

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

API 47 - 051 - 02425 County MARSHALL District LIBERTY  
Quad 278-CAMERON Pad Name CHARLES JAMISON MSH PAD Field/Pool Name NORTH VICTORY WET  
Farm name SWN PRODUCTION COMPANY, LLC Well Number CHARLES JAMISON MSH 410H  
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC  
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,404,730.226 Easting 533,605.387  
Landing Point of Curve Northing 4,405,493.258 Easting 533,930.984  
Bottom Hole Northing 4,400,681.288 Easting 537,114.593

Elevation (ft) 1,337.3' 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)  
SOBM

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Date permit issued 1/21/2022 Date drilling commenced 3/11/2022 Date drilling ceased 4/12/2022  
Date completion activities began 7/30/2022 Date completion activities ceased 9/25/2022  
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

Freshwater depth(s) ft 322' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1'121' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 1,119' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**APPROVED**

Reviewed by:  
Sh  
01/04/23

API 47- 051 - 02425 Farm name SWN PRODUCTION COMPANY, LLC Well number CHARLES JAMISON MSH 410H

| 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                 | 24               | 20          | 136'   | NEW         | J-55/94#     |                 | Y; 34 BBLS  |
| Surface                   | 17.5             | 13.375      | 407    | NEW         | J-55/54.5#   |                 | Y; .5 BBLS  |
| Coal                      | SEE INTERMEDIATE |             |        |             |              |                 |   |
| Intermediate 1            | 12.25            | 9.625       | 2,828' | NEW         | J-55/36#     |                 | Y; 65 BBLS  |
| Intermediate 2            |                  |             |        |             |              |                 |   |
| Intermediate 3            |                  |             |        |             |              |                 |   |
| Production                | 8.75             | 5.5         | 27,375 | NEW         | P-110 HP/20# |                 | Y; 9 BBLS   |
| Tubing                    |                  |             |        |             |              |                 |   |
| Packer type and depth set |                  |             |        |             |              |                 |   |

Comment Details \_\_\_\_\_

| 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              | GROUT TO SURFACE |                 |                              |                           | SURFACE         | 24        |
| Surface        | CLASS A              | 415              | 15.6            | 1.19                         | 493.8                     | SURFACE         | 8         |
| Coal           | SEE INTERMEDIATE     |                  |                 |                              |                           |                 |           |
| Intermediate 1 | CLASS A              | 367/773          | 15.6/16.0       | 1.18/1.12                    | 43.06/865.76              | SURFACE         | 8         |
| Intermediate 2 |                      |                  |                 |                              |                           |                 |           |
| Intermediate 3 |                      |                  |                 |                              |                           |                 |           |
| Production     | CLASS A              | 4821             | 15.0            | 1.29                         | 6219.09                   | 2,400'          | 24        |
| Tubing         |                      |                  |                 |                              |                           |                 |           |

Drillers TD (ft) 27,375' Loggers TD (ft) 27,375'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) 27,282'  
 Plug back procedure N/A

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Kick off depth (ft) 6,247' TVD

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Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

SURFACE: 6 CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: 38 CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: 440 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

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 \_\_\_\_\_







## Hydraulic Fracturing Fluid Product Component Information Disclosure

|                                |                         |
|--------------------------------|-------------------------|
| Job Start Date:                | 7/30/2022               |
| Job End Date:                  | 9/24/2022               |
| State:                         | West Virginia           |
| County:                        | Marshall                |
| API Number:                    | 47-051-02425-00-00      |
| Operator Name:                 | Southwestern Energy     |
| Well Name and Number:          | CHARLES JAMISON MSH 410 |
| Latitude:                      | 39.79186385             |
| Longitude:                     | -80.60749816            |
| Datum:                         | NAD83                   |
| Federal Well:                  | NO                      |
| Indian Well:                   | NO                      |
| True Vertical Depth:           | 7,187                   |
| Total Base Water Volume (gal): | 33,270,622              |
| 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        |
|-------------|--------------|--------------|-------------|--|--|--|-----------------|
| Base Water  | Operator     | Base Fluid   |             |  |  |  |                 |
|             |              |              | Water       | 7732-18-5                                | 100.00000  | 90.52769   | Density = 8.345 |
| Ingredients | Listed Above | Listed Above |             |  |  |  |                 |
|             |              |              | Water       | 7732-18-5                                | 85.00000   | 0.26393  |                 |

|  |                   |                     |                            |              |           |         |  |
|--|-------------------|---------------------|----------------------------|--------------|-----------|---------|--|
|  |                   |                     | Water                      | 7732-18-5    | 45.00000  | 0.26393 |  |
|  |                   |                     | Water                      | 7732-18-5    | 100.00000 | 0.26393 |  |
| FSTI-CI-02   | SWN Well Services | Corrosion Inhibitor |                            |              |           |         |  |
|  |                   |                     |                            | Listed Below |           |         |  |
| Plexslick 930  | SWN Well Services | Friction Reducer    |                            |              |           |         |  |
|  |                   |                     |                            | Listed Below |           |         |  |
| Sand   | SWN Well Services | Proppant            |                            |              |           |         |  |
|  |                   |                     |                            | Listed Below |           |         |  |
| Ferriplex 80   | SWN Well Services | Iron Control        |                            |              |           |         |  |
|  |                   |                     |                            | Listed Below |           |         |  |
| HCL  | SWN Well Services | Solvent             |                            |              |           |         |  |
|  |                   |                     |                            | Listed Below |           |         |  |
| Plexaid 655NM  | SWN Well Services | Scale Inhibitor     |                            |              |           |         |  |
|  |                   |                     |                            | Listed Below |           |         |  |
| Tolicide 4Frac   | SWN Well Services | Biocide             |                            |              |           |         |  |
|  |                   |                     |                            | Listed Below |           |         |  |
| Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients. |                   |                     |                            |              |           |         |  |
|  |                   |                     | Crystalline Silica, quartz | 14808-60-7   | 100.00000 | 9.12729 |  |
|  |                   |                     | Hydrochloric Acid          | 7647-01-0    | 15.00000  | 0.03684 |  |

