

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Department, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: US Dept of Interior Operator Well No.: 7435

LOCATION: Elevation: 3180.1 ft (969.3 m) Quadrangle: Glady, WV  
District: Dry Fork County: Randolph  
Latitude: 954 Feet South of 38 Deg. 47 Min. 00 Sec.  
Longitude: 1786 Feet West of 79 Deg. 40 Min. 30 Sec.

Well Type: OIL \_\_\_\_\_ GAS X (storage)

Company Columbia Gas Transmission, LLC Coal Operator N/A - not operated  
1700 MacCorkle Ave SE or Owner \_\_\_\_\_  
Charleston, WV 25325-1273 \_\_\_\_\_  
Agent Paul Amick Coal Operator \_\_\_\_\_  
Permit Issued Date 4/28/2015 or Owner \_\_\_\_\_

AFFIDAVIT

STATE OF WEST VIRGINIA,  
County of Randolph ss:

James Amos and Rick Conley being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well say that said work was commenced on the 21 day of September, 2015, and the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT
cement	0'	841'	2-3/8" & 8-5/8"	11-3/4" (0 - 745') & 16" (0 - 33')
6% gel	841'	1967'	2-3/8" & 8-5/8"	none
cement	1967'	2670'	2-3/8" & 8-5/8" (1967 - 2550')	8-5/8" (2550 - 2670')
6% gel	2670'	4718'	2-3/8"	8-5/8"
mechanical bridge plug	4718'	4718'	2-3/8"	8-5/8"
6% gel	4718'	4791'	2-3/8"	8-5/8"
cement	4791'	5510'	2-3/8" (4791 - 5327')	8-5/8"

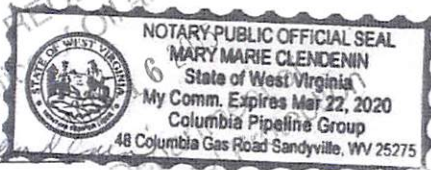
Description of monument: 8-5/8" steel casing with API No tack-welded on side and that the work of plugging and filling said well was completed on the 14 day of October, 2015.

And further deponents saith not. [Signature]

\* Refer to post P&A wellbore schematic

Sworn and subscribe before me this 22nd day of October, 2015

My commission expires: 3/22/2020 Mary Marie Clendenin  
Notary Public



Affidavit reviewed by the Office of Oil and Gas: [Signature] Title: Inspector

TYPE	FROM	TO	PIPE REMOVED	LEFT
formation / fill	5510'	5547' (TD)	none	8-5/8"

