

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

API 47-017-06563 County Doddridge District Central  
Quad Oxford 7.5' Pad Name Primm Pad Field/Pool Name ---  
Farm name Primm, Olin E. & Mary Well Number Stella Unit 1H  
Operator (as registered with the OOG) Antero Resources Corporation  
Address 1615 Wynkoop St. City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4343577m Easting 512715m  
Landing Point of Curve Northing 4343356.82m Easting 513003.60m  
Bottom Hole Northing 4340775m Easting 514238m

Elevation (ft) 1008' 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- Foam & 4% KCL  
Mud- Polymer

Date permit issued 9/3/2014 Date drilling commenced 9/13/2014 Date drilling ceased 3/18/2015  
Date completion activities began 5/20/2015 Date completion activities ceased 9/6/2015  
Verbal plugging (Y/N) N/A 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

Freshwater depth(s) ft 225' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft 743', 2147' Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 437' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed by:  
\_\_\_\_\_

API 47-017 - 06563 Farm name Primm, Olin E. & Mary Well number Stella Unit 1H

| CASING STRINGS            | Hole Size       | Casing Size | Depth  | New or Used | Grade wt/ft | Basket Depth(s) | Did cement circulate (Y/N)<br>* Provide details below* |
|---------------------------|-----------------|-------------|--------|-------------|-------------|-----------------|--------------------------------------------------------|
| Conductor                 | 30"             | 20"         | 40'    | New         | 94# H-40    | N/A             | Y                                                      |
| Surface                   | 17- 1/2"        | 13- 3/8"    | 362'   | New         | 48# H-40    | N/A             | Y                                                      |
| Coal                      |                 |             |        |             |             |                 |                                                        |
| Intermediate 1            | 12-1/4"         | 9-5/8"      | 2525'  | New         | 36# J-55    | N/A             | Y                                                      |
| Intermediate 2            |                 |             |        |             |             |                 |                                                        |
| Intermediate 3            |                 |             |        |             |             |                 |                                                        |
| Production                | 8-3/4" & 8-1/2" | 5-1/2"      | 17008' | New         | 23# P-110   | N/A             | Y                                                      |
| Tubing                    |                 | 2-3/8"      | 6611'  |             | 4.7# N-80   | N/A             |                                                        |
| Packer type and depth set |                 | N/A         |        |             |             |                 |                                                        |

Comment Details \*Notified DEP inspector Doug Newlon of gas influx while drilling 12-14" hole on 9/23/2014 due to drilling close to offset Callie Unit 1H well. Shut in well & monitored pressure. Set cement retainer at 310' and plug 12-1/4" hole w/300 sx. Wait on Callie Unit 1H casing repair and resume drilling operations through cement plug on 12/13/2014. Fish in hole @ 13,120' while drilling lateral. Open hole sidetrack @ 10,075' on 3/6/2015.

| CEMENT DATA    | Class/Type of Cement | Number of Sacks              | Slurry wt (ppg)     | Yield (ft <sup>3</sup> /sks) | Volume (ft <sup>3</sup> ) | Cement Top (MD)                | WOC (hrs) |
|----------------|----------------------|------------------------------|---------------------|------------------------------|---------------------------|--------------------------------|-----------|
| Conductor      | Class A              | 100 sx                       | 15.6                | 1.18                         | 38                        | 0'                             | 8 Hrs.    |
| Surface        | Class A              | 430 sx                       | 15.6                | 1.18                         | 351                       | 0'                             | 8 Hrs.    |
| Coal           |                      |                              |                     |                              |                           |                                |           |
| Intermediate 1 | Class A              | 935 sx                       | 15.6                | 1.18                         | 791                       | 0'                             | 8 Hrs.    |
| Intermediate 2 |                      |                              |                     |                              |                           |                                |           |
| Intermediate 3 |                      |                              |                     |                              |                           |                                |           |
| Production     | Class H              | 966 sx (Lead) 1628 sx (Tail) | 14.5 Lead 15.2 Tail | 1.30 Lead 1.86 Tail          | 3433                      | ~500' into Intermediate Casing | 8 Hrs.    |
| Tubing         |                      |                              |                     |                              |                           |                                |           |

Drillers TD (ft) 17008' MD, 6443' TVD (BHL), 6579' (Deepest Point Drilled) Loggers TD (ft) 16960'  
 Deepest formation penetrated Marcellus Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5926'

\*\* This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Callie Unit 2H API #47-017-06193). Please reference the wireline logs submitted with Form WR-35 for Callie Unit 2H. A Cement Bond Log has been included with this submittal.