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|  |  |  |  |            |           |         |  |
|--|--|--|--|------------|-----------|---------|--|
|  |  |  | Tetrakis(Hydroxymethyl) Phosphonium Sulfate                      | 55566-30-8 | 45.00000  | 0.00515 |  |
|  |  |  | Sodium Erythorbate   | 6381-77-7  | 100.00000 | 0.00131 |  |
|  |  |  | Quaternary ammonium compounds                                    | 68424-85-1 | 7.50000   | 0.00086 |  |
|  |  |  | Ethanol  | 64-17-5    | 2.50000   | 0.00029 |  |
|  |  |  | Ethylene glycol  | 107-21-1   | 40.00000  | 0.00015 |  |
|  |  |  | Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy- | 9016-45-9  | 10.00000  | 0.00004 |  |
|  |  |  | Cinnamaldehyde   | 104-55-2   | 10.00000  | 0.00004 |  |
|  |  |  | N,N-Dimethylformamide  | 68-12-2    | 10.00000  | 0.00004 |  |
|  |  |  | benzyl chloridequaternized                                       | 72480-70-7 | 5.00000   | 0.00002 |  |
|  |  |  | 1-Decanol  | 112-30-1   | 5.00000   | 0.00002 |  |
|  |  |  | Isopropyl alcohol  | 67-63-0    | 5.00000   | 0.00002 |  |
|  |  |  | 1-Octanol  | 111-87-5   | 5.00000   | 0.00002 |  |
|  |  |  | Triethyl phosphate   | 78-40-0    | 5.00000   | 0.00002 |  |
|  |  |  | 2-Butoxyethanol  | 111-76-2   | 5.00000   | 0.00002 |  |

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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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Well Name:

Charles Jamison MSH 410H

47051024250000

| LITHOLOGY/FORMATION | TOP DEPTH, MD (FT) | TOP DEPTH, TVD (FT) | BOTTOM DEPTH, MD (FT) | BOTTOM DEPTH, TVD (FT) | QUANTITY AND TYPE OF FLUID |
|---------------------|--------------------|---------------------|-----------------------|------------------------|----------------------------|
| Base of Fresh Water | 0.00               | 0.00                | 322.00                | 322.00                 |                            |
| Top of Salt Water   | 1195.00            | 1195.00             | NA                    | NA                     |                            |
| Pittsburgh Coal     | 1087.00            | 1087.00             | 1096.00               | 1096.00                |                            |
| Pottsville (ss)     | 1195.00            | 1195.00             | 1213.00               | 1213.00                |                            |
| Raven Cliff (ss)    | 1640.00            | 1635.00             | 1783.00               | 1774.00                |                            |
| Maxton (ss)         | 2058.00            | 2038.00             | 2278.00               | 2246.00                |                            |
| Big Injun (ss)      | 2278.00            | 2246.00             | 2540.00               | 2484.00                |                            |
| Berea (siltstone)   | 2923.00            | 2834.00             | 7106.00               | 6426.00                |                            |
| Rhinestreet (shale) | 7106.00            | 6426.00             | 7523.00               | 6753.00                |                            |
| Middlesex (shale)   | 7706.00            | 6871.00             | 7868.00               | 6966.00                |                            |
| Burket (shale)      | 7868.00            | 6966.00             | 7914.00               | 6990.00                |                            |
| Tully (ls)          | 7914.00            | 6990.00             | 7966.00               | 7015.00                |                            |
| Mahantango (shale)  | 7966.00            | 7015.00             | 8267.00               | 7116.00                |                            |
| Marcellus (shale)   | 8267.00            | 7116.00             | NA                    | NA                     | GAS                        |

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**CHARLES JAMISON MSH 410H  
ATTACHMENT 1  
PERF REPORT**

| STAGE NUM | Perf Date | Perf Bottom MD | Perf Top MD2 | # SHOTS PER STG |
|-----------|-----------|----------------|--------------|-----------------|
| 1         | 7/30/2022 | 27,282         | 27,186       | 36              |
| 2         | 8/1/2022  | 27,152         | 26,973       | 36              |
| 3         | 8/5/2022  | 26,940         | 26,762       | 36              |
| 4         | 8/10/2022 | 26,728         | 26,550       | 36              |
| 5         | 8/12/2022 | 26,517         | 26,338       | 36              |
| 6         | 8/13/2022 | 26,315         | 26,303       | 36              |
| 7         | 8/16/2022 | 26,093         | 25,914       | 36              |
| 8         | 8/31/2022 | 25,881         | 25,703       | 36              |
| 9         | 9/1/2022  | 25,669         | 25,491       | 36              |
| 10        | 9/1/2022  | 25,457         | 25,279       | 36              |
| 11        | 9/2/2022  | 25,246         | 25,067       | 36              |
| 12        | 9/2/2022  | 25,034         | 24,855       | 36              |
| 13        | 9/3/2022  | 24,822         | 24,643       | 36              |
| 14        | 9/3/2022  | 24,610         | 24,432       | 36              |
| 15        | 9/3/2022  | 24,398         | 24,220       | 36              |
| 16        | 9/4/2022  | 24,187         | 24,008       | 36              |
| 17        | 9/4/2022  | 23,975         | 23,796       | 36              |
| 18        | 9/4/2022  | 23,763         | 23,584       | 36              |
| 19        | 9/5/2022  | 23,551         | 23,373       | 36              |
| 20        | 9/5/2022  | 23,339         | 23,161       | 36              |
| 21        | 9/5/2022  | 23,127         | 22,949       | 36              |
| 22        | 9/5/2022  | 22,916         | 22,737       | 36              |
| 23        | 9/6/2022  | 22,704         | 22,525       | 36              |
| 24        | 9/6/2022  | 22,492         | 22,313       | 36              |
| 25        | 9/6/2022  | 22,280         | 22,102       | 36              |
| 26        | 9/7/2022  | 22,068         | 21,890       | 36              |
| 27        | 9/7/2022  | 21,856         | 21,678       | 36              |
| 28        | 9/7/2022  | 21,645         | 21,466       | 36              |
| 29        | 9/7/2022  | 21,433         | 21,254       | 36              |
| 30        | 9/7/2022  | 21,221         | 21,043       | 36              |
| 31        | 9/8/2022  | 21,009         | 20,831       | 36              |
| 32        | 9/8/2022  | 20,797         | 20,619       | 36              |
| 33        | 9/8/2022  | 20,586         | 20,407       | 36              |
| 34        | 9/8/2022  | 20,374         | 20,195       | 36              |
| 35        | 9/9/2022  | 20,162         | 19,983       | 36              |
| 36        | 9/9/2022  | 19,950         | 19,772       | 36              |
| 37        | 9/10/2022 | 19,738         | 19,560       | 36              |
| 38        | 9/10/2022 | 19,526         | 19,348       | 36              |
| 39        | 9/10/2022 | 19,315         | 19,136       | 36              |
| 40        | 9/10/2022 | 19,103         | 18,924       | 36              |
| 41        | 9/10/2022 | 18,891         | 18,712       | 36              |
| 42        | 9/11/2022 | 18,679         | 18,501       | 36              |
| 43        | 9/11/2022 | 18,467         | 18,289       | 36              |

