

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

API 47-061-01707 County Monongalia District Grant
Quad Morgantown South Pad Name MIP Field/Pool Name _____
Farm name Enroute Properties, LLC Well Number 3H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia St. East, Suite 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4384061.3 Easting 587904.3
Landing Point of Curve Northing 4384099.3 Easting 587695.9
Bottom Hole Northing 4385578.2 Easting 586592.1

Elevation (ft) 1,058' 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 for horizontal section - BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-SEAL PLUS, HRP, LIME, M-I WATE (BARITE), M-I-X II MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM

Date permit issued 4/7/2015 Date drilling commenced 6/28/2015 Date drilling ceased 9/13/2015
Date completion activities began 11/6/2015 Date completion activities ceased 11/15/2015
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 300', 450' Open mine(s) (Y/N) depths _____ N
Salt water depth(s) ft 700'; 1,440'; 2,120' Void(s) encountered (Y/N) depths _____ N
Coal depth(s) ft 295' Cavern(s) encountered (Y/N) depths _____ N

Is coal being mined in this well? N
APPROVED
NAME: Harvey Kent
DATE: 5/3/2016

Received
Office of Oil & Gas
MAR 30 2016
Reviewed by: [Signature]
AX 05/06/2016

API 47-061 - 01707 Farm name Enroute Properties, LLC Well number 3H

| CASING STRINGS | Hole Size | Casing Size | Depth | New or Used | Grade wt/ft | Basket Depth(s) | Did cement circulate (Y/N) * Provide details below* |
|---------------------------|-----------|-------------|---------|-------------|-------------|-----------------|--|
| Conductor | 30 | 24 | 42' | N | N/A | N/A | Y-to surface |
| Surface | 17.5 | 13 3/8 | 500' | N | 54.5 | N/A | Y - 7 bbl return |
| Coal | | | | | | | |
| Intermediate 1 | 12.25 | 9 5/8 | 1,781' | N | 40 | N/A | Y - 2 bbl return |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8.5 | 5.5 | 13,861' | N | 20 | N/A | Y-4 bbl return |
| Tubing | 4.771 | 2.375 | 7,714' | N | 4.7 | N/A | |
| Packer type and depth set | | | | | | | |

Comment Details _____

| CEMENT DATA | Class/Type of Cement | Number of Sacks | Slurry wt (ppg) | Yield (ft ³ /sks) | Volume (ft ³) | Cement Top (MD) | WOC (hrs) |
|----------------|-------------------------------------|-----------------|-----------------|------------------------------|---------------------------|-----------------|-----------|
| Conductor | 4,500 psi ready mix | 36.4 | | .75 | 27.27 | CTS | 48 |
| Surface | Class A | 1004 | 15.2 | 1.27 | 1,271 | CTS | 8 |
| Coal | | | | | | | |
| Intermediate 1 | Class A | 858 | 15.2 | 1.26 | 1,074 | CTS | 8 |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 50/50 Premium NE-1.3% R-3.3% MPA170 | 3192 | 14.5 | 1.17 | 2,661 | CTS | 48 |
| Tubing | | | | | | | |

Drillers TD (ft) 13,874' (Pilot: 7,840') Loggers TD (ft) 13,874'

Deepest formation penetrated Pilot: Oriskany Plug back to (ft) 6,080'

Plug back procedure Plugged back with solid cement. Please see attached cement report.

Kick off depth (ft) 6,312'

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: bow spring centralizers every 3rd joint or aprox 120'

Intermediate: bow spring centralizers every 3rd joint or aprox 120'

Production: Hard bodied spiral centralizers every other joint or aprox 80' from TD to KOP then bow spring from KOP to 9 5/8" every forth joint or aprox 140'

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Completed in a multi-stage plug-and-perforate manner.
See attached documentation.

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

Received
Office of Oil & Gas

MAR 30 2016

05/06/2016

API 47- 061 - 01707 Farm name Enroute Properties, LLC Well number 3H

| PRODUCING FORMATION(S) | DEPTHS | | |
|------------------------|--------|-----|------------|
| Marcellus | 7,412' | TVD | 13,874' MD |
| | | | |
| | | | |

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3885 psi Bottom Hole _____ psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 4,656 mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY Estimated Orifice Pilot

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

Please insert additional pages as applicable.

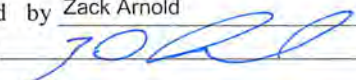
Drilling Contractor Patterson-UTI Drilling
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Schlumberger
Address 1080 US 33 City Weston State WV Zip 26452

Cementing Company Schlumberger
Address 1080 US 33 City Weston State WV Zip 26452

Stimulating Company Schlumberger
Address 1080 US 33 City Weston State WV Zip 26452

Please insert additional pages as applicable.

Completed by Zack Arnold Telephone 304.241.5752 Ext. 7105
Signature  Title General Manager - Operations Date 22 MAR 16

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

Received
Office of Oil & Gas
MAR 30 2016