0.00005 | None |
| | | | 4-Nonylphenol, branched, ethoxylated | 127087-87-0 | 10.00000 | 0.00005 | 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 | 0.27292 | |
| | | | Water | 7732-18-5 | 75.00000 | 0.04704 | |
| | | | Guar gum | 9000-30-0 | 50.00000 | 0.01213 | |
| | | | Phosphinocarboxylic acid | 110224-99-2 | 44.00000 | 0.01061 | |
| | | | Polyethylene glycol | 25322-68-3 | 50.00000 | 0.00742 | |
| | | | Water | 7732-18-5 | 44.30000 | 0.00657 | |
| | | | Ammonium Chloride ((NH4)Cl) | 12125-02-9 | 2.00000 | 0.00125 | |
| | | | Oleic Acid Diethanolamide | 93-83-4 | 1.50000 | 0.00094 | |
| | | | Alcohols, C14-15, ethoxylated | 68551-12-2 | 1.50000 | 0.00094 | |

| | | | | | | |
|--|--|--|--|-------------|----------|---------|
| | | | Methanol | 87-56-1 | 40.00000 | 0.00080 |
| | | | Organophilic clay | Proprietary | 2.00000 | 0.00049 |
| | | | Alcohol ethoxylate | 34398-01-1 | 1.00000 | 0.00024 |
| | | | 2-Ethylhexanol | 104-76-7 | 10.00000 | 0.00020 |
| | | | Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivatives, chlorides | 68909-18-2 | 30.00000 | 0.00016 |
| | | | Alcohols, C14-15, ethoxylated | 68951-67-7 | 5.00000 | 0.00010 |
| | | | Fatty acids, tall oil | 61790-12-3 | 5.00000 | 0.00010 |
| | | | Coconut oil acid diethanolamine | 68603-42-9 | 5.00000 | 0.00010 |
| | | | 2-Propyn-1-ol | 107-19-7 | 5.00000 | 0.00010 |
| | | | 4-Nonylphenol, branched, ethoxylated | 127087-87-0 | 10.00000 | 0.00009 |
| | | | 2-Ethylhexanol | 104-76-7 | 10.00000 | 0.00009 |
| | | | Crystalline silica | 14808-60-7 | 0.10000 | 0.00001 |

* 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)

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Wells Meckley 1404 Formation Tops

| Formation | TVD= MD | Rock Type/ record QTY/Type of Fluid (Fresh water, brine, oil, gas, H2S, Ect) |
|----------------------|---------|--|
| Water zone | 980 | water |
| Salt Sand | 1,563 | Sandstone |
| Maxton Sand | 1,687 | Sandstone |
| Greenbrier Limestone | 1,773 | Limestone |
| Keener Sand | 1,811 | Sandstone |
| Big Injun | 1,822 | Sandstone |
| Squaw Sand | 2,020 | Sandstone |
| Weir Sand | 2,228 | Sandstone |
| Berea Sandstone | 2,398 | Sandstone |
| Gordon Stray Sand | 2,729 | Sandstone |
| Gordon | 2,752 | Sandstone |
| Fifth Sand | 2,840 | Sandstone |
| Warren | 3,375 | Sandstone |
| Benson | 4,845 | Sandstone |
| Tully LS | 6,147 | Limestone |
| Marcellus Shale | 6,169 | Shale / gas |
| TARGET | 6,194 | Shale / gas |
| Onondaga LS | 6,223 | Limestone |

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Well: 1404
 Crew: White Fleet
 Location: WV / Tyler
 Formation: Marcellus

