

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

API 47 - 095 - 02623 County Tyler District McElroy  
Quad Shirley 7.5 Pad Name Doc Field/Pool Name \_\_\_\_\_  
Farm name Francis W. Tennant Sr. & Randy W. Tustin Well Number 5  
Operator (as registered with the OOG) Jay Bee Oil and Gas, Inc  
Address 16 South Avenue West, Ste 118 City Cranford State NJ Zip 07016

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4366657.63 Easting 519938.72  
Landing Point of Curve Northing 4366870.12 Easting 520309.59  
Bottom Hole Northing 4366011.83 Easting 521341.72

Elevation (ft) 1,039.9' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)  
Synthetic Based Mud (SOBM), K-49 (Base Oil), Barite, Anco Mul P, Anco Mul S, Anco Mul OW, Anco Mul XL, Anco Mul Mod  
Anco Mul OW, Claytone 3, Lime, Calcium Chloride Powder, Phalt S, Mica, Cal-Carb

Date permit issued 07/9/2019 Date drilling commenced 11/1/2019 Date drilling ceased 12/4/2021  
Date completion activities began 3/6/2022 Date completion activities ceased 4/4/2022  
Verbal plugging (Y/N) NA Date permission granted NA Granted by NA

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

Freshwater depth(s) ft 60-90' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N  
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
SM 10/17/2023  
11/23/22

API 47- 095 - 02623 Farm name Francis W. Tennant Sr. & Randy W. Tustin Well number 5

| 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        | 18.625      | 30     | N           |             | NA              | Y  |
| Surface                   | 17.5      | 13.375      | 336    | N           | 48#/H40     | 50              | Y  |
| Coal                      |           |             |        |             |             |                 |  |
| Intermediate 1            | 11        | 8.625       | 2,251  | N           | 24#/J55     | 100'/2200'      | Y  |
| Intermediate 2            |           |             |        |             |             |                 |  |
| Intermediate 3            |           |             |        |             |             |                 |  |
| Production                | 7.875     | 5-1/2       | 11,716 | N           | 20#/P110    | NA              | NO. (per design to 300')                               |
| 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, 2%CaCl, 1/4 flake     |                 |                 |                              |                           | SURFACE         | 8         |
| Surface        | Class A, 2%CaCl, 1/4 flake     | 241             | 15.60           | 1.1966                       | 289                       | SURFACE         | 8         |
| Coal           |                                |                 |                 |                              |                           |                 |           |
| Intermediate 1 | Class A, 2%CaCl                | 696             | 15.6            | 1.18                         | 819                       | SURFACE         | 8         |
| Intermediate 2 |                                |                 |                 |                              |                           |                 |           |
| Intermediate 3 |                                |                 |                 |                              |                           |                 |           |
| Production     | CLASS A, FLY ASH, MPA-170, R-3 | 1756            | 14.50           | 1.17                         | 2077                      | 300'            | 8         |
| Tubing         |                                |                 |                 |                              |                           |                 |           |

Drillers TD (ft) 11,716 MD      Loggers TD (ft) 11,716  
 Deepest formation penetrated MARCELLUS      Plug back to (ft) NA  
 Plug back procedure NA

Kick off depth (ft) 6,340'

Check all wireline logs run     caliper     density     deviated/directional     induction  
     neutron     resistivity     gamma ray     temperature     sonic **RECEIVED**  
    **Office of Oil and Gas**

Well cored     Yes     No      Conventional      Sidewall      Were cuttings collected     Yes     No      **AUG 23 2022**

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_ **WV Department of Environmental Protection**  
5-1/2": Vertical Hole: bow spring every 500'. Horizontal: every 42' spiral centralizer. Curve: every 84' spiral centralizer  
 8-5/8": Bow Spring every 375'  
 13-3/8": Bow Spring every joint

