

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

API 47 - 590 - 2231 County MINGO District HARDEE  
Quad NAUGATUCK Pad Name \_\_\_\_\_ Field/Pool Name \_\_\_\_\_  
Farm name KIRK, ZELLA D. Well Number 2268  
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) 788.8 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 2/22/2012 Date drilling commenced 5/28/2012 Date drilling ceased 5/31/2012  
Date completion activities began 12/16/2013 Date completion activities ceased 12/19/2013  
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 NONE Open mine(s) (Y/N) depths NONE  
Salt water depth(s) ft 980' (1" H2O) Void(s) encountered (Y/N) depths NONE  
Coal depth(s) ft \_\_\_\_\_ Cavern(s) encountered (Y/N) depths NONE  
Is coal being mined in area (Y/N) NO

RECEIVED  
Office of Oil and Gas  
JAN 14 2014  
WV Department of  
Environmental Protection  
Reviewed by:  
03/07/2014

API 47-590 - 2231 Farm name KIRK, ZELLA D. Well number 2268

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"	42'	NEW	L.S.	-	-
Surface	12 1/4"	9 5/8"	264'	NEW	L.S.	88'	Y
Coal							
Intermediate 1	8 7/8"	7"	1739'	NEW	L.S.	294', 1655'	Y
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	3664'	NEW	J55	NONE	N-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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	N/A						
Surface	CLASS A	115	15.6	1.18	135 (23 BBL)	SURFACE	8
Coal							
Intermediate 1	CLASS A	140, 100	13.2, 16.6	1.84, 1.18	257 (48bbl), 118 (22bbl)	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	135	15.6	1.9	256 (46 BBL)	500' IN 7"	24
Tubing							

Drillers TD (ft) <sup>3670</sup> \_\_\_\_\_ Loggers TD (ft) <sup>3677</sup> \_\_\_\_\_  
 Deepest formation penetrated HARRELL SHALE (GENESEE) Plug back to (ft) <sup>N/A</sup> \_\_\_\_\_  
 Plug back procedure <sup>N/A</sup> \_\_\_\_\_

Kick off depth (ft) <sup>N/A</sup> \_\_\_\_\_

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"-3487', 3311', 3135', 2958', 2782', 2605', 2430', 2253'

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 \_\_\_\_\_