02/15/2019

Treatment Summary

| Stage Number | Start Date | Total Clean Vol (bb) | Avg Psi (psi) | Max Psi (psi) | Avg Rate (bpm) | Max Rate (bpm) | 100 Mesh (lbs) | 40/70 White (lbs) | Proppant Type 3 (lbs) | Proppant Type 4 (lbs) | Acid Volume (gal) | Breakdown (psi) | ISIP (psi) |
|--------------|------------|----------------------|---------------|---------------|----------------|----------------|----------------|-------------------|-----------------------|-----------------------|-------------------|-----------------|------------|
| 1 | 3/13/2018 | 7,389 | 7,866 | 8,511 | 86.2 | 89.2 | 30,300 | 285,300 | | | 2,243 | n/a | 3,683 |
| 2 | 3/13/2018 | 7,064 | 7,700 | 7,953 | 85.2 | 85.7 | 33,000 | 281,980 | | | 2,310 | 5,475 | 3,625 |
| 3 | 3/13/2018 | 7,171 | 8,133 | 9,111 | 80.3 | 85.8 | 29,680 | 285,420 | | | 2,440 | 5,825 | 3,734 |
| 4 | 3/14/2018 | 2,470 | 8,111 | 9,419 | 51.0 | 67.7 | 10,000 | | | | 12,104 | 5,327 | 4,315 |
| 5 | 3/15/2018 | 7,404 | 8,331 | 8,959 | 60.7 | 87.9 | 28,300 | 242,260 | | | 4,406 | 8,404 | 3,847 |
| 6 | 3/16/2018 | 6,531 | 8,462 | 8,881 | 85.9 | 90.6 | 30,260 | 240,740 | | | 2,121 | 5,652 | 4,183 |
| 7 | 3/16/2018 | 6,724 | 8,032 | 8,387 | 77.0 | 81 | 32,520 | 237,780 | | | 2,239 | 5,032 | 4,100 |
| 8 | 3/16/2018 | 6,743 | 8,306 | 8,815 | 86.6 | 91.1 | 29,120 | 241,180 | | | 2,335 | 5,428 | 3,972 |
| 9 | 3/17/2018 | 6,527 | 7,979 | 8,818 | 83.2 | 85.9 | 32,000 | 238,660 | | | 2,075 | 5,475 | 4,299 |
| 10 | 3/23/2018 | 6,433 | 7,784 | 8,775 | 82.9 | 85.8 | 33,640 | 227,680 | | | 2,159 | 5,534 | 4,133 |
| 11 | 3/23/2018 | 6,977 | 7,738 | 8,400 | 85.0 | 85.9 | 26,660 | 227,760 | | | 2,148 | 7,248 | 3,843 |
| 12 | 3/23/2018 | 5,790 | 7,898 | 8,464 | 85.4 | 86.2 | 27,820 | 222,600 | | | 2,083 | 7,550 | 3,847 |
| 13 | 3/23/2018 | 5,881 | 7,855 | 8,419 | 82.8 | 86.3 | 27,780 | 217,600 | | | 2,524 | 6,648 | 3,952 |
| 14 | 3/23/2018 | 7,202 | 8,003 | 8,419 | 83.7 | 86 | 33,080 | 282,040 | | | 2,239 | 5,746 | 3,824 |
| 15 | 3/23/2018 | 7,010 | 8,032 | 8,572 | 85.3 | 86.4 | 29,100 | 285,980 | | | 2,062 | 5,478 | 3,895 |
| 16 | 3/24/2018 | 6,983 | 8,088 | 8,528 | 85.7 | 87.6 | 28,300 | 287,600 | | | 2,142 | 5,551 | 3,818 |
| 17 | 3/24/2018 | 7,129 | 8,019 | 8,499 | 83.4 | 87.5 | 31,380 | 284,140 | | | 2,003 | 5,737 | 4,012 |
| 18 | 3/25/2018 | 7,250 | 7,868 | 8,899 | 83.1 | 85.4 | 30,560 | 284,900 | | | 2,419 | 6,023 | 4,000 |
| 19 | 3/25/2018 | 7,055 | 7,720 | 8,643 | 83.1 | 85.7 | 30,720 | 287,000 | | | 2,474 | 5,379 | 4,052 |
| 20 | 3/25/2018 | 6,501 | 7,701 | 8,595 | 84.7 | 89.5 | 33,100 | 226,820 | | | 2,587 | 5,456 | 4,355 |
| 21 | 3/25/2018 | 6,924 | 7,953 | 8,613 | 84.4 | 90.7 | 32,780 | 281,980 | | | 2,134 | 5,435 | 3,965 |
| 22 | 3/26/2018 | 6,945 | 7,967 | 8,410 | 84.7 | 88.6 | 30,360 | 284,140 | | | 2,121 | 5,344 | 4,011 |
| 23 | 3/26/2018 | 7,109 | 7,770 | 8,396 | 88.0 | 91.3 | 29,840 | 285,860 | | | 2,176 | 5,673 | 3,843 |
| 24 | 3/26/2018 | 6,944 | 7,536 | 8,665 | 85.4 | 87.5 | 32,720 | 283,040 | | | 2,138 | 5,623 | 4,019 |
| 25 | 3/26/2018 | 7,032 | 7,804 | 8,663 | 83.7 | 85.7 | 31,260 | 282,800 | | | 2,314 | 5,508 | 4,407 |
| 26 | 3/27/2018 | 7,011 | 8,053 | 9,020 | 81.7 | 86.1 | 32,280 | 278,640 | | | 2,327 | 5,405 | 4,182 |
| 27 | 3/27/2018 | 7,037 | 7,415 | 8,466 | 85.1 | 86.7 | 32,600 | 282,480 | | | 2,096 | 5,440 | 4,129 |
| 28 | 3/27/2018 | 7,318 | 7,295 | 8,158 | 84.2 | 85.4 | 32,200 | 283,400 | | | 2,751 | 5,444 | 3,980 |
| 29 | 3/27/2018 | 7,094 | 7,544 | 8,819 | 83.8 | 85.6 | 33,000 | 289,640 | | | 2,289 | 5,418 | 4,051 |
| 30 | 3/28/2018 | 6,711 | 7,472 | 7,702 | 85.3 | 85.6 | 37,520 | 277,860 | | | 2,197 | 5,407 | 4,196 |
| 31 | 3/28/2018 | 7,094 | 7,530 | 8,919 | 83.7 | 85.6 | 31,740 | 283,340 | | | 1,982 | 5,743 | 3,953 |
| 32 | 3/28/2018 | 7,208 | 7,808 | 8,967 | 84.6 | 88 | 31,740 | 287,500 | | | 2,176 | 5,743 | 3,866 |
| 33 | 3/28/2018 | 7,094 | 7,328 | 8,397 | 84.4 | 85.1 | 32,300 | 284,240 | | | 2,386 | 5,577 | 3,855 |
| 34 | 3/29/2018 | 8,056 | 7,614 | 9,047 | 80.9 | 84.3 | 30,380 | 284,960 | | | 2,503 | 5,894 | 3,813 |
| 35 | 3/29/2018 | 6,989 | 7,314 | 8,279 | 84.6 | 85.8 | 37,840 | 280,400 | | | 2,108 | 5,879 | 3,987 |
| 36 | 3/29/2018 | 6,764 | 7,179 | 8,612 | 84.2 | 86.8 | 30,100 | 285,760 | | | 2,234 | 5,310 | 3,990 |
| 37 | 3/30/2018 | 6,809 | 7,418 | 9,038 | 82.3 | 86.2 | 30,920 | 291,740 | | | 2,226 | 5,427 | 3,986 |
| 38 | 3/30/2018 | 8,756 | 7,222 | 9,916 | 76.4 | 85.3 | 32,940 | 238,640 | | | 3,377 | 6,487 | 4,652 |
| 39 | 3/30/2018 | 6,746 | 7,068 | 8,206 | 85.9 | 87 | 29,020 | 284,620 | | | 2,247 | 5,140 | 3,865 |
| 40 | 3/31/2018 | 5,744 | 8,625 | 9,667 | 33.2 | 76.8 | 30,660 | 15,230 | | | 12,823 | 5,410 | 4,638 |
| 41 | 3/31/2018 | 7,350 | 7,350 | 9,337 | 83.5 | 86.4 | 31,040 | 284,240 | | | 2,222 | 5,575 | 3,840 |
| 42 | 4/1/2018 | 5,115 | 8,594 | 9,751 | 67.3 | 82.2 | 34,340 | 19,042 | | | 4,473 | 5,857 | 4,511 |
| 43 | 4/1/2018 | 7,137 | 7,084 | 8,254 | 86.8 | 87.9 | 32,360 | 283,140 | | | 2,541 | 5,876 | 3,784 |
| 44 | 4/1/2018 | 7,226 | 7,158 | 8,397 | 88.0 | 89.9 | 30,920 | 280,900 | | | 2,247 | 4,668 | 3,755 |
| 45 | 4/2/2018 | 7,118 | 7,435 | 8,540 | 86.8 | 87.5 | 32,540 | 282,540 | | | 2,066 | 5,886 | 3,777 |
| 46 | 4/2/2018 | 7,068 | 7,641 | 9,050 | 85.1 | 88.2 | 29,760 | 290,080 | | | 2,230 | 5,938 | 3,765 |
| 47 | 4/3/2018 | 6,037 | 7,427 | 8,840 | 81.0 | 85.1 | 30,380 | 195,000 | | | 2,234 | 5,406 | 4,535 |
| 48 | 4/3/2018 | 6,935 | 7,543 | 9,073 | 84.7 | 85.9 | 30,120 | 285,740 | | | 2,155 | 5,591 | 4,228 |
| 49 | 4/4/2018 | 7,235 | 7,330 | 8,534 | 85.4 | 86 | 29,300 | 285,860 | | | 2,218 | 5,667 | 3,748 |
| 50 | 4/4/2018 | 6,725 | 7,234 | 8,058 | 90.0 | 91 | 39,620 | 274,640 | | | 2,293 | 5,313 | 3,884 |
| 51 | 4/4/2018 | 7,102 | 7,542 | 8,329 | 89.0 | 90.4 | 30,660 | 279,920 | | | 2,197 | 5,255 | 4,483 |
| Totals | | 348,675 | 7,722 | 8,709 | 81.9 | 86.31 | 1,566,720 | 13,016,012 | | | 140,592 | 285,305 | 4,027 |

