



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

PM

API 47-103-02568 County Wetzel District Proctor
Quad Wileyville Pad Name Mason-Conlon Field/Pool Name Mary
Farm name Greathouse, James Arnold Well Number Unit 1 #1H
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 4,386,319 Easting 523,464
Landing Point of Curve Northing 4,386,606 Easting 523,539
Bottom Hole Northing 4,387,345 Easting 523,186

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 6/9/2010 & 7/30/2013 Date drilling commenced 6/30/2010 Date drilling ceased 10/4/2010
Date completion activities began 8/23/2013 Date completion activities ceased 10/25/2013
Verbal plugging (Y/N) N Date permission granted _____
Granted by _____

RECEIVED
Office of Oil and Gas
JUL 7 2013

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

Freshwater depth(s) ft 52 Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,452 Void(s) encountered (Y/N) depths N
Coal depth(s) ft 600-608 & 710-715 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

09/05/2014

API 47-103 - 02568 Farm name Greathouse, James Arnold Well number Unit 1 #1H

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		Y - GTS
Surface	17.5"	13.375"	1,135'	New	J55	135' & 585'	N - GTS
Coal	17.5"	13.375"	1,135'	New	J55		N - GTS
Intermediate 1	12.25"	9.625"	2,561'	New	J55		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	10,157'	New	P110		N - TOC @ 382'
Tubing	N/A	2.375"	7,553'	New	N80		N/A
Packer type and depth set							

Comment Details The cement on the 13-3/8" surface/coal string did not circulate but the annulus was grouted from surface.

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	970	15.2	1.26	1,222	Surface	8.0
Coal	Type 1	970	15.2	1.26	1,222	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	2,936	382'	7.0
Tubing							

Drillers TD (ft) 10,216 Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Shale Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 5,907 MD/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 #2, #4, #8, #10, #13, and #23. Intermediate casing had bow spring centralizers placed on joints #10, #14, #20, #25, #29, #35, and #38. Production casing had rigid spiral centralizers placed on joints #1, #2, #6, #10, #14, #18, #22, #26, #30, #34, #38, #42, #46, #50, and #54. All of the centralizers placements are listed from TD of that particular section of well bore up.

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.

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PRODUCING FORMATION(S)	DEPTHS	
Marcellus Shale	7,002' to 6,958' TVD	7,707' to 10,067' MD

Please insert additional pages as applicable.


GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 1,700 psi Bottom Hole 3,276 calculated psi DURATION OF TEST 164 hrs
 OPEN FLOW Gas 760 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)
	0		0		
See Attached Sheet	Page 5 of 13				

Please insert additional pages as applicable.

Drilling Contractor Performance Drilling (top-hole) & Saxon Drilling (horizontal)
 Address 2034 Martins Branch Rd / 9303 New Trails Drive City Mount Morris / The Woodlands State PA / TX Zip 25312 / 77381
 Logging Company Scientific Drilling and Schlumberger
 Address 3475 Washington Ave / 1178 US HWY 33 East City Finleyville / Weston State PA / WV Zip 15332 / 26452
 Cementing Company BJ Services / Halliburton
 Address 2228 Philippi Pike / 1628 Jackson's Mill Rd City Clarksburg / Jane Lew State WV Zip 26301 / 26378
 Stimulating Company Schlumberger
 Address 1178 US HWY 33 East City Weston State WV Zip 26452

Please insert additional pages as applicable.