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 \_\_\_\_\_

03/17/2023

*Sm*

API 47- 095 - 02623

Farm name Francis W. Tennant Sr. & Randy W. Tustin

Well number DOC 5

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
| 1         | 3-6-22           | 11612                  | 11482                | 72                     | MARCELLUS    |
| 2         | 3-6-22           | 11440                  | 11334                | 72                     | MARCELLUS    |
| 3         | 3-6-22           | 11292                  | 11124                | 72                     | MARCELLUS    |
| 4         | 3-7-22           | 11082                  | 10944                | 72                     | MARCELLUS    |
| 5         | 3-7-22           | 10900                  | 10762                | 72                     | MARCELLUS    |
| 6         | 3-8-22           | 10714                  | 10558                | 72                     | MARCELLUS    |
| 7         | 3-9-22           | 10521                  | 10382                | 72                     | MARCELLUS    |
| 8         | 3-9-22           | 10318                  | 10189                | 72                     | MARCELLUS    |
| 9         | 3-10-2           | 10126                  | 10006                | 72                     | MARCELLUS    |
| 10        | 3-10-22          | 9958                   | 9837                 | 72                     | MARCELLUS    |
| 11        | 3-11-22          | 9794                   | 9665                 | 72                     | MARCELLUS    |
| 12        | 3-11-22          | 9608                   | 9462                 | 72                     | MARCELLUS    |
| 13        | 3-13-22          | 9416                   | 9266                 | 72                     | MARCELLUS    |
| 14        | 3-13-22          | 9226                   | 9094                 | 72                     | MARCELLUS    |
| 15        | 3-14-22          | 9057                   | 8912                 | 72                     | MARCELLUS    |
| 16        | 3-15-22          | 8876                   | 8736                 | 72                     | MARCELLUS    |

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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Complete a separate record for each stimulation stage.

WV Department of  
Environmental Protection

| 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) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| 1         | 3-6-22            | 70.1                | 6542                         | N/A                          | 4681       | 202481                   | 9102                   | N/A                              |
| 2         | 3-6-22            | 70.8                | 6936                         | 5658                         | 4478       | 259111                   | 8654                   | N/A                              |
| 3         | 3-7-22            | 69.5                | 6385                         | 6037                         | 4469       | 260103                   | 9286                   | N/A                              |
| 4         | 3-7-22            | 70.9                | 6817                         | 5693                         | 4034       | 259220                   | 8346                   | N/A                              |
| 5         | 3-8-22            | 68.5                | 6573                         | 5781                         | 4629       | 261739                   | 9147                   | N/A                              |
| 6         | 3-8-22            | 70.3                | 6431                         | 5739                         | 4930       | 260489                   | 8593                   | N/A                              |
| 7         | 3-9-22            | 70.8                | 6552                         | 5629                         | 4739       | 259777                   | 8194                   | N/A                              |
| 8         | 3-9-22            | 70.8                | 6410                         | 5987                         | 5333       | 262671                   | 8603                   | N/A                              |
| 9         | 3-10-22           | 70.6                | 6131                         | 5382                         | 5242       | 262290                   | 8690                   | N/A                              |
| 10        | 3-10-22           | 71.2                | 6242                         | 5724                         | 5144       | 259868                   | 8188                   | N/A                              |
| 11        | 3-11-22           | 71.1                | 6264                         | 5515                         | 4860       | 261023                   | 8538                   | N/A                              |
| 12        | 3-12-22           | 71.1                | 6235                         | 5997                         | 4248       | 262046                   | 8175                   | N/A                              |
| 13        | 3-13-22           | 71.3                | 6331                         | 5763                         | 4278       | 260007                   | 8119                   | N/A                              |
| 14        | 3-14-22           | 71                  | 6423                         | 5737                         | 4220       | 259976                   | 8132                   | N/A                              |
| 15        | 3-14-22           | 70.8                | 6469                         | 5852                         | 3881       | 248458                   | 8574                   | N/A                              |
| 16        | 3-15-22           | 71.3                | 6096                         | 6278                         | 4008       | 259981                   | 8092                   | N/A                              |

Please insert additional pages as applicable.

