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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 47-085-10024 County Ritchie District Grant
Quad Harrisville 7.5' Pad Name na Field/Pool Name na
Farm name Coastal Lumber Company Well Number Deem #1
Operator (as registered with the OOG) Energy Corporation of America
Address 501 56th St. City Charleston State WV Zip 25304

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4343017.5 Easting 491144.4
Landing Point of Curve Northing na Easting na
Bottom Hole Northing na Easting na

Elevation (ft) 1105 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 Not completed
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 2/14/13 Date drilling commenced 3/22/13 Date drilling ceased 3/29/13
Date completion activities began well was not completed Date completion activities ceased na
Verbal plugging (Y/N) na Date permission granted na Granted by na

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

Freshwater depth(s) ft 100 Open mine(s) (Y/N) depths Office of Oil and Gas
Salt water depth(s) ft na Void(s) encountered (Y/N) depths JUN 06 2014
Coal depth(s) ft na Cavern(s) encountered (Y/N) depths n
Is coal being mined in area (Y/N) n

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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	17 1/2"	13 3/8"	40	N	43.6#/ft	na	Driven
Surface	12 1/4"	9 5/8"	420	N	26#/ft	40'	Y, Circ 10 bbl stayed at surface
Coal							
Intermediate 1	8 7/8"	7"	1700	N	17#/ft	40'	Y, Circ 7 bbl, stayed at surface
Intermediate 2							
Intermediate 3							
Production	6 1/2"						
Tubing							
Packer type and depth set							

Comment Details Drilled well to a TD of 3800' w/ 6.5" Bit, Logged well, logs did not show zones to be productive, plan to plug back and kickoff horizontally were canceled. Hole loaded with 3% KCl

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	Driven						
Surface	Class A	190	15.6	1.20	228	Surface	8
Coal							
Intermediate 1	Class A	255	14.8	1.40	357	Surface	8
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 3800 Loggers TD (ft) 3805
 Deepest formation penetrated Warren Plug back to (ft) na
 Plug back procedure na

Kick off depth (ft) na

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 Centralizers placed on Shoe and every 200' to surface on both the surface and intermediate. Production casing was not run.

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

na _____ na _____ TVD na _____ MD _____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

OPEN FLOW Gas na _____ mcfpd Oil na _____ bpd NGL na _____ bpd Water na _____ 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	
Fill	0	32	0	32	Fill
Sandstone	32	500	32	500	Sandstone/Clay stringers with little water present
Siltstone	500	750	500	750	Siltstone/Shale
Sandstone	750	900	750	900	Sandstone
Silty Shale	900	1300	900	1300	Siltstone/Shale Stringers
Sandstone	1300	1700	1300	1700	Sandstone/Oil Show
Siltstone	1700	1894	1700	1894	Silty/Shale
Big Lime	1894	2050	1894	2050	Limestone
Big Injun	2050	2130	2050	2130	Sandstone/Oil Show
Weir Sandstone	2130	2270	2130	2270	Sandstone
Berea Sandstone	2460	2480	2460	2480	Sandstone
Gantz Sandstone	2567	2592	2567	2592	Sandstone/Oil Show
Gordon	2718	2850	2718	2850	Sandstone
Warren	3529	3625	3529	3625	Siltstone/Slight Oil Show

Please insert additional pages as applicable.

Drilling Contractor R&R Well Services L.L.C.
 Address 42 Lynch Ridge City Walton State WV Zip 25286

Logging Company Weatherford US LP
 Address 584 Hackers Creek Rd. City Jane Lew State WV Zip 26378

Cementing Company Universal Well Services
 Address RT. 5 Hall Road City Buckhannon State WV Zip 26201

Stimulating Company NA
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Lowell Warden Telephone 304-925-6100
 Signature [Signature] Title VP of Business Development Date 6/5/14

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