Completed by W. Lee Hornsby Telephone 304-225-1600
 Signature  Title Drilling Engineer Date 7/7/2014

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

Mason Colon Unit 1 - #1H
 API 47-103-02568
 Stone Energy Corporation

	Horizontal		Bottom (ft TVD)	Bottom (ft MD)
	Top (ft TVD)	Top (ft MD)		
Red Rock	Surface		* 110	FW @ 52'
Sandstone & Shale	110		* 495	
Red Rock	495		* 500	
Sandstone & Shale	500		* 600	
Coal	600		* 608	
Sandstone & Shale	608		* 710	
Coal	710		* 715	
Sandstone & Shale	715		* 2095	SW @ 1452'
Little Lime	2095		* 2120	
Sandstone & Shale	2120		* 2163	
Big Lime	2163		* 2333	
Big Injun	2333		* 2453	
Sandstone & Shale	2453		* 2785	
Berea Sandstone	2785		* 2825	
Undiff Devonian Shale	2825		* 5634	
Rhinestreet	5634		~ 6642	6760
Cashaqua	6642	6760	~ 6741	6906
Middlesex	6741	6906	~ 6804	7011
West River	6804	7011	~ 6863	7130
Geneseo	6863	7130	~ 6905	7232
Tully limestone	6905	7232	~ 6931	7306
Hamilton	6931	7306	~ 6993	7560
Marcellus	6993	7560	~ 6954	10216
TD			6954	10216

* From Pilot Hole Log & Driller's Log

~ From MWD Gamma Log

103-02568

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	9/10/2013
State:	West Virginia
County/Parish:	Wetzel County
API Number:	
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 peroxodisulphate	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%

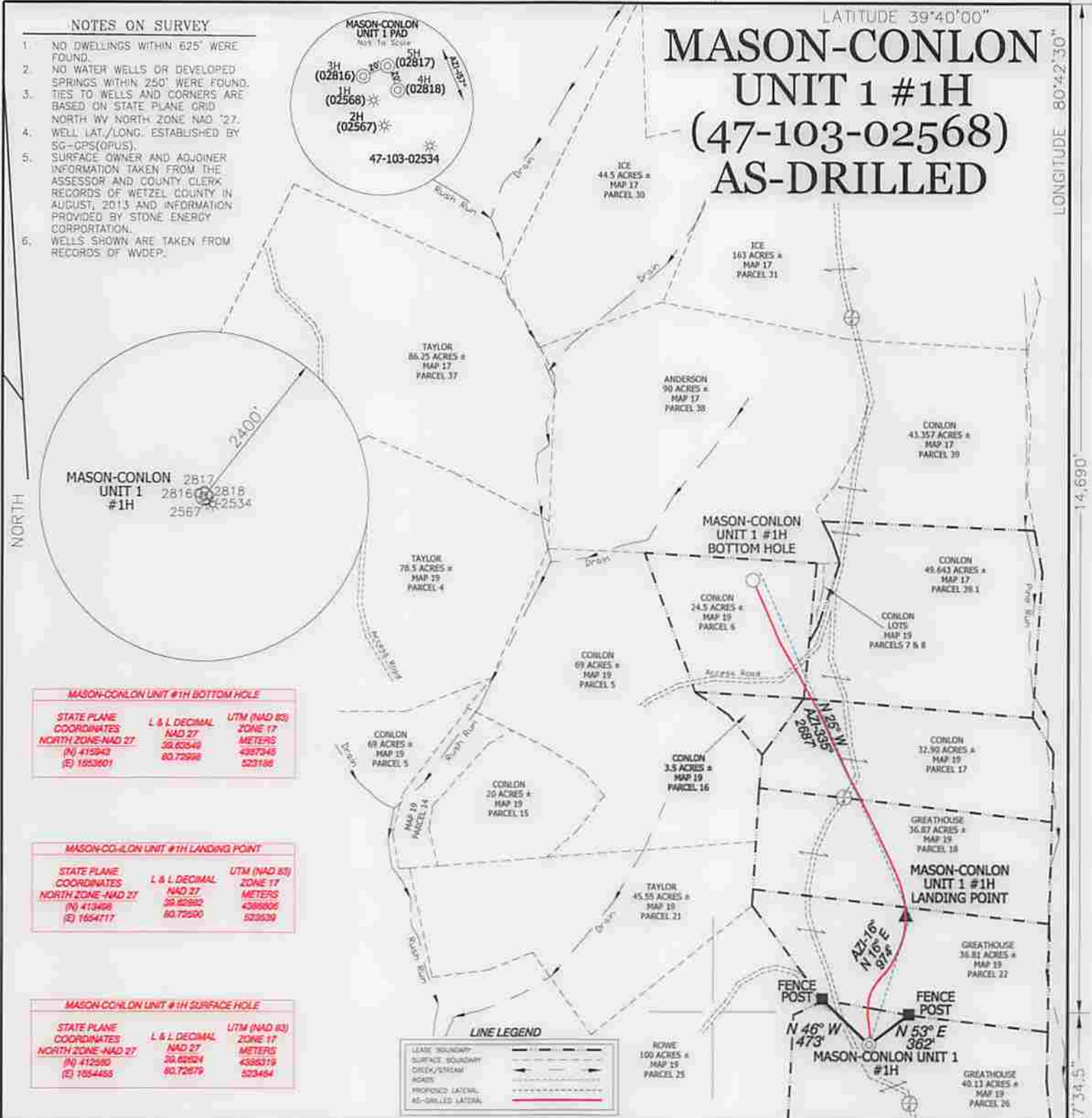
Report ID: RPT-18803 (Generated on 9/12/2013 1:00 PM)