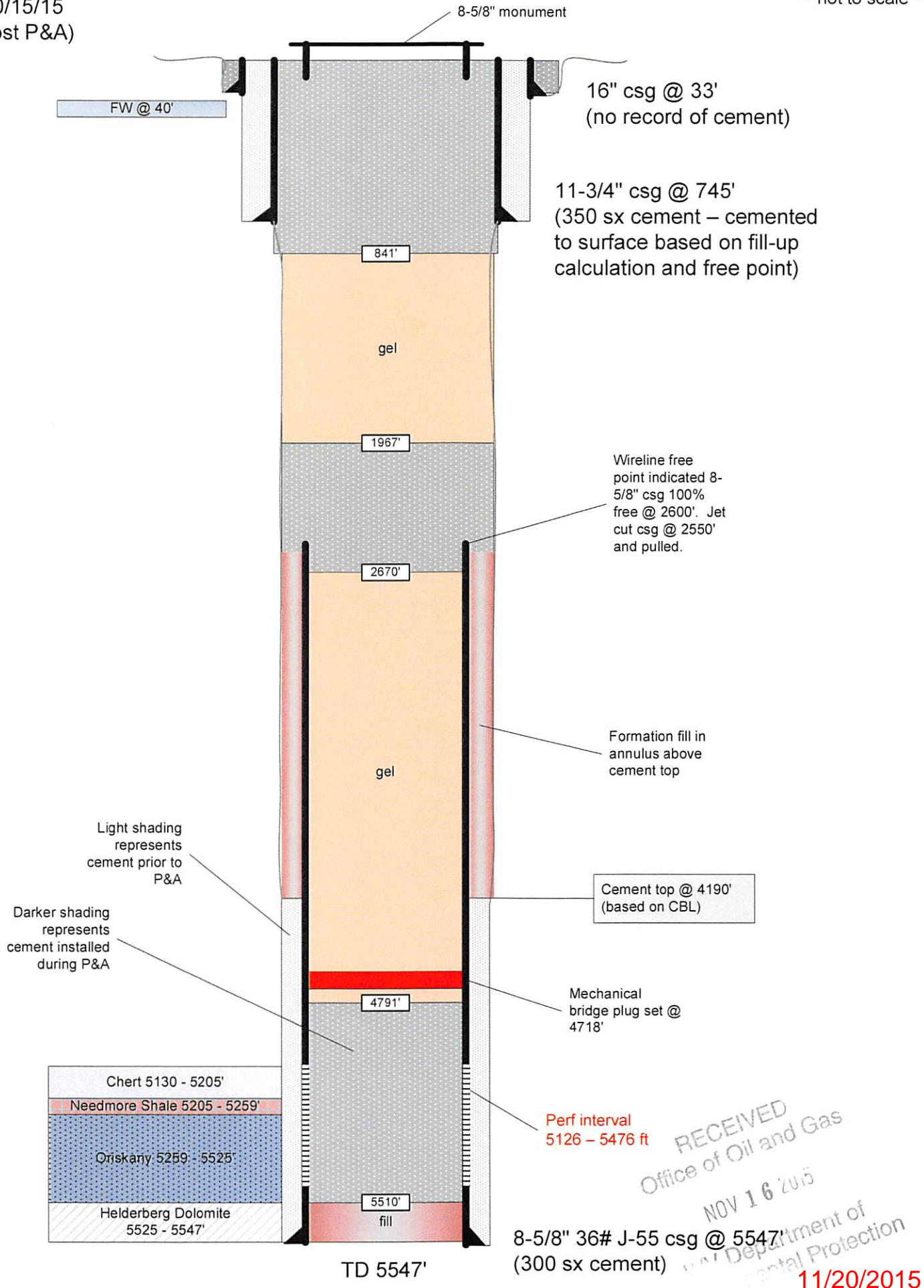
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WV Department of  
Environmental Protection

11/20/2015

**GLADY 7435**

10/15/15  
(Post P&A)

~ not to scale ~



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# Glady - 07435      Work Order: 45784      Daily Details Report

Date	Hours	Gas Lost (mcf)	Rig Contractor
4/16/2015			CH2M Hill conducted a wetland and waterbody survey of location and road for culvert replacement.
4/22/2015			CH2M Hill finished wetland and waterbody survey of location and road.
8/31/2015			Started road and location prep.
9/1/2015			Continued road and location prep.
9/2/2015			Continued road and location prep.
9/3/2015			Continued road and location prep.
9/8/2015			Continued road and location prep.
9/9/2015			Continued road and location prep.
9/10/2015			Continued road and location prep.
9/15/2015			Key MI and filled fresh water tanks and began filling drilling mud tanks.
9/16/2015			Select Energy continued hauling and filling drilling mud tanks. MI flowback tank and iron. Hauled stone for lease road.
9/17/2015			Continued hauling stone for lease road and MI drilling fluid.
9/18/2015			Continued location prep.
9/19/2015			Continued location and lease road prep.
9/21/2015			SICP: 1871 psig. Killed well down tubing with 8.6 ppg drilling fluid and vented gas from casing per schedule. Circulated second bottoms up and SIFN.
9/22/2015			SICP: 0 psig. Pumped 7.5 bbls additional drilling fluid to top well off and SIFN. Varner continued installing environmental barriers and dug out wellhead below ground in pit.
9/23/2015			MI CSI Rig #1 equipment and BOP stack, finished cleanup around wellhead and cemented drain in well pit.
9/25/2015			Staged in rig equipment.
9/26/2015			Staged in rig. Cut wellhead bolts and replaced with new bolts.
9/27/2015			MI CSI Rig #1.
9/28/2015			SIPC: 0 psig. RU CSI Rig #1. Mixed salt to weight up fluid to 9.0 ppg and circulated two bottoms up. SIFN.
9/29/2015			SICP: 0 psig. Installed 9" BOP and performed high-low pressure tests. Unseated tubing hanger, pulled 5296.65' of 2-3/8" J-55 4.6 lb 10rd NU tubing and laid tubing down on CSI trailer. SIFN.
9/30/2015			MIRU BALS and ran CBL from 5455' to 1500'. Unloaded drillpipe from Key Energy trailer onto pipe racks. Prepared to RIH with 2-7/8" drillpipe and SIFW.
10/1/2015			Varner hauled stone for ROW.
10/2/2015			Varner hauled stone and graded ROW.
10/6/2015			RIH with 2-7/8" drillpipe to 5462' and tagged fill. Reverse-circulated drillpipe down to 5488' plus an additional 30 bbls. MIRU Universal for cementing operations, but found fresh water foaming in mixer. Halted operations and SIFN.
10/7/2015			MI Key Energy with fresh water. Tagged TD with drillpipe at 5512' GL. Universal set bottom cement plug from 5510'-4700' using 48.9 bbls Type I cement (0.5% CR3, 18% NaCl, 12 lb per sk celloflake) and displaced with 20.9 bbls drilling mud. Pulled 30 jts drillpipe and reverse-circulated with 42 bbls drilling mud, then pulled 10 stands drillpipe and SIFN.
10/8/2015			RBH and tagged top of bottom-hole cement plug at 4791'. Key MI 500 bbl fresh water tank and Select Energy filled and hauled out contaminated fresh water. Universal gelled hole from 4766' to surface. RDMO Universal. POOH with work string.
10/9/2015			ND 9" BOP stack and removed top half of wellhead. MIRU BALS, RIH with sinker bar and tagged cement at 4765'. Set Baker N-1 cast iron plug at 4718'. RDMO loggers. Pulled on 8-5/8" casing and discovered that 11-3/4" casing was collapsed under well base. SDFN.



