

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

API 47-033-05692 County Harrison District Union
Quad Big Isaac 7.5' Pad Name Washbourne Pad Field/Pool Name -----
Farm name Richard B. Washbourne Well Number Cecele Unit 2H
Operator (as registered with the OOG) Antero Resources Appalachian Corporation
Address 1615 Wynkoop Street City Denver State CO Zip 80202

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4337311.335m Easting 541721.879m
Landing Point of Curve Northing --- Easting ---
Bottom Hole Northing --- Easting ---

Elevation (ft) 1290' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

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

Mud Type(s) and Additive(s)
Air - Foam & 4% KCL

Mud - Polymer

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Environmental Protection

Date permit issued 12/13/2012 Date drilling commenced 11/13/2013 Date drilling ceased N/A
Date completion activities began N/A Date completion activities ceased N/A
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 25', 258', 282' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1480' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 213', 373', 523' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:
SDW
6/16/2020

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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	24"	20"	40'	New	94#, H-40	N/A	Y
Surface	---	---	---	---	---	---	---
Coal							
Intermediate 1	---	---	---	---	---	---	---
Intermediate 2							
Intermediate 3							
Production	---	---	---	---	---	---	---
Tubing							
Packer type and depth set		N/A					

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	---	---	---	---	---	---	---
Surface	---	---	---	---	---	---	---
Coal							
Intermediate 1	---	---	---	---	---	---	---
Intermediate 2							
Intermediate 3							
Production	---	---	---	---			
Tubing							

Drillers TD (ft) 40' (Deepest Point Drilled) Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

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Kick off depth (ft) N/A

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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 _____

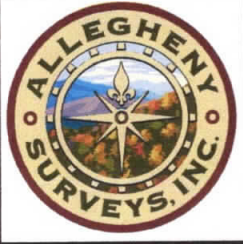
Conductor - 0

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 N/A

Antero Resources
Well No. Cecele 2H
 As-Drilled
Antero Resources Corporation



Top Hole coordinates verified by survey grade GPS. As-drilled data and information was provided by Antero Resources Corporation. Allegheny Surveys, Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

Notes:
 West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Cecele 2H coordinates are
 N: 250,741.23' Latitude: 39°11'02.23"
 E: 1,711,688.35' Longitude: 80°31'01.59"
 UTM Zone 17, NAD 1983
 Top Hole Coordinates
 N: 4,337,311.335m
 E: 541,721.879m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

