

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

API 47-085-07367 County Ritchie District Grant
Quad Cairo Pad Name _____ Field/Pool Name _____
Farm name Daniel Wyatt Well Number TW-46
Operator (as registered with the OOG) Cheetah Exploration and Production, LLC
Address PO Box 2722 City Buckhannon State WV Zip 26201

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4340029 Easting 478912
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 918 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)
This is a rework permit converting to disposal.

Date permit issued 7-22-20 Date drilling commenced _____ Date drilling ceased _____
Date completion activities began 7-23-20 Date completion activities ceased 2-4-21
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 _____ Open mine(s) (Y/N) depths _____
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 508-510, 114-1150 Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

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Reviewed by:

DMH
08/13/2021

API 47-085 - 07367 Farm name Daniel Wyatt Well number TW-46

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		20	319				CTS
Surface							
Coal							
Intermediate 1		8 5/8	1979				CTS
Intermediate 2							
Intermediate 3							
Production		4 1/2	7500				TOC 2458
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							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) 7500 Loggers TD (ft) 7500

Deepest formation penetrated Rose Hill Plug back to (ft) _____

Plug back procedure See attached well work completed

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 _____

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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PRODUCING FORMATION(S) DEPTHS
 None _____ TVD _____ MD _____
 See attached well work completed _____

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 Oil NGL Water GAS MEASURED BY
 _____ mcfpd _____ bpd _____ bpd _____ bpd 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	
	0	508	0		Siltstone, Sandstone, Shale
	508	510			Coal
	510	1140			Siltstone, Sandstone, Shale, Limestone
	1140	1150			Coal
	1150	1400			Sandstone, Shale
	1400	1408			Coal
	1408	1660			Sandstone, Shale
	1660	1810			Big Lime
	1810	1940			Big Injun
	1940	2310			Siltstone, Sandstone, Shale
	2310	2330			Berea
	2330	5555			Siltstone, Sandstone, Shale
	5555	5627			Marcellus
	5627	5810			Onondaga

Please insert additional pages as applicable.

Drilling Contractor Stalnaker Energy Corp.
 Address PO Box 178 City Glennville State WV Zip 26351

Logging Company Nine Energy Services
 Address 6500 West Freeway, Suite 600 City Fort Worth State TX Zip 76116

Cementing Company Lightning Energy Services
 Address 104 Heliport Lood Road City Bridgeport State WV Zip 26330

Stimulating Company _____
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Gene Smith Telephone 304-444-0085
 Signature  Title Consultant Date 6-1-21

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

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Description	Top	Bottom	Formation
Sandstone	5810	5911	Oriskany
Limestone	5911	6215	Helderberg
Limestone	6215	6261	Bass Island
Limestone, Dolomite, salt	6261	6965	Salina
Limestone	6965	6982	Newberg
Limestone, Dolomite,	6982	7148	Salina
Dolomite	7148	7430	Lockport
Limestone , Dolomite	7430	7500	Rose Hill

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Well work on 47-085-07367 continued....

The original well completion report from 1985 describes that this well was drilled deep into the Rose Hill and was not perforated or fractured in any formation(s). This permit was obtained to perforate and test the Oriskany for liquid disposal, thus converting it to a Class 2 disposal well candidate. A logging tool was ran in the well and found a bridge at 4642 feet with perforations at 4552-4578 feet. These perforations were squeezed and the plug was drilled out. Another plug was found at 4975 feet and was also drilled out. Hole was logged (Caliper, CBL, Gamma Ray, Collar locator) from 6300 feet to surface. Log showed probable perforations below the plug at 4975 feet. Set cast iron bridge plug at 6190 feet. Conducted a squeeze from 4400 feet to 5000 feet and it was successful to 4700 feet. Conducted another squeeze with 2 3/8" tubing and rock bit set at 4597 feet with again the target being 5000 feet. Squeeze was seemingly successful but tubing and bit were immediately hung when tried to pull up a few joints. Circulating and reverse circulating were successful but still hung. Tried using power tongs, and tubing twisted off at 3616 feet. Spent many weeks jarring, washing over and cutting to retrieve it. The last successful cut was made at 4445 feet and retrieved. This leaves 152 feet of tubing and the bit still in the hole before can drill out the squeeze job. On 2-4-21 a pressure test was conducted on the 4 1/2" casing to 4445 feet and passed according to WVDEP-OOG requirements for testing. Circumstances led to this well work being shut down and the site being reclaimed. Discussions continuing on how to proceed with repermitting.

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