

PM

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

API 47-059-02234 County MINGO District MAGNOLIA
Quad DELBARTON Pad Name _____ Field/Pool Name _____
Farm name EVALYNN KINDER, ET AL Well Number 2317
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) 952.5 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 05/07/2012 Date drilling commenced 5/02/2014 Date drilling ceased 5/11/2014
Date completion activities began 9/22/2015 Date completion activities ceased 9/23/2015
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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5/11/2014
9/23/2015
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft NONE ENCOUNTERED Open mine(s) (Y/N) depths N
Salt water depth(s) ft NONE ENCOUNTERED Void(s) encountered (Y/N) depths Y (74-80')
Coal depth(s) ft N Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: 
12/04/2015

API 47-059 - 02234 Farm name EVALYNN KINDER, ET AL Well number 2317

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"	105'	New	LS	63'	Yes, Grouted to surface
Surface	12 1/4"	9 5/8"	265'	New	LS	44', 132'	Yes, 5bbl
Coal							
Intermediate 1	8 7/8"	7"	2168'	New	LS		Yes, 7bbl
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	4277'	New	L-65		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	75	15.5	1.18	88.5	Surface	8
Surface	Class A	110	15.5	1.18	129.8	Surface	8
Coal							
Intermediate 1	Class A	100, 175	15.6, 12.3	1.18, 1.84	118, 322	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	160	13.6	1.90	304	500' up in 7"	8
Tubing							

Drillers TD (ft) 4300 Loggers TD (ft) 4310
 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 4102.40, 3927.84, 3753.26
3578.68, 3404.10, 3229.52, 3054.94, 2880.30, 2705.78 and 2531.20

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 _____

WELL #2317

API#47-5902234

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
DIRT	0	3			
SAND/SHALE	3	780			
SAND	780	995			
SHALE	995	1012			
SAND/SHALE	1012	1200			
SAND	1200	1230			
SAND/SHALE	1230	1290			
SAND	1290	1320			
SAND/SHALE	1320	1380			
SAND	1380	1530			
SAND/SHALE	1530	1580			
SAND/SHALE/LIME/RR	1580	1620			
SAND/SHALE	1620	1710			
SAND	1710	1730			
SAND/SHALE/LIME/RR	1730	1878			
SAND/SHALE	1878	2010			
SAND/SHALE/RED ROCK	2010	2115			
LITTLE LIME	2115	2158			
BIG LIME	2158	2367			
INJUN	2367	2455			
WEIR	2455	2760			
GRAY SHALE	2760	2995			
COFFEE SHALE	2995	3040			
BEREA	3040	3092			
GRAY SHALE	3092	3410			
BROWN SHALE	3410	3485			
GRAY SHALE	3485	4052			
BROWN SHALE	4052	4180			
HARRELL SHALE	4180	4300			

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