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 \_\_\_\_\_

Conductor- 0  
 Surface- 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface  
 Intermediate- 1 above float joint, 1 above float collar, 1 every 4th joint to surface  
 Production- 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

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 \_\_\_\_\_

API 47- 017 - 06563 Farm name Primm, Olin E. & Mary Well number Stella Unit 1H

PERFORATION RECORD

| Stage No.                             | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|---------------------------------------|------------------|------------------------|----------------------|------------------------|--------------|
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
| <b>*PLEASE SEE ATTACHED EXHIBIT 1</b> |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |
|                                       |                  |                        |                      |                        |              |

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) |
|---------------------------------------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
| <b>*PLEASE SEE ATTACHED EXHIBIT 2</b> |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |
|                                       |                   |                     |                              |                              |            |                          |                        |                                  |

Please insert additional pages as applicable.

API 47- 017 - 06563 Farm name Primm, Olin E. & Mary Well number Stella Unit 1H

| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u>      |            |                              |
|-------------------------------|--------------------|------------|------------------------------|
| <u>Marcellus</u>              | <u>6536' (TOP)</u> | <u>TVD</u> | <u>6930' (TOP)</u> <u>MD</u> |
| _____                         | _____              | _____      | _____                        |
| _____                         | _____              | _____      | _____                        |
| _____                         | _____              | _____      | _____                        |

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 3600 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 11141 mcfpd Oil 57 bpd NGL --- bpd Water 3 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

| LITHOLOGY/<br>FORMATION | TOP                     | BOTTOM             | TOP               | BOTTOM            | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND<br>TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC) |
|-------------------------|-------------------------|--------------------|-------------------|-------------------|------------------------------------------------------------------------------------------------------------------|
|                         | DEPTH IN FT<br>NAME TVD | DEPTH IN FT<br>TVD | DEPTH IN FT<br>MD | DEPTH IN FT<br>MD |                                                                                                                  |
|                         | <u>0</u>                |                    | <u>0</u>          |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
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|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
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|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |
|                         |                         |                    |                   |                   |                                                                                                                  |

**\*PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.


Drilling Contractor Precision Drilling Company, LP  
Address 2640 Reach Rd. City Williamsport State PA Zip 17701

Logging Company Rush Wellsite Services  
Address 600 Alpha Drive City Canonsburg State PA Zip 15317

Cementing Company Nabors Completion & Production Services, Co.  
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Stimulating Company US Well Services  
Address 533 Industrial Park Dr. City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233  
Signature  Title Permit Representative Date 10/15/2015

