

Reviewed

John G. ...
12/19/18

12/21/2018

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: 516233

API: 47 - 017 - 06744

Submission: Initial Amended

Notes: Following is a WR-35 for OXF43 Pad, Well # 516233, as amended to include Flowback data.

In addition to this amended version of the Report, included is a copy of each of the following items attached to the WR-35 submitted by EQT Corp. on 4/20/2018: The executed initial WR-35, the "Stimulated Stages" & "Perforations" sheets, a list of Formations & Depths, the Wellpath and Survey Reports, The FracFocus Registry and the "As-Drilled" Plat.

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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 47-017-06744 County DODDRIDGE District SOUTH WEST / COVE
Quad OXFORD Pad Name OXF43 Field/Pool Name N/A
Farm name FRANKLIN MAXWELL HEIRS L.P. Well Number 516233
Operator (as registered with the OOG) EQT Production Company
Address 115 Professional Place, PO Box 280 City Bridgeport State WV Zip 26330

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,334,239.0 Easting 517,905.5
Landing Point of Curve Northing 4,333,558.2 Easting 517,428.7
Bottom Hole Northing 4,335,417.2 Easting 516,588.1

Elevation (ft) 1229 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) Water Base Mud 12.8 ppg, aliphatic based non-aqueous drilling fluid, barium sulfate, calcium chloride, organophylic clay, quaternary ammonium clay, gilsonite, blended emulsifier, wetting agent, blended graphite, hydrated lime, calcium carbonate, ground walnut shells, fibrous cellulose.

Date permit issued 08/30/2016 Date drilling commenced 06/25/2017 Date drilling ceased 10/23/2017
Date completion activities began 12/25/2017 Date completion activities ceased 1/22/2018
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft 73,224,310,385 Open mine(s) (Y/N) depths N
Salt water depth(s) ft No shallow SW Void(s) encountered (Y/N) depths N
Coal depth(s) ft 324 Cavem(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

WR-35
Rev. 8/23/13

API 47-017 - 06744 Farm name FRANKLIN MAXWELL HEIRS L.P. Well number 516233

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	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	555'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-3/8" & 12-1/4"	9-5/8"	6099'	NEW	A-500 40# & P-110 40#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5 1/2"	14926'	NEW	P-110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details Production Cement job has calculated TOC of 6078' MD, which is greater than 500' TVD above the producing formation. No issues during cement job.

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 A	49	15.6	1.18	58	0	8
Surface	CLASS A	520	15.6	1.20	624	0	8
Coal							
Intermediate 1	CLASS A / CLASS A	1087 / 1100	15.6 / 15.6	1.18 / 1.18	2581	0	8
Intermediate 2							
Intermediate 3							
Production	Class H / Class H	178 / 879	15.2 / 15.6	1.25 / 2.06	2033	6078'	8
Tubing							

Drillers TD (ft) 14938' MD Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 1774' MD

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 CONDUCTOR: NONE
SURFACE: ON SHOE TRACK AND EVERY 900' FEET TO SURFACE
INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE
PRODUCTION: ON SHOE TRACK AND EVERY JOINT TO 1703'

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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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Well number 516233

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					Please See Attached

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)
								Please See Attached

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Drilling Contractor Decker Drilling
Address 11565 State Route 676 City Vincent State OH Zip 45784

Logging Company _____
Address _____ City _____ State _____ Zip _____

Logging Company Scientific Drilling International, Inc.
Address 124 Vista Drive City Charleroi State PA Zip 15022

Cementing Company BJ Services, LLC
Address 4000 Town Center Blvd, Suite 210 City Cannonsburg State PA Zip 15317

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