

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

API 47-051-01835 County Marshall District Clay
Quad Powhatan Point Pad Name MND 1 Field/Pool Name Marcellus
Farm name CNX Gas Company, LLC ET AL Well Number MND 1 CHS
Operator (as registered with the OOG) Noble Energy, Inc.
Address 1001 Noble Energy Way City Houston State Texas Zip 77070

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 39.849932 Easting -80.774322
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1152.08 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)

Date permit issued 05/27/2015 Date drilling commenced 08/01/2015 Date drilling ceased 08/01/2015
Date completion activities began na Date completion activities ceased na
Verbal plugging (Y/N) 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 521' Open mine(s) (Y/N) depths na
Salt water depth(s) ft na Void(s) encountered (Y/N) depths na
Coal depth(s) ft 687-697 Cavern(s) encountered (Y/N) depths na

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

APPROVED
NAME: Justin Kubota
DATE: 8/16/2017

RECEIVED
Office of Oil and Gas
AUG 01 2017
Reviewed by:
WV Department of
Environmental Protection

API 47-051 - 01835 Farm name CNX Gas Company, LLC ET AL Well number MND 1 CHS

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	36"	30"	40'	New	LS/117#		
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
Packer type and depth set							

Comment Details *set only the conductor.

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' Loggers TD (ft) 40'
 Deepest formation penetrated _____ Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) NA

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 _____

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 _____

RECEIVED
Office of Oil and Gas
AUG 01 2017
WV Department of
Environmental Protection

RECEIVED
Office of Oil and Gas
Aug 01 2017
PA Department of Environmental Protection

FILE # MND 01 CHS
DRAWING # MND 01 CHS
SCALE 1"=1600'
MINIMUM DEPTH OF ACCURACY 1/2600'
PROVEN SOURCE U.S.G. MONUMENT H 138 636 58
OF ELEVATION

(-) DENOTES LOCATION OF TOPOGRAPHIC MAPS
WELL ON UNITED STATES WINDER
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

WELL TYPE: Oil Gas Liquid Injection Mastic Disposal Production Deep

WATERSHED: SHORT CREEK/OHIO RIVER
COUNTY/DISTRICT: MARSHALL/CLAY
SURFACE OWNER: CONSOLIDATION COAL COMPANY
MURRAY ENERGY
OIL & GAS ROYALTY OWNER: CNX GAS COMPANY, LLC, ET AL

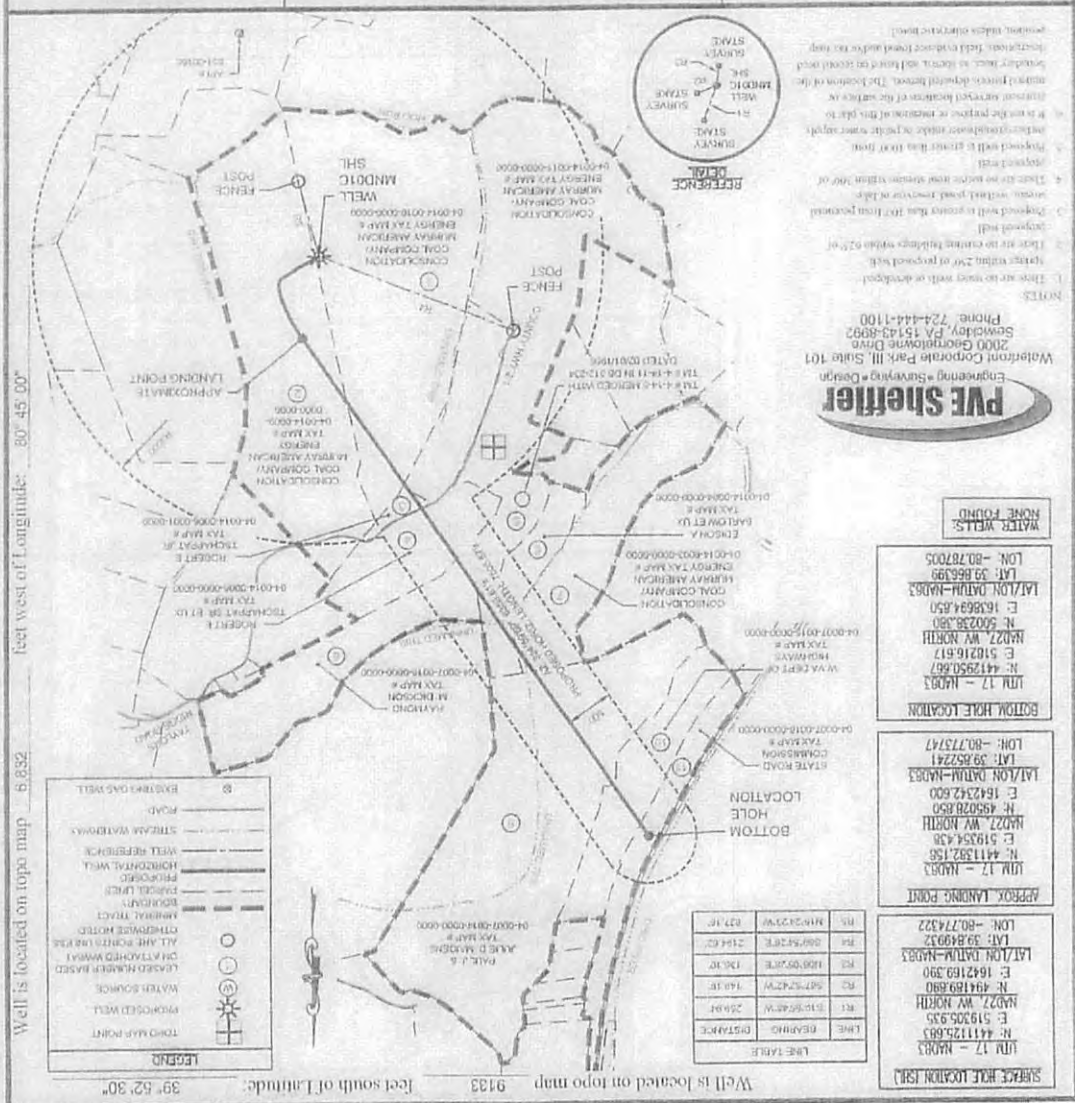
DRILL: CONVERT DRILL DEEPER REPAIR PLUG OLD FORMATION PERFORM NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

ESTIMATED DEPTH: TWD 6,260' TMD 12,520'
DISMANTLED AGENT: JESSICA ALSOP
Address: 301 GOLDEN EAGLE DRIVE
City: MORGANTOWN State: WV Zip Code: 26508

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: *[Signature]*
R.P.E.: 16766 L.L.S. P.S. NO.

DATE: FEBRUARY 12, 2016, REV FEBRUARY 24, 2016
OPERATORS WELL #: MND 01 CHS
APR WELL #: 47 STATE COUNTY PERMIT # 01835



PVE Shetter
Engineering & Surveying Design
107 State Park III, Suite 107
2000 Georgetown Drive
Georgetown, PA 15143-8992
Phone: 724-444-1100

LINE	BEARING	DISTANCE
1	S10°57'45"W	254.84'
2	S87°42'42"W	74.81'
3	S68°05'28"E	136.10'
4	S67°54'23"W	214.63'
5	N46°52'23"W	87.16'