

Mazzella # 2

WR-35
Rev. 8/23/13

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APPROVED

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

NAME: ASPL
DATE: 4-2016

API 47-039-06374 County Kanawha District South Charleston
Quad Charleston West Pad Name Mazzella 2 Field/Pool Name MIA
Farm name Joe Mazzella & Charles Love III Well Number Mazzella # 2
Operator (as registered with the OOG) Reserve Oil & Gas, Inc.
Address 929 Charleston Road 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 482045 Easting 1,766,020
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 581 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 _____ Date drilling commenced 7-24-15 Date drilling ceased 11-5-15
Date completion activities began 1/20/16 Date completion activities ceased 1/21/16
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 315' Open mine(s) (Y/N) depths MIA Office of Oil and Gas
Salt water depth(s) ft 840' Void(s) encountered (Y/N) depths MIA
Coal depth(s) ft MIA Cavern(s) encountered (Y/N) depths MIA
Is coal being mined in area (Y/N) N

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AX W04022/2016
ERUS 4/20/16

API 47-039 - 06374 Farm name Joe Mazzella & Charles Love III Well number Mazzella #1

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"	33'	NEW	#46	None	No - top down
Surface	12 3/8"	10 3/4"	285'	used			yes - grouted w/ 35 sacks
Coal							
Intermediate 1	8 3/4"	7"	1676'	used		1-315'	yes - grouted back side
Intermediate 2							
Intermediate 3							
Production	6 1/4"	4 1/2"	4395'	used		2	Yes
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	Type I	7					
Surface	Type I	138	15.6	1.18		304' to surface	
Coal							
Intermediate 1	Type I	207	12.8	1.84		1710' to surface	
Intermediate 2							
Intermediate 3							
Production	Extend Stronglight	135	12.3	2.34		4449' to surface	
Tubing							

Drillers TD (ft) 4450' Loggers TD (ft) 4471'
 Deepest formation penetrated _____ Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) N/A

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 _____
Centralizer 2628'
Centralizer + basket - 3977'
bitflr - 4069'

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	1/21/16	4062	4388	50	Devonian shale
2	1/21/16	3157	4007	60	Devonian shale

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	1/21/16	50 CFM	2073	2250	1255	N/A	N/A	1,000,000 SCF
2	1/21/16	47 CFM	1844	1426	1690	N/A	N/A	1,000,000 SCF

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
	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	
	0		0		
<u>See attached</u>					

Please insert additional pages as applicable.

Drilling Contractor Conserv
Address 929 Charleston Road City Spencer State WV Zip 25276

Logging Company Conserv
Address 929 Charleston Road City Spencer State WV Zip 25276

Cementing Company Conserv - surface & intermediate; - 4 1/2" Universal Well Services, Inc.
Address P.O. Box 200969 City Dallas State TX Zip 75320

Stimulating Company Universal Well Services Inc.
Address P.O. Box 200969 City Dallas State TX Zip 75320

Please insert additional pages as applicable.

Completed by Doug Douglass Telephone 304-927-5228
Signature [Signature] Title Land manager Date 4/11/16

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

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Formations

Formation:	From:	To:
K.B. to G.h.	0	7
Fill & Clay	7	20
Rock w/sand	20	25
Rock	25	40
Sand	40	180
Sand + shale	180	302
Grey sand	302	490
Shale	490	583
Grey sand	583	670
Shale	670	700
S. Sand.	700	1053
Dark Shale	1053	1060
Grey Sand	1060	1084
S. Sand	1084	
L. Lime	1352	1385
B. Lime	1385	1555
LIGN	1555	1620
Sand + shale	1620	1784
Silt + stones / shale	1784	2055
Bray	2053	2064
Hannon's	2120	2950
Dev shale	2950	4450

Formations

Remarks: Oil, Gas, Water, Etc.
Hole damp at 55'
4" stream at 100'
7" stream at 190'
315' 1/4" stream
840' 2" stream
Gas vent 2,750' odor

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