03/17/2023  
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API 47- 095 - 02623

Farm name Francis W. Tennant Sr. & Randy W. Tustin

Well number DOC 5

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|-----------|------------------|------------------------|----------------------|------------------------|--------------|
| 17        | 3-15-22          | 8689                   | 8531                 | 72                     | MARCELLUS    |
| 18        | 3-15-22          | 8482                   | 8334                 | 72                     | MARCELLUS    |
| 19        | 3-16-22          | 8281                   | 8166                 | 72                     | MARCELLUS    |
| 20        | 3-16-22          | 8116                   | 7993                 | 72                     | MARCELLUS    |
| 21        | 3-17-22          | 7956                   | 7814                 | 72                     | MARCELLUS    |
| 22        | 3-17-22          | 7774                   | 7615                 | 72                     | MARCELLUS    |
| 23        | 3-18-22          | 7564                   | 7448                 | 72                     | MARCELLUS    |
| 24        | 3-18-22          | 7392                   | 7223                 | 72                     | MARCELLUS    |
|           |                  |                        |                      |                        |              |
|           |                  |                        |                      |                        |              |
|           |                  |                        |                      |                        |              |
|           |                  |                        |                      |                        |              |
|           |                  |                        |                      |                        |              |
|           |                  |                        |                      |                        |              |
|           |                  |                        |                      |                        |              |
|           |                  |                        |                      |                        |              |

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

WV Department of  
Environmental Protection

| 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) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
| 17        | 3-15-22           | 70.8                | 6009                         | 6125                         | 4571       | 261791                   | 8573                   | N/A                              |
| 18        | 3-16-22           | 71.1                | 6240                         | 5200                         | 4604       | 261447                   | 8091                   | N/A                              |
| 19        | 3-16-22           | 70.6                | 6091                         | 5507                         | 4699       | 260867                   | 8565                   | N/A                              |
| 20        | 3-16-22           | 71.1                | 6349                         | 5791                         | 4843       | 259774                   | 8062                   | N/A                              |
| 21        | 3-17-22           | 71.2                | 6289                         | 5779                         | 4335       | 259297                   | 8407                   | N/A                              |
| 22        | 3-17-22           | 71.4                | 6147                         | 5775                         | 4527       | 259212                   | 8340                   | N/A                              |
| 23        | 3-18-22           | 71.3                | 6169                         | 5626                         | 4853       | 259525                   | 8048                   | N/A                              |
| 24        | 3-18-22           | 71.2                | 6176                         | 5739                         | 4684       | 260073                   | 8048                   | N/A                              |
|           |                   |                     |                              |                              |            |                          |                        |                                  |
|           |                   |                     |                              |                              |            |                          |                        |                                  |
|           |                   |                     |                              |                              |            |                          |                        |                                  |
|           |                   |                     |                              |                              |            |                          |                        |                                  |
|           |                   |                     |                              |                              |            |                          |                        |                                  |
|           |                   |                     |                              |                              |            |                          |                        |                                  |
|           |                   |                     |                              |                              |            |                          |                        |                                  |
|           |                   |                     |                              |                              |            |                          |                        |                                  |

Please insert additional pages as applicable.

03/17/2023

API 47- 095 - 02623 Farm name Francis W. Tennant Sr. & Randy W. Tustin Well number 5

| <u>PRODUCING FORMATION(S)</u> | <u>DEPTHS</u>     |                   |
|-------------------------------|-------------------|-------------------|
| <u>Marcellus</u>              | <u>6,800'</u> TVD | <u>11,716'</u> MD |
| _____                         | _____             | _____             |
| _____                         | _____             | _____             |
| _____                         | _____             | _____             |

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2100 psi Bottom Hole 2100 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 4417.4 mcfpd Oil 4.5 bpd NGL N/A bpd Water 10 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

| <u>LITHOLOGY/<br/>FORMATION</u> | <u>TOP<br/>DEPTH IN FT<br/>NAME TVD</u> | <u>BOTTOM<br/>DEPTH IN FT<br/>TVD</u> | <u>TOP<br/>DEPTH IN FT<br/>MD</u> | <u>BOTTOM<br/>DEPTH IN FT<br/>MD</u> | <u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND<br/>TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)</u> |
|---------------------------------|---|---------------------------------------|-----------------------------------|--------------------------------------|--|
|                                 | <u>0</u>                                |                                       | <u>0</u>                          |                                      |  |
| <b>SEE ATTACHED</b>             |   |                                       |                                   |                                      |  |
|                                 |   |                                       |                                   |                                      |  |
|                                 |   |                                       |                                   |                                      |  |
|                                 |   |                                       |                                   |                                      |  |
|                                 |   |                                       |                                   |                                      | RECEIVED   |
|                                 |   |                                       |                                   |                                      | Office of Oil and Gas  |
|                                 |   |                                       |                                   |                                      | AUG 23 2022  |
|                                 |   |                                       |                                   |                                      | WV Department of<br>Environmental Protection   |
|                                 |   |                                       |                                   |                                      |  |
|                                 |   |                                       |                                   |                                      |  |
|                                 |   |                                       |                                   |                                      |  |

