

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

AM

API 47-103-02567 County Wetzel District Proctor
Quad Wileyville Pad Name Mason-Conlon Field/Pool Name Mary
Farm name Greathouse, James Arnold Well Number Unit 1 #2H
Operator (as registered with the OOG) Stone Energy Corporation
Address 6000 Hampton Center City Morgantown State WV Zip 26505

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,386,314 Easting 523,466
Landing Point of Curve Northing 4,386,483 Easting 523,392
Bottom Hole Northing 4,387,346 Easting 522,909

Elevation (ft) 1,202 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)
Saturated salt mud which includes Caustic Soda, Barite, Lime, New-Drill, Perma-Lose HT, Xan-Plex D, X-Cide 102, Soda Ash, and Sodium Chloride

Date permit issued 5/20/2010 & 7/31/2013 Date drilling commenced 6/1/2010 Date drilling ceased 9/22/2010
Date completion activities began 8/21/2013 Date completion activities ceased 10/22/2013
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

RECEIVED
Office of Oil and Gas
JUL 24 2014

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

Freshwater depth(s) ft 151 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,252 Void(s) encountered (Y/N) depths N
Coal depth(s) ft None Reported Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

08/15/2014

API 47- 103 - 02567 Farm name Greathouse, James Arnold Well number Unit 1 #2H

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	24"	20"	35'	New	LS		N - GTS
Surface	17.5"	13.375"	1,134'	New	J55	100' & 1,000'	Y - CTS
Coal	17.5"	13.375"	1,134'	New	J55		Y - CTS
Intermediate 1	12.25"	9.625"	2,585'	New	J55		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	10,565'	New	P110		N - TOC @ 382'
Tubing	N/A	2.375"	7,242'	New	N80		N/A
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 1	34	15.6	1.18	40	Surface	24.0
Surface	Type 1	820	15.2	1.26	1,003	Surface	8.0
Coal	Type 1	820	15.2	1.26	1,003	Surface	8.0
Intermediate 1	Type 1	912	14.8	1.35	1,231	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	HalCem	2,247	15.6	1.20	2,696	382'	7.0
Tubing							

Drillers TD (ft) 10,614 Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Shale Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6,785 MD / 6,759 TVD

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 Surface casing had bow spring centralizers placed on joints #4, #7, #10, #13, #16, #19, #22, and #25. Intermediate casing had bow spring centralizers placed on joints #23, #26, #29, #32, #35, #38, #41, #44, and #47. Production casing had rigid spiral centralizers placed on joints #2, #6, #10, #14, #18, #22, #26, #30, #34, #38, #42, #46, #50, #54, #58, #62, #66, #70, #74, #78, #82, #86, #90, #94, #98, #102, #106, #110, #114, #118, #122, #126, #130, #135, #140, #145, #150, #155, #160, #165, #170, #175, #180, #185, #190, #195, #200, #205, #210, #215, #220, and #225. Centralizer placement starts at TD and joints of casing go up from there.

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 Spectrum Tracer Service chemical tracers.

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	8/22/2013	10,067	9,866	72	Marcellus Shale
2	8/23/2013	9,799	9,602	72	Marcellus Shale
3	8/26/2013	9,534	9,330	72	Marcellus Shale
4	8/28/2013	9,265	9,063	72	Marcellus Shale
5	8/29/2013	8,987	8,790	72	Marcellus Shale
6	9/3/2013	8,723	8,527	72	Marcellus Shale
7	9/5/2013	8,458	8,258	72	Marcellus Shale
8	9/7/2013	8,190	7,988	72	Marcellus Shale
9	9/8/2013	7,915	7,707	72	Marcellus 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	8/23/13	84.0	7,798	8,150	4,223	342,520	8,638	
2	8/26/13	84.4	7,737	7,403	4,488	372,840	7,598	
3	8/28/13	78.6	8,042	8,043	5,094	372,800	8,457	
4	8/29/13	75.4	7,526	8,043	4,867	368,480	8,116	
5	9/3/13	63.3	8,517	8,207	4,829	50,000	4,974	
6	9/5/13	77.8	7,491	8,088	4,905	373,400	7,452	
7	9/7/13	76.2	7,599	7,827	4,714	381,740	7,152	
8	9/8/13	73.7	7,355	8,087	4,480	375,100	8,154	
9	9/10/13	79.3	7,387	7,549	4,714	377,300	7,636	

Please insert additional pages as applicable.

