

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

API 47 - 103 - 02892 County Wetzel District Magnolia
Quad New Martinsville Pad Name Stone Field/Pool Name Mary
Farm name Stone Energy Corporation Well Number #8H
Operator (as registered with the OOG) Stone Energy Corporation
Address 1300 Fort Pierpont Dr. - Suite 201 City Morgantown State WV Zip 26508

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,389,057 Easting 518,712
Landing Point of Curve Northing 4,389,007 Easting 519,191
Bottom Hole Northing 4,387,771 Easting 519,931

Elevation (ft) 1,215 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 6/27/2013 Date drilling commenced 7/2/2013 Date drilling ceased 12/23/2013
Date completion activities began 4/7/2014 Date completion activities ceased 10/23/2014
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

Freshwater depth(s) ft 96 Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1,988 Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 836 Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

RECEIVED
Office of Oil and Gas
APR 28 2015
WV Department of
Environmental Protection

Reviewed by:
AL 5/26/15
W.S. 06/05/2015

API 47- 103 - 02892 Farm name Stone Energy Corporation Well number #8H

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"	80'	New	LS		N - GTS
Surface	17.5"	13.375"	1,215' KB - 1,200' GL	New	J55	118' & 194'	Y - CTS
Coal	17.5"	13.375"	1,215' KB - 1,200' GL	New	J55	118' & 194'	Y - CTS
Intermediate 1	12.25"	9.625"	2,464'	New	J55		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	12,300'	New	P110		N - TOC @ 1,925'
Tubing	N/A	2.375"	7,440'	New	N80		N/A
Packer type and depth set							

Comment Details Circulated 50 bbls cement to surface on 13.375" casing string. Circulated 50 bbls cement to surface on the 9.625" casing string.
TOC on 5.5" after running CBL @ 1,925'.

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	Class "A"	935	15.6	1.19	1,113	Surface	8.0
Coal	Class "A"	935	15.6	1.19	1,113	Surface	8.0
Intermediate 1	Lead-FlexSeal Tail-Class "A"	Lead-492 Tail-309	Lead-15.0 Tail-15.6	Lead-1.26 Tail-1.19	Lead-620 Tail-368	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-FlexSeal Tail-Class "A"	Lead-770 Tail-1,660	Lead- 15.0 Tail-15.6	Lead-1.26 Tail-1.19	Lead-970 Tail-1,975	1,925	7.0
Tubing							

Drillers TD (ft) 12,325 MD / 6,764 TVD Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Shale Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 5,989 MD / 5,947' 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, 6, 10, 14, 22, 26 and 30. Intermediate casing had bow spring centralizers placed on joints 2, 6, 10, 14, 18, 22, 26, 30, 34, 38, 42, 46, 50, 54 and 58.
Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 145. Ran a total of 37 rigid spiral centralizers. Ran bow spring centralizers from joint 148 to joint 241 on every third joint. A total of 32 bow spring centralizers were run.

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 _____

RECEIVED
Office of Oil and Gas
APR 28 2015
WV Department of
Environmental Protection