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling  
Address 10350 Richmond AVE City Houston State TX Zip 77042

Logging Company Stratagraph NE Inc.  
Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company American Cementing  
Address 3415 MILLENNIUM BLV City Massillon State OH Zip 44646

Stimulating Company CalFrac  
Address 2001 Summit View RD City Smithfield State PA Zip 15478

Please insert additional pages as applicable.

Completed by Emily Potesta Telephone 304-628-3111  
Signature  Title Regulatory Agent Date 8/19/2022

OIL AND GAS RECLAMATION NOTICE

TO:

Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Pursuant to West Virginia Code 22-7, notice is hereby given that the undersigned well operator is commencing the reclamation of the surface disturbance caused by well work required by West Virginia Code 22-6-30 on the tract of land as follows:

API Permit No. 47- 095 - 02623 \_\_\_\_\_;

Acreage 11.47 \_\_\_\_\_;

Watershed Indian Creek of Outlet Middle Island Creek (HUC-10) \_\_\_\_\_; RECEIVED

District McElroy \_\_\_\_\_; Office of Oil & Gas

County Tyler \_\_\_\_\_; AUG 2

Public Road Access Indian Creek Rd. \_\_\_\_\_; WV Department of Environmental Protection

Generally used farm name Francis W. Tennant Sr. & Randy W. Tustin \_\_\_\_\_.

This tract of land was utilized in connection with the well work authorized by the permit listed above issued by the Office of Oil and Gas of the West Virginia Department of Environmental Protection.

Any claim for oil and gas production damage compensation from the undersigned must be made within 2 years of the publication of this notice.

Well Operator Jay-Bee Oil & Gas, Inc. \_\_\_\_\_

Address 429 Simonton Rd. \_\_\_\_\_

Ellenboro, WV 26346 \_\_\_\_\_

Telephone 304-628-3111 \_\_\_\_\_

03/17/2023



|                           |              |            |          |  |
|---------------------------|--------------|------------|----------|--|
| PAD-WELL                  | Doc No. 5    |            |          |  |
| ELEVATION                 | 1039         |            |          |  |
| PERMIT                    | 47-095-02623 |            |          |  |
|                           | TOP TVD      | BOTTOM TVD |          |  |
| Carroll Sand              | 342          | 405        |          |  |
| Murphy Sand               | 453          | 502        |          |  |
| 1st Cow Run Sand          | 538          | 597        |          |  |
| Little Dunkard Sand       | 669          | 679        |          |  |
| Dunkard Sand              | 708          | 808        |          |  |
| sandstone                 | 915          | 928        |          |  |
| 2nd Cow Run Sand          | 1025         | 1058       |          |  |
| Gas Sand                  | 1210         | 1230       |          |  |
| 1st Salt                  | 1300         | 1355       |          |  |
| 2nd Salt                  | 1535         | 1610       |          |  |
| 3rd Salt                  | 1910         | 1990       |          |  |
| Maxon                     |              |            |          |  |
| Big Lime                  | 2007         | 2063       |          |  |
| Big Injun                 | 2138         | 2210       | Gas show |  |
| Berea                     |              |            |          |  |
| Gordon                    | 2795         | 2805       |          |  |
| Fifth                     | 3005         | 3010       |          |  |
| Warren                    | 3491         | 3550       |          |  |
| Riley                     | 4297         | 4315       |          |  |
| Benson                    | 4958         | 4962       |          |  |
| Alexander                 | 5365         | 5410       |          |  |
| Hamilton                  | 5644         | 6151       |          |  |
| Upper Marcellus (Geneseo) | 6686         | 6706       |          |  |
| Purcell (Tully Lm)        | 6706         | 6708       |          |  |
| Marcellus                 | 6758         |            | Gas show |  |
| Cherry Valley             |              |            |          |  |