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 WV NORTH ZONE NAD 27.
4. WELL LAT/LONG ESTABLISHED BY SG-GPS(OPUS).
5. SURFACE OWNER AND ADJACENT 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 #1H (47-103-02568) AS-DRILLED



MASON-CONLON UNIT #1H BOTTOM HOLE

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83)
NORTH ZONE-NAD 27	NAD 27	ZONE 17
(N) 415943	39.60540	METERS
(E) 1653601	80.72998	4387048
		523188

MASON-CONLON UNIT #1H LANDING POINT

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83)
NORTH ZONE-NAD 27	NAD 27	ZONE 17
(N) 414908	39.60980	METERS
(E) 1654717	80.72600	4389806
		523639

MASON-CONLON UNIT #1H SURFACE HOLE

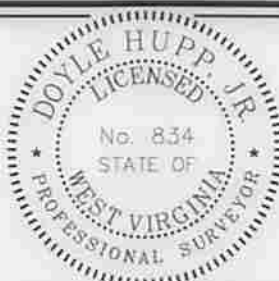
STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83)
NORTH ZONE-NAD 27	NAD 27	ZONE 17
(N) 412580	39.62624	METERS
(E) 1654465	80.72675	4386319
		523464

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT 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.

Doyle Hupp Jr.

P.S. 834

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



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JUNE 26, 20 14
 OPERATORS WELL NO. MASON-CONLON UNIT 1 #1H
 API WELL NO. 47-103-02568H
 STATE COUNTY PERMIT

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 220.85± **09/05/2014**

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, 7,050' MD, 10,800'