**EXHIBIT 1**

| Stage No. | Perforation Date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formations |
|-----------|------------------|------------------------|----------------------|------------------------|------------|
| 1         | 20-May-15        | 16,747                 | 16,915               | 60                     | Marcellus  |
| 2         | 17-Jun-15        | 16,547                 | 16,715               | 60                     | Marcellus  |
| 3         | 17-Jun-15        | 16,348                 | 16,516               | 60                     | Marcellus  |
| 4         | 18-Jun-15        | 16,148                 | 16,316               | 60                     | Marcellus  |
| 5         | 18-Jun-15        | 15,948                 | 16,117               | 60                     | Marcellus  |
| 6         | 18-Jun-15        | 15,749                 | 15,917               | 60                     | Marcellus  |
| 7         | 18-Jun-15        | 15,549                 | 15,718               | 60                     | Marcellus  |
| 8         | 19-Jun-15        | 15,350                 | 15,518               | 60                     | Marcellus  |
| 9         | 20-Jun-15        | 15,150                 | 15,319               | 60                     | Marcellus  |
| 10        | 20-Jun-15        | 14,951                 | 15,119               | 60                     | Marcellus  |
| 11        | 20-Jun-15        | 14,751                 | 14,919               | 60                     | Marcellus  |
| 12        | 20-Jun-15        | 14,552                 | 14,720               | 60                     | Marcellus  |
| 13        | 20-Jun-15        | 14,352                 | 14,520               | 60                     | Marcellus  |
| 14        | 21-Jun-15        | 14,153                 | 14,321               | 60                     | Marcellus  |
| 15        | 21-Jun-15        | 13,953                 | 14,121               | 60                     | Marcellus  |
| 16        | 21-Jun-15        | 13,753                 | 13,922               | 60                     | Marcellus  |
| 17        | 21-Jun-15        | 13,554                 | 13,722               | 60                     | Marcellus  |
| 18        | 21-Jun-15        | 13,354                 | 13,523               | 60                     | Marcellus  |
| 19        | 22-Jun-15        | 13,155                 | 13,323               | 60                     | Marcellus  |
| 20        | 22-Jun-15        | 12,955                 | 13,123               | 60                     | Marcellus  |
| 21        | 22-Jun-15        | 12,756                 | 12,924               | 60                     | Marcellus  |
| 22        | 22-Jun-15        | 12,556                 | 12,724               | 60                     | Marcellus  |
| 23        | 22-Jun-15        | 12,357                 | 12,525               | 60                     | Marcellus  |
| 24        | 23-Jun-15        | 12,157                 | 12,325               | 60                     | Marcellus  |
| 25        | 23-Jun-15        | 11,957                 | 12,126               | 60                     | Marcellus  |
| 26        | 23-Jun-15        | 11,758                 | 11,926               | 60                     | Marcellus  |
| 27        | 23-Jun-15        | 11,558                 | 11,727               | 60                     | Marcellus  |
| 28        | 25-Jun-15        | 11,359                 | 11,527               | 60                     | Marcellus  |
| 29        | 25-Jun-15        | 11,159                 | 11,327               | 60                     | Marcellus  |
| 30        | 25-Jun-15        | 10,960                 | 11,128               | 60                     | Marcellus  |
| 31        | 25-Jun-15        | 10,760                 | 10,928               | 60                     | Marcellus  |
| 32        | 26-Jun-15        | 10,561                 | 10,729               | 60                     | Marcellus  |
| 33        | 26-Jun-15        | 10,361                 | 10,529               | 60                     | Marcellus  |
| 34        | 26-Jun-15        | 10,161                 | 10,330               | 60                     | Marcellus  |
| 35        | 26-Jun-15        | 9,962                  | 10,130               | 60                     | Marcellus  |
| 36        | 26-Jun-15        | 9,762                  | 9,931                | 60                     | Marcellus  |
| 37        | 27-Jun-15        | 9,563                  | 9,731                | 60                     | Marcellus  |
| 38        | 27-Jun-15        | 9,363                  | 9,532                | 60                     | Marcellus  |
| 39        | 27-Jun-15        | 9,164                  | 9,332                | 60                     | Marcellus  |
| 40        | 28-Jun-15        | 8,964                  | 9,132                | 60                     | Marcellus  |
| 41        | 28-Jun-15        | 8,765                  | 8,933                | 60                     | Marcellus  |
| 42        | 28-Jun-15        | 8,565                  | 8,733                | 60                     | Marcellus  |
| 43        | 28-Jun-15        | 8,365                  | 8,534                | 60                     | Marcellus  |
| 44        | 28-Jun-15        | 8,166                  | 8,334                | 60                     | Marcellus  |
| 45        | 29-Jun-15        | 7,966                  | 8,135                | 60                     | Marcellus  |
| 46        | 29-Jun-15        | 7,767                  | 7,935                | 60                     | Marcellus  |
| 47        | 30-Jun-15        | 7,567                  | 7,736                | 60                     | Marcellus  |
| 48        | 30-Jun-15        | 7,368                  | 7,536                | 60                     | Marcellus  |
| 49        | 30-Jun-15        | 7,168                  | 7,336                | 60                     | Marcellus  |
| 50        | 30-Jun-15        | 6,969                  | 7,137                | 60                     | Marcellus  |