03/17/2023  




# Hydraulic Fracturing Fluid Product Component Information Disclosure

|                                |                         |
|--------------------------------|-------------------------|
| Job Start Date:                | 3/6/2022                |
| Job End Date:                  | 3/18/2022               |
| State:                         | West Virginia           |
| County:                        | Tyler                   |
| API Number:                    | 47-095-02623-00-00      |
| Operator Name:                 | Jay-Bee Oil & Gas, Inc. |
| Well Name and Number:          | Doc 5                   |
| Latitude:                      | 39.44926900             |
| Longitude:                     | -80.76826300            |
| Datum:                         | NAD83                   |
| Federal Well:                  | NO                      |
| Indian Well:                   | NO                      |
| True Vertical Depth:           | 6,799                   |
| Total Base Water Volume (gal): | 8,693,860               |
| Total Base Non Water Volume:   | 0                       |



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 AUG 23 2022

## Hydraulic Fracturing Fluid Composition:

| Trade Name | Supplier             | Purpose      | Ingredients | Chemical Abstract Service Number (CAS #) | Maximum Ingredient Concentration in Additive (% by mass)** | Maximum Ingredient Concentration in HF Fluid (% by mass)** | Comments |
|------------|----------------------|--------------|-------------|--|--|--|----------|
| Water      | Supplied by Operator | Base Fluid   |             |  |  |  |          |
|            |                      |              | Water       | 7732-18-5                                | 100.00000  | 91.89357   |          |
| MBC 12:3   | CWS                  | Microbiocide |             |  |  |  |          |
|            |                      |              |             | Listed Below                             |  |  |          |

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|                    |              |                         |  |              |  |  |  |
|--------------------|--------------|-------------------------|--|--------------|--|--|--|
| CalBreak™ 5700     | CWS          | Breaker                 |  |              |  |  |  |
|                    |              |                         |  | Listed Below |  |  |  |
| CalGel™ 4000       | CWS          | Gel Slurry              |  |              |  |  |  |
|                    |              |                         |  | Listed Below |  |  |  |
| DynaScale™ 3511    | CWS          | Scale Inhibitor         |  |              |  |  |  |
|                    |              |                         |  | Listed Below |  |  |  |
| Sand (Proppant)    | CWS          | Propping Agent          |  |              |  |  |  |
|                    |              |                         |  | Listed Below |  |  |  |
| Hydrochloric Acid  | CWS          | Clean Perforations      |  |              |  |  |  |
|                    |              |                         |  | Listed Below |  |  |  |
| DynaRate™ 6459     | CWS          | Friction Reducer        |  |              |  |  |  |
|                    |              |                         |  | Listed Below |  |  |  |
| CalGuard™ 9100     | CWS          | Corrosion Inhibitor     |  |              |  |  |  |
|                    |              |                         |  | Listed Below |  |  |  |
| Other Chemical (s) | Listed Above | See Trade Name (s) List |  |              |  |  |  |
|                    |              |                         |  | Listed Below |  |  |  |

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|  |  |  |                             |            |           |         |  |
|--|--|--|-----------------------------|------------|-----------|---------|--|
| 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 | 7.82990 |  |
|  |  |  | Hydrochloric acid           | 7647-01-0  | 37.00000  | 0.15201 |  |