API 47- 103 - 02892 Farm name Stone Energy Corporation Well number #8H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	4/16/14	12,051	12,220	72	Marcellus Shale
2	5/5/14	11,801	11,983	72	Marcellus Shale
3	5/6/14	11,547	11,731	72	Marcellus Shale
4	5/7/14	11,290	11,479	72	Marcellus Shale
5	5/8/14	11,037	11,223	72	Marcellus Shale
6	5/9/14	10,780	10,966	72	Marcellus Shale
7	5/10/14	10,527	10,713	72	Marcellus Shale
8	5/12/14	10,280	10,457	72	Marcellus Shale
9	5/14/14	10,028	10,218	72	Marcellus Shale
10	5/15/14	9,772	9,963	72	Marcellus Shale
11	5/16/14	9,520	9,708	72	Marcellus Shale
12	5/17/14	9,274	9,458	72	Marcellus Shale
13	5/23/14	9,024	9,208	72	Marcellus Shale
14	5/28/14	8,778	8,958	72	Marcellus Shale
15	5/31/14	8,517	8,703	72	Marcellus Shale
16	6/1/14	8,260	8,448	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	5/5/14	83.5	7,376	6,082	4,632	360,200	8,337	
2	5/6/14	85.3	7,470	5,866	4,603	410,100	8,452	
3	5/7/14	82.9	7,447	6,251	4,889	429,560	8,498	
4	5/8/14	85.5	7,354	6,781	5,148	420,880	8,250	
5	5/9/14	85.2	7,241	6,203	4,860	418,740	8,269	
6	5/10/14	85.1	7,149	6,372	4,804	426,340	8,409	
7	5/12/14	80.2	6,843	6,905	4,860	417,780	8,306	
8	5/14/14	80.3	6,981	6,478	4,574	421,740	8,254	
9	5/15/14	79.9	6,905	5,577	5,233	421,180	8,426	
10	5/16/14	78.7	6,961	6,125	5,090	418,700	9,528	
11	5/17/14	78.6	7,436	6,660	5,350	419,240	8,314	
12	5/22/14	73.3	7,408	6,218	4,632	276,020	9,091	
13	5/27/14	78.5	6,764	5,806	4,860	422,720	8,048	
14	5/30/14	80.4	7,045	6,505	4,546	419,840	8,368	
15	5/31/14	69.0	7,173	6,854	5,150	224,040	8,388	
16	6/1/14	73.6	7,143	6,639	5,979	205,720	7,199	

Please insert additional pages as applicable.

RECEIVED
Office of Oil and Gas
APR 28 2015
WV Department of Environmental Protection

06/05/2015

API 47- 103 - 02892 Farm name Stone Energy Corporation Well number #8H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	6/2/14	8,009	8,193	72	Marcellus Shale
18	6/3/14	7,760	7,937	72	Marcellus Shale
19	6/4/14	7,510	7,693	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)
17	6/2/14	83.4	6,836	6,484	4,517	419,390	8,814	
18	6/3/14	84.8	6,573	6,469	5,009	419,580	8,281	
19	6/6/14	85.0	6,484	6,427	4,861	417,640	8,582	

RECEIVED
Office of Oil and Gas
APR 28 2015

Please insert additional pages as applicable.

WV Department of Environmental Protection
06/05/2015

API 47- 103 - 02892 Farm name Stone Energy Corporation Well number #8H

PRODUCING FORMATION(S)	DEPTHS	
<u>Marcellus Shale</u>	<u>6,791' to 6,767'</u> TVD	<u>7,510' to 12,220'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,772 psi Bottom Hole 4,536 calculated psi DURATION OF TEST 46.1 hrs

OPEN FLOW Gas 1,966 mcfpd Oil _____ bpd NGL 132.8 bpd Water 409.6 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	
	<u>0</u>		<u>0</u>		
See Attached Sheet					

Please insert additional pages as applicable.


Drilling Contractor Nomac (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 Schlumberger
Address 1178 US HWY 33 East City Weston State WV Zip 26452

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 4/27/2015

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Attach copy of FRACFOCUS Department of Environmental Protection

RECEIVED
Office of Oil and Gas
APR 28 2015
WV Department of Environmental Protection
06/05/2015

Stone #8H
API 47-103-02892
Stone Energy Corporation

	Horizontal		Bottom (ft TVD)	Bottom (ft MD)	
	Top (ft TVD)	Top (ft MD)			
Sandstone & Shale	Surface	*	836		FW @ 96
Coal	836	*	839		
Sandstone & Shale	839	*	2,116		SW @ 1,988
Big Lime	2,116	*	2,216		
Big Injun	2,216	*	2,316		
Sandstone & Shale	2,316	*	2,689		
Berea Sandstone	2,689	*	2,719		
Shale	2,719	*	2,894		
Gordon	2,894	*	2,944		
Undiff Devonian Shale	2,944	*	5,586	5,601	
Rhinestreet	5,586	5,601 ~	6,556	6,897	
Cashaqua	6,556	6,897 ~	6,669	7,106	
Middlesex	6,669	7,106 ~	6,694	7,171	
West River	6,694	7,171 ~	6,756	7,298	
Geneseo	6,756	7,298 ~	6,770	7,334	
Tully Limestone	6,770	7,334 ~	6,815	7,459	
Hamilton Shale	6,815	7,459 ~	6,862	7,640	
Marcellus	6,862	7,640 ~	6,764	12,325	
TD			6,764	12,325	

* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log

RECEIVED
Office of Oil and Gas

APR 28 2015

WV Department of
Environmental Protection 06/05/2015

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	8/8/2014
State:	West Virginia
County/Parish:	Wetzel County
API Number:	47-103-0292
Operator Name:	Stone Energy
Well Name and Number:	Stone 8H
Longitude:	518,712
Latitude:	4,389,057
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume (gal)*:	6685750

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
H015, Slickwater, WF115	Schlumberger	Corrosion Inhibitor, Bactericide (Myacide GA25), Scale Inhibitor, Surfactant, Acid, Breaker, Gelling Agent, Friction Reducer, Iron Control Agent, Clay Control Agent, Propping Agent, Fluid Loss	Water (Including Mix Water Supplied by Client)*	NA		88.06858%	
			Crystalline silica	14808-60-7	98.42930%	11.74401%	
			Hydrochloric acid	7647-01-0	0.96318%	0.11492%	
			Carbohydrate polymer	Proprietary	0.58222%	0.06947%	
			Ammonium sulfate	7783-20-2	0.17746%	0.02117%	
			Polyethylene glycol monohexyl ether	31726-34-8	0.07362%	0.00878%	
			Glutaraldehyde	111-30-8	0.05246%	0.00626%	
			Urea	57-13-6	0.02958%	0.00353%	
			Diammonium peroxodisulfate	7727-54-0	0.02473%	0.00295%	
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00566%	0.00068%	
			Trisodium ortho phosphate	7601-54-9	0.00454%	0.00054%	
			Ethane-1,2-diol	107-21-1	0.00454%	0.00054%	
			Sodium erythorbate	6381-77-7	0.00366%	0.00044%	
			Methanol	67-56-1	0.00357%	0.00043%	
			Aliphatic acids	Proprietary	0.00268%	0.00032%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00268%	0.00032%	
			Calcium chloride	10043-52-4	0.00122%	0.00015%	
			Prop-2-yn-1-ol	107-19-7	0.00089%	0.00011%	

* 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-29873 (Generated on 8/25/2014 1:13 PM)