| Stage No. | Perforation Date | Top Depth (ft MD) | Bottom Depth (ft MD) | Number of Perfs |
|-----------|------------------|-------------------|----------------------|-----------------|
| Stg 51 | 4/4/2018 8:30 | 7038 | 7040 | 7 |
| Stg 51 | 4/4/2018 8:30 | 7073 | 7075 | 7 |
| Stg 51 | 4/4/2018 8:30 | 7108 | 7110 | 7 |
| Stg 51 | 4/4/2018 8:30 | 7143 | 7145 | 7 |
| Stg 51 | 4/4/2018 8:30 | 7178 | 7180 | 7 |
| Stg 50 | 4/4/2018 1:45 | 7213 | 7215 | 7 |
| Stg 50 | 4/4/2018 1:45 | 7248 | 7250 | 7 |
| Stg 50 | 4/4/2018 1:45 | 7283 | 7285 | 7 |
| Stg 50 | 4/4/2018 1:45 | 7318 | 7320 | 7 |
| Stg 50 | 4/4/2018 1:45 | 7353 | 7355 | 7 |
| Stg 49 | 4/3/2018 11:00 | 7388 | 7390 | 7 |
| Stg 49 | 4/3/2018 11:00 | 7423 | 7425 | 7 |
| Stg 49 | 4/3/2018 11:00 | 7458 | 7460 | 7 |
| Stg 49 | 4/3/2018 11:00 | 7493 | 7495 | 7 |
| Stg 49 | 4/3/2018 11:00 | 7528 | 7530 | 7 |
| Stg 48 | 4/3/2018 4:00 | 7563 | 7565 | 7 |
| Stg 48 | 4/3/2018 4:00 | 7598 | 7600 | 7 |
| Stg 48 | 4/3/2018 4:00 | 7633 | 7635 | 7 |
| Stg 48 | 4/3/2018 4:00 | 7668 | 7670 | 7 |
| Stg 48 | 4/3/2018 4:00 | 7703 | 7705 | 7 |
| Stg 47 | 4/2/2018 20:00 | 7738 | 7740 | 7 |
| Stg 47 | 4/2/2018 20:00 | 7773 | 7775 | 7 |
| Stg 47 | 4/2/2018 20:00 | 7808 | 7810 | 7 |
| Stg 47 | 4/2/2018 20:00 | 7843 | 7845 | 7 |
| Stg 47 | 4/2/2018 20:00 | 7878 | 7880 | 7 |
| Stg 46 | 4/2/2018 9:00 | 7913 | 7915 | 7 |
| Stg 46 | 4/2/2018 9:00 | 7948 | 7950 | 7 |
| Stg 46 | 4/2/2018 9:00 | 7983 | 7985 | 7 |
| Stg 46 | 4/2/2018 9:00 | 8018 | 8020 | 7 |
| Stg 46 | 4/2/2018 9:00 | 8053 | 8055 | 7 |
| Stg 45 | 4/2/2018 1:00 | 8088 | 8090 | 7 |
| Stg 45 | 4/2/2018 1:00 | 8123 | 8125 | 7 |
| Stg 45 | 4/2/2018 1:00 | 8158 | 8160 | 7 |
| Stg 45 | 4/2/2018 1:00 | 8193 | 8195 | 7 |
| Stg 45 | 4/2/2018 1:00 | 8228 | 8230 | 7 |
| Stg 44 | 4/1/2018 17:30 | 8263 | 8265 | 7 |
| Stg 44 | 4/1/2018 17:30 | 8298 | 8300 | 7 |
| Stg 44 | 4/1/2018 17:30 | 8333 | 8335 | 7 |
| Stg 44 | 4/1/2018 17:30 | 8368 | 8370 | 7 |
| Stg 44 | 4/1/2018 17:30 | 8403 | 8405 | 7 |
| Stg 43 | 4/1/2018 9:00 | 8438 | 8440 | 7 |
| Stg 43 | 4/1/2018 9:00 | 8473 | 8475 | 7 |
| Stg 43 | 4/1/2018 9:00 | 8508 | 8510 | 7 |
| Stg 43 | 4/1/2018 9:00 | 8543 | 8545 | 7 |
| Stg 43 | 4/1/2018 9:00 | 8578 | 8580 | 7 |
| Stg 42 | 4/1/2018 1:00 | 8613 | 8615 | 7 |

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|--------|-----------------|-------|-------|---|
| Stg 42 | 4/1/2018 1:00 | 8648 | 8650 | 7 |
| Stg 42 | 4/1/2018 1:00 | 8683 | 8685 | 7 |
| Stg 42 | 4/1/2018 1:00 | 8718 | 8720 | 7 |
| Stg 42 | 4/1/2018 1:00 | 8753 | 8755 | 7 |
| Stg 41 | 3/31/2018 16:00 | 8788 | 8790 | 7 |
| Stg 41 | 3/31/2018 16:00 | 8823 | 8825 | 7 |
| Stg 41 | 3/31/2018 16:00 | 8858 | 8860 | 7 |
| Stg 41 | 3/31/2018 16:00 | 8893 | 8895 | 7 |
| Stg 41 | 3/31/2018 16:00 | 8928 | 8930 | 7 |
| Stg 40 | 3/30/2018 22:00 | 8963 | 8965 | 7 |
| Stg 40 | 3/31/2018 8:00 | 8984 | 8986 | 7 |
| Stg 40 | 3/30/2018 22:00 | 8984 | 8986 | 7 |
| Stg 40 | 3/30/2018 22:00 | 8998 | 9000 | 7 |
| Stg 40 | 3/30/2018 22:00 | 9023 | 9025 | 7 |
| Stg 40 | 3/31/2018 8:00 | 9023 | 9025 | 7 |
| Stg 40 | 3/30/2018 22:00 | 9033 | 9035 | 7 |
| Stg 40 | 3/30/2018 22:00 | 9068 | 9070 | 7 |
| Stg 40 | 3/30/2018 22:00 | 9103 | 9105 | 7 |
| Stg 39 | 3/30/2018 11:00 | 9138 | 9142 | 7 |
| Stg 39 | 3/30/2018 11:00 | 9173 | 9177 | 7 |
| Stg 39 | 3/30/2018 11:00 | 9208 | 9212 | 7 |
| Stg 39 | 3/30/2018 11:00 | 9243 | 9247 | 7 |
| Stg 39 | 3/30/2018 11:00 | 9278 | 9282 | 7 |
| Stg 38 | 3/30/2018 3:30 | 9315 | 9317 | 7 |
| Stg 38 | 3/30/2018 3:30 | 9350 | 9352 | 7 |
| Stg 38 | 3/30/2018 3:30 | 9385 | 9387 | 7 |
| Stg 38 | 3/30/2018 3:30 | 9420 | 9422 | 7 |
| Stg 38 | 3/30/2018 3:30 | 9455 | 9457 | 7 |
| Stg 37 | 3/29/2018 22:30 | 9488 | 9490 | 7 |
| Stg 37 | 3/29/2018 22:30 | 9523 | 9525 | 7 |
| Stg 37 | 3/29/2018 22:30 | 9558 | 9560 | 7 |
| Stg 37 | 3/29/2018 22:30 | 9593 | 9595 | 7 |
| Stg 37 | 3/29/2018 22:30 | 9628 | 9630 | 7 |
| Stg 36 | 3/29/2018 15:50 | 9663 | 9665 | 7 |
| Stg 36 | 3/29/2018 15:50 | 9698 | 9700 | 7 |
| Stg 36 | 3/29/2018 15:50 | 9733 | 9735 | 7 |
| Stg 36 | 3/29/2018 15:50 | 9768 | 9770 | 7 |
| Stg 36 | 3/29/2018 15:50 | 9803 | 9805 | 7 |
| Stg 35 | 3/29/2018 9:30 | 9838 | 9840 | 7 |
| Stg 35 | 3/29/2018 9:30 | 9873 | 9875 | 7 |
| Stg 35 | 3/29/2018 9:30 | 9908 | 9910 | 7 |
| Stg 35 | 3/29/2018 9:30 | 9943 | 9945 | 7 |
| Stg 35 | 3/29/2018 9:30 | 9978 | 9980 | 7 |
| Stg 34 | 3/28/2018 23:00 | 10013 | 10015 | 7 |
| Stg 34 | 3/28/2018 23:00 | 10048 | 10050 | 7 |
| Stg 34 | 3/28/2018 23:00 | 10083 | 10085 | 7 |
| Stg 34 | 3/28/2018 23:00 | 10118 | 10120 | 7 |

