

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

API 47-059-01894 County MINGO District MAGNOLIA
Quad MATEWAN Pad Name _____ Field/Pool Name _____
Farm name QUALITY NATURAL GAS PROPERTIES LTD Well Number 1817
Operator (as registered with the OOG) QUALITY NATURAL GAS, LLC
Address P.O. BOX 480 City ALLEN State KY Zip 41601

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

Elevation (ft) 753 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)
N/A

Date permit issued 1/04/2008 Date drilling commenced 11/3/2009 Date drilling ceased 11/10/2009
Date completion activities began 8/31/2015 Date completion activities ceased 9/01/2015
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 75' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft None Encountered Void(s) encountered (Y/N) depths MAR 09 2016
Coal depth(s) ft 70-73', 220-224' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

RECEIVED
Office of Oil and Gas
MAR 09 2016
WV Department of
Environmental Protection
Reviewed by
APPROVED
NAME: [Signature]
DATE: 5-31-2016
07/15/2016
AX 07/15/16

API 47-059 - 01894 Farm name QUALITY NATURAL GAS PROPERTIES LTD Well number 1817

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	17 1/2"	13 3/8"	103'	New	LS		
Surface	12 1/4"	9 5/8"	319'	New	LS	318', 64'	Y - 2bbl
Coal							
Intermediate 1	8 7/8"	7"	1988'	New	LS	None	Y - 7bbl
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	4557'	New	L-65	None	No - 500' up in 7"
Tubing							
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	Class A						
Surface	Class A	200	15.5	1.18	236	Surface	8
Coal							
Intermediate 1	Class A	150, 135	15.6, 12.3	1.18, 1.84	177, 248.4	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	165	13.6	1.90	313.5	500' up in 7"	8
Tubing							

Drillers TD (ft) 4593 _____ Loggers TD (ft) 4602 _____

Deepest formation penetrated HARRELL SHALE _____ Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) _____

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
For drilling purposes only.

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 4 1/2" only - 4557, 4389,
4222, 4055, 3888, 3721, 3554, 3387, 3220, 3053, 2886 and 2719

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 _____

