

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

API: 47-049-02250 County: MARION District: MANNINGTON  
 Quad: MANNINGTON Pad Name: BEATY Field/Pool Name: MARCELLUS SHALE  
 Farm name: BEATY WELL NAME : BEATY 1H  
 Operator (as registered with the OOG) TRANS ENERGY, INC.  
 Address: P. O. BOX 393 City: ST. MARYS State: WV Zip: 26170

As Drilled Location: NAD 83/UTM \*\*\* SEE ATTACHED WELL PROFILE AND DEVIATION SURVEY - 7 PAGES \*\*\*

|                        |          |                |         |               |
|------------------------|----------|----------------|---------|---------------|
| Top hole               | Northing | <u>4376358</u> | Easting | <u>554624</u> |
| Landing Point of curve | Northing | <u>4376467</u> | Easting | <u>554600</u> |
| Bottom hole            | Northing | <u>4374944</u> | Easting | <u>555450</u> |

Elevation (ft): 1,343' GL Type of Well: NEW Type of Report: FINAL

Permit Type: HORIZONTAL 6A Depth Type: SHALLOW

Type of Operation: DRILL

Well Type: GAS

Type of Completion: SINGLE Fluids Produced: BRINE and GAS

Drilled With: ROTARY

Drilling Media: MUD Intermediate hole: MUD

Production hole: MUD

Mud Type(s) and Additive(s) MUD TYPE - SYNTHETIC BASE DRILLING MUD

|            |                        |                        |                       |                    |                 |
|------------|------------------------|------------------------|-----------------------|--------------------|-----------------|
| ADDITIVES: | Calcium Carbonate      | Hydrated Lime          | Synvert Synthetic 1-L | Citric Acid        | Drispac Low Vis |
|            | Calcium Chloride       | Cedar Fiber            | Bentonite             | Sodium Bicarbonate | L-20C           |
|            | Synvert LEM            | Rubber Crumb           | Soda Ash, dense       | Glycerine          | Bioclear        |
|            | Synvert Synthetic WA-L | Cottonseed Hulls       | Lignite               | Desco              |                 |
|            | Barite                 | Synvert Synthetic 11-L | Aluminum Sterate      | Caustic Soda Beads |                 |

Date permit issued: 3/20/2013 Date drilling commenced: 7/20/2013 Date drilling ceased: 9/18/2013

Date completion activities began: 11/14/2013 Date completion activities ceased: 11/26/2013

Verbal plugging: 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.

Fresh water depth (s) ft: 50', 150' Open mine(s) (Y/N) depths: N

Salt water depth(s) ft: 1,525' Void(s) encountered (Y/N) depths: N

Coal Depth(s) ft: 900' Cavern(s) encountered (Y/N) depths: N

Is coal being mined in area (Y/N) N

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

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| CASING STINGS             | Hole Size      | Casing Size    | Depth         | New or Used | Grade wt/ft        | Basket Depth(s) | Did cement circulate (Y/N)<br>Provide details below. |
|---------------------------|----------------|----------------|---------------|-------------|--------------------|-----------------|--|
| Conductor                 | <u>26"</u>     | <u>20"</u>     | <u>100'</u>   | <u>NEW</u>  | <u>J-55 / 94</u>   | -               | -  |
| Surface                   | <u>17 1/2"</u> | <u>13 3/8"</u> | <u>460'</u>   | <u>NEW</u>  | <u>J-55 / 54.5</u> | -               | -  |
| Coal                      | -              | -              | -             | -           | -                  | -               | -  |
| Intermediate 1            | <u>12 1/2"</u> | <u>9 5/8"</u>  | <u>3103'</u>  | <u>NEW</u>  | <u>J-55 / 36</u>   | -               | -  |
| Intermediate 2            | -              | -              | -             | -           | -                  | -               | -  |
| Intermediate 3            | -              | -              | -             | -           | -                  | -               | -  |
| Production                | <u>8 3/4"</u>  | <u>5 1/2"</u>  | <u>14700'</u> | <u>NEW</u>  | <u>P-110 / 20</u>  | -               | -  |
| 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      | -                      | -                  | -                | -                            | -                         | -               | -           |
| Surface        | -                      | <u>735</u>         | <u>15.2</u>      | <u>1.226</u>                 | <u>901</u>                | <u>Surface</u>  | <u>7.00</u> |
| Coal           | -                      | -                  | -                | -                            | -                         | -               | -           |
| Intermediate 1 | -                      | -                  | -                | -                            | -                         | <u>Surface</u>  | -           |
| Intermediate 2 | -                      | -                  | -                | -                            | -                         | -               | -           |
| Intermediate 3 | -                      | -                  | -                | -                            | -                         | -               | -           |
| Production     | <u>50/50 POZ / H</u>   | <u>1521 / 1745</u> | <u>14 / 15.6</u> | <u>1.32 / 1.18</u>           | <u>2008 / 2059</u>        | <u>Surface</u>  | -           |
| Tubing         | -                      | -                  | -                | -                            | -                         | -               | -           |