## EXHIBIT 2

| Stage No. | Stimulations Date | Avg Pump Rate | Avg Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI)   | Amount of Proppant (lbs) | Amount of Water (bbls) | Amount of Nitrogen/ other (units) |
|-----------|-------------------|---------------|------------------------------|------------------------------|--------------|--------------------------|------------------------|-----------------------------------|
| 1         | 17-Jun-15         | 60.8          | 7,505                        | N/A                          | 4,104        | 224,880                  | 6,977                  | N/A                               |
| 2         | 17-Jun-15         | 63.3          | 7,577                        | 7,066                        | 4,097        | 138,260                  | 7,193                  | N/A                               |
| 3         | 17-Jun-15         | 60.7          | 7,097                        | 6,355                        | 4,851        | 36,800                   | 7,143                  | N/A                               |
| 4         | 18-Jun-15         | 72.4          | 7,676                        | 6,578                        | 4,604        | 190,000                  | 7,151                  | N/A                               |
| 5         | 18-Jun-15         | 65.6          | 7,184                        | 6,219                        | 4,101        | 213,695                  | 6,299                  | N/A                               |
| 6         | 18-Jun-15         | 63.4          | 7,461                        | 5,838                        | 4,077        | 188,240                  | 7,135                  | N/A                               |
| 7         | 18-Jun-15         | 66.4          | 7,719                        | 6,559                        | 8,460        | 104,300                  | 6,001                  | N/A                               |
| 8         | 19-Jun-15         | 65.0          | 7,505                        | 6,138                        | 4,925        | 196,950                  | 7,095                  | N/A                               |
| 9         | 20-Jun-15         | 66.0          | 7,090                        | 5,820                        | 4,532        | 30,300                   | 6,455                  | N/A                               |
| 10        | 20-Jun-15         | 70.5          | 7,241                        | 6,253                        | 4,488        | 210,980                  | 6,294                  | N/A                               |
| 11        | 20-Jun-15         | 67.0          | 6,927                        | 5,767                        | 4,101        | 231,940                  | 6,439                  | N/A                               |
| 12        | 20-Jun-15         | 67.6          | 6,675                        | 6,713                        | 3,709        | 243,340                  | 6,483                  | N/A                               |
| 13        | 20-Jun-15         | 65.5          | 6,921                        | 6,507                        | 4,430        | 101,850                  | 6,401                  | N/A                               |
| 14        | 21-Jun-15         | 67.7          | 7,012                        | 6,564                        | 4,031        | 153,380                  | 7,011                  | N/A                               |
| 15        | 21-Jun-15         | 63.6          | 6,865                        | 6,407                        | 4,775        | 197,910                  | 6,095                  | N/A                               |
| 16        | 21-Jun-15         | 66.7          | 6,637                        | 5,727                        | 3,970        | 243,370                  | 6,400                  | N/A                               |
| 17        | 21-Jun-15         | 68.0          | 6,626                        | 5,527                        | 5,004        | 242,940                  | 6,373                  | N/A                               |
| 18        | 21-Jun-15         | 67.6          | 6,814                        | 6,232                        | 4,721        | 232,540                  | 6,422                  | N/A                               |
| 19        | 22-Jun-15         | 65.5          | 6,713                        | 6,304                        | 4,694        | 215,600                  | 6,101                  | N/A                               |
| 20        | 22-Jun-15         | 62.8          | 7,319                        | 6,403                        | 3,874        | 243,840                  | 6,353                  | N/A                               |
| 21        | 22-Jun-15         | 65.9          | 7,066                        | 6,402                        | 4,625        | 219,070                  | 5,934                  | N/A                               |
| 22        | 22-Jun-15         | 66.3          | 6,763                        | 6,309                        | 3,704        | 241,700                  | 6,289                  | N/A                               |
| 23        | 22-Jun-15         | 65.7          | 7,172                        | 6,117                        | 3,965        | 210,090                  | 6,300                  | N/A                               |
| 24        | 23-Jun-15         | 64.7          | 7,187                        | 6,311                        | 4,477        | 223,660                  | 6,025                  | N/A                               |
| 25        | 23-Jun-15         | 67.1          | 7,154                        | 6,036                        | 5,172        | 217,340                  | 6,753                  | N/A                               |
| 26        | 23-Jun-15         | 66.4          | 7,087                        | 5,931                        | 4,521        | 163,480                  | 6,089                  | N/A                               |
| 27        | 23-Jun-15         | 63.8          | 6,851                        | 5,837                        | 3,807        | 136,360                  | 4,304                  | N/A                               |
| 28        | 25-Jun-15         | 62.0          | 7,224                        | 6,392                        | 4,399        | 138,520                  | 6,186                  | N/A                               |
| 29        | 25-Jun-15         | 66.0          | 6,798                        | 6,986                        | 4,527        | 242,000                  | 6,242                  | N/A                               |
| 30        | 25-Jun-15         | 67.1          | 7,383                        | 7,188                        | 3,994        | 144,330                  | 6,556                  | N/A                               |
| 31        | 25-Jun-15         | 66.1          | 6,988                        | 6,582                        | 4,762        | 235,410                  | 6,091                  | N/A                               |
| 32        | 26-Jun-15         | 66.8          | 7,089                        | 7,403                        | 5,274        | 242,920                  | 6,199                  | N/A                               |
| 33        | 26-Jun-15         | 67.0          | 6,527                        | 6,088                        | 5,641        | 238,160                  | 6,072                  | N/A                               |
| 34        | 26-Jun-15         | 66.9          | 6,579                        | 6,007                        | 5,345        | 238,620                  | 6,076                  | N/A                               |
| 35        | 26-Jun-15         | 66.4          | 6,921                        | 6,193                        | 4,775        | 207,520                  | 5,458                  | N/A                               |
| 36        | 26-Jun-15         | 66.0          | 6,727                        | 6,543                        | 4,438        | 243,620                  | 6,143                  | N/A                               |
| 37        | 27-Jun-15         | 66.1          | 6,747                        | 6,384                        | 4,637        | 216,200                  | 6,137                  | N/A                               |
| 38        | 27-Jun-15         | 65.5          | 6,497                        | 6,295                        | 4,518        | 209,575                  | 6,094                  | N/A                               |
| 39        | 27-Jun-15         | 67.3          | 6,491                        | 6,154                        | 4,665        | 227,430                  | 6,147                  | N/A                               |
| 40        | 28-Jun-15         | 67.1          | 6,218                        | 6,293                        | 5,041        | 235,660                  | 6,070                  | N/A                               |
| 41        | 28-Jun-15         | 65.7          | 6,559                        | 6,646                        | 5,316        | 197,320                  | 5,696                  | N/A                               |
| 42        | 28-Jun-15         | 68.2          | 6,829                        | 6,012                        | 4,416        | 217,840                  | 6,573                  | N/A                               |
| 43        | 28-Jun-15         | 65.9          | 6,912                        | 6,603                        | 3,520        | 209,930                  | 6,583                  | N/A                               |
| 44        | 28-Jun-15         | 67.4          | 6,202                        | 5,863                        | 3,614        | 239,270                  | 6,057                  | N/A                               |
| 45        | 29-Jun-15         | 41.2          | 8,102                        | 7,011                        | 6,150        | 2,000                    | 6,004                  | N/A                               |
| 46        | 29-Jun-15         | 63.7          | 6,489                        | 6,105                        | 4,200        | 101,510                  | 6,578                  | N/A                               |
| 47        | 30-Jun-15         | 67.7          | 6,383                        | 6,806                        | 3,664        | 240,860                  | 6,020                  | N/A                               |
| 48        | 30-Jun-15         | 67.2          | 6,329                        | 6,108                        | 5,433        | 237,940                  | 5,951                  | N/A                               |
| 49        | 30-Jun-15         | 66.4          | 6,384                        | 6,703                        | 4,444        | 235,960                  | 5,955                  | N/A                               |
| 50        | 30-Jun-15         | 66.4          | 6,363                        | 6,671                        | 4,231        | 236,030                  | 6,352                  | N/A                               |
| AVG=      |                   | <b>65.5</b>   | <b>6,932</b>                 | <b>6,346</b>                 | <b>4,576</b> | <b>9,791,440</b>         | <b>314,755</b>         | TOTAL                             |