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PERF REPORT**

| STAGE NUM | Perf Date | Perf Bottom MD | Perf Top MD2 | # SHOTS PER STG |
|-----------|-----------|----------------|--------------|-----------------|
| 44        | 9/11/2022 | 18,256         | 18,077       | 36              |
| 45        | 9/11/2022 | 18,044         | 17,865       | 36              |
| 46        | 9/12/2022 | 17,832         | 17,653       | 36              |
| 47        | 9/12/2022 | 17,620         | 17,442       | 36              |
| 48        | 9/12/2022 | 17,408         | 17,230       | 36              |
| 49        | 9/12/2022 | 17,196         | 17,018       | 36              |
| 50        | 9/13/2022 | 16,985         | 16,806       | 36              |
| 51        | 9/13/2022 | 16,773         | 16,594       | 36              |
| 52        | 9/13/2022 | 16,561         | 16,382       | 36              |
| 53        | 9/13/2022 | 16,349         | 16,171       | 36              |
| 54        | 9/14/2022 | 16,137         | 15,959       | 36              |
| 55        | 9/14/2022 | 15,926         | 15,747       | 36              |
| 56        | 9/14/2022 | 15,714         | 15,535       | 36              |
| 57        | 9/14/2022 | 15,502         | 15,323       | 36              |
| 58        | 9/15/2022 | 15,290         | 15,112       | 36              |
| 59        | 9/15/2022 | 15,078         | 14,900       | 36              |
| 60        | 9/15/2022 | 14,866         | 14,688       | 36              |
| 61        | 9/15/2022 | 14,655         | 14,476       | 36              |
| 62        | 9/16/2022 | 14,443         | 14,264       | 36              |
| 63        | 9/16/2022 | 14,231         | 14,052       | 36              |
| 64        | 9/16/2022 | 14,019         | 13,841       | 36              |
| 65        | 9/17/2022 | 13,807         | 13,629       | 36              |
| 66        | 9/17/2022 | 13,596         | 13,417       | 36              |
| 67        | 9/17/2022 | 13,384         | 13,205       | 36              |
| 68        | 9/18/2022 | 13,172         | 12,993       | 36              |
| 69        | 9/18/2022 | 12,960         | 12,782       | 36              |
| 70        | 9/18/2022 | 12,748         | 12,570       | 36              |
| 71        | 9/19/2022 | 12,536         | 12,358       | 36              |
| 72        | 9/19/2022 | 12,325         | 12,146       | 36              |
| 73        | 9/19/2022 | 12,113         | 11,934       | 36              |
| 74        | 9/20/2022 | 11,901         | 11,722       | 36              |
| 75        | 9/20/2022 | 11,689         | 11,511       | 36              |
| 76        | 9/20/2022 | 11,477         | 11,299       | 36              |
| 77        | 9/20/2022 | 11,265         | 11,087       | 36              |
| 78        | 9/21/2022 | 11,054         | 10,875       | 36              |
| 79        | 9/21/2022 | 10,842         | 10,663       | 36              |
| 80        | 9/22/2022 | 10,630         | 10,452       | 36              |
| 81        | 9/22/2022 | 10,418         | 10,240       | 36              |
| 82        | 9/22/2022 | 10,206         | 10,028       | 36              |
| 83        | 9/22/2022 | 9,995          | 9,816        | 36              |
| 84        | 9/22/2022 | 9,783          | 9,604        | 36              |
| 85        | 9/23/2022 | 9,571          | 9,392        | 36              |
| 86        | 9/23/2022 | 9,359          | 9,181        | 36              |

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| STAGE NUM | Perf Date | Perf Bottom MD | Perf Top MD2 | # SHOTS PER STG |
|-----------|-----------|----------------|--------------|-----------------|
| 87        | 9/23/2022 | 9,147          | 8,969        | 36              |
| 88        | 9/24/2022 | 8,935          | 8,757        | 36              |
| 89        | 9/24/2022 | 8,724          | 8,545        | 36              |
| 90        | 9/24/2022 | 8,512          | 8,333        | 36              |