Drillers TD (ft): 14700' Loggers TD (ft): 14,702'

Deepest formation penetrated: MARCELLUS SHALE Plug back to (ft): N/A

Plug back procedure: N/A

Kick off depth (ft) 7,202'

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

Well cored? NO Were cuttings collected? NO

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

FRESH WATER STRING - 1 CENTRALIZER EVERY 160'

INTERMEDIATE STRING - 1 CENTRALIZER EVERY 100' FROM 3,300' TO 900'

PRODUCTION STRING - 1 CENTRALIZER EVERY 80' FROM TD TO ABOVE ROP 7000'

WAS WELL COMPLETED AS SHOT HOLE? YES DETAILS: \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE? NO DETAILS: \_\_\_\_\_

WERE TRACERS USED? NO TYPE OF TRACER(S) USED: N/A

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API: 47-049-02250 WELL NAME: BEATY 1H

Drilling Contractor: HELMERICH & PAYNE INTERNATIONAL DRILLING COMPANY  
Address: 1437 SOUTH BOULDER AVENUE City: TULSA State: OK Zip: 74119

Logging Contractor: HORIZONTAL WIRELINE SERVICES  
Address: P. O. BOX 1046 City: WOOSTER State: OH Zip: 44691

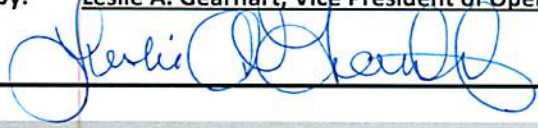
Cementing Company: BAKER HUGHES  
Address: 17015 ALDINE WESTFIELD ROAD City: HOUSTON State: TX Zip: 77073-5101

Stimulating Company: GO FRAC  
Address: 7000 CALMONT AVENUE, SUITE 310 City: FORT WORTH State: TX Zip: 76116

Completed by: Leslie A. Gearhart, Vice President of Operations

Telephone: 304/684-7053

Signature: \_\_\_\_\_



DATE: \_\_\_\_\_

3-17-15

**\*\* SEE ATTACHMENT ENTITLED "HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE" \*\***

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TRANS ENERGY, INC. - HYDRAULIC FRACTURING FLUID PRODUCT COMPONENT INFORMATION DISCLOSURE