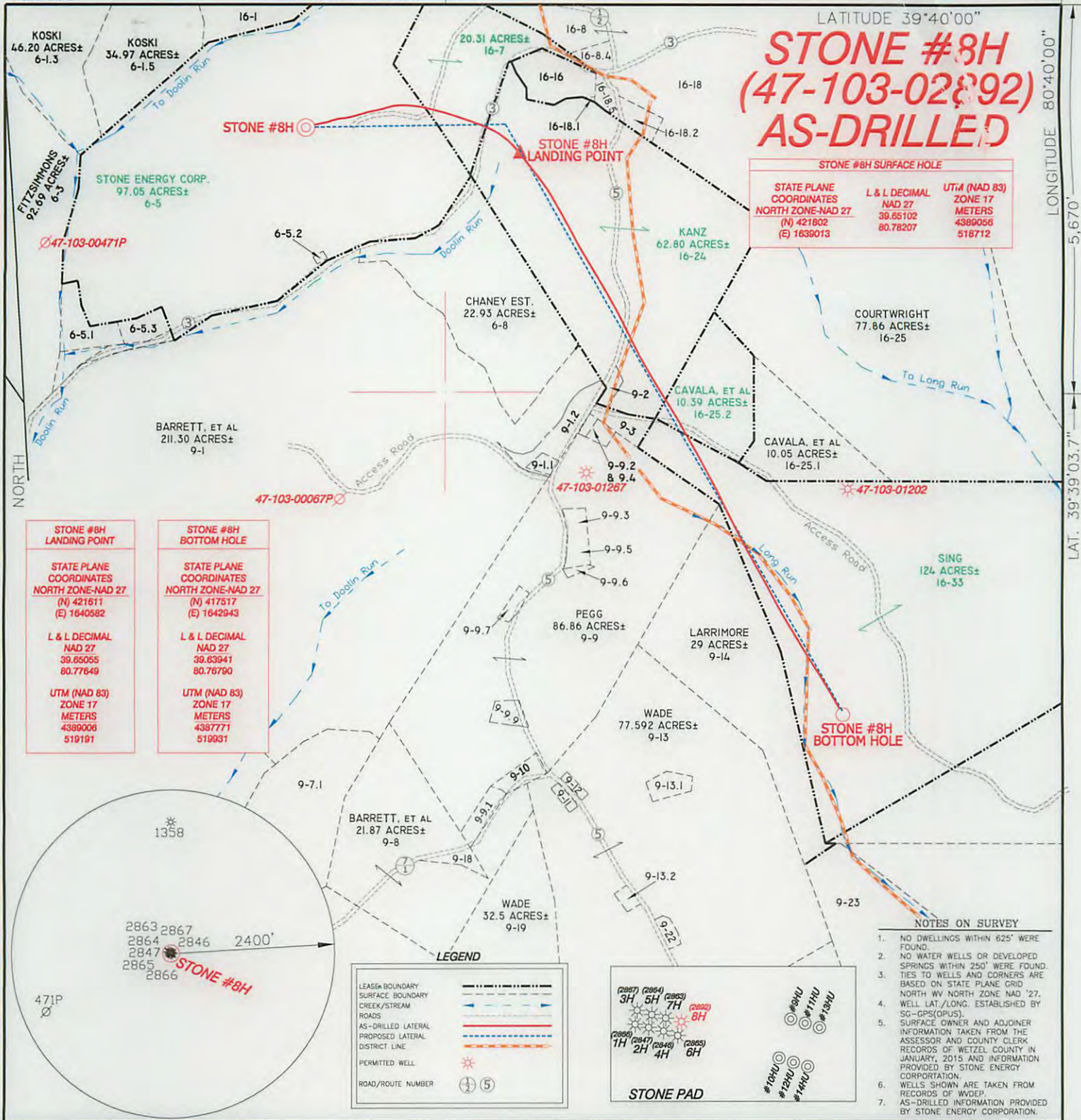
All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational 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 B.

RECEIVED
Office of Oil and Gas

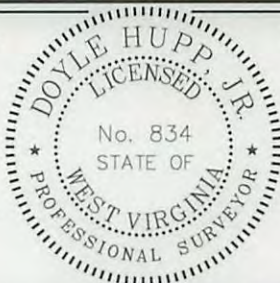
APR 28 2015

WV Department of
Environmental Protection 06/05/2015

STONE #8H (47-103-02892) AS-DRILLED



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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE APRIL 8, 20 15
 OPERATORS WELL NO. STONE #8H
 API WELL NO. 47-103-02892
 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. W2234 (BK 75-28)
 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 1,215' WATERSHED DOOLIN RUN
 DISTRICT MAGNOLIA COUNTY WETZEL QUADRANGLE NEW MARTINSVILLE 7.5'

SURFACE OWNER STONE ENERGY CORPORATION ACREAGE 97.05±
 ROYALTY OWNER BARBARA BARRETT, et al LEASE ACREAGE 314.55± **06/05/2015**

PROPOSED WORK :
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION _____ ESTIMATED DEPTH TVD-6,794' MD- 12,325'

WELL OPERATOR STONE ENERGY CORPORATION DESIGNATED AGENT TIM MCGREGOR
 ADDRESS P.O. BOX 52807 LAFAYETTE, LA 70508 ADDRESS 1300 FORT PIERPONT DR., SUITE 201 MORGANTOWN, WV 26508