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|--------|-----------------|-------|-------|---|
| Stg 34 | 3/28/2018 23:00 | 10153 | 10155 | 7 |
| Stg 33 | 3/28/2018 17:30 | 10188 | 10190 | 7 |
| Stg 33 | 3/28/2018 17:30 | 10223 | 10225 | 7 |
| Stg 33 | 3/28/2018 17:30 | 10258 | 10260 | 7 |
| Stg 33 | 3/28/2018 17:30 | 10293 | 10295 | 7 |
| Stg 33 | 3/28/2018 17:30 | 10328 | 10330 | 7 |
| Stg 32 | 3/28/2018 13:00 | 10363 | 10365 | 7 |
| Stg 32 | 3/28/2018 13:00 | 10398 | 10400 | 7 |
| Stg 32 | 3/28/2018 13:00 | 10433 | 10435 | 7 |
| Stg 32 | 3/28/2018 13:00 | 10468 | 10470 | 7 |
| Stg 32 | 3/28/2018 13:00 | 10503 | 10505 | 7 |
| Stg 31 | 3/28/2018 3:30 | 10538 | 10540 | 7 |
| Stg 31 | 3/28/2018 3:30 | 10573 | 10575 | 7 |
| Stg 31 | 3/28/2018 3:30 | 10608 | 10610 | 7 |
| Stg 31 | 3/28/2018 3:30 | 10643 | 10645 | 7 |
| Stg 31 | 3/28/2018 3:30 | 10678 | 10680 | 7 |
| Stg 30 | 3/27/2018 21:30 | 10713 | 10715 | 7 |
| Stg 30 | 3/27/2018 21:30 | 10748 | 10750 | 7 |
| Stg 30 | 3/27/2018 21:30 | 10783 | 10785 | 7 |
| Stg 30 | 3/27/2018 21:30 | 10818 | 10820 | 7 |
| Stg 30 | 3/27/2018 21:30 | 10853 | 10855 | 7 |
| Stg 29 | 3/27/2018 15:30 | 10888 | 10890 | 7 |
| Stg 29 | 3/27/2018 15:30 | 10923 | 10925 | 7 |
| Stg 29 | 3/27/2018 15:30 | 10958 | 10960 | 7 |
| Stg 29 | 3/27/2018 15:30 | 10993 | 10995 | 7 |
| Stg 29 | 3/27/2018 15:30 | 11028 | 11030 | 7 |
| Stg 28 | 3/27/2018 10:15 | 11063 | 11065 | 7 |
| Stg 28 | 3/27/2018 10:15 | 11098 | 11100 | 7 |
| Stg 28 | 3/27/2018 10:15 | 11133 | 11135 | 7 |
| Stg 28 | 3/27/2018 10:15 | 11168 | 11170 | 7 |
| Stg 28 | 3/27/2018 10:15 | 11203 | 11205 | 7 |
| Stg 27 | 3/27/2018 4:30 | 11238 | 11240 | 7 |
| Stg 27 | 3/27/2018 4:30 | 11273 | 11275 | 7 |
| Stg 27 | 3/27/2018 4:30 | 11308 | 11310 | 7 |
| Stg 27 | 3/27/2018 4:30 | 11343 | 11345 | 7 |
| Stg 27 | 3/27/2018 4:30 | 11378 | 11380 | 7 |
| Stg 26 | 3/26/2018 23:15 | 11413 | 11415 | 7 |
| Stg 26 | 3/26/2018 23:15 | 11448 | 11450 | 7 |
| Stg 26 | 3/26/2018 23:15 | 11483 | 11485 | 7 |
| Stg 26 | 3/26/2018 23:15 | 11518 | 11520 | 7 |
| Stg 26 | 3/26/2018 23:15 | 11553 | 11555 | 7 |
| Stg 25 | 3/26/2018 17:30 | 11588 | 11590 | 7 |
| Stg 25 | 3/26/2018 17:30 | 11623 | 11625 | 7 |
| Stg 25 | 3/26/2018 17:30 | 11658 | 11660 | 7 |
| Stg 25 | 3/26/2018 17:30 | 11693 | 11695 | 7 |
| Stg 25 | 3/26/2018 17:30 | 11728 | 11730 | 7 |
| Stg 24 | 3/26/2018 11:00 | 11763 | 11765 | 7 |

