

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

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Office of Oil and Gas

JAN 3 2019

API 47-039-06387 County Kanawha District Spring Hill Corp.
Quad Charleston West Pad Name _____ Field/Pool Name _____
Farm name Clearon Corp. Well Number 1
Operator (as registered with the OOG) RESERVE OIL & GAS INC.
Address 929 Charleston Rd. City Spencer State WV Zip 25276

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 38.367136 N Easting 81.708657 W
Landing Point of Curve Northing NA Easting NA
Bottom Hole Northing 38.367136 N Easting 81.708657 W

Elevation (ft) 585 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)

Date permit issued 12/04/17 Date drilling commenced 8-6-2018 Date drilling ceased 8-29-2018
Date completion activities began 9-12-2018 Date completion activities ceased 9-13-2018
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 280 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1067 & 1160 Void(s) encountered (Y/N) depths N
Coal depth(s) ft _____ Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed

Reviewed by: _____

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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	62	NEW	LS	NA	Y
Surface	12 3/8	9 5/8	337	NEW	LS 26#	84	Y
Coal							
Intermediate 1	8.75	7	1748	New	20#	310	Y 1 bbls
Intermediate 2							
Intermediate 3							
Production	6.25	4.5	4504	New	11.6	4133, 3751, 3345, 2920, 2570	N
Tubing							
Packer type and depth set							

Comment Details Cement to on 4 1/2 at 1930 ft

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	Type 1	158	15.6	1.18	185	Surface	12
Surface	Type 1	130	15.6	1.2	156	Surface	12
Coal							
Intermediate 1	Type 1	300	15.6	1.2	360	Surface	12
Intermediate 2							
Intermediate 3							
Production	Lite Slurry	125	11.8	2.7	337	1930	24
Tubing							

Drillers TD (ft) 4530 Loggers TD (ft) 4549

Deepest formation penetrated Rhinestreet 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

9 5/8 84 ft
7" 310 ft
4 1/2 4133, 3751, 3345, 2920, 2570, 2158

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	9-13-2018	4484	4151	48	Rhinestreet/ Huron
2	9-13-2018	4027	3333	60	Huron

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	9-13-18	57000 scf	1600	2161	1238	0	0	907,398 scf
2	9-13-18	55000 scf	1340	1150	928	0	0	1,200,000 scf

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
Rhinestreet / Huron	4484 - 4151	TVD 4484 - 4151 MD
Upper Huron	4025 - 3351	4025 - 3351

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 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, H ₂ S, ETC)
Clays, rock silt	0	105	0	105	Clays, rock, silt
Sand, Shale, Silt	105	1354	105	1354	Sands, Shale, Silt
Maxton	1354	1428	1354	1428	Sand
L. Lime	1428	1445	1428	1445	Lime/ silts
Big Lime	1445	1617	1445	1617	Lime
Injun	1617	1665	1617	1665	Sand/Silts
Silt/Shale	1675	2118	1675	2118	Silts and shale
Coffee Shale	2118	2132	2118	2132	Shale
Berea	2132	2144	2132	2144	Sand stonesilt (gas/ oily)
Shale/Silts	2142	2890	2142	2890	Shale silts
Shale	2890	3356	2890	3356	Shale
Shale	3356	4549	3356	4549	Shale, (Gas)

Please insert additional pages as applicable.

Drilling Contractor CONSERV
Address 929 Charleston Rd. City Spencer State WV Zip 25276

Logging Company CONSERVE
Address _____ City _____ State _____ Zip _____

Cementing Company CONSERV
Address _____ City _____ State _____ Zip _____

Stimulating Company RELIANCE WELL SERVICE
Address 5226 KY, 1428 KY City ALLEN State KY Zip 41601

Please insert additional pages as applicable.

Completed by Doug Douglass Telephone _____
Signature Doug Douglass Title land manager Date 1/13/18

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

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