

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

API 47-039-06355 County KANAWHA District ELK
Quad BLUE CREEK 7.5' Pad Name N/A Field/Pool Name BLUE CREEK
Farm name R. P. SKINNER Well Number SKINNER NO. 5
Operator (as registered with the OOG) PETRO HOLDINGS, INC.
Address P.O. BOX 987 City SPENCER State WV Zip 25276

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,254,240 Easting 463,579
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1013' 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 4/12/2013 Date drilling commenced 5/9/2013 Date drilling ceased 5/15/2013
Date completion activities began 5/30/2013 Date completion activities ceased 8/19/2013
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 + or - 1200' 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"	542'	USED	20	154'	YES
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	2173'	NEW/USED	10.5/11.6	N/A	YES
Tubing		2 3/8"	2118'	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	TYPE I	100	15.6	1.18	118	CTS	8
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50/50 POZ	225	14.4	1.29	290	CTS	N/A
Tubing							

Drillers TD (ft) 2210' Loggers TD (ft) 2204'
 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 - 2013', 2057', 2091' & 2131'

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			
	2029' - 2089'	TVD	2029' - 2089'	MD
WEIR				

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 330 psi Bottom Hole _____ psi DURATION OF TEST 168 hrs

OPEN FLOW Gas 90 mcfpd Oil 10 bpd NGL _____ bpd Water TRACE bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
REDROCK	0	40	0		
SHALE	40	150			
REDROCK	150	160			
SHALE	160	320			
REDROCK	320	350			
SAND	350	380			
SHALE	380	830			
SAND	830	870			
SHALE	870	920			
SAND	920	935			
SHALE	935	980			
SAND	980	1230			
SHALE	1230	1237			
SAND	1237	1474			SEE ADDITIONAL PAGE

Please insert additional pages as applicable.

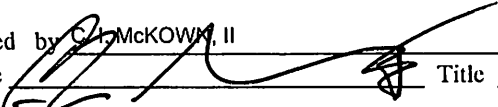
Drilling Contractor DECKER DRILLING INC.
Address 11565 STATE ROUTE 676 City VINCENT State OH Zip 45784

Logging Company PRECISION ENERGY SERVICES/WEATHEFORD
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. McKOWN, II Telephone (304) 565-7318
Signature  Title PRESIDENT, TEMPEST ENERGY CORP, OWNER Date 12/10/2013

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

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CONTINUED					
SHALE	1474	1590			
SAND	1590	1610			
SHALE	1610	1620			
LIME	1620	1841			
SHALE	1841	2029			
SAND	2029	2089			
SHALE	2089	2204			

02/28/2014