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CHARLES JAMISON MSH 410H

ATTACHMENT 2

STIM REPORT

| STAGE NUM | Stim Date | Ave Pump Rate (BPM) | Ave Treatment | Max Breakdown | ISIP (PSI) | Amount of Proppant (lbs) | Amount of water bbls | Amount of nitrogen/othe |
|-----------|-----------|---------------------|---------------|---------------|------------|--------------------------|----------------------|-------------------------|
| 1         | 7/30/2022 | 82.3                | 9,616         | 7,741         | 4,123      | 173,420                  | 5,985                | 0                       |
| 2         | 8/3/2022  | 78.9                | 9,232         | 6,701         | 4,912      | 310,940                  | 11,359               | 0                       |
| 3         | 8/9/2022  | 93.6                | 9,972         | 6,595         | 5,237      | 309,550                  | 10,912               | 0                       |
| 4         | 8/11/2022 | 83.1                | 9,278         | 6,566         | 5,543      | 313,620                  | 11,768               | 0                       |
| 5         | 8/13/2022 | 86.3                | 9,286         | 6,423         | 6,377      | 314,760                  | 11,096               | 0                       |
| 6         | 8/14/2022 | 81.7                | 9,114         | 7,302         | 5,851      | 311,850                  | 13,887               | 0                       |
| 7         | 8/31/2022 | 78.2                | 8,906         | 7,526         | 5,507      | 309,390                  | 9,497                | 0                       |
| 8         | 9/1/2022  | 77.7                | 8,653         | 6,988         | 5,227      | 317,350                  | 10,237               | 0                       |
| 9         | 9/1/2022  | 88.9                | 9,661         | 6,629         | 4,855      | 313,410                  | 8,544                | 0                       |
| 10        | 9/2/2022  | 81                  | 8,904         | 6,068         | 4,511      | 313,440                  | 9,682                | 0                       |
| 11        | 9/2/2022  | 66                  | 9,126         | 5,815         | 5,714      | 315,680                  | 8,804                | 0                       |
| 12        | 9/2/2022  | 81                  | 8,949         | 6,863         | 5,091      | 316,590                  | 8,942                | 0                       |
| 13        | 9/3/2022  | 94.1                | 9,660         | 6,673         | 5,914      | 315,250                  | 9,535                | 0                       |
| 14        | 9/3/2022  | 92.6                | 9,786         | 6,336         | 5,460      | 308,880                  | 9,330                | 0                       |
| 15        | 9/3/2022  | 83.6                | 9,211         | 5,914         | 5,256      | 316,880                  | 11,775               | 0                       |
| 16        | 9/4/2022  | 85.8                | 9,046         | 7,221         | 5,362      | 311,460                  | 9,168                | 0                       |
| 17        | 9/4/2022  | 93.4                | 9,638         | 7,449         | 4,672      | 319,290                  | 9,462                | 0                       |
| 18        | 9/5/2022  | 83.2                | 8,895         | 6,871         | 4,852      | 310,470                  | 9,302                | 0                       |
| 19        | 9/5/2022  | 76.5                | 8,613         | 7,376         | 4,899      | 309,360                  | 9,038                | 0                       |
| 20        | 9/5/2022  | 84.8                | 9,390         | 7,522         | 4,808      | 311,570                  | 8,567                | 0                       |
| 21        | 9/5/2022  | 88.3                | 9,400         | 6,964         | 4,858      | 314,820                  | 9,402                | 0                       |
| 22        | 9/6/2022  | 91.8                | 9,342         | 6,566         | 5,186      | 310,130                  | 9,300                | 0                       |
| 23        | 9/6/2022  | 87.7                | 9,073         | 6,414         | 5,571      | 306,450                  | 9,023                | 0                       |
| 24        | 9/6/2022  | 84.9                | 9,582         | 5,507         | 5,633      | 304,050                  | 8,707                | 0                       |
| 25        | 9/6/2022  | 90.3                | 9,262         | 6,181         | 5,165      | 311,700                  | 9,329                | 0                       |
| 26        | 9/7/2022  | 84.2                | 9,084         | 6,543         | 4,930      | 312,750                  | 9,303                | 0                       |
| 27        | 9/7/2022  | 84.9                | 9,430         | 6,360         | 6,003      | 309,670                  | 8,841                | 0                       |
| 28        | 9/7/2022  | 93.5                | 9,613         | 7,022         | 5,224      | 308,270                  | 8,638                | 0                       |
| 29        | 9/7/2022  | 89.9                | 9,230         | 7,380         | 4,487      | 307,860                  | 9,050                | 0                       |
| 30        | 9/7/2022  | 88.6                | 8,853         | 6,489         | 4,882      | 309,810                  | 9,210                | 0                       |
| 31        | 9/8/2022  | 80.2                | 8,766         | 7,719         | 4,860      | 314,120                  | 9,091                | 0                       |
| 32        | 9/8/2022  | 86.6                | 8,993         | 5,822         | 5,147      | 312,680                  | 8,900                | 0                       |
| 33        | 9/8/2022  | 90.1                | 8,791         | 5,445         | 4,710      | 304,590                  | 8,858                | 0                       |
| 34        | 9/8/2022  | 92                  | 9,138         | 6,267         | 4,586      | 312,190                  | 8,979                | 0                       |
| 35        | 9/9/2022  | 93                  | 8,860         | 6,450         | 5,071      | 312,660                  | 8,762                | 0                       |
| 36        | 9/9/2022  | 85.4                | 8,312         | 5,916         | 5,774      | 321,660                  | 11,842               | 0                       |
| 37        | 9/10/2022 | 86.4                | 8,480         | 5,909         | 5,017      | 311,210                  | 9,184                | 0                       |
| 38        | 9/10/2022 | 87.2                | 8,798         | 6,447         | 4,897      | 312,160                  | 8,716                | 0                       |
| 39        | 9/10/2022 | 86.7                | 8,475         | 5,237         | 5,246      | 307,760                  | 9,023                | 0                       |
| 40        | 9/10/2022 | 85.3                | 8,150         | 6,344         | 5,218      | 311,180                  | 8,879                | 0                       |
| 41        | 9/11/2022 | 86.9                | 8,570         | 5,907         | 5,319      | 312,360                  | 8,881                | 0                       |
| 42        | 9/11/2022 | 93.2                | 8,896         | 6,870         | 5,024      | 312,000                  | 8,456                | 0                       |
| 43        | 9/11/2022 | 90.3                | 8,904         | 5,410         | 5,359      | 313,900                  | 8,753                | 0                       |
| 44        | 9/11/2022 | 88.4                | 8,614         | 7,144         | 4,673      | 318,760                  | 9,226                | 0                       |
| 45        | 9/12/2022 | 97.8                | 9,058         | 6,078         | 5,016      | 311,010                  | 8,766                | 0                       |
| 46        | 9/12/2022 | 91.9                | 8,394         | 5,233         | 5,836      | 311,110                  | 8,703                | 0                       |
| 47        | 9/12/2022 | 90.1                | 8,478         | 6,882         | 5,102      | 310,800                  | 8,829                | 0                       |
| 48        | 9/12/2022 | 98.1                | 8,816         | 6,550         | 5,233      | 308,010                  | 8,778                | 0                       |
| 49        | 9/13/2022 | 95.6                | 8,642         | 6,654         | 4,736      | 315,970                  | 8,912                | 0                       |
| 50        | 9/13/2022 | 87.3                | 8,042         | 5,446         | 6,009      | 312,340                  | 8,602                | 0                       |
| 51        | 9/13/2022 | 94.6                | 8,506         | 6,919         | 5,225      | 313,060                  | 8,560                | 0                       |
| 52        | 9/13/2022 | 91.7                | 8,170         | 6,119         | 4,874      | 312,580                  | 8,915                | 0                       |
| 53        | 9/13/2022 | 95.3                | 8,158         | 5,536         | 4,733      | 312,490                  | 8,641                | 0                       |