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|--------|-----------------|-------|-------|---|
| Stg 24 | 3/26/2018 11:00 | 11798 | 11800 | 7 |
| Stg 24 | 3/26/2018 11:00 | 11833 | 11835 | 7 |
| Stg 24 | 3/26/2018 11:00 | 11868 | 11870 | 7 |
| Stg 24 | 3/26/2018 11:00 | 11903 | 11905 | 7 |
| Stg 23 | 3/26/2018 4:00 | 11938 | 11940 | 7 |
| Stg 23 | 3/26/2018 4:00 | 11973 | 11975 | 7 |
| Stg 23 | 3/26/2018 4:00 | 12008 | 12010 | 7 |
| Stg 23 | 3/26/2018 4:00 | 12043 | 12045 | 7 |
| Stg 23 | 3/26/2018 4:00 | 12078 | 12080 | 7 |
| Stg 22 | 3/25/2018 23:30 | 12113 | 12115 | 7 |
| Stg 22 | 3/25/2018 23:30 | 12148 | 12150 | 7 |
| Stg 22 | 3/25/2018 23:30 | 12183 | 12185 | 7 |
| Stg 22 | 3/25/2018 23:30 | 12218 | 12220 | 7 |
| Stg 22 | 3/25/2018 23:30 | 12253 | 12255 | 7 |
| Stg 21 | 3/25/2018 23:30 | 12288 | 12290 | 7 |
| Stg 21 | 3/25/2018 23:30 | 12323 | 12325 | 7 |
| Stg 21 | 3/25/2018 23:30 | 12358 | 12360 | 7 |
| Stg 21 | 3/25/2018 23:30 | 12393 | 12395 | 7 |
| Stg 21 | 3/25/2018 23:30 | 12428 | 12430 | 7 |
| Stg 20 | 3/25/2018 11:30 | 12463 | 12465 | 7 |
| Stg 20 | 3/25/2018 11:30 | 12498 | 12500 | 7 |
| Stg 20 | 3/25/2018 11:30 | 12533 | 12535 | 7 |
| Stg 20 | 3/25/2018 11:30 | 12568 | 12570 | 7 |
| Stg 20 | 3/25/2018 11:30 | 12603 | 12605 | 7 |
| Stg 19 | 3/25/2018 5:30 | 12638 | 12640 | 7 |
| Stg 19 | 3/25/2018 5:30 | 12673 | 12675 | 7 |
| Stg 19 | 3/25/2018 5:30 | 12708 | 12710 | 7 |
| Stg 19 | 3/25/2018 5:30 | 12743 | 12745 | 7 |
| Stg 19 | 3/25/2018 5:30 | 12778 | 12780 | 7 |
| Stg 18 | 3/24/2018 9:00 | 12813 | 12815 | 7 |
| Stg 18 | 3/24/2018 9:00 | 12848 | 12850 | 7 |
| Stg 18 | 3/24/2018 9:00 | 12883 | 12885 | 7 |
| Stg 18 | 3/24/2018 9:00 | 12918 | 12920 | 7 |
| Stg 18 | 3/24/2018 9:00 | 12953 | 12955 | 7 |
| Stg 17 | 3/24/2018 5:45 | 12988 | 12990 | 7 |
| Stg 17 | 3/24/2018 5:45 | 13023 | 13025 | 7 |
| Stg 17 | 3/24/2018 5:45 | 13058 | 13060 | 7 |
| Stg 17 | 3/24/2018 5:45 | 13093 | 13095 | 7 |
| Stg 17 | 3/24/2018 5:45 | 13128 | 13130 | 7 |
| Stg 16 | 3/24/2018 2:00 | 13163 | 13165 | 7 |
| Stg 16 | 3/24/2018 2:00 | 13198 | 13200 | 7 |
| Stg 16 | 3/24/2018 2:00 | 13233 | 13235 | 7 |
| Stg 16 | 3/24/2018 2:00 | 13268 | 13270 | 7 |
| Stg 16 | 3/24/2018 2:00 | 13303 | 13305 | 7 |
| Stg 15 | 3/23/2018 19:00 | 13338 | 13340 | 7 |
| Stg 15 | 3/23/2018 19:00 | 13373 | 13375 | 7 |
| Stg 15 | 3/23/2018 19:00 | 13408 | 13410 | 7 |

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|--------|-----------------|-------|-------|---|
| Stg 15 | 3/23/2018 19:00 | 13443 | 13445 | 7 |
| Stg 15 | 3/23/2018 19:00 | 13478 | 13480 | 7 |
| Stg 14 | 3/23/2018 13:00 | 13513 | 13515 | 7 |
| Stg 14 | 3/23/2018 13:00 | 13548 | 13550 | 7 |
| Stg 14 | 3/23/2018 13:00 | 13583 | 13585 | 7 |
| Stg 14 | 3/23/2018 13:00 | 13618 | 13620 | 7 |
| Stg 14 | 3/23/2018 13:00 | 13653 | 13655 | 7 |
| Stg 13 | 3/22/2018 11:00 | 13688 | 13690 | 7 |
| Stg 13 | 3/22/2018 11:00 | 13718 | 13720 | 7 |
| Stg 13 | 3/22/2018 11:00 | 13748 | 13750 | 7 |
| Stg 13 | 3/22/2018 11:00 | 13787 | 13789 | 7 |
| Stg 13 | 3/22/2018 11:00 | 13822 | 13824 | 7 |
| Stg 12 | 3/22/2018 11:00 | 13857 | 13859 | 6 |
| Stg 12 | 3/22/2018 11:00 | 13892 | 13894 | 6 |
| Stg 12 | 3/22/2018 11:00 | 13927 | 13929 | 6 |
| Stg 12 | 3/22/2018 11:00 | 13962 | 13964 | 6 |
| Stg 12 | 3/22/2018 11:00 | 13997 | 13999 | 6 |
| Stg 11 | 3/22/2018 11:00 | 14032 | 14034 | 6 |
| Stg 11 | 3/22/2018 11:00 | 14067 | 14069 | 6 |
| Stg 11 | 3/22/2018 11:00 | 14102 | 14104 | 6 |
| Stg 11 | 3/22/2018 11:00 | 14137 | 14139 | 6 |
| Stg 11 | 3/22/2018 11:00 | 14172 | 14174 | 6 |
| Stg 10 | 3/22/2018 11:00 | 14207 | 14209 | 6 |
| Stg 10 | 3/22/2018 11:00 | 14242 | 14244 | 6 |
| Stg 10 | 3/22/2018 11:00 | 14277 | 14279 | 6 |
| Stg 10 | 3/22/2018 11:00 | 14312 | 14314 | 6 |
| Stg 10 | 3/22/2018 11:00 | 14347 | 14349 | 6 |
| Stg 9 | 3/16/2018 23:30 | 14383 | 14384 | 7 |
| Stg 9 | 3/16/2018 23:30 | 14418 | 14419 | 7 |
| Stg 9 | 3/16/2018 23:30 | 14453 | 14454 | 7 |
| Stg 9 | 3/16/2018 23:30 | 14488 | 14489 | 7 |
| Stg 9 | 3/16/2018 23:30 | 14523 | 14524 | 7 |
| Stg 8 | 3/16/2018 15:30 | 14558 | 14559 | 7 |
| Stg 8 | 3/16/2018 15:30 | 14593 | 14594 | 7 |
| Stg 8 | 3/16/2018 15:30 | 14628 | 14629 | 7 |
| Stg 8 | 3/16/2018 15:30 | 14663 | 14664 | 7 |
| Stg 8 | 3/16/2018 15:30 | 14698 | 14699 | 7 |
| Stg 7 | 3/16/2018 7:00 | 14733 | 14734 | 7 |
| Stg 7 | 3/16/2018 7:00 | 14768 | 14769 | 7 |
| Stg 7 | 3/16/2018 7:00 | 14803 | 14804 | 7 |
| Stg 7 | 3/16/2018 7:00 | 14838 | 14839 | 7 |
| Stg 7 | 3/16/2018 7:00 | 14873 | 14874 | 7 |
| Stg 6 | 3/15/2018 20:00 | 14908 | 14909 | 7 |
| Stg 6 | 3/15/2018 20:00 | 14943 | 14944 | 7 |
| Stg 6 | 3/15/2018 20:00 | 14978 | 14979 | 7 |
| Stg 6 | 3/15/2018 20:00 | 15013 | 15014 | 7 |
| Stg 6 | 3/15/2018 20:00 | 15048 | 15049 | 7 |

