

WR-35  
Rev. 8/23/13

JUN 02 2015

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

API 47-039-06368 County KANAWHA District ELK  
Quad BLUE CREEK 7.5' Pad Name N/A Field/Pool Name BLUE CREEK  
Farm name ANNA C. SKINNER Well Number 28  
Operator (as registered with the OOG) C. I. MCKOWN & SON, INC.  
Address P.O. BOX 711 City NEWTON State WV Zip 25266

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,254,413 Easting 464,879  
Landing Point of Curve Northing \_\_\_\_\_ Easting \_\_\_\_\_  
Bottom Hole Northing \_\_\_\_\_ Easting \_\_\_\_\_

Elevation (ft) 1099 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) \_\_\_\_\_

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Date permit issued 07/24/14 Date drilling commenced 12/04/14 Date drilling ceased 12/09/14  
Date completion activities began 12/16/14 Date completion activities ceased 02/25/15  
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 N/A Open mine(s) (Y/N) depths NO  
Salt water depth(s) ft +/- 340 Void(s) encountered (Y/N) depths NO  
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths NO  
Is coal being mined in area (Y/N) NO

Reviewed by:  
AL G/B/15V  
W.S. 06/05/2015

API 47-039 - 06368

Farm name ANNA C. SKINNER

Well number 28

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							
Surface	8 7/8"	7"	629'	USED	20	153'	YES
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2241	NEW/USED	10.5/11.6	N/A	YES
Tubing		2 3/8"	2181	USED	4.6		
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							
Surface	A	120	15.6	1.20	144	CTS	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50/50 POZ	230	14.4	1.28	234	+/- 26	N/A
Tubing							

Drillers TD (ft) 2270

Loggers TD (ft) 2268

Deepest formation penetrated WEIR

Plug back to (ft) N/A

Plug back procedure \_\_\_\_\_

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 \_\_\_\_\_

PRODUCTION - 4 1/2" CASING CENTRALIZERS 2028,2071,2114,2156

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No

DETAILS \_\_\_\_\_

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WAS WELL COMPLETED OPEN HOLE?  Yes  No

DETAILS \_\_\_\_\_

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WERE TRACERS USED  Yes  No

TYPE OF TRACER(S) USED \_\_\_\_\_

06/05/2015



API 47- 039 - 06368 Farm name ANNA C. SKINNER Well number 28

PRODUCING FORMATION(S)	DEPTHS	
weir	2086 - 2148	TVD 2086 - 2148 MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 250 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 168 hrs

OPEN FLOW Gas 80 mcfpd Oil 5 bpd NGL \_\_\_\_\_ bpd Water TRACE bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP		BOTTOM		DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	DEPTH IN FT NAME	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
SOIL/SAND	0	22	0		
SHALE	22	260			
SAND	260	320			
SHALE	320	380			
SAND	380	410			
SHALE	410	770			
SAND/SHALE	770	1064			
SAND	1064	1283			
SAND/SHALE	1283	1332			
SAND	1332	1415			
SHALE	1415	1430			
SAND	1430	1482			
SHALE	1482	1643			
LIME	1643	1904			

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Please insert additional pages as applicable.

Drilling Contractor DECKER DRILLING  
Address 11565 STATE ROUTE 676 City VINCENT State OH Zip 45784

Logging Company APPALACHAIN WELL SURVEYS  
Address P.O. BOX 1058 City CAMBRIDGE State OH Zip 43725

Cementing Company UNIVERSAL WELL SERVICES  
Address P.O. BOX 2437 City BUCKHANNON State WV Zip 26201

Stimulating Company UNIVERSAL WELL SERVICES  
Address P.O. BOX 2437 City BUCKHANNON State WV Zip 26201

Please insert additional pages as applicable.

Completed by C. McKOWN, II Telephone (304) 565-7318  
Signature [Signature] Title PRESIDENT Date 05/27/2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

06/05/2015