Oil, Gas, and Geothermal  
 DEC 15 2022  
 WV Dept of Environmental Protection



CHARLES JAMISON MSH 410H

ATTACHMENT 2

STIM REPORT

| STAGE NUM | Stim Date | Ave Pump Rate (BPM) | Ave Treatment | Max Breakdown | ISIP (PSI) | Amount of Proppant (lbs) | Amount of water bbls | Amount of nitrogen/othe |
|-----------|-----------|---------------------|---------------|---------------|------------|--------------------------|----------------------|-------------------------|
| 54        | 9/14/2022 | 99                  | 8,524         | 5,857         | 5,721      | 309,810                  | 8,844                | 0                       |
| 55        | 9/14/2022 | 99                  | 8,368         | 6,769         | 5,405      | 309,930                  | 8,556                | 0                       |
| 56        | 9/14/2022 | 99                  | 8,466         | 5,394         | 6,018      | 314,220                  | 8,217                | 0                       |
| 57        | 9/14/2022 | 94.6                | 8,241         | 6,895         | 5,835      | 311,490                  | 8,692                | 0                       |
| 58        | 9/15/2022 | 98.6                | 8,500         | 6,509         | 5,230      | 311,910                  | 8,854                | 0                       |
| 59        | 9/15/2022 | 98.7                | 8,482         | 5,453         | 5,960      | 314,550                  | 8,701                | 0                       |
| 60        | 9/15/2022 | 90.3                | 7,818         | 6,734         | 5,978      | 312,770                  | 9,782                | 0                       |
| 61        | 9/16/2022 | 97.3                | 8,635         | 7,097         | 5,955      | 316,170                  | 8,763                | 0                       |
| 62        | 9/16/2022 | 92.2                | 7,993         | 6,652         | 6,008      | 314,920                  | 8,505                | 0                       |
| 63        | 9/16/2022 | 98.9                | 8,194         | 5,072         | 5,783      | 311,130                  | 8,707                | 0                       |
| 64        | 9/17/2022 | 88.8                | 7,952         | 6,809         | 5,726      | 320,820                  | 8,356                | 0                       |
| 65        | 9/17/2022 | 82.5                | 7,480         | 6,896         | 5,602      | 316,140                  | 8,744                | 0                       |
| 66        | 9/17/2022 | 73                  | 6,428         | 6,122         | 5,490      | 308,520                  | 9,833                | 0                       |
| 67        | 9/18/2022 | 98.4                | 8,188         | 6,394         | 5,889      | 314,700                  | 7,732                | 0                       |
| 68        | 9/18/2022 | 94.6                | 8,140         | 5,955         | 5,518      | 314,090                  | 7,666                | 0                       |
| 69        | 9/18/2022 | 94.6                | 7,867         | 6,905         | 5,811      | 312,750                  | 7,720                | 0                       |
| 70        | 9/19/2022 | 98.9                | 8,295         | 5,547         | 5,236      | 312,798                  | 7,946                | 0                       |
| 71        | 9/19/2022 | 99.1                | 8,289         | 7,099         | 5,855      | 318,340                  | 8,543                | 0                       |
| 72        | 9/19/2022 | 96                  | 7,895         | 7,008         | 5,883      | 308,790                  | 7,634                | 0                       |
| 73        | 9/19/2022 | 96                  | 8,067         | 7,259         | 5,648      | 307,150                  | 7,605                | 0                       |
| 74        | 9/20/2022 | 94.7                | 7,865         | 6,286         | 5,337      | 313,010                  | 7,501                | 0                       |
| 75        | 9/20/2022 | 92.1                | 7,857         | 7,088         | 5,455      | 315,300                  | 7,755                | 0                       |
| 76        | 9/20/2022 | 99.5                | 7,958         | 6,131         | 5,288      | 309,600                  | 7,421                | 0                       |
| 77        | 9/21/2022 | 96.3                | 8,152         | 6,941         | 5,314      | 311,960                  | 7,354                | 0                       |
| 78        | 9/21/2022 | 85.4                | 7,414         | 6,836         | 6,351      | 307,600                  | 7,022                | 0                       |
| 79        | 9/21/2022 | 92                  | 8,072         | 7,132         | 5,804      | 312,900                  | 7,633                | 0                       |
| 80        | 9/22/2022 | 92.2                | 7,953         | 6,240         | 5,423      | 319,560                  | 9,825                | 0                       |
| 81        | 9/22/2022 | 97.9                | 7,976         | 6,184         | 5,645      | 316,400                  | 7,583                | 0                       |
| 82        | 9/22/2022 | 96                  | 7,918         | 6,231         | 5,912      | 317,970                  | 7,818                | 0                       |
| 83        | 9/22/2022 | 83.5                | 7,301         | 7,693         | 5,144      | 315,450                  | 7,079                | 0                       |
| 84        | 9/23/2022 | 93.3                | 7,628         | 7,535         | 5,663      | 310,870                  | 7,850                | 0                       |
| 85        | 9/23/2022 | 99                  | 7,664         | 6,755         | 5,862      | 311,980                  | 7,532                | 0                       |
| 86        | 9/23/2022 | 98                  | 7,526         | 6,537         | 5,780      | 310,500                  | 7,519                | 0                       |
| 87        | 9/24/2022 | 99.5                | 7,833         | 6,675         | 5,123      | 311,130                  | 7,358                | 0                       |
| 88        | 9/24/2022 | 98.7                | 7,716         | 5,680         | 5,264      | 313,710                  | 7,596                | 0                       |
| 89        | 9/24/2022 | 98.6                | 7,870         | 6,983         | 5,565      | 317,140                  | 7,491                | 0                       |
| 90        | 9/24/2022 | 99.5                | 7,815         | 7,149         | 6,050      | 313,510                  | 7,516                | 0                       |