**EXHIBIT 3**

| LITHOLOGY/ FORMATION | TOP DEPTH (TVD) | BOTTOM DEPTH (TVD) | TOP DEPTH (MD) | BOTTOM DEPTH (MD) |
|----------------------|-----------------|--------------------|----------------|-------------------|
|                      | From Surface    | From Surface       | From Surface   | From Surface      |
| Fresh Water          | 225'            | N/A                | 225'           | N/A               |
| Shale                | 0               | 227                | 0              | 227               |
| Sandstone            | 227             | 437                | 227            | 437               |
| Coal                 | 437             | 457                | 437            | 457               |
| Sandy shale          | 457             | 477                | 457            | 477               |
| Shale                | 477             | 595                | 477            | 595               |
| Sandstone            | 595             | 605                | 595            | 605               |
| Shale                | 605             | 625                | 605            | 625               |
| Sandstone            | 625             | 638                | 625            | 638               |
| Shale                | 638             | 659                | 638            | 659               |
| Sandstone            | 659             | 808                | 659            | 808               |
| Shale                | 808             | 1175               | 808            | 1175              |
| Sandy shale          | 1175            | 1235               | 1175           | 1235              |
| Trace coal           | 1235            | 1257               | 1235           | 1257              |
| Shale                | 1257            | 1421               | 1257           | 1421              |
| Sandstone            | 1421            | 1445               | 1421           | 1445              |
| Sandy shale          | 1445            | 1477               | 1445           | 1477              |
| Trace coal/shale     | 1477            | 1542               | 1477           | 1542              |
| Sandstone            | 1542            | 1683               | 1542           | 1683              |
| Sandy shale          | 1683            | 1962               | 1683           | 1964              |
| Big Lime             | 1962            | 2006               | 1964           | 2008              |
| Big Injun            | 2006            | 2307               | 2008           | 2309              |
| Weir                 | 2307            | 2609               | 2309           | 2611              |
| Fifty Foot Sandstone | 2609            | 2765               | 2611           | 2767              |
| Gordon               | 2765            | 3048               | 2767           | 3050              |
| Fifth Sandstone      | 3048            | 3067               | 3050           | 3069              |
| Bayard               | 3067            | 3393               | 3069           | 3395              |
| Speechley            | 3393            | 4093               | 3395           | 4095              |
| Baltown              | 4093            | 4543               | 4095           | 4545              |
| Bradford             | 4543            | 4938               | 4545           | 4940              |
| Benson               | 4938            | 5205               | 4940           | 5207              |
| Alexander            | 5205            | 6181               | 5207           | 6195              |
| Sycamore             | 6181            | 6352               | 6195           | 6422              |
| Middlesex            | 6352            | 6477               | 6422           | 6702              |
| Burkett              | 6477            | 6505               | 6702           | 6791              |
| Tully                | 6505            | 6536               | 6791           | 6930              |
| Marcellus            | 6536            | NA                 | 6930           | NA                |