| | | | | |
|----------------|-----------------|-------|-------|---|
| Stg 5 | 3/15/2018 11:30 | 15083 | 15084 | 6 |
| Stg 5 | 3/15/2018 11:30 | 15118 | 15119 | 6 |
| Stg 5 | 3/15/2018 11:30 | 15153 | 15154 | 6 |
| Stg 5 | 3/15/2018 11:30 | 15188 | 15189 | 6 |
| Stg 5 | 3/15/2018 11:30 | 15223 | 15224 | 6 |
| Stg 4 | 3/14/2018 4:00 | 15258 | 15259 | 6 |
| Stg 4 | 3/14/2018 4:00 | 15293 | 15294 | 6 |
| Stg 4 | 3/14/2018 4:00 | 15328 | 15329 | 6 |
| Stg 4 | 3/14/2018 4:00 | 15363 | 15364 | 6 |
| Stg 4 | 3/14/2018 4:00 | 15398 | 15399 | 6 |
| Stg 3 | 3/13/2018 15:00 | 15433 | 15434 | 6 |
| Stg 3 | 3/13/2018 15:00 | 15468 | 15469 | 6 |
| Stg 3 | 3/13/2018 15:00 | 15503 | 15504 | 6 |
| Stg 3 | 3/13/2018 15:00 | 15538 | 15539 | 6 |
| Stg 3 | 3/13/2018 15:00 | 15573 | 15574 | 6 |
| Stg 2 | 3/12/2018 2:00 | 15608 | 15609 | 6 |
| Stg 2 | 3/12/2018 2:00 | 15643 | 15644 | 6 |
| Stg 2 | 3/12/2018 2:00 | 15678 | 15679 | 6 |
| Stg 2 | 3/12/2018 2:00 | 15713 | 15714 | 6 |
| Stg 2 | 3/12/2018 2:00 | 15748 | 15749 | 6 |
| Stg 1 (Sleeve) | 2/16/2018 | 15779 | 15784 | 8 |
| Stg 1 (Sleeve) | 2/16/2018 | 15829 | 15834 | 8 |
| Stg 1 (Sleeve) | 2/16/2018 | 15875 | 15880 | 8 |

WELLS MECKLEY 1404 (AS-DRILLED)

LEGEND

- ⊕ TOPO MAP POINT
- ⊗ EXISTING WELLS
- ⊙ PRE-29 WELLS
- PARCEL LINES
- ⊛ PROPOSED WELL
- ⊗ WATER WELL
- ROAD
- STREAM

02/15/2019

0 1000

1"=1000'

SURFACE LOC.
 UTM 17-NAD 83 METERS
 N: 4376180.34'
 E: 506641.59'
NAD 83
 LAT: 39.53525824
 LON: 80.92271433

LANDING POINT LOC.
 UTM 17-NAD 83 METERS
 N: 4376446.46'
 E: 506750.13'
NAD 83
 LAT: 39.53765490
 LON: 80.92144846

BOTTOM HOLE LOC.
 UTM 17-NAD 83 METERS
 N: 4373914.71'
 E: 507695.92'
NAD 83
 LAT: 39.51483476
 LON: 80.91047171

WELLS MECKLEY MINERAL ROYALTY OWNERS DETAIL

| TAXMAP/PARCEL | MINERAL OWNER | ACRES IN UNIT |
|---------------|------------------------------------|---------------|
| 9/20 | BRC APPALACHIAN MINERALS LLC | 9.97 ACRES |
| 9/30 | WACO OIL & GAS, INC | 75.28 ACRES |
| 9/32 | BYRON T. & JANET L. CLINE | 8.9 ACRES |
| 9/32 | RUTH B. THOMAS ESTATE ET. AL. | 3.34 ACRES |
| 9/32 | RUTH B. THOMAS ESTATE ET. AL. | 3.34 ACRES |
| 9/32 | JAMES W. & HELEN M. THOMAS ET. AL. | 2.23 ACRES |
| 9/33 | DONALD E. & NANCY L. REED | 1.05 ACRES |
| 9/34 | MILDRED A. REED | 0.711 ACRES |
| 9/35 | RICHARD & JUDITH BOWEN | 2.0 ACRES |
| 9/36 | BETTY & KENNETH MOREHEAD | 2 ACRES |
| 9/36.1 | BETTY & KENNETH MOREHEAD | 28.89 ACRES |
| 9/36.2 | BETTY & KENNETH MOREHEAD | 10.41 ACRES |
| 9/36.3 | BETTY & KENNETH MOREHEAD | 0.26 ACRES |
| 9/36.4 | BETTY & KENNETH MOREHEAD | 1.89 ACRES |
| 9/37 | CHARLES RAY JOBE | 0.525 ACRES |
| 9/37 | RONALD EUGENE BOOR | 0.525 ACRES |
| 9/38 | CHARLES RAY JOBE | 0.35 ACRES |
| 9/38 | RONALD EUGENE BOOR | 0.35 ACRES |
| 9/62 | CHARLES RAY JOBE | 0.16 ACRES |
| 9/62 | RONALD EUGENE BOOR | 0.16 ACRES |
| 9/62.1 | CHARLES RAY JOBE | 0.615 ACRES |
| 9/62.1 | RONALD EUGENE BOOR | 0.615 ACRES |
| 9/62.2 | CHARLES RAY JOBE | 0.066 ACRES |
| 9/62.2 | RONALD EUGENE BOOR | 0.066 ACRES |
| 9/63 | ROBERT L. & PATRICIA REED | 1.089 ACRES |
| 13/5 | TERESA STARCHER BURGEY ET. AL. | 5.25 ACRES |
| 13/5 | DENVER R. STARCHER, II | 5.25 ACRES |
| 13/5 | DAVID STARCHER | 5.25 ACRES |
| 13/5 | VELMA LUELLA WELLS | 15.75 ACRES |
| 13/6 | VELMA LUELLA WELLS | 225.28 ACRES |
| 13/6.1 | RAYMOND & REBECCA BARTH | 1.25 ACRES |
| 13/7 | JANICE FREELAND LANCASTER ET. AL. | 18.75 ACRES |
| 13/7 | LARRY HENTHORN | 37.5 ACRES |
| 13/7 | JANICE FREELAND LANCASTER | 18.75 ACRES |
| 13/9 | TERESA STARCHER BURGEY ET. AL. | 1.06 ACRES |
| 13/9 | DENVER R. STARCHER, II | 1.06 ACRES |
| 13/9 | DAVID STARCHER | 1.06 ACRES |
| 13/9.2 | DAVID & SHIRLEY JOHNSON | 4.03 ACRES |
| 13/9.4 | DENVER R. & DEBORAH L. STARCHER | 2.93 ACRES |
| 13/9.6 | TERESA STARCHER BURGEY ET. AL. | 0.95 ACRES |
| 13/9.6 | DENVER R. STARCHER, II | 0.95 ACRES |
| 13/9.6 | DAVID STARCHER | 0.95 ACRES |
| 13/9.6 | GERALD & REBECCA MECKLEY | 2.89 ACRES |
| 13/14 | WILLIAM H. MEREDITH | 0.261 ACRES |
| 13/14 | KAY MEREDITH MOLNAR | 0.263 ACRES |
| 13/14 | JAMES ROBERT MEREDITH | 0.261 ACRES |
| 13/14 | MARY R. LEE | 0.263 ACRES |
| 13/14 | RETTA JANE HALL | 0.263 ACRES |
| 13/15 | WILLIAM H. MEREDITH | 23.7 ACRES |
| 13/15 | JAMES ROBERT MEREDITH | 23.7 ACRES |
| 13/15 | MARY E. & C. C. PETTY HEIRS | 4.0 ACRES |
| 13/16 | WILLIAM H. MEREDITH | 0.5 ACRES |
| 13/18 | MARY JANE NEFF | 0.053 ACRES |
| 13/18 | NETTIE NITA GULLEY | 0.053 ACRES |
| 13/18 | WAYNE KOEHLER, JR. | 0.053 ACRES |
| 13/19 | RONALD E. BRIGHTWELL | 49.47 ACRES |
| 13/19.1 | CHARLES V. BRIGHTWELL | 5.0 ACRES |
| 14/3 | MILDRED A. REED | 46.4 ACRES |



