

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

JR

pm

API 47-017-06367 County Doddridge District Cove
Quad Oxford Pad Name Bode Field/Pool Name _____
Farm name Ryan C. Shields & Lisa Shields Well Number B-858
Operator (as registered with the OOG) Berry Energy Inc.
Address 310 Stiles Street City Clarksburg State WV Zip 26302

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4332433.7 Easting 521514.3
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1128 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)
NA

Date permit issued 10/02/2013 Date drilling commenced 02/10/2014 Date drilling ceased 02/16/2014
Date completion activities began 03/31/2014 Date completion activities ceased 03/31/2014
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 134' Open mine(s) (Y/N) depths N
Salt water depth(s) ft N Void(s) encountered (Y/N) depths _____
Coal depth(s) ft NONE Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

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API 47-017 - 06367 Farm name Ryan C. Shields & Lisa Shields Well number B-858

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"	30'	NEW	37#	N	Y
Surface	12 1/4"	9 5/8"	210'	NEW	26#	N	Y
Coal							
Intermediate 1	8 7/8"	7"	1275'	NEW	17#	N	Y
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2900'	NEW	10.5#	N	N
Tubing		2 3/8"	2823'	NEW	4.2#	N	N
Packer type and depth set		N/A					

Comment Details Cement circulated to surface on 13", 9 5/8", and 7".

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	Type 1/ 3% CaCl .25 flake	10	15.6	1.18	88.5	Surface	12
Surface	Type 1/ 3% CaCl .25 flake	75	15.6	1.18	88.5	Surface	12
Coal							
Intermediate 1	Type 1/3% CaCl 2% gel .25 flake	200	14.8	1.4	280	Surface	12
Intermediate 2							
Intermediate 3							
Production	CBL Poz	100	13.5	1.54	154	1470'	24
Tubing							

Drillers TD (ft) 3090 Loggers TD (ft) 3090
 Deepest formation penetrated Gordon Plug back to (ft) na
 Plug back procedure na

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 Centralizers on 4 1/2" from 2000' to 2900', spaced every 125'.

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 _____

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Formation	Top	Bottom	Remarks
TGL	0	7	
FILL/CLAY	7	10	
SANDY SHALE	10	15	
SHALE	15	17	
SANDY SHALE	17	20	
SAND	20	40	
RED SHALE	40	55	
SHALE	55	105	
RED SHALE	105	125	
SAND	125	150	
RED SHALE	150	160	
SAND	160	180	
RED SHALE	180	230	
SHALE	230	330	
REDROCK	330	390	
SHALE	390	450	
COAL	450	453	Damp @ 450'
SHALE	453	510	
SAND	510	540	
SHALE	540	570	
SAND	570	630	
SHALE	630	690	
SANDY SHALE	690	890	
RED SHALE	890	945	
SHALE	945	1010	
RED SHALE	1010	1070	
SANDY SHALE	1070	1220	
SHALE	1220	1300	
SAND & SHALE	1300	1700	
SHALE	1700	1920	
SAND & SHALE	1920	2000	
SAND	2000	2200	
SHALE	2200	2280	
SAND	2280	2430	
SHALE	2430	2520	
SANDY SHALE	2520	2550	
SHALE	2550	2940	
SANDY SHALE	2940	3090	

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