# Hydraulic Fracturing Fluid Product Component Information Disclosure

|                                |                              |
|--------------------------------|------------------------------|
| Job Start Date:                | 6/17/2015                    |
| Job End Date:                  | 6/30/2015                    |
| State:                         | West Virginia                |
| County:                        | Doddridge                    |
| API Number:                    | 47-017-06563-00-00           |
| Operator Name:                 | Antero Resources Corporation |
| Well Name and Number:          | Stella Unit 1H               |
| Longitude:                     | -80.85265800                 |
| Latitude:                      | 39.24141100                  |
| Datum:                         | NAD83                        |
| Federal/Tribal Well:           | NO                           |
| True Vertical Depth:           | 6,580                        |
| Total Base Water Volume (gal): | 13,856,200                   |
| Total Base Non Water Volume:   | 539,112                      |



## Hydraulic Fracturing Fluid Composition:

| Trade Name             | Supplier                | Purpose          | Ingredients                | Chemical Service Abstract Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|------------------------|-------------------------|------------------|----------------------------|------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|----------|
| Water                  | Antero Resources        | Base Fluid       | Water                      | 7732-18-5                                | 100.00000                                                  | 91.65955                                                   |          |
| Sand                   | U.S. Well Services, LLC | Proppant         | Crystalline Silica, quartz | 14808-60-7                               | 100.00000                                                  | 7.76630                                                    |          |
| LGC-15                 | U.S. Well Services      | Gelling Agents   | Guar Gum                   | 9000-30-0                                | 50.00000                                                   | 0.10832                                                    |          |
|                        |                         |                  | Petroleum Distillates      | 64742-47-8                               | 60.00000                                                   | 0.10258                                                    |          |
|                        |                         |                  | Suspending agent (solid)   | 14808-60-7                               | 3.00000                                                    | 0.01657                                                    |          |
|                        |                         |                  | Surfactant                 | 68439-51-0                               | 3.00000                                                    | 0.00650                                                    |          |
| HCL Acid (12.6%-18.0%) | U.S. Well Services, LLC | Bulk Acid        |                            |                                          |                                                            |                                                            |          |
|                        |                         |                  | Water                      | 7732-18-5                                | 87.50000                                                   | 0.16769                                                    |          |
|                        |                         |                  | Hydrogen Chloride          | 7647-01-0                                | 18.00000                                                   | 0.04006                                                    |          |
| WFRA-405               | U.S. Well Services      | Friction Reducer | Water                      | 7732-18-5                                | 40.00000                                                   | 0.03450                                                    |          |
|                        |                         |                  | Anionic Polyacrylamide     | Proprietary                              | 40.00000                                                   | 0.03450                                                    |          |
|                        |                         |                  | Sodium Chloride            | 7647-14-5                                | 20.00000                                                   | 0.01725                                                    |          |
|                        |                         |                  | Petroleum Distillates      | 64742-47-8                               | 20.00000                                                   | 0.01389                                                    |          |
|                        |                         |                  | Ethoxylated alcohol blend  | Proprietary                              | 5.00000                                                    | 0.00431                                                    |          |