Fracture Date:	9/10/2013
State:	West Virginia
County/Parish:	Wetzel County
API Number:	103-02567
Operator Name:	Stone
Well Name and Number:	Mason Conlon #1
Longitude:	
Latitude:	
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume (gal)*:	2857428

Hydraulic Fracturing Fluid Composition

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Slickwater, HCl 15%, WF115	Schlumberger	Corrosion Inhibitor, Bactericide (Myacide GA25), Scale Inhibitor, Surfactant, Acid, Breaker, Gelling Agent, Friction Reducer, Iron Control Agent, Clay Control Agent, Fluid Loss Additive, Propping	Water (Including Mix Water Supplied by Client)*	NA		79.66509%	
			Crystalline silica	14808-60-7	99.01427%	20.13446%	
			Hydrochloric acid	7647-01-0	0.55717%	0.11330%	
			Carbohydrate polymer	Proprietary	0.25688%	0.05224%	
			Ammonium sulfate	Proprietary	0.11876%	0.02415%	
			Polyethylene glycol monohexyl ether	31726-34-8	0.03795%	0.00772%	
			Glutaraldehyde	111-30-8	0.02834%	0.00576%	
			Diammonium peroxodisulfate	7727-54-0	0.01301%	0.00265%	
			Calcium chloride	10043-52-4	0.00595%	0.00121%	
			Methanol	67-56-1	0.00229%	0.00047%	
			Sodium erythorbate	6381-77-7	0.00212%	0.00043%	
			Trisodium ortho phosphate	7601-54-9	0.00191%	0.00039%	
			Ethane-1,2-diol	107-21-1	0.00191%	0.00039%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00172%	0.00035%	
			Aliphatic acids	Proprietary	0.00172%	0.00035%	
			Prop-2-yn-1-ol	107-19-7	0.00057%	0.00012%	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

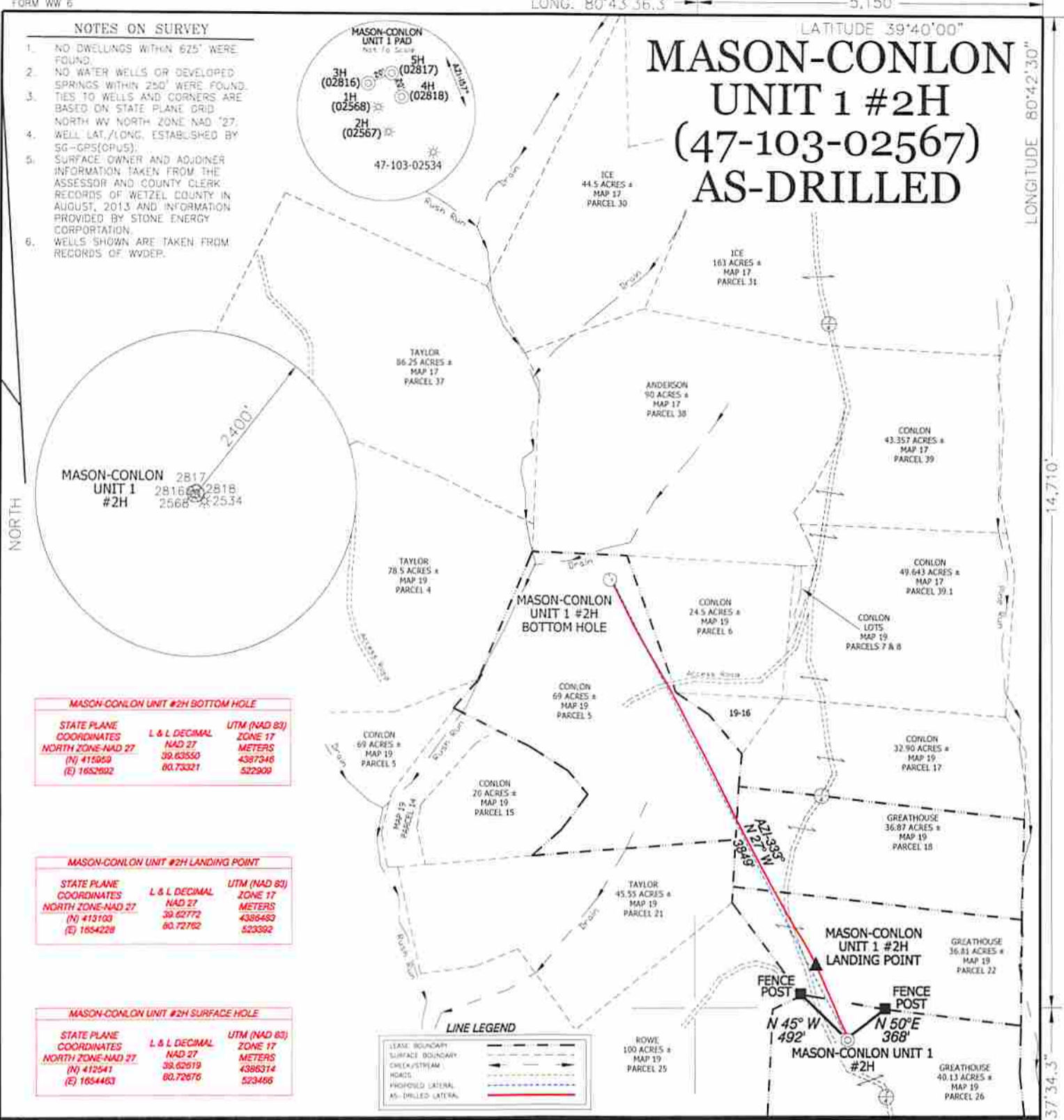
Report ID: RPT-18803 (Generated on 9/12/2013 1:00 PM)

