

CB

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

ORIGINAL

API 47-15-02895 County CLAY District UNION
Quad ELKHURST 7.5' Pad Name _____ Field/Pool Name _____
Farm name CHESSIE CONNER, ET AL Well Number J.S. COCHRAN #6H
Operator (as registered with the OOG) CUNNINGHAM ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE City CHARLESTON State WV Zip 25302

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) 1,215' 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)
SOAP

Date permit issued 1/31/2014 Date drilling commenced 2/15/2014 Date drilling ceased 6/6/2014
Date completion activities began NONE Date completion activities ceased NONE
Verbal plugging (Y/N) PERMIT ACQUIRED Date permission granted 6/18/2014 Granted by DEP-OOG

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 200' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1475' - 1525' Void(s) encountered (Y/N) depths N
Coal depth(s) ft NO COAL LISTED ON TITLE Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:

JAN 15 2015

01/23/2015

API 47- 15 - 02895 Farm name CHESSIE CONNER, ET AL Well number J.S. COCHRAN #6H

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	14 1/4"	13 3/8"	30'	NEW	J-65	NONE	YES - CEMENTED BY RIG
Surface	12 1/4"	9 5/8"	350'	NEW	J-65	90'	YES
Coal							
Intermediate 1	8 3/4"	7"	1750'	NEW	J-55	350'	YES
Intermediate 2							
Intermediate 3							
Production	NONE						
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 I	10 - CEMENTED BY RIG				GROUND LEVEL	8
Surface	CLASS I	150	15.6	1.36	204	GROUND LEVEL	8
Coal							
Intermediate 1	CLASS I	240	15.6	1.36	326.4	GROUND LEVEL	8
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 4863' TOTAL MVD Loggers TD (ft) 4863'
 Deepest formation penetrated INJUN Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 1560'

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 9 5/8" - 3rd joint; 7" - 3rd joint

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS N/A

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
	TVD	MD
NONE		

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ 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	
SAND/SHALE	0	333'	0		
SAND	333'	525'			
SAND/SHALE	528'	1253'			
SALT	1253'	1738'			
SHALE	1738'	1883'			
MAXTON	1883'	1938'			
LITTLE LIME	1938'	1943'			
BIG LIME	1943'	2003'			
BIG INJUN	2003'	2103'	2003'	4863'	

Please insert additional pages as applicable.

Drilling Contractor CUNNINGHAM ENERGY, LLC
Address 3230 PENNSYLVANIA AVENUE City CHARLESTON State WV Zip 25302

Logging Company PRECISE WELL ANALYSIS
Address 1426 BARTH ROAD City BELPRE State OH Zip 45714

Cementing Company UNIVERSAL WELL SERVICES
Address 5 HALL RUN ROAD City BUCKHANNON State WV Zip 25201

Stimulating Company NONE
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Danielle N. Boggs Telephone 304-344-9291
Signature Danielle N. Boggs Title Operations Manager Date 1/9/2015

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