RECEIVED  
Office of Oil and Gas  
DEC 15 2022  
Department of Environmental Protection



Latitude: 39°50'00" (SHL)

SURFACE HOLE 6,790'

BOTTOM HOLE 7,050'

Latitude: 39°47'30" (BHL)



CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
120 GENESIS BOULEVARD
BRIDGEPORT, WV 26330
304-933-3119

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

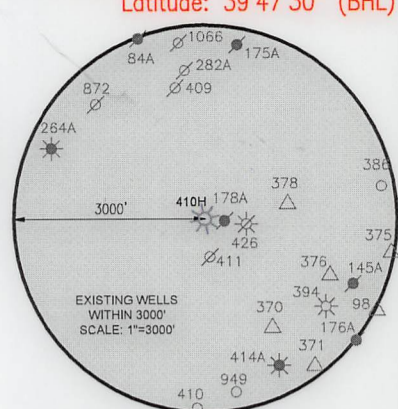
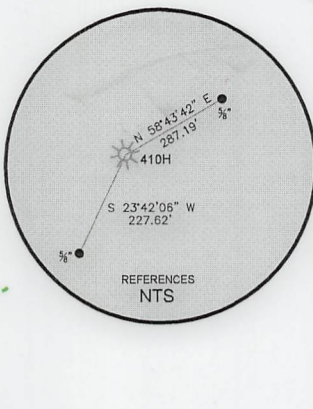
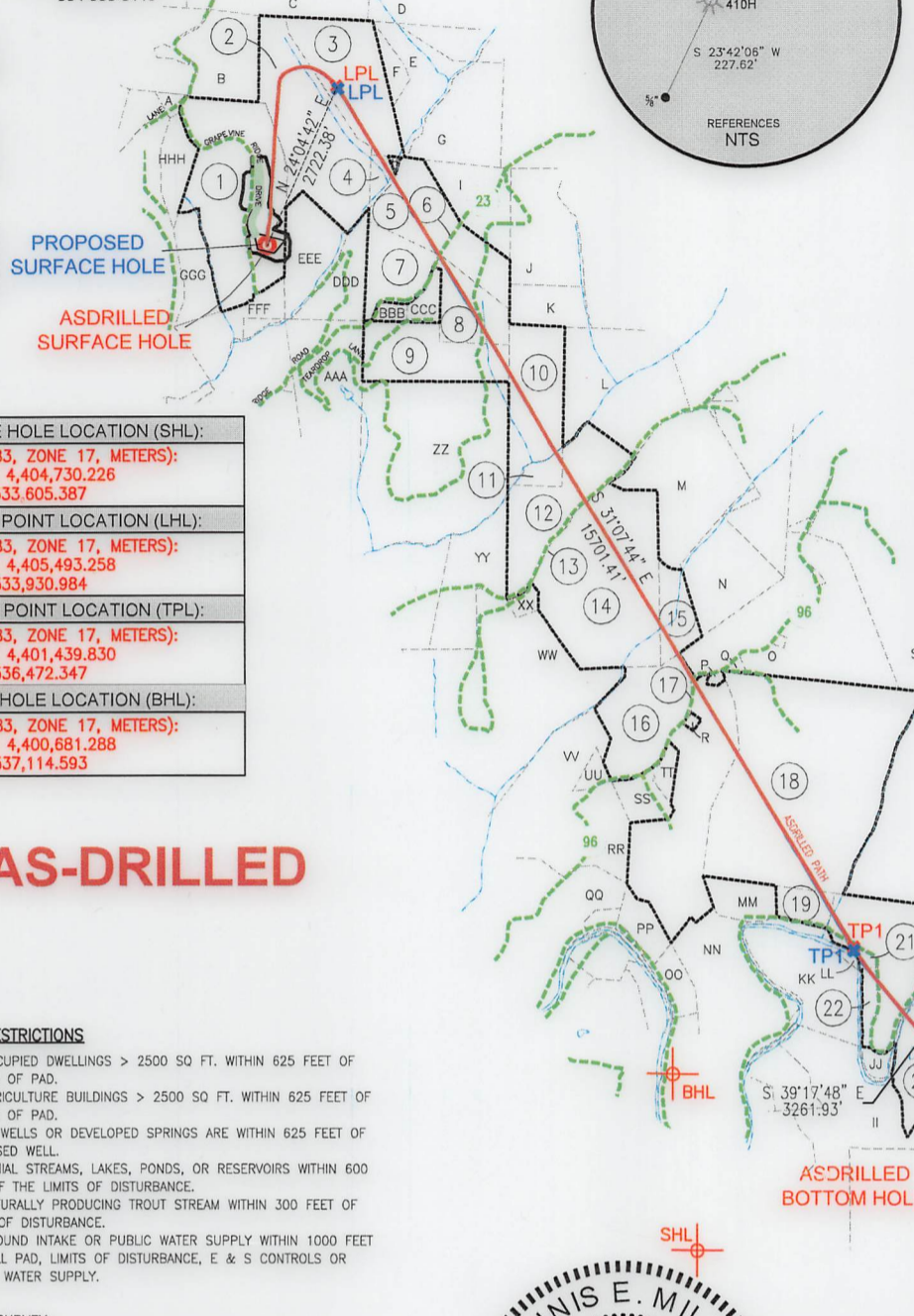


Table with 4 rows: PERMIT SURFACE HOLE LOCATION (SHL), PERMIT LANDING POINT LOCATION (LHL), PERMIT TURNING POINT LOCATION (TPL), PERMIT BOTTOM HOLE LOCATION (BHL). Each row includes UTM coordinates (Northings and Eastings).