Architects • Engineers • Surveyors

11283 EMERSON AVENUE, PARKERSBURG, WV 26104
 (304) 464-5305 PICKERING USA.COM

SURVEY NOTES:

1. THIS IS A VOLUNTARILY POOLED UNIT
2. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF PROPOSED WELL.
3. THERE ARE NO EXISTING BUILDINGS WITHIN 625' OF PROPOSED WELL.
4. PROPOSED WELL IS GREATER THAN 100' FROM PERENNIAL STREAM, WETLAND, POND, RESERVOIR, OR LAKE.
5. THERE ARE NO NATIVE TROUT STREAMS WITHIN 300' OF PROPOSED WELL.
6. PROPOSED WELL IS GREATER THAN 1000' FROM SURFACE/GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY BOUNDARY LINES. AS SHOWN, ARE BASED ON RECORD DEED DESCRIPTIONS, FIELD EVIDENCE FOUND, AND/OR TAX MAP POSITION, UNLESS OTHERWISE NOTED.
7. IT IS NOT THE INTENTION OF THIS PLAN TO REPRESENT SURVEYED LOCATIONS OF THE SURFACE OR MINERAL PARCELS DEPICTED HEREIN. THE LOCATION OF THE BOUNDARY LINES, AS SHOWN, ARE BASED ON RECORD DEED DESCRIPTIONS, FIELD EVIDENCE FOUND, AND/OR TAX MAP POSITION, UNLESS OTHERWISE NOTED.

API WELL#: 47-095-02154

STATE COUNTY PERMIT

OPERATOR'S WELL#: **WELLS MECKLEY 1404**

WELL OPERATOR TRIAD HUNTER, LLC (SUBSIDIARY OF BLUE RIDGE MOUNTAIN RESOURCES)

ADDRESS 125 PUTNAM ST. MARIETTA OH 45750

DESIGNATED AGENT KIMBERLY ARNOLD

ADDRESS PO BOX 154 WAVERLY WV 26184

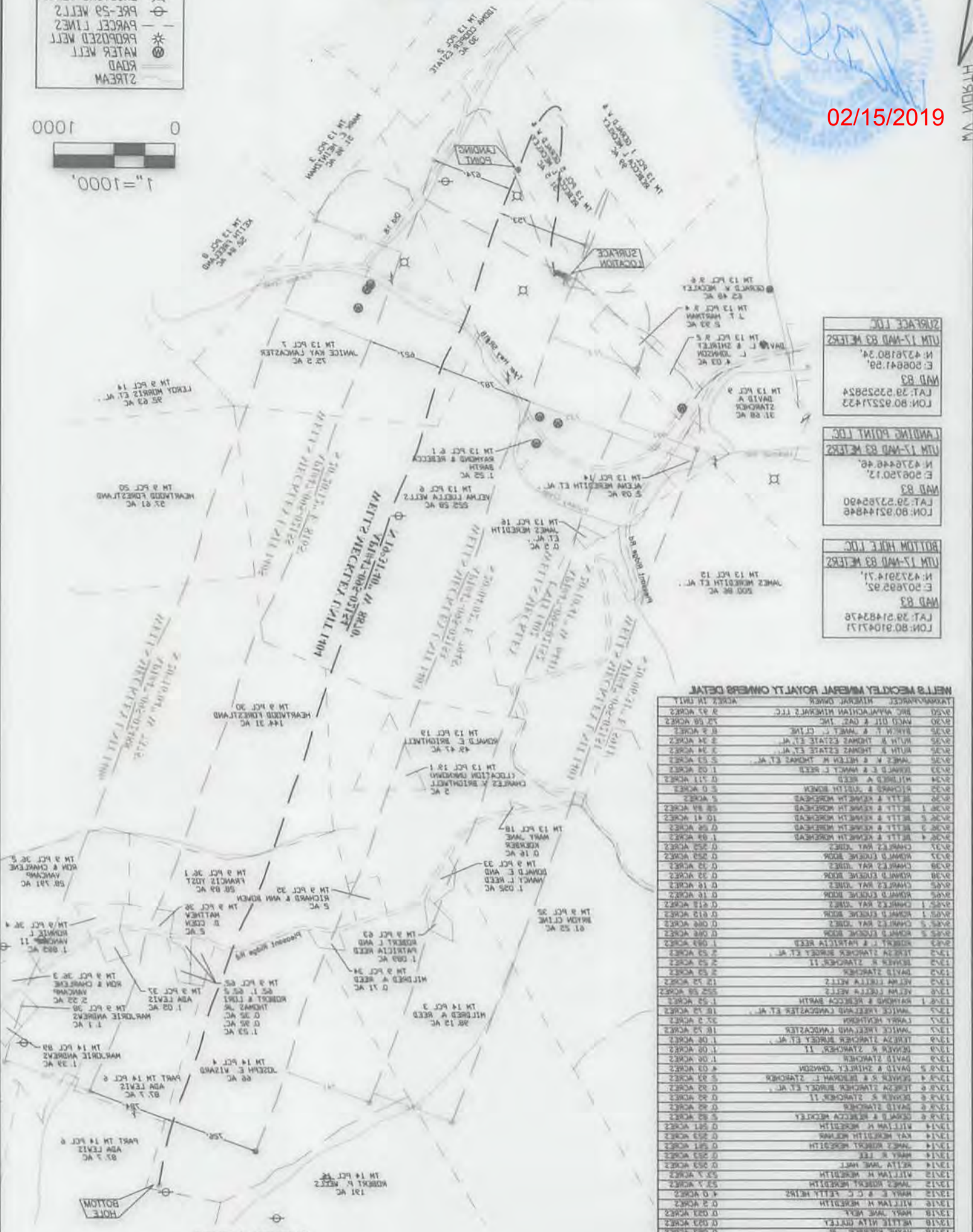
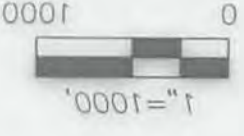
DATE: 3/14/2018