4,850' to Top Hole

LATITUDE 39 - 12 - 30

LONGITUDE 80 - 30 - 00

8,881' to Top Hole

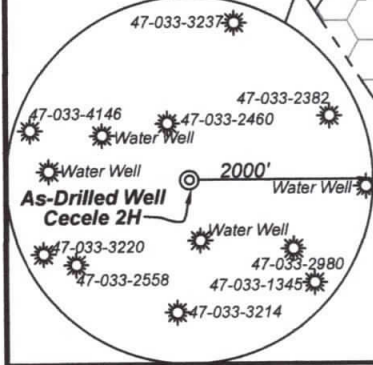
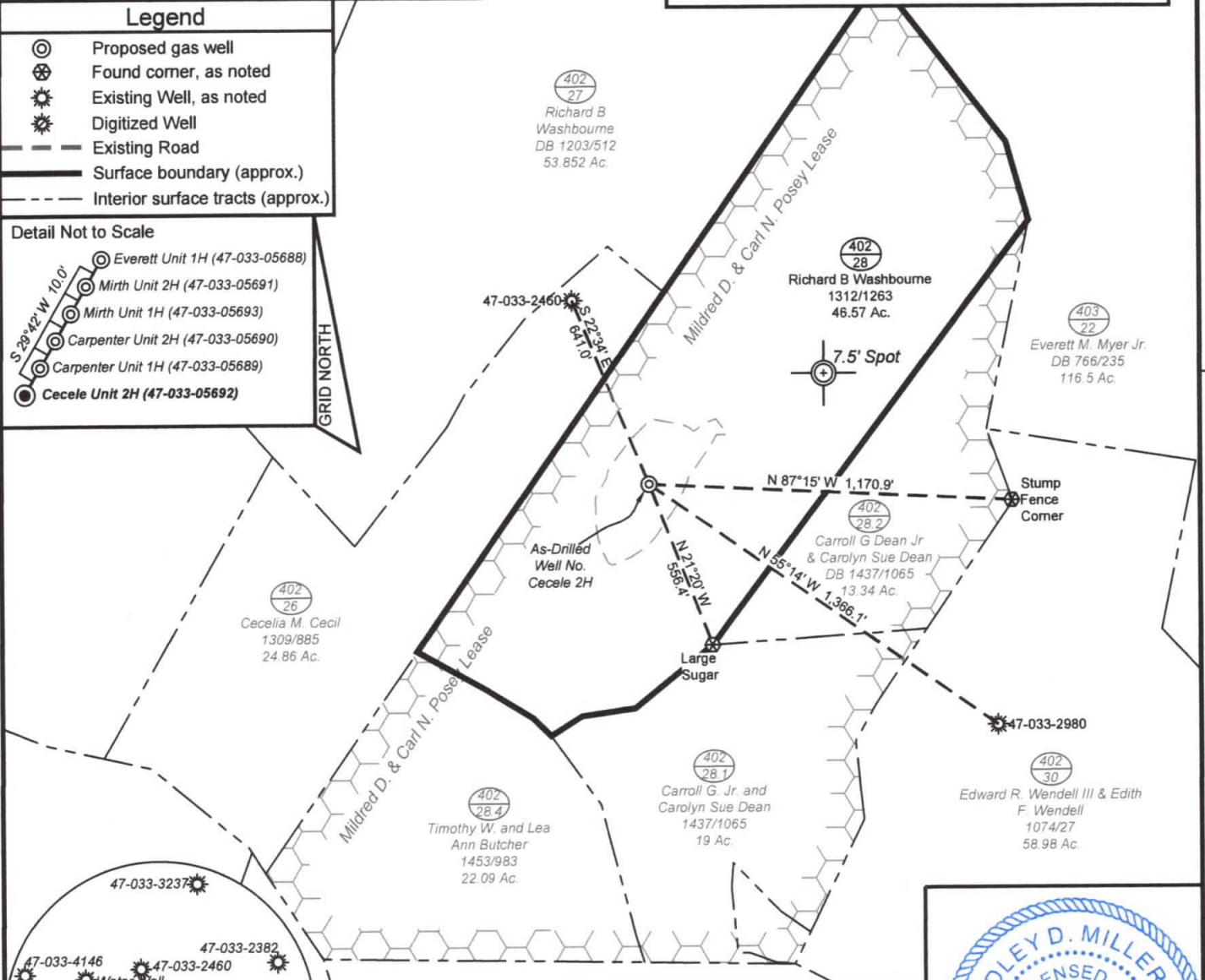
Legend

- ⊙ Proposed gas well
- ⊗ Found corner, as noted
- ☀ Existing Well, as noted
- ☀ Digitized Well
- Existing Road
- Surface boundary (approx.)
- - - Interior surface tracts (approx.)

Detail Not to Scale

- ⊙ Everett Unit 1H (47-033-05688)
- ⊙ Mirth Unit 2H (47-033-05691)
- ⊙ Mirth Unit 1H (47-033-05693)
- ⊙ Carpenter Unit 2H (47-033-05690)
- ⊙ Carpenter Unit 1H (47-033-05689)
- ⊙ Cecele Unit 2H (47-033-05692)

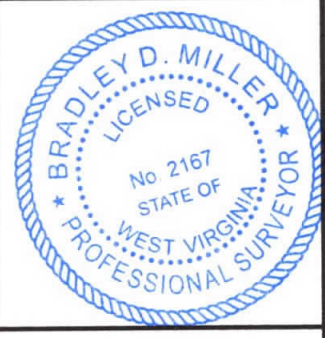
GRID NORTH



Note: 4 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

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.

Bradley D. Miller
 Bradley D. Miller, P.S. 2167



FILE NO: 185-36-U-12
 DRAWING NO: Cecele 2H As-Drilled
 SCALE: 1" = 500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Bridgeport, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: June 3 2020
 OPERATOR'S WELL NO. Cecele 2H
 API WELL NO
 47 - 033 - 5692
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION: ELEVATION: As-Built 1,290' WATERSHED: Middle West Fork Creek QUADRANGLE: Big Issac
 DISTRICT: Union COUNTY: Harrison
 SURFACE OWNER: Richard B. Washbourne ACREAGE: 46.57
 ROYALTY OWNER: Mildred D. & Carl N. Posey LEASE NO: ACREAGE: 102
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled 40' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 40' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
 Denver, CO 80202 Charleston, WV 25313