| SI-1100    | J.S. Well Services | Scale Inhibitor                                                         |            |  |           |  |         |  |
|------------|--------------------|-------------------------------------------------------------------------|------------|--|-----------|--|---------|--|
|            |                    | Water                                                                   | 7732-18-5  |  | 80.00000  |  | 0.00994 |  |
|            |                    | Ethylene Glycol                                                         | 107-21-1   |  | 25.00000  |  | 0.00351 |  |
|            |                    | Copolymer of Maleic and Acrylic acid                                    | 52255-49-9 |  | 10.00000  |  | 0.00147 |  |
|            |                    | Potassium salt of diethylene triamine penta (methylene phosphonic acid) | 15827-60-8 |  | 7.50000   |  | 0.00126 |  |
|            |                    | Hexamethylene tramine penta (methylene phosphonic acid)                 | 34690-00-1 |  | 5.00000   |  | 0.00081 |  |
|            |                    | Phosphino carboxylic acid polymer                                       | 71050-62-9 |  | 5.00000   |  | 0.00081 |  |
|            |                    | Hexamethylene diamine penta (methylene phosphonic acid)                 | 23605-74-5 |  | 2.00000   |  | 0.00032 |  |
| K-BAC 1020 | J.S. Well Services | Anti-Bacterial Agent                                                    |            |  |           |  |         |  |
|            |                    | 2,2-dibromo-3-nitropropionamide                                         | 10222-01-2 |  | 20.00000  |  | 0.00451 |  |
|            |                    | Deionized Water                                                         | 7732-18-5  |  | 28.00000  |  | 0.00258 |  |
| AP One     | J.S. Well Services | Gel Breakers                                                            |            |  |           |  |         |  |
|            |                    | Ammonium Persulfate                                                     | 7727-54-0  |  | 100.00000 |  | 0.00246 |  |
| AI-301     | J.S. Well Services | Acid Corrosion Inhibitors                                               |            |  |           |  |         |  |
|            |                    | Diethylene Glycol                                                       | 111-46-6   |  | 30.00000  |  | 0.00013 |  |
|            |                    | Methenamine                                                             | 100-97-0   |  | 20.00000  |  | 0.00010 |  |
|            |                    | Polyethylene polyamine                                                  | 58603-67-8 |  | 10.00000  |  | 0.00004 |  |
|            |                    | Hydrogen Chloride                                                       | 7647-01-0  |  | 10.00000  |  | 0.00004 |  |
|            |                    | Coco amine                                                              | 61791-14-8 |  | 5.00000   |  | 0.00002 |  |

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.

\* 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)

LATITUDE 39°15'00"

5,522'

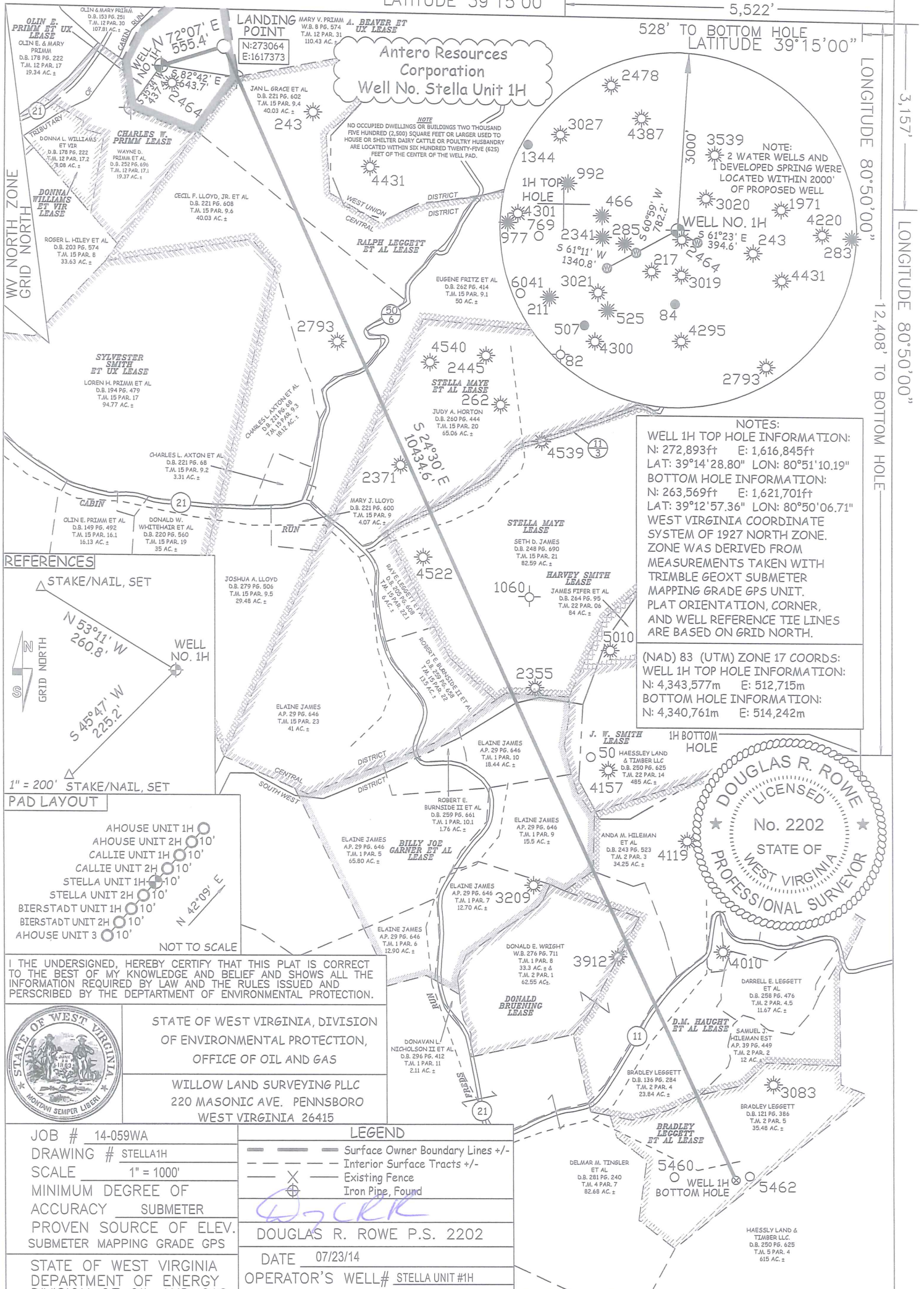
528' TO BOTTOM HOLE  
LATITUDE 39°15'00"