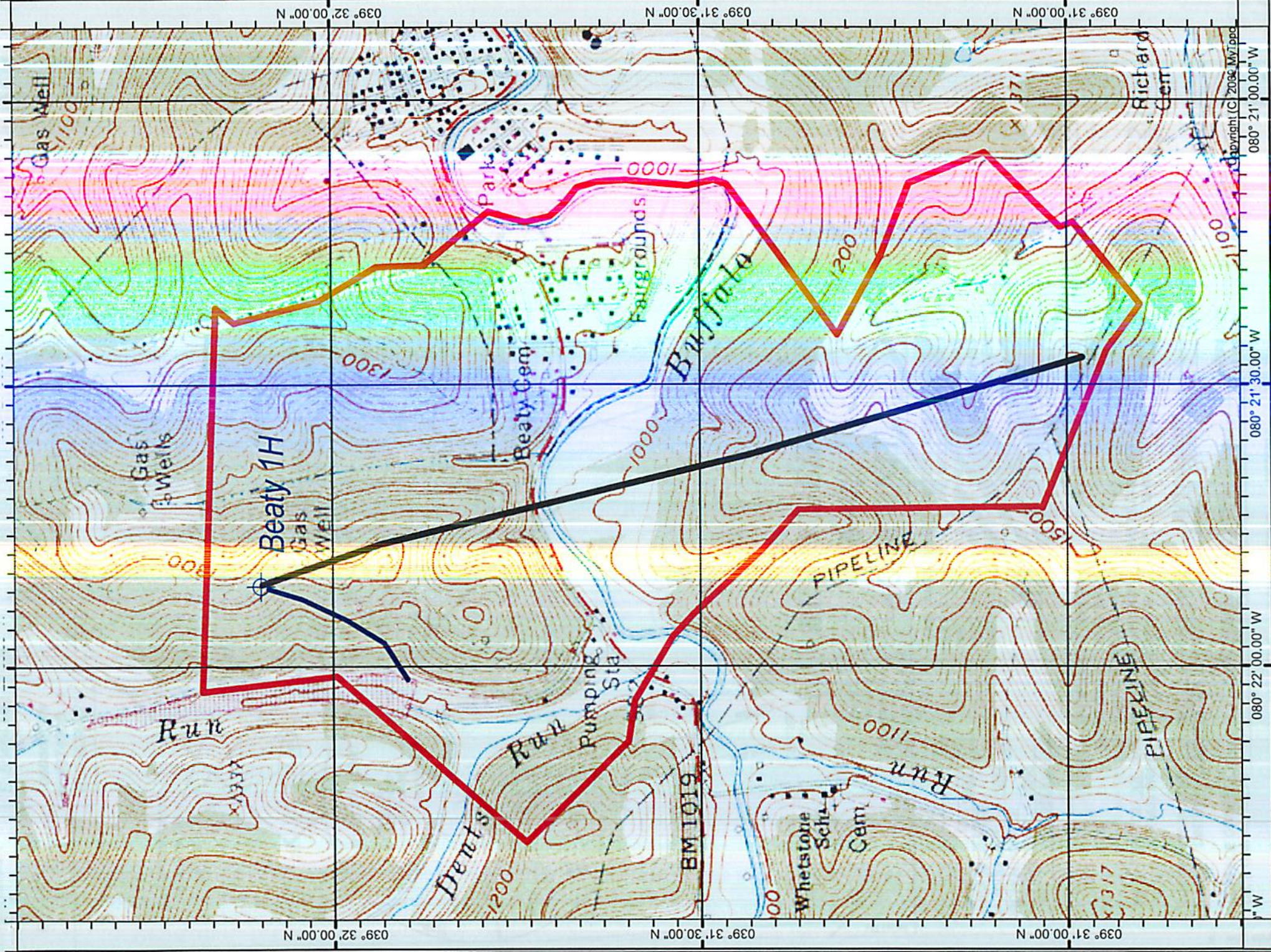
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|                                  |                    |
|----------------------------------|--------------------|
| Fracture Start Date:             | 11/13/2013         |
| Fracture End Date:               |                    |
| State:                           | WEST VIRGINIA      |
| County:                          | MARION             |
| API Number:                      | 47-049-02250       |
| Operator Name:                   | Trans Energy, Inc. |
| Well Name:                       | BEATY IH           |
| Federal Well:                    | No                 |
| Longitude:                       | 80.364339          |
| Latitude:                        | 39.535105          |
| Long/Lat Projection:             | NAD27              |
| True Vertical Depth (TVD):       | 7,735'             |
| Total Clean Fluid Volume* (gal): | 9,462,390          |

