

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

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Office of Oil and Gas
DEC 19 2014

**WV Department of
Environmental Protection**

API 47-590-2109 County MINGO District LEE
Quad DELBARTON Pad Name _____ Field/Pool Name _____
Farm name DALLAS T. RUNYON Well Number 2010
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) 727.4 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 10/21/2009 Date drilling commenced 12/18/2009 Date drilling ceased 12/31/2009
Date completion activities began 11/19/2014 Date completion activities ceased 11/24/2014
Verbal plugging (Y/N) N/A 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 103', 198' Open mine(s) (Y/N) depths None Encountered
Salt water depth(s) ft 950' Void(s) encountered (Y/N) depths None Encountered
Coal depth(s) ft 41', 55', 81' Cavern(s) encountered (Y/N) depths None Encountered
Is coal being mined in area (Y/N) No

Reviewed by: _____

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CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	17 1/2"	13 3/8"	115'	New	LS		
Surface	12 3/8"	9 5/8"	256'	New	LS	212', 88'	Yes
Coal							
Intermediate 1	8 7/8"	7"	1,817'	New	LS	None	Yes
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	4,114	New	J-55	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/2 %	150sks	15.5	1.18	177	SURFACE	8
Coal							
Intermediate 1	Class A/2%, Poz Mix	135, 135	15.6, 12.3	1.18, 1.84	159, 248	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	Class A/Kinzer Blenc	155	13.6	1.90	295	500' UP IN 7"	8
Tubing							

Drillers TD (ft) 4,160' Loggers TD (ft) 4,162'
 Deepest formation penetrated Devonian Shale Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) N/A

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 4 1/2" CASING, CENTRALIZERS PLACED @ 3981', 3849', 3718', 3583', 3451', 3318', 3185' 3052' 2919' AND 2787'

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 _____