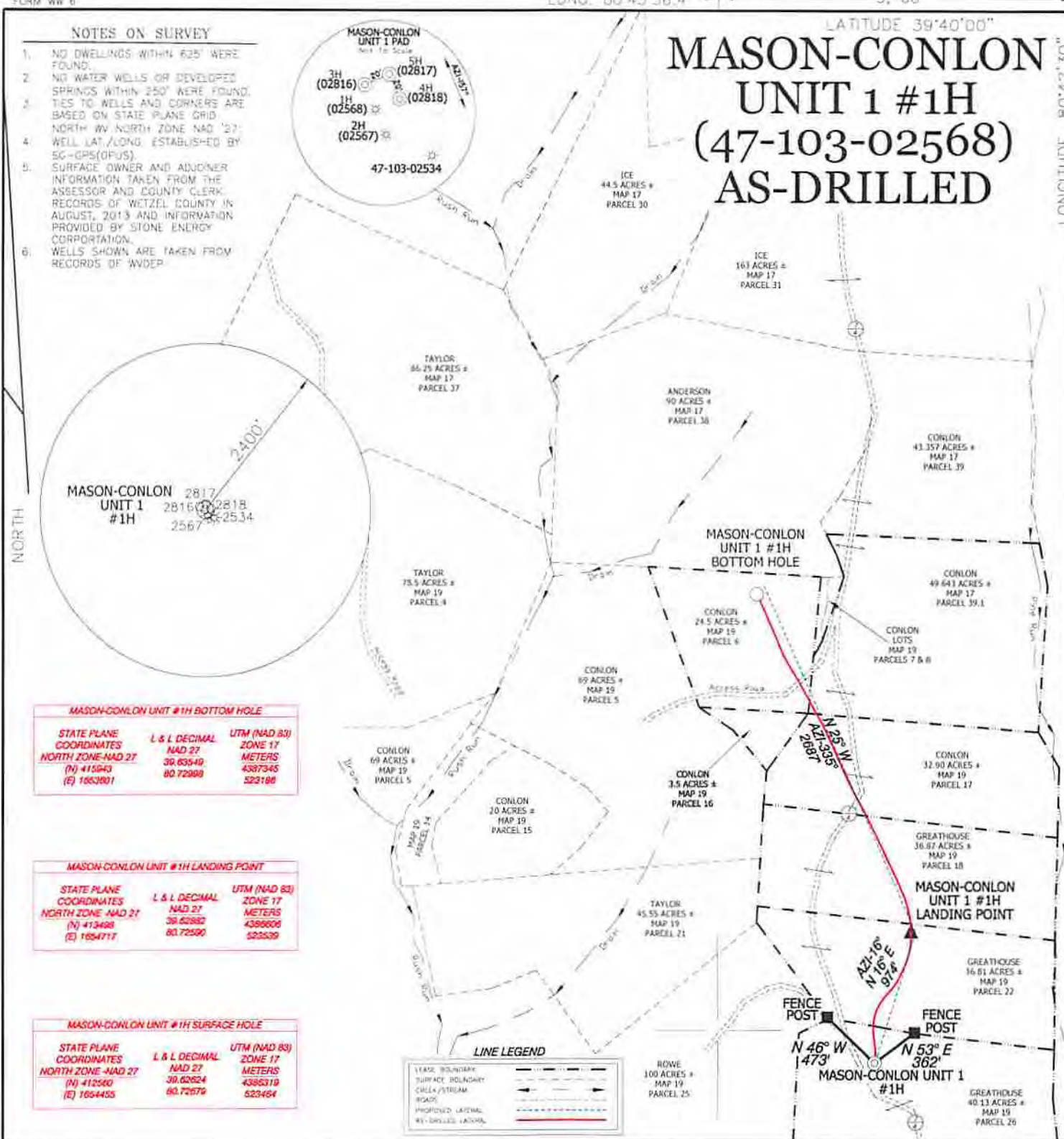
WELL OPERATOR STONE ENERGY CORPORATION DESIGNATED AGENT TIM MCGREGOR
 ADDRESS P.O. BOX 52807 LAFAYETTE, LA 70508 ADDRESS 6000 HAMPTON CENTER SUITE B MORGANTOWN WV 26505

COUNTY NAME PERMIT

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MASON-CONLON UNIT 1 #1H (47-103-02568) AS-DRILLED



MASON-CONLON UNIT #1H BOTTOM HOLE

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17
NORTH ZONE-NAD 27	NAD 27	METERS
(N) 415643	39.63549	4387345
(E) 1863801	80.72988	523188

MASON-CONLON UNIT #1H LANDING POINT

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17
NORTH ZONE-NAD 27	NAD 27	METERS
(N) 413498	39.62882	4386608
(E) 1854717	80.72590	522535

MASON-CONLON UNIT #1H SURFACE HOLE

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17
NORTH ZONE-NAD 27	NAD 27	METERS
(N) 412500	39.62824	4386319
(E) 1854455	80.72679	523484

LINE LEGEND

- LEASE BOUNDARY
- SURFACE BOUNDARY
- CHICKEN/STREAM
- ROAD
- PROPOSED LATERAL
- AS-DRILLED LATERAL

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



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