

WR-35
Rev (9-11)

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

DATE: 10/17/2013

API #: 47-1705640-H **F**

Farm name: COGAR, ARDEN & CAROL Operator Well No.: 510841

LOCATION: Elevation: 1,173 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 7.920 Feet South of ³⁹ Deg. ¹⁰ Min. ⁰⁰ Sec.
Longitude 8.420 Feet West of ⁸⁰ Deg. ⁴⁷ Min. ³⁰ Sec.

Company: EQT Production Company

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
EQT Plaza, Suite 1700 625 Liberty Avenue, Pittsburgh, PA 15222	20	34	34	N/A
Agent: <u>TODD TETRICK</u>	13 3/8"	652	652	564
Inspector: <u>David Scranage</u>	9-5/8"	2,977	2,997	1,207
Date Permit Issued: <u>5/11/2009</u>	5-1/2"	9,758	9,758	1,269
Date Well Work Commenced: <u>5/12/2009</u>	All casing strings	set under original	510841 permit.	
Date Well Work Completed: <u>5/14/2009</u>				
Verbal Plugging: <u>N/A</u>				
Date Permission granted on: <u>N/A</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): <u>6,617</u>				
Total Measured Depth (ft): <u>10,300</u>				
Fresh Water Depth (ft.): <u>125'</u>				
Salt Water Depth (ft.): <u>No visible show</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>943'</u>				
Void(s) encountered (N/Y) Depth(s) <u>No</u>				

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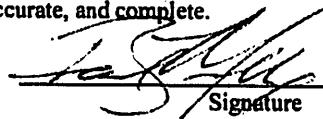
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation MARCELLUS Pay zone depth (ft) 6,388'
Gas: Initial open flow 2880 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 2496 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 20.5 Hours
Static rock Pressure 430 psig (surface pressure) after 20.5 Hours

Second producing formation No second formation. Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

10/21/13
Date

10/25/2013

17.05640F

Were core samples taken? Yes _____ No N/A

Were cuttings caught during drilling? Yes N/A No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list N/A

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See attached for details.

This well had 2 stages frac'ed - guns were stuck down hole during stage 3 plug and perf. Well was flowed back for these 2 stages in 2008. Returned to well in May 2009 to frac the remaining 5 stages and then was flowed back a second time.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered:	Top Depth	Bottom Depth
Surface:		

See original 510841 WR-35.

510841 - Stimulated Stages (Stages 3 - 7)

Zone/Stage	P Break (psi)	Avg Treat Pressure (psi)	Avg rate (bbl/min)	ISIP (psi)	Avg Prop Cont (lb/gal)	15 Min. SIP (psi)	Vol Water Pump (bbl)	Start Date	End Date	Proppant (lb)
3	5,583.00	6,867.00	81.16	4,731.00	0.63	3,819.00	11761	5/12/2009 12:06	5/13/2009 7:36	404,482
4	6,219.00	6,810.00	80.2	3,483.00	0.8	2,615.00	11077	5/13/2009 11:45	5/13/2009 14:40	404,451
5	5,388.00	7,258.00	82.3	4,996.00	0.81	2,883.00	10927	5/13/2009 18:04	5/13/2009 20:52	400,822
6	6,438.00	7,244.00	74.35	3,116.00	0.99	2,429.00	11209	5/14/2009 6:34	5/14/2009 9:44	405,988
7	5,921.00	7,168.00	75.4	8,019.00	1.1	3,724.00	8621	5/14/2009 12:29	5/14/2009 15:07	441,179

510841 - Perforations (Stages 3 - 7)

Zone/Stage	Date	Top Plug Depth (ftKB)	Bottom Plug Depth (ftKB)	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Shots/ft
3	5/12/2009	9,220.00	8,832.00	9,211.00	8,893.00	6
4	5/13/2009	8,832.00	8,332.00	8,771.00	8,393.00	6
5	5/13/2009	8,332.00	7,832.00	8,271.00	7,893.00	6
6	5/13/2009	7,832.00	7,332.00	7,771.00	7,318.00	6
7	5/14/2009	7,332.00	NA	7,271.00	6,893.00	6