Glady - 07435

Work Order: 45784

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Date	Hours	Gas Lost (mcf)	Rig Contractor
10/10/2015			CSI
			MI TCO welder. Pulled up on 8-5/8" casing, split wellhead base, welded casing supports on 8-5/8" casing and set down on cellar floor. Split 8-5/8" casing hanger mandrel and replaced with 8-5/8" collar. PU 8-5/8" landing pup, picked up 8-5/8" casing and set on bottom. Welded on a used 11-3/4" casing stub with 11" 5M flange. SDFN.
10/11/2015			CSI
			NU 11" annular BOP. MIRU BALS and free-pointed 8-5/8", 36 lb R2 J-55 casing. Found casing 100% free at 2600' (deepest depth). Busted 8-5/8" collars at 2578' and 2542' with Owens split shot and pulled on casing. Connections did not part. SDFN.
10/12/2015			CSI
			RIH with jet cutter and cut 8-5/8", 36 lb R2 J-55 casing at 2550'. MIRU Mountain State Power Tongs and pulled 8-5/8" casing. Laid 40 jts on CSI trailer and SIFN.
10/13/2015			CSI
			Finished pulling 8-5/8", 36 lb R2 J-55 casing and laid down XX jts on CSI trailer. RDMO Mountain State Power Tongs, NU stripper head and RBIH with 2-7/8" drill pipe to 2670'. MIRU Universal and pumped 55.9 bbls Type I cement (18% NaCl, 1/2 lb/sk celloflake) and displaced with 9.5 bbls gel. Pulled 10 stands, reverse circulated with 19 bbls gel, pulled another 10 stands and SIFN.
10/14/2015			CSI
			RBIH and tagged cement top at 1967'. POOH with 2-7/8" work string, ND 11" annular, performed a manual stretch on the 11-3/4" casing and found no movement. RBIH with 2-7/8" work string to 841'. MIRU Universal and pumped 99.3 bbls Type I cement to surface for surface plug. RDMO Universal and CSI equipment. Installed 8-5/8" casing monument over well with API number tack-welded on side (USFS permitted monument at well).
10/15/2015			CSI
			MO CSI Rig #1. Select Energy hauled out pit fluids and Key Energy hauled out rental equipment.
10/16/2015			CSI
			Vamer graded location and put down temporary grass seed and straw. Will wait until spring 2016 to reclaim. Removed portable bridge, graded ROW, pulled road mats and hauled stone for private drive.

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WV Department of Environmental Protection  
Thursday, October 15, 2015  
11/20/2015