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

API 47-021-05759 County GILMER District DEKALB
Quad GLENVILLE Pad Name _____ Field/Pool Name _____
Farm name CHARLES E. TALBOTT Well Number TALBOTT WOLFE #4
Operator (as registered with the OOG) ROY G. HILDRETH AND SON, INC.
Address P. O. BOX 1007 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 713,121 Easting 2,005,990
Landing Point of Curve Northing N/A Easting N/A
Bottom Hole Northing _____ Easting _____

Elevation (ft) 745' 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)
CLA STA, SOAP (DISCHARGE/PIT FROM TALBOTT WOLFE #2 WAS TRANSPORTED TO #4 PIT)
LIME TREATED IN SPRING 14'

Date permit issued 5/7/2013 Date drilling commenced 8/11/13 Date drilling ceased 8/29/13
Date completion activities began 8/29/13 Date completion activities ceased 5-5-2014
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 60' Open mine(s) (Y/N) depths NO
Salt water depth(s) ft NONE Void(s) encountered (Y/N) depths NO
Coal depth(s) ft NONE Cavern(s) encountered (Y/N) depths NO
Is coal being mined in area (Y/N) NO

RECEIVED
Office of Oil and Gas
NOV 06 2014
Reviewed by:
WV Department of Environmental Protection
12/12/2014

API 47- 021 - 05759 Farm name CHARLES E. TALBOTT Well number TALBOTT WOLFE #4

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	11"	9 5/8"			36#		PULLED
Surface	8 7/8"	7"	372	NEW	17#	44'	YES, CTS *
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	1992	NEW	11.6#		NO, 500' TOP OF CEMENT
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 ²)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	CLASS A-I	75	15.6	1.18	88	CTS + 40% EXCESS	12
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production	50/50 POZ	95	14.2	1.29	122.6	500'	
Tubing							

Drillers TD (ft) ²⁰¹⁸ _____ Loggers TD (ft) ²⁰¹⁸ _____
 Deepest formation penetrated WIER, MAXON, LITTLE LIME, SALT SAND Plug back to (ft) N/A
 Plug back procedure N/A

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 7" @ 328, 130
4 1/2" @ 1905'

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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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		1737	1789	18	WIER
		1404	1414	20	MAXON
		1326	1330	10	3RD SALT SAND
		1099	1130	17	2ND SALT SAND

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	8/29/13	10.3	2063	2873	1234	30,100	243	228,466
2	8/29/13	8.1	2829	3578	1590	15,000	203	243,160
3	8/29/13	7.5	2829	1688	2281	21,100	196	240,518

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS		
WIER	1726	TVD	1810 MD
MAXON	1400		1430
LITTLE LIME	1320		1350
SALT SAND	1090		1175

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 375 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas Oil NGL Water GAS MEASURED BY
SHOW mcfpd SHOW bpd _____ bpd _____ bpd 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)
SLATE & SHALE	0	835	0		
SALT SAND	835	880	1726	1810	WIER
SLATE & SHALE	880	950	1810	2018	SLATE & SHALE
SALT SAND	950	1008			
SLATE & SHALE	1008	1090			
SALT SAND	1090	1175			
SLATE & SHALE	1175	1320			
LITTLE LIME	1320	1350			
SLATE & SHALE	1350	1400			
MAXON	1400	1430			
SLATE & SHALE	1430	1480			
BIG LIME	1480	1574			
BIG INJUN	1574	1616			
SLATE & SHALE	1616	1726			

Please insert additional pages as applicable.

Drilling Contractor TOP DRILLING CORPORATION
Address 107 LANCASTER STREET, SUITE 301 City MARIETTA State OH Zip 45750

Logging Company NABORS COMPLETION & PRODUCTION SERVICES, INC. (BOND & OPEN HOLE)
Address P O BOX 975682 City DALLAS State TX Zip 75397-5682

Cementing Company UNIVERSAL WELL SERVICES, INC. (4 1/2") ADDRESS AS BELOW
Address ROY G. HILDRETH & SON, INC. DID 7" City _____ State _____ Zip _____

Stimulating Company UNIVERSAL WELL SERVICES, INC.
Address P O BOX 200969 City DALLAS State TX Zip 75320

Please insert additional pages as applicable.

Completed by JON R. HILDRETH Telephone 304-927-2130
Signature *Jon R. Hildreth* Title SECRETARY Date 10/24/14

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

12/12/2014