Table with 4 rows: SURFACE HOLE LOCATION (SHL), LANDING POINT LOCATION (LHL), TURNING POINT LOCATION (TPL), BOTTOM HOLE LOCATION (BHL). Each row includes UTM coordinates (Northings and Eastings).

AS-DRILLED

WELL RESTRICTIONS

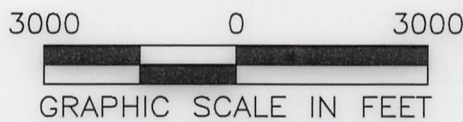
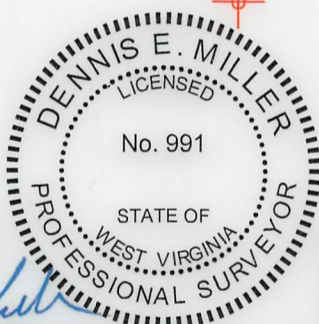
- 1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 625 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 600 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

- 1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 991



Vertical text on the right side: SURFACE HOLE 15,106', BOTTOM HOLE 13,270', Longitude: 80°32'30" (BHL), Longitude: 80°35'00" (SHL)



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

COMPANY: SWN Production Company, LLC
CHARLES JAMISON MSH
OPERATOR'S WELL #: 410H

API WELL #: 47 051 02425
STATE COUNTY PERMIT

WELL TYPE: OIL [ ] WASTE DISPOSAL [ ] PRODUCTION [x] DEEP [ ] GAS [x] LIQUID INJECTION [ ] STORAGE [ ] SHALLOW [x]
WATERSHED: MAGGOTY RUN
DISTRICT: LIBERTY DISTRICT COUNTY: MARSHALL
SURFACE OWNER: CHARLES AND JEAN JAMISON
OIL & GAS ROYALTY OWNER: CHARLES AND JEAN JAMISON
DRILL [ ] DRILL DEEPER [ ] REDRILL [ ] FRACTURE OR STIMULATE [ ] PLUG OFF OLD FORMATION [ ] PERFORATE NEW FORMATION [ ]
CONVERT [ ] PLUG & ABANDON [ ] CLEAN OUT & REPLUG [ ] OTHER CHANGE [x] (SPECIFY) ASDRILLED
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,383.77 TVD 27,375.00 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: 1300 FORT PIERPONT DRIVE, STE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, STE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:
PROPOSED SURFACE HOLE / BOTTOM HOLE (Red circle)
EXISTING / PRODUCING WELLHEAD (Star)
LPL LANDING POINT LOCATION (Blue star)
EXISTING WATER WELL (Blue circle)
EXISTING SPRING (Blue circle)
SURVEYED BOUNDARY (Dashed line)
DRILLING UNIT (Blue line)
LEASE BOUNDARY (Dotted line)
ASDRILLED PATH (Red line)
PROPOSED PATH (Blue line)

REVISIONS:
DATE: 8-05-2022
DRAWN BY: K.E.S.
SCALE: 1" = 3000'
DRAWING NO: 170-426
WELL LOCATION PLAT





CIVIL & ENVIRONMENTAL CONSULTANTS, INC.  
 120 GENESIS BOULEVARD  
 BRIDGEPORT, WV 26330  
 304-933-3119

| WELL BORE TABLE FOR SURFACE OWNERS |   |               |
|------------------------------------|---|---------------|
| TRACT                              | SURFACE OWNER   | TAX PARCEL    |
| 1                                  | CHARLES AND JEAN JAMISON                              | 07-007-0006   |
| 2                                  | KENNETH WAYNE STEELE REVOCABLE LIVING TRUST AGREEMENT | 07-007-0011   |
| 3                                  | ANTHONY M. SKRYPEK                                    | 07-007-0010   |
| 4                                  | GAIL L. ZWICK - LIFE                                  | 07-006-0008   |
| 5                                  | CNX LAND, LLC   | 07-006-0010   |
| 6                                  | CO. RT. 23 ROW (CAMERON RIDGE ROAD)                   |               |
| 7                                  | GAIL L. ZWICK - LIFE                                  | 07-006-0012.1 |
| 8                                  | CNX LAND, LLC   | 07-006-0012   |
| 9                                  | ROBIN E. AND DONALD QUIGLEY                           | 07-010-0020   |
| 10                                 | ROBIN E. AND DONALD QUIGLEY                           | 07-011-0001   |
| 11                                 | CNX LAND, LLC   | 07-011-0002   |
| 12                                 | CNX LAND, LLC   | 07-011-0003   |
| 13                                 | FISH RIDGE ROAD ROW                                   |               |
| 14                                 | SCOTT C. MARLING AND JESSICA L. PARRY                 | 07-011-0004   |
| 15                                 | ELLEN MARIE QUIGLEY                                   | 07-011-0005   |
| 16                                 | ELLEN MARIE QUIGLEY                                   | 07-016-0036   |
| 17                                 | CO. RT. 96 ROW  |               |
| 18                                 | HINKLE FAMILY TRUST                                   | 07-015-0001   |
| 19                                 | HINKLE FAMILY TRUST                                   | 07-015-0019   |
| 20                                 | DAVID W. JR. AND MELANIE A. HUMMEL                    | 07-015-0017   |
| 21                                 | WILLIAM H. AND GAIL K. PORTER                         | 07-015-0017.2 |
| 22                                 | WILLIAM H. AND GAIL K. PORTER                         | 07-015-0017.1 |
| 23                                 | MOUNTAIN VIEW REALTY LLC                              | 07-020-0025   |
| 24                                 | MOUNTAIN VIEW REALTY LLC                              | 07-015-0014   |
| 25                                 | AMMON A. BURLEY, ET UX                                | 07-020-0026   |

