

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

API 47-039-06357 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 SKINNER NO. 27
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 4,253,970 Easting 464,001
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1057' 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)

Date permit issued 4/9/2013 Date drilling commenced 5/6/2013 Date drilling ceased 5/9/2013
Date completion activities began 5/30/2013 Date completion activities ceased 6/21/2013
Verbal plugging (Y/N) NO Date permission granted _____ Granted by [Signature]

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 +/- 1250' 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: _____

02/28/2014

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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"	591'	USED	20	169	YES
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2192'	NEW/USED	10.5/11.6	N/A	YES
Tubing		2 3/8"	2124'	USED	4.6		
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							
Surface	CLASS A	100	15.6	1.18	118	CTS	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50/50 POZ	230	14.4	1.29	297	86	N/A
Tubing							

Drillers TD (ft) 2240' Loggers TD (ft) 2234'
 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 -
2024', 2066', 2107' & 2150'

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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PRODUCING FORMATION(S)	DEPTHS	
WEIR	2020' - 2102'	TVD 2020' - 2102' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 315 psi Bottom Hole _____ psi DURATION OF TEST 168 hrs

OPEN FLOW Gas 80 mcfpd Oil 10 bpd NGL _____ bpd Water TRACE bpd GAS MEASURED BY Estimated Orifice Pilot

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, H ₂ S, ETC)
SANDROCK	0	25	0		
SAND	25	70			
SHALE	70	120			
SAND	120	325			
SHALE	325	340			
SAND	340	460			
SHALE	460	500			
SAND	500	510			
SHALE	510	620			
SAND	620	710			
SHALE	710	770			
SAND	770	800			
SHALE	800	1010			
SAND	1010	1140			SEE ADDITIONAL PAGE

Please insert additional pages as applicable.

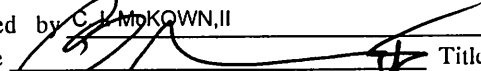
Drilling Contractor DECKER DRILLING, INC.
Address 11565 STATE ROUTE 676 City VINCENT State OH Zip 45784

Logging Company PRECISION ENERGY SERVICES/WEATHERFORD
Address 500 WINSOTT ROAD City FORT WORTH State TX Zip 78126

Cementing Company UNIVERSAL WELL SERVICES
Address PO BOX 2437 City BUCKHANNON State WV Zip 26201

Stimulating Company UNIVERSAL WELL SERVICES
Address PO BOX 2437 City BUCKHANNON State WV Zip 26201

Please insert additional pages as applicable.

Completed by C. J. McKOWN, II Telephone (304) 565-7318
Signature  Title PRESIDENT Date 12/10/2013

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

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CONTINUED					
SHALE	1140	1150			
SAND	1150	1439			
SHALE	1439	1450			
SAND	1450	1485			
SHALE	1485	1610			
SAND	1610	1629			
SHALE	1629	1639			
LIME	1639	1855			
SHALE	1855	2020			
SAND	2020	2102			
SHALE	2102	2234			