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|  |  |  |  |            |          |         |
|--|--|--|--|------------|----------|---------|
|  |  |  | Calcite  | 471-34-1   | 1.00000  | 0.05389 |
|  |  |  | Illite   | 12173-60-3 | 1.00000  | 0.02440 |
|  |  |  | Biotite  | 1302-27-8  | 0.10000  | 0.00783 |
|  |  |  | Goethite   | 1310-14-1  | 0.10000  | 0.00783 |
|  |  |  | Apatite  | 64476-38-6 | 0.10000  | 0.00783 |
|  |  |  | Guar gum   | 9000-30-0  | 60.00000 | 0.00683 |
|  |  |  | Distillates (petroleum),<br>hydrotreated middle  | 64742-46-7 | 60.00000 | 0.00683 |
|  |  |  | Glutaraldehyde   | 111-30-8   | 14.00000 | 0.00332 |
|  |  |  | Ilmenite   | 98072-94-7 | 0.10000  | 0.00244 |
|  |  |  | Ethanol  | 64-17-5    | 3.00000  | 0.00071 |
|  |  |  | Alkyl dimethyl benzyl<br>ammonium chloride   | 68424-85-1 | 3.00000  | 0.00071 |
|  |  |  | Didecyl dimethyl<br>ammonium chloride  | 7173-51-5  | 3.00000  | 0.00071 |
|  |  |  | Quaternary ammonium<br>compounds, bis<br>(hydrogenated tallow<br>alkyl)dimethyl, salts with<br>bentonite | 68953-58-2 | 5.00000  | 0.00057 |
|  |  |  | Oxirane, 2-methyl-,<br>polymer with oxirane,<br>monodecyl ether  | 37251-67-5 | 1.50000  | 0.00017 |
|  |  |  | Ethylene Glycol  | 107-21-1   | 40.00000 | 0.00010 |
|  |  |  | Ammonium chloride<br>(NH <sub>4</sub> Cl)  | 12125-02-9 | 5.00000  | 0.00008 |
|  |  |  | Distillates (petroleum),<br>hydrotreated light   | 64742-47-8 | 3.00000  | 0.00008 |
|  |  |  | Ethylene glycol,<br>monomethyl ether   | 34590-94-8 | 20.00000 | 0.00005 |
|  |  |  | Hydrogen peroxide<br>(H <sub>2</sub> O <sub>2</sub> )  | 7722-84-1  | 8.00000  | 0.00003 |
|  |  |  | Ethoxylated Alcohols   | 68131-39-5 | 10.00000 | 0.00002 |
|  |  |  | Tar bases, quinolone<br>derivs, benzyl chloride-<br>quatenized   | 72480-70-7 | 10.00000 | 0.00002 |
|  |  |  | Formic acid  | 64-18-6    | 10.00000 | 0.00002 |
|  |  |  | Cinnamaldehyde   | 104-55-2   | 10.00000 | 0.00002 |

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|  |  |  |                       |             |         |         |  |
|--|--|--|-----------------------|-------------|---------|---------|--|
|  |  |  | Inorganic Salt        | Proprietary |         | 0.00001 | Proprietary CAS & Additive Concentration |
|  |  |  | Proprietary Polymer 1 | Proprietary |         | 0.00001 | Proprietary CAS & Additive Concentration |
|  |  |  | Inorganic Acid Salt   | Proprietary |         | 0.00001 | Proprietary CAS & Additive Concentration |
|  |  |  | Organic Acid Ether    | Proprietary |         | 0.00001 | Proprietary CAS & Additive Concentration |
|  |  |  | Isopropyl alcohol     | 67-63-0     | 5.00000 | 0.00001 |  |

\* 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.

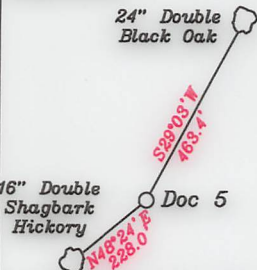
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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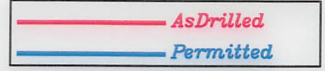


References:

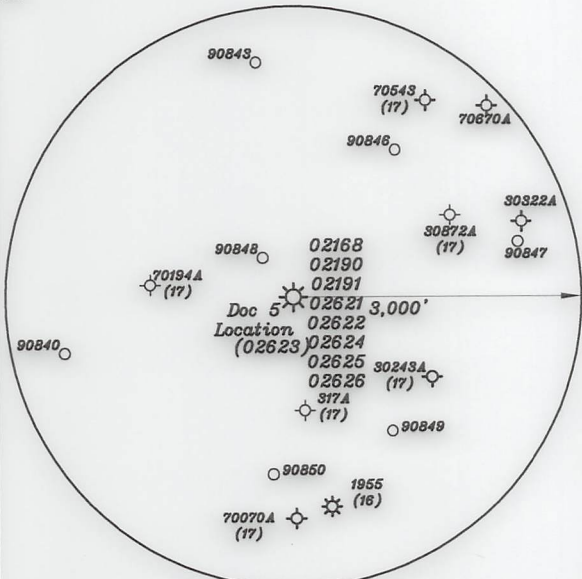
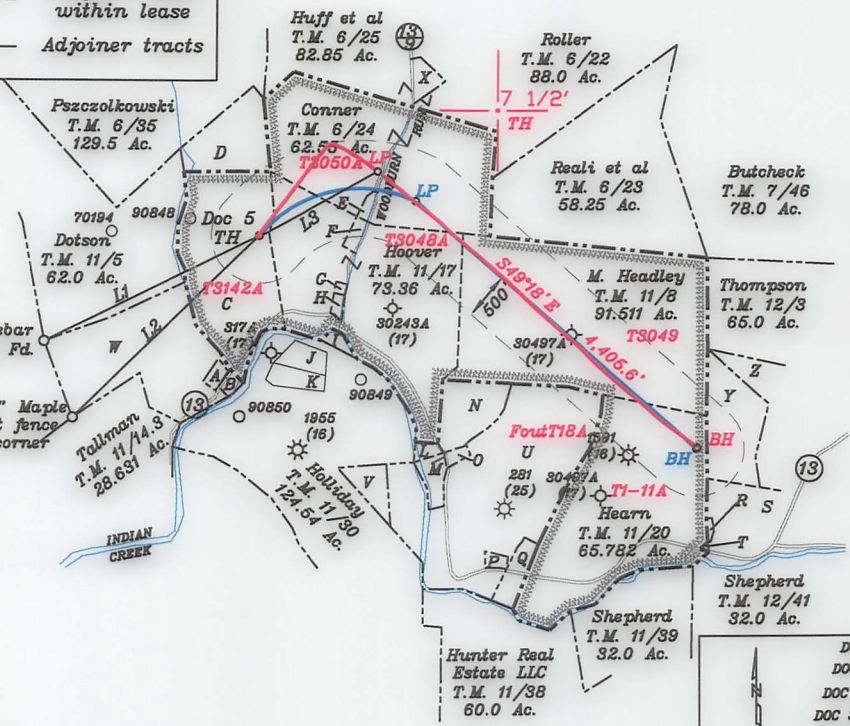


— LEGEND —

|     |                             |
|-----|-----------------------------|
| —   | Lease lines                 |
| --- | 500' from well bore path    |
| --- | Surface tracts within lease |
| --- | Adjoiner tracts             |



- A- R. Dotson T.M. 11/5.2 1.0 Ac.
- B- Straight T.M. 11/15 0.88 Ac.
- C- Tennant & Tustin T.M. 11/6 46.51 Ac.
- D- Jay Bee Oil & Gas, Inc T.M. 6/35.1 8.0 Ac.
- E- Fields & Leisure T.M. 11/52 1.25 Ac. **T3050B**
- F- Hoover T.M. 11/17.4 1.12 Ac. **T3048A**
- G- Hoover T.M. 11/17.2 0.25 Ac. **T3048B3**
- H- Lancaster T.M. 11/17.3 0.6 Ac. **T3048B2**
- I- Mt. Zion Cemetery T.M. 11/16 0.88 Ac.
- J- Victory Cemetery Association T.M. 11/30.4 3.76 Ac.
- K- Victory Cemetery Association T.M. 11/30.5 2.70 Ac.
- L- Wilson & Black T.M. 11/ 17.1 0.65 Ac.
- M- Wilson & Black T.M. 11/31 2.4 Ac.
- N- Headley T.M. 11/33.1 9.227 Ac. **FourT18B**
- O- Eureka T.M. 11/32 0.88 Ac.
- P- T. Headley T.M. 11/34 0.78 Ac.
- Q- Lancaster T.M. 11/35 1.32 Ac.
- R- Lancaster T.M. 12/1.1 0.298 Ac.
- S- Thomas T.M. 12/1.2 14.702 Ac.
- T- Thomas T.M. 12/67.1 0.095 Ac.
- U- E. Headley T.M. 11/33 66.92 Ac.
- V- Holliday T.M. 11/30.1 12.0 Ac.
- W- Dotson T.M. 11/5.1 37.0 Ac.
- X- Yeater et al T.M. 6/25.1 1.1 Ac.
- Y- Thomas T.M. 12/1.3 17.0 Ac.
- Z- Thomas T.M. 12/2 17.0 Ac.