LONGITUDE 80°50'00"

LONGITUDE 80°50'00"

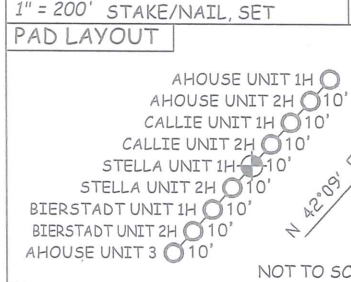
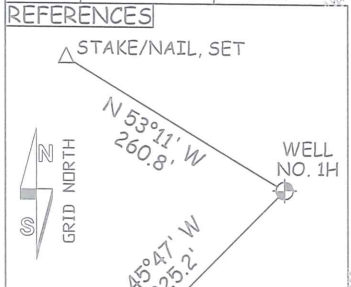
COUNTY NAME

PERMIT



**NOTES:**  
 WELL 1H TOP HOLE INFORMATION:  
 N: 272,893ft E: 1,616,845ft  
 LAT: 39°14'28.80" LON: 80°51'10.19"  
 BOTTOM HOLE INFORMATION:  
 N: 263,569ft E: 1,621,701ft  
 LAT: 39°12'57.36" LON: 80°50'06.71"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

(NAD) 83 (UTM) ZONE 17 COORDS:  
 WELL 1H TOP HOLE INFORMATION:  
 N: 4,343,577m E: 512,715m  
 BOTTOM HOLE INFORMATION:  
 N: 4,340,761m E: 514,242m



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 RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
 WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 14-059WA  
 DRAWING # STELLA1H  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

**LEGEND**  
 — Surface Owner Boundary Lines +/-  
 - - - Interior Surface Tracts +/-  
 X Existing Fence  
 ⊕ Iron Pipe, Found

DATE 07/23/14  
 OPERATOR'S WELL# STELLA UNIT #1H

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS  
 WELL TYPE: OIL GAS  LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION  STORAGE DEEP SHALLOW   
 LOCATION: ELEVATION 1,008' WATERSHED TRIBUTARY OF CABIN RUN  
 QUADRANGLE OXFORD 7.5' DISTRICT CENTRAL COUNTY DODDRIDGE  
 SURFACE OWNER OLIN E. & MARY PRIMM ACREAGE 19.34 ACRES +/-  
 OIL & GAS ROYALTY OWNER OLIN E. PRIMM ET UX; A. BEAVER ET UX; RALPH LEGGETT ET AL;  
 STELLA MAYE ET AL; STELLA MAYE; BILLY JOE GARNER ET AL; D.M. HAUGHT ET AL; DONALD BRUENING; BRADLEY LEGGETT ET AL  
 LEASE ACREAGE 19.34 ACRES±; 113 ACRES±; 187 ACRES±; 125.5 ACRES±; 83 ACRES±; 83.79 ACRES±; 132 ACRES±; 33.3 ACRES±; 36.5 ACRES±  
 PROPOSED WORK: DRILL  CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL  
 (SPECIFY) PLUG & ABANDON CLEAN OUT & REPLUG  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,800' TVD 18,600' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313