| ADJOINING OWNERS TABLE |   |               |
|------------------------|---|---------------|
| TRACT                  | SURFACE OWNER   | TAX PARCEL    |
| A                      | MARSHALL COUNTY COAL RESOURCES INC.   | 07-007-0007   |
| B                      | KENNETH WAYNE STEELE REVOCABLE LIVING TRUST AGREEMENT   | 07-007-0008.1 |
| C                      | JEAN JAMISON  | 07-007-0009.1 |
| D                      | ANTHONY M. SKRYPEK  | 07-006-0002   |
| E                      | ANTHONY M. SKRYPEK  | 07-006-0005   |
| F                      | ANTHONY M. SKRYPEK  | 07-006-0004   |
| G                      | CNX LAND, LLC   | 07-006-0006   |
| H                      | GAIL L. ZWICK - LIFE  | 07-006-0007   |
| I                      | CNX LAND, LLC   | 07-006-0009   |
| J                      | MARVIN AND SHIRLEY BYARD  | 07-006-0013   |
| K                      | MARVIN AND SHIRLEY BYARD  | 07-006-0014   |
| L                      | CNX LAND, LLC   | 07-011-0008   |
| M                      | DOUGLAS AND DEANA MCCOMBS   | 07-011-0007   |
| N                      | AMANDA MARIE LINDSEY, ANDREW DAVID MCCURDY AND TIMOTHY S. MCCURDY   | 07-011-0006   |
| O                      | ELLEN MARIE QUIGLEY AND DIANA MATHEWS   | 07-011-0017   |
| P                      | ANDREW MCCURDY, ET UX   | 07-016-0036.2 |
| Q                      | ANDREW DAVID MCCURDY  | 07-011-0017.1 |
| R                      | ELLEN MARIE QUIGLEY   | 07-016-0036.1 |
| S                      | DONALD MACK QUIGLEY, ET UX  | 07-011-0018   |
| T                      | DOUGLAS R. AND REBECCA J. MCCOMBS   | 07-011-0019   |
| U                      | DAVID W. HUMMEL JR. AND MELANIE A. HUMMEL   | 07-015-0001.1 |
| V                      | DAVID W. HUMMEL JR. AND MELANIE A. HUMMEL   | 07-015-0002   |
| W                      | CODY MILLER   | 07-015-0012   |
| X                      | TREVOR L. NEELY   | 07-015-0012.1 |
| Y                      | MOUNTAIN VIEW REALTY, LLC.  | 07-015-0015   |
| Z                      | MOUNTAIN VIEW REALTY, LLC.  | 07-015-0016   |
| AA                     | JANEEN L. CZOLBA  | 07-015-0014.1 |
| BB                     | BEAU V. MARTIN AND AMELIA D. YOUNG  | 07-015-0015.1 |
| CC                     | VICTOR J. SEIFERT, ET UX - DARRELL H. II AND VICKI A. MCNEELY   | 07-020-0027   |
| DD                     | SEAN D. AND DEBBIE L. HALL  | 07-020-0028   |
| EE                     | RICARDO S. GREGG, ET UX   | 07-020-0032   |
| FF                     | MONTANA SKY LLC   | 07-020-0032.1 |
| GG                     | DENNIS DEAN HALL, ET UX   | 07-020-0035   |
| HH                     | AMMON A. BURLEY   | 07-020-0037   |
| II                     | AMMON A. BURLEY   | 07-020-0024   |
| JJ                     | WILLIAM H. AND GAIL K. PORTER   | 07-015-0017.3 |
| KK                     | CYNTHIA ANTILL, JOANNE M. HATZELL, CLAUDE R. STEPHENS, JR. AND EDWARD K. STEPHENS                           | 07-020-0023   |
| LL                     | HAROLD LEROY DOTY JR.   | 07-015-0018   |
| MM                     | DANIEL W. DEVER, DAVID S. DEVER, GREGORY T. DEVER, JOHN A. DEVER, LAWRENCE A. DEVER AND DEBORAH KAY KINCAID | 07-020-0022   |
| NN                     | FRANCES IRENE ALLEN, ET AL  | 07-020-0021   |
| OO                     | JOHN E. RIGGS, ET UX  | 07-016-0044   |
| PP                     | BARBARA R. ARDENO, ET AL  | 07-016-0037   |
| QQ                     | JOHN MATTHEW BUTLER   | 07-016-0039   |
| RR                     | DAVID L. ELSON, ET UX   | 07-016-0034   |
| SS                     | TERRY A. AND DONNA L. BONAR   | 07-016-0035   |
| TT                     | STEPHANIE L. WHITE  | 07-016-0036.3 |
| UU                     | DAVID L. ELSON, ET UX   | 07-016-0032   |
| VV                     | ELLEN MARIE QUIGLEY   | 07-016-0033   |
| WW                     | RUSSELL ALLEN JR. AND JODI D. DOTSON  | 07-016-0031   |
| XX                     | RYAN HILL   | 07-016-0031.1 |
| YY                     | MICHAEL KNOWLTON  | 07-010-0025   |
| ZZ                     | JAN CAROL DOBBS, TRUSTEE OF THE G AND JAN DOBBS FAMILY TRUST AND ERIC SCOTT DOBBS                           | 07-010-0021   |
| AAA                    | MARSHALL COUNTY COAL RESOURCES INC.   | 07-010-0019   |
| BBB                    | DONALD W. AND MARTHA J. KENNEDY   | 07-006-0011.1 |
| CCC                    | STEPHEN L. AND PAMELA SCOTT   | 07-006-0011   |
| DDD                    | GAIL L. ZWICK - LIFE  | 07-007-0014   |
| EEE                    | GAIL L. ZWICK - LIFE  | 07-007-0012   |
| FFF                    | TIMOTHY R. CAIN   | 07-007-0006.1 |
| GGG                    | TIMOTHY R. CAIN   | 07-007-0006.2 |
| HHH                    | MARSHALL COUNTY COAL RESOURCES INC.   | 07-007-0006.3 |

**AS-DRILLED**

API WELL #: **47** **051** **02425**  
 STATE COUNTY PERMIT

|            |                  |          |                      |
|------------|------------------|----------|----------------------|
| REVISIONS: | COMPANY:         |          |                      |
|            |                  |          |                      |
|            | OPERATOR'S       |          | DATE: 8-05-2022      |
|            | WELL #:          |          | DRAWN BY: K.E.S.     |
|            | DISTRICT:        | COUNTY:  | SCALE: N/A           |
|            | LIBERTY DISTRICT | MARSHALL | DRAWING NO: 170-426  |
|            |                  | STATE:   | WELL LOCATION PLAT 2 |
|            |                  | WV       |                      |