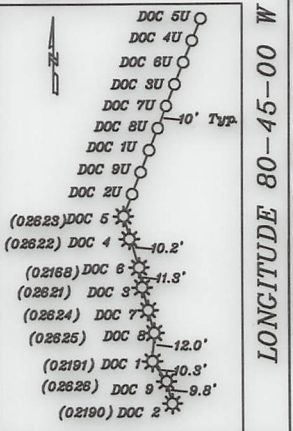


**Top Hole - TH**  
 Geo NAD 83- 39.449248 N, 80.768266 W  
 UTM NAD 83(Meters)-4366657.63 N, 519938.72 E  
 UTM NAD 83(Feet)-14326275.92 N, 1705832.27 E

**Landing Point - LP**  
 Geo NAD 83- 39.451154 N, 80.763950 W  
 UTM NAD 83(Meters)-4366870.12 N, 520309.69 E  
 UTM NAD 83(Feet)-14326973.06 N, 1707049.04 E

**Bottom Hole - BH**  
 Geo NAD 83- 39.443395 N, 80.751981 W  
 UTM NAD 83(Meters)-4366011.83 N, 521341.72 E  
 UTM NAD 83(Feet)-14324157.14 N, 1710435.29 E

| NUMBER | DIRECTION | DISTANCE |
|--------|-----------|----------|
| L1     | N64°01'E  | 2,485.6' |
| L2     | N45°56'E  | 2,899.7' |
| L3     | N61°09'E  | 1,402.8' |



**Top Hole - TH**  
 Geo NAD 83- 39.449250 N, 80.768268 W  
 UTM NAD 83(Meters)-4366657.86 N, 519938.58 E  
 UTM NAD 83(Feet)-14326276.67 N, 1705831.82 E

**Landing Point - LP**  
 Geo NAD 83- 39.450319 N, 80.762524 W  
 UTM NAD 83(Meters)-4366777.76 N, 520432.47 E  
 UTM NAD 83(Feet)-14326670.02 N, 1707452.19 E

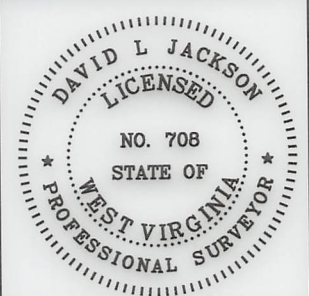
**Bottom Hole - BH**  
 Geo NAD 83- 39.443353 N, 80.752016 W  
 UTM NAD 83(Meters)-4366007.11 N, 521338.71 E  
 UTM NAD 83(Feet)-14324141.67 N, 1710425.41 E

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

FILE NO. \_\_\_\_\_  
 DRAWING NO. 1  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION GPS  
submeter unit

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 PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) David L Jackson  
 R.P.E. \_\_\_\_\_ P.S. 708



STATE OF WEST VIRGINIA  
 Division of Environmental Protection  
 OFFICE OF OIL AND GAS

DATE August 05, 2022  
 OPERATOR'S WELL NO. Doc 5  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL GAS LIQUID INJECTION X WASTE DISPOSAL \_\_\_\_\_  
 (IF "GAS") PRODUCTION X STORAGE \_\_\_\_\_ DEEP \_\_\_\_\_ SHALLOW X

LOCATION: ELEVATION 1,040.1' WATER SHED Indian Creek of Outlet Middle Island Creek (HUC-10)  
 DISTRICT McElroy COUNTY Tyler  
 QUADRANGLE Shirley 7 1/2'

SURFACE OWNER Francis W. Tennant Sr. & Randy W. Tustin ACREAGE 46.51 Ac.  
 OIL & GAS ROYALTY OWNER Arnold Schulberg LEASE ACREAGE 46.51 Ac.  
 LEASE NO. See Above

PROPOSED WORK: DRILL \_\_\_\_\_ CONVERT \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE \_\_\_\_\_ PLUG OFF OLD FORMATION \_\_\_\_\_ PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled

PLUG AND ABANDON \_\_\_\_\_ CLEAN OUT AND REPLUG \_\_\_\_\_  
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,800'; TMD = 11,716'  
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Deborah Broda-Morgan  
 ADDRESS 16 South Ave. W., Ste 118, Cranford NJ 07016 ADDRESS 429 Simonton Rd., Ellenboro, WV 26346

03/17/2023