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

NOTES ON SURVEY

1. NO DWELLINGS WITHIN 625' WERE FOUND.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
3. TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WY NORTH ZONE NAD '27.
4. WELL LAT./LONG. ESTABLISHED BY SG-GPS(OPUS).
5. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WETZEL COUNTY IN AUGUST, 2013 AND INFORMATION PROVIDED BY STONE ENERGY CORPORATION.
6. WELLS SHOWN ARE TAKEN FROM RECORDS OF WDEP.

MASON-CONLON UNIT 1 #2H (47-103-02567) AS-DRILLED



MASON-CONLON UNIT #2H BOTTOM HOLE

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83)
NORTH ZONE-NAD 27	NAD 27	ZONE 17
(N) 415059	39.63550	4387346
(E) 1652892	80.73321	522909

MASON-CONLON UNIT #2H LANDING POINT

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83)
NORTH ZONE-NAD 27	NAD 27	ZONE 17
(N) 413103	39.62772	4385483
(E) 1654228	80.72782	523392

MASON-CONLON UNIT #2H SURFACE HOLE

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83)
NORTH ZONE-NAD 27	NAD 27	ZONE 17
(N) 412541	39.62919	4386314
(E) 1654463	80.72676	523456

LINE LEGEND

- LEASE BOUNDARY (dashed line)
- SURFACE BOUNDARY (solid line)
- CREEK/STREAM (line with wavy arrows)
- ROAD (line with cross-ticks)
- HYPOTHETICAL LATERAL (dotted line)
- AS-DRILLED LATERAL (red line)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 26, 20 14
 OPERATORS WELL NO. MASON-CONLON UNIT 1 #2H
 API WELL NO. 47-103-02567H
 STATE COUNTY PERMIT

P.S. 834
HUPP Surveying & Mapping
 P.O. Box 647 Grantsville, WV 26147
 (304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W1916 (BK 58-23)
 PROVEN SOURCE OF ELEVATION SG-GPS (OPUS) SCALE 1" = 1000'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION : ELEVATION 1,202' WATERSHED PINE RUN OF LITTLE FISHING CREEK
 DISTRICT PROCTOR COUNTY WETZEL QUADRANGLE WILEYVILLE 7.5'

SURFACE OWNER JAMES ARNOLD GREATHOUSE ACREAGE 40.13±
 ROYALTY OWNER WELLS & GENELDA MASON, et al LEASE ACREAGE 181.82±

PROPOSED WORK : LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH TVD= 7100' MVD= 10,800'

WELL OPERATOR STONE ENERGY CORPORATION DESIGNATED AGENT TIM MCGREGOR
 ADDRESS P.O. BOX 52807 LAFAYETTE, LA 70508 ADDRESS 6000 HAMPTON CENTER SUITE B MORGANTOWN WV 26505

08/15/2014