

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

API 47 - 049 - 01965 County Marion District Paw Paw
Quad Grant Town 7.5' Pad Name Malnick Field/Pool Name _____
Farm name Steve & Jennifer Malnick Well Number 1880 S
Operator (as registered with the OOG) Waco Oil & Gas Co., Inc.
Address P.O. Box 397 City Glenville State WV Zip 26351

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 393797 Easting 1789941
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1242' 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 None
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)
Encountered problems in coal, well plugged.

Date permit issued 07/14/2008 Date drilling commenced 07/15/2008 Date drilling ceased 07/16/2008
Date completion activities began _____ Date completion activities ceased _____
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 31', 72' Open mine(s) (Y/N) depths 580 - 590
Salt water depth(s) ft 580 - 590 Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 580 - 590 Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) No

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AK WS
05/25/16

APPROVED
NAME: Jacquelin 05/27/2016
DATE: 5/12/16

API 47-049 - 01965 Farm name Steve & Jennifer Malnick Well number 1880 S

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor		16"	23'				Yes
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
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	A	50	15.4				
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 590 Loggers TD (ft) _____
 Deepest formation penetrated Sand Stone 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

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

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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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Well Plugged	590'	TVD _____ MD _____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ 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	
Soil	0	11	0		Soft
Red Rock	11	23			Soft
Sd & Shale	23	87			Hard, H ₂ O @ 31'
Red Rock	87	217			Soft, Damp @ 72'
Sd & Shale	217	580			Soft
Coal	580	590			Open mine

Please insert additional pages as applicable.

Drilling Contractor Waco Oil & Gas Co., Inc.
 Address P.O. Box 397 City Glenville State WV Zip 26351

Logging Company _____
 Address _____ City _____ State _____ Zip _____

Cementing Company Universal
 Address _____ City Jane Lew State WV Zip _____

Stimulating Company _____
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Stephen E. Holloway Telephone 304-462-5347
 Signature  Title Land Manager Date 02/17/2016

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

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