WR-35
Rev. 8/23/13

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

API 47 - 059 - 01886 County MINGO District MAGNOLIA
Quad MATEWAN Pad Name _____ Field/Pool Name _____
Farm name DEATON, DANIEL Well Number 1728
Operator (as registered with the OOG) QUALITY NATURAL GAS, LLC
Address P.O. BOX 480 City ALLEN State KY Zip 41601

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

Elevation (ft) 782 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)
N/A

Date permit issued 12/20/2007 Date drilling commenced 11/12/2009 Date drilling ceased 11/18/2009
Date completion activities began 9/2/2015 Date completion activities ceased 9/03/2015
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

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

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Freshwater depth(s) ft 66', 90', 293' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft None Encountered Void(s) encountered (Y/N) depths N
Coal depth(s) ft 116-117, 162-164 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

APPROVED
NAME: [signature]
DATE: 5-31-2016

Reviewed by:
07/15/2016
AX 07/15/16

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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"	21'	New	LS		
Surface	12 1/4"	9 5/8"	330'	New	LS		Yes, 2bbl
Coal							
Intermediate 1	8 7/8"	7"	2018'	New	LS	None	Yes, 11bbl
Intermediate 2							
Intermediate 3							
Production	6 3/8"	4 1/2"	4600'	New	L-65	None	No - 500' up in 7"
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^3)	Cement Top (MD)	WOC (hrs)
Conductor	Class A						
Surface	Class A	200	15.5	1.18	236	Surface	8
Coal							
Intermediate 1	Class A	150, 135	15.6, 12.3	1.18, 1.84	177, 248	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	165	13.6	1.90	313.5	500' up in 7"	8
Tubing							

Drillers TD (ft) 4615 Loggers TD (ft) 4614
Deepest formation penetrated HARRELL SHALE Plug back to (ft)
Plug back procedure

Kick off depth (ft)

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
For drilling purposes only.

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING 4600',4423', 4246', 4069', 3892', 3715', 3538', 3361', 3184', 3007', 2830' and 2653'

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)
1	9/2/2015	3850	4158	22	SHALE
2	9/3/2015	2936	2948	20	BEREA
3	9/3/2015	2104	2247	51	BIG LIME

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	9/3/15	100	3845	3887	2310	NONE	NONE	800mscf N2/12 bbl 15% HCl
2	9/3/15	100	2880	2900	1201	NONE	NONE	800mscf N2/ 12 bbl 15% HCl
3	9/3/15	14	1401	1841	1528	NONE	NONE	300mscf N2/119 bbl 15% HCl

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PRODUCING FORMATION(S)	DEPTHS	
BIG LIME	2070 - 2266' TVD	MD
BEREA	2919 - 2960'	
BROWN SHALE	2960 - 4158'	

Please insert additional pages as applicable.

GAS TEST □ Build up □ Drawdown ■ Open Flow OIL TEST □ Flow □ Pump

SHUT-IN PRESSURE Surface 720 psi Bottom Hole ____ psi DURATION OF TEST 144 hrs

OPEN FLOW Gas 605 mcfpd Oil ____ bpd NGL ____ bpd Water ____ bpd GAS MEASURED BY □ Estimated ■ Orifice □ Pilot

LITHOLOGY/ FORMATION NAME	TOP DEPTH IN FT 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_2S, ETC)
	0		0		
SEE ATTACHED					

Please insert additional pages as applicable.

Drilling Contractor MOUNTAIN RIDGE
Address 72 OLD 25 E City BARBOURVILLE State KY Zip 40906

Logging Company WEATHERFORD
Address ____ City LONDON State KY Zip 40741

Cementing Company C & J ENERGY SERVICES
Address 580 HAWTHORN DR City NORTON State VA Zip 24273

Stimulating Company C & J ENERGY SERVIES
Address 580 HAWTHORN DR City NORTON State VA Zip 24273

Please insert additional pages as applicable.

Completed by Darrell Fluharty Telephone 606-874-8041 Cell 606-548-1915
Signature ____ Title Field Supervisor Date 3-7-2016

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

07/15/2016

WELL #1728 API# 47-5901886

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, H2S, ETC)
SUB BASE	0	8			
SANDSTONE	8	21			
SAND/SHALE	21	116			
COAL	116	117			
SAND/SHALE	117	162			
COAL	162	164			
SAND/SHALE	164	1500			
RED ROCK	1500	1515			
SAND/SHALE	1515	1540			
RED ROCK	1540	1555			
SAND/SHALE	1555	1748			
MAXTON	1748	1875			
SAND/SHALE	1875	1976			
LTTLE LIME	1976	2070			
BIG LIME	2070	2277			
INJUN	2277	2348			
WEIR	2348	2373			
SAND/SHALE	2373	2675			
SHALE	2675	2939			
BEREA	2939	2961			
SHALE	2961	3895			
SAND/SHALE	3895	3940			
SHALE	3940	4615			

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