WELLS MECKLEY 1404 (AS-DRILLED)

02/15/2019

LEGEND

- ⊕ TOPD MAP POINT
- ⊙ EXISTING WELLS
- ⊙ PRE-59 WELLS
- PARCEL LINES
- ⊙ PROPOSED WELL
- ⊙ WATER WELL
- ROAD
- STREAM



| WELL IDENTIFICATION | CONVERTED COORDINATES |
|---------------------|---|
| SURFACE LOC. | |
| WELL 1404-002-0123 | CON: 80.92521423 E: 508841.90 N: 4278180.24 |
| LANDING POINT LOC. | |
| WELL 1404-002-0124 | CON: 80.92314486 E: 508750.12 N: 4278448.48 |
| BOTTOM HOLE LOC. | |
| WELL 1404-002-0125 | CON: 80.91042171 E: 507882.92 N: 427391.71 |

WELLS MECKLEY MINERAL ROYALTY OWNERS DETAIL

| WELL | OWNER | ACRES |
|------|-------------------------|-------|
| 1403 | WILBES A REED | 48.4 |
| 1404 | CHARLES N BRIDGEMAN | 2.0 |
| 1405 | ROBERT E BRIDGEMAN JR | 49.4 |
| 1406 | WILLIAM H BRIDGEMAN | 4.0 |
| 1407 | HARRY E & C PATTY HEARS | 4.0 |
| 1408 | WILLIAM H BRIDGEMAN | 0.2 |
| 1409 | JAMES ROBERT BRIDGEMAN | 0.2 |
| 1410 | WILLIAM H BRIDGEMAN | 0.2 |
| 1411 | HARRY JANE HEARS | 0.2 |
| 1412 | WILLIAM H BRIDGEMAN | 0.2 |
| 1413 | WILLIAM H BRIDGEMAN | 0.2 |
| 1414 | WILLIAM H BRIDGEMAN | 0.2 |
| 1415 | WILLIAM H BRIDGEMAN | 0.2 |
| 1416 | WILLIAM H BRIDGEMAN | 0.2 |
| 1417 | WILLIAM H BRIDGEMAN | 0.2 |
| 1418 | WILLIAM H BRIDGEMAN | 0.2 |
| 1419 | WILLIAM H BRIDGEMAN | 0.2 |
| 1420 | WILLIAM H BRIDGEMAN | 0.2 |
| 1421 | WILLIAM H BRIDGEMAN | 0.2 |
| 1422 | WILLIAM H BRIDGEMAN | 0.2 |
| 1423 | WILLIAM H BRIDGEMAN | 0.2 |
| 1424 | WILLIAM H BRIDGEMAN | 0.2 |
| 1425 | WILLIAM H BRIDGEMAN | 0.2 |
| 1426 | WILLIAM H BRIDGEMAN | 0.2 |
| 1427 | WILLIAM H BRIDGEMAN | 0.2 |
| 1428 | WILLIAM H BRIDGEMAN | 0.2 |
| 1429 | WILLIAM H BRIDGEMAN | 0.2 |
| 1430 | WILLIAM H BRIDGEMAN | 0.2 |
| 1431 | WILLIAM H BRIDGEMAN | 0.2 |
| 1432 | WILLIAM H BRIDGEMAN | 0.2 |
| 1433 | WILLIAM H BRIDGEMAN | 0.2 |
| 1434 | WILLIAM H BRIDGEMAN | 0.2 |
| 1435 | WILLIAM H BRIDGEMAN | 0.2 |
| 1436 | WILLIAM H BRIDGEMAN | 0.2 |
| 1437 | WILLIAM H BRIDGEMAN | 0.2 |
| 1438 | WILLIAM H BRIDGEMAN | 0.2 |
| 1439 | WILLIAM H BRIDGEMAN | 0.2 |
| 1440 | WILLIAM H BRIDGEMAN | 0.2 |
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| 1453 | WILLIAM H BRIDGEMAN | 0.2 |
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| 1462 | WILLIAM H BRIDGEMAN | 0.2 |
| 1463 | WILLIAM H BRIDGEMAN | 0.2 |
| 1464 | WILLIAM H BRIDGEMAN | 0.2 |
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| 1489 | WILLIAM H BRIDGEMAN | 0.2 |
| 1490 | WILLIAM H BRIDGEMAN | 0.2 |
| 1491 | WILLIAM H BRIDGEMAN | 0.2 |
| 1492 | WILLIAM H BRIDGEMAN | 0.2 |
| 1493 | WILLIAM H BRIDGEMAN | 0.2 |
| 1494 | WILLIAM H BRIDGEMAN | 0.2 |
| 1495 | WILLIAM H BRIDGEMAN | 0.2 |
| 1496 | WILLIAM H BRIDGEMAN | 0.2 |
| 1497 | WILLIAM H BRIDGEMAN | 0.2 |
| 1498 | WILLIAM H BRIDGEMAN | 0.2 |
| 1499 | WILLIAM H BRIDGEMAN | 0.2 |
| 1500 | WILLIAM H BRIDGEMAN | 0.2 |

SURVEY NOTES:

1. THIS IS A VOLUNTARILY POOLED UNIT.
2. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 500' OF PROPOSED WELL.
3. THERE ARE NO EXISTING BUILDINGS WITHIN 500' OF PROPOSED WELL.
4. PROPOSED WELL IS GREATER THAN 100' FROM PERMANENT STREAM, WETLAND, FISH RESERVOIR, OR LAKE.
5. THERE ARE NO NATIVE TRIBUTARY STREAMS WITHIN 300' OF PROPOSED WELL.
6. PROPOSED WELL IS GREATER THAN 1000' FROM SURFACEWATER INTAKE OR PUBLIC WATER SUPPLY.
7. IT IS NOT THE INTENTION OF THIS PLAN TO REPRESENT SURVEYED LOCATIONS OF THE SURFACE OR MINERAL PARCELS BENEATH. AS SHOWN ON RECORD DEED DESCRIPTIONS, FIELD EVIDENCE FOUND, AND/OR TAX MAP POSITION, UNLESS OTHERWISE NOTED.



Architects • Engineers • Surveyors
 11283 EMERSON AVENUE, PARKERSBURG, WV 26104
 (304) 464-2302 PICKERING USA.COM

DESIGNATED AGENT KIMBERLY ARNOLD ADDRESS PO BOX 124 WAVERLY WV 26184 DATE: 3/14/2018
 WELL OPERATOR TRIAD HUNTER, LLC (SUBSIDIARY)
 OPERATOR: 2 WELL # : WELLS MECKLEY 1404 STATE COUNTY PERMIT
 API WELL #: 47-092-05124
 ADDRESS 152 PUTNAM ST. MARRIETTA OH 42750