Ingredients Section:

| 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 |
|-------------------|-----------------|---------------------|-----------------------------------|--|--|--|----------|
| Freshwater        | Republic Energy | Frac Base           | Water                             | 7732-18-5                                | 100.00%  | 90.99702%  | None     |
| 100 Mesh          | US Silica       | Proppant            | Sand                              | 14808-60-7                               | 100.00%  | 1.99967%   | None     |
| 40/70 White Sand  | US Silica       | Proppant            | Sand                              | 14808-60-7                               | 100.00%  | 3.80059%   | None     |
| 30/50 White Sand  | US Silica       | Proppant            | Sand                              | 14808-60-7                               | 100.00%  | 2.81133%   | None     |
| HCl Acid 10-15%   | GoFrac          | Acid                | Hydrochloric Acid                 | 7647-01-0                                | 15.00%   | 0.03856%   | None     |
| Ferriplex 66      | Chemplex        | Iron Control        | Acetic Acid                       | 64-19-7                                  | 50.00%   | 0.00031%   | None     |
|                   |                 |                     | Citric Acid                       | 77-92-9                                  | 30.00%   | 0.00019%   | None     |
|                   |                 |                     | Water                             | 7732-18-5                                | 35.00%   | 0.00022%   | None     |
| Greenflush        | Chemplex        | Cleaner             | Alcohol Ethoxylate Surfactants    | Proprietary                              | 10.00%   | 0.00087%   | None     |
| Plexbreak 145     | Chemplex        | Non-Emulsifier      | Cocamide Diethanolamine Salt      | 68603-42-9                               | 10.00%   | 0.00005%   | None     |
|                   |                 |                     | Diethanolamine                    | 111-42-2                                 | 5.00%  | 0.00003%   | None     |
|                   |                 |                     | Ethylene Glycol Monobutyl Ether   | 111-76-2                                 | 15.00%   | 0.00008%   | None     |
|                   |                 |                     | Methyl Alcohol                    | 67-56-1                                  | 15.00%   | 0.00008%   | None     |
|                   |                 |                     | Water                             | 7732-18-5                                | 66.00%   | 0.00034%   | None     |
| Plexhib 256       | Chemplex        | Corrosion Inhibitor | Alcohol Ethoxylate Surfactants    | Proprietary                              | 30.00%   | 0.00014%   | None     |
|                   |                 |                     | Methyl Alcohol                    | 67-56-1                                  | 70.00%   | 0.00032%   | None     |
|                   |                 |                     | n-olefins                         | Proprietary                              | 10.00%   | 0.00005%   | None     |
|                   |                 |                     | Propargyl Alcohol                 | 107-19-7                                 | 8.00%  | 0.00004%   | None     |
|                   |                 |                     | Thiourea-formaldehyde copolymer   | 68527-49-1                               | 30.00%   | 0.00014%   | None     |
| Sodium Persulfate | Chemplex        | Active Breaker      | Sodium Persulfate                 | 7775-27-1                                | 100.00%  | 0.00128%   | None     |
| Plexslick 953     | Chemplex        | Friction Reducer    | Alcohol Ethoxylate Surfactants    | Proprietary                              | 8.00%  | 0.00552%   | None     |
|                   |                 |                     | Hydrotreated Petroleum Distillate | 64742-47-8                               | 30.00%   | 0.02070%   | None     |
|                   |                 |                     | Polyacrylamide-co-acrylic acid    | Proprietary                              | 32.00%   | 0.02208%   | None     |
|                   |                 |                     | Water                             | 7732-18-5                                | 35.00%   | 0.02415%   | None     |
| Beta M-4.0        | PPF             | Guar Gel            | Guar Gum                          | 9000-30-0                                | 50.00%   | 0.02685%   | None     |
|                   |                 |                     | Petroleum Distillate              | 64742-47-8                               | 55.00%   | 0.02953%   | None     |
|                   |                 |                     | Clay                              | Proprietary                              | 5.00%  | 0.00268%   | None     |





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MANNINGTON QUADRANGLE

SCALE 1' = 1000'

**TRANS ENERGY, INC.**

WELL: BEATY 1H  
BEATY HEIRS, ET AL 556.403 ACRE UNIT

MANNINGTON DISTRICT UNION COUNTY WEST VIRGINIA