

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

API 47-103-02834 County Wetzel District Proctor
Quad New Martinsville Pad Name Pribble Field/Pool Name Mary
Farm name Pribble, Raymond Well Number #2H
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 4,393,504 Easting 515,444
Landing Point of Curve Northing 4,393,886 Easting 515,222
Bottom Hole Northing 4,394,804 Easting 514,910

Elevation (ft) 1,320 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 11/20/2012 Date drilling commenced 7/25/2013 Date drilling ceased 4/14/2014
Date completion activities began 6/2/2014 Date completion activities ceased 12/12/2014
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 100 Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1,824 Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 854 Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

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N
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Reviewed by:
JK 10/23/2015

API 47- 103 - 02834 Farm name Pribble, Raymond Well number #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"	91'	New	LS		N - GTS
Surface	17.5"	13.375"	1,330' KB - 1,315' GL	New	J55	124' & 204'	Y - CTS
Coal	17.5"	13.375"	1,330' KB - 1,315' GL	New	J55	124' & 204'	Y - CTS
Intermediate 1	12.25"	9.625"	2,483'	New	J55		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	10,455'	New	P110		N - TOC @ 520'
Tubing	N/A	2.375"	6,915'	New	N80		N/A
Packer type and depth set							

Comment Details Circulated 30 bbls cement to surface on 13.375" casing string. Circulated 30 bbls cement to surface on the 9.625" casing string. Circulated no cement to surface on the 5.5" casing string. TOC on 5.5" after running CBL @ 520'.

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"	950	15.6	1.19	1,131	Surface	8.0
Coal	Class "A"	950	15.6	1.19	1,131	Surface	8.0
Intermediate 1	Lead-Flox Seal Tail-Class "A"	Lead-525 Tail-248	Lead-15.6 Tail-15.6	Lead-1.26 Tail-1.19	Lead-662 Tail-295	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-TurndSpacer Tail-Class "A"	Lead-178 Tail-1,980	Lead-14.5 Tail-15.2	Lead-2.37 Tail-1.20	Lead-422 Tail-2,376	520	7.0
Tubing							

Drillers TD (ft) 10,486 MD / 6,555 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 / 5,946' 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, 18, 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, 58 and 62.
Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 1 to joint 105. Ran a total of 27 rigid spiral centralizers. Ran bow spring centralizers from joint 110 to joint 218 on every fourth joint. A total of 28 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 _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/6/14	10,209	10,361	72	Marcellus Shale
2	6/12/14	9,970	10,138	72	Marcellus Shale
3	6/14/14	9,746	9,895	72	Marcellus Shale
4	6/15/14	9,518	9,678	72	Marcellus Shale
5	6/16/14	9,292	9,448	72	Marcellus Shale
6	6/17/14	9,066	9,223	72	Marcellus Shale
7	6/19/14	8,830	8,998	72	Marcellus Shale
8	6/21/14	8,607	8,758	72	Marcellus Shale
9	6/23/14	8,377	8,538	72	Marcellus Shale
10	6/24/14	8,156	8,313	72	Marcellus Shale
11	6/25/14	7,928	8,088	72	Marcellus Shale
12	6/26/14	7,699	7,861	72	Marcellus Shale
13	6/27/14	7,480	7,630	72	Marcellus Shale
14	6/28/14	7,243	7,408	72	Marcellus Shale
15	10/4/14	7,024	7,183	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	6/12/14	85.2	6,587	5,340	4,545	364,740	8,433	
2	6/14/14	85.1	6,817	5,778	4,603	285,096	7,382	
3	6/15/14	82.9	6,424	5,188	3,828	356,960	7,861	
4	6/16/14	84.8	6,696	6,232	3,598	410,168	8,285	
5	6/17/14	84.9	6,782	5,739	4,114	413,060	8,327	
6	6/19/14	80.3	6,484	5,867	4,253	411,380	8,495	
7	6/21/14	80.2	6,499	5,973	4,029	411,240	8,220	
8	6/23/14	80.3	6,586	6,127	4,114	410,240	8,212	
9	6/24/14	80.2	6,678	5,768	4,029	406,820	8,059	
10	6/25/14	80.3	6,511	5,643	4,660	410,420	8,251	
11	6/26/14	80.0	6,580	5,852	4,213	409,240	8,266	
12	6/27/14	80.6	6,579	5,691	4,314	411,040	8,041	
13	6/28/14	80.2	6,482	5,737	4,574	412,060	8,078	
14	6/29/14	79.0	6,468	6,167	4,871	412,320	9,628	
15	10/5/14	80.3	6,478	6,353	4,351	410,480	8,288	

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Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus Shale</u>	<u>6,562' to 6,556'</u> TVD	<u>7,024' to 10,361'</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2,074 psi Bottom Hole 4,248 ^{calculated} psi DURATION OF TEST 169 hrs

OPEN FLOW Gas 1,402 mcfpd Oil _____ bpd NGL 146.8 bpd Water 412.8 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		
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 7/15/2015

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Pribble #2H
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Stone Energy Corporation

	Horizontal				
	Top (ft TVD)	Top (ft MD)	Bottom (ft TVD)	Bottom (ft MD)	
Sandstone & Shale	Surface		*	854	FW @ 100'
Coal	854		*	858	
Sandstone & Shale	858		*	2,116	SW @ 1,824'
Little Lime	2,098		*	2,128	
Big Lime	2,128		*	2,228	
Big Injun	2,228		*	2,328	
Sandstone & Shale	2,328		*	2,698	
Berea Sandstone	2,698		*	2,728	
Shale	2,728		*	2,948	
Gordon	2,948		*	2,998	
Undiff Devonian Shale	2,998		*	5,855	5,897
Rhinestreet	5,855	5,897	~	6,227	6,304
Cashaqua	6,227	6,304	~	6,375	6,476
Middlesex	6,375	6,476	~	6,397	6,512
West River	6,397	6,512	~	6,455	6,614
Geneseo	6,455	6,614	~	6,475	6,657
Tully Limestone	6,475	6,657	~	6,506	6,737
Hamilton Shale	6,506	6,737	~	6,531	6,828
Marcellus	6,531	6,828	~	6,555	10,486
TD				6,555	10,486

* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log

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103-02834

Operator Name:	Stone Energy
Well Name and Number:	Pribble 2H
Longitude:	515,443
Latitude:	4,393,505
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume (gal)*:	5198147

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, AntiFoam Agent, Surfactant , Acid, Breaker, Gelling Agent, Friction Reducer, Iron Control Agent, Clay Control Agent, Buffer, Accelerator, Propping Agent, Fluid Loss	Water (Including Mix Water Supplied by Client)*	NA		87.76310%	
			Crystalline silica	14808-60-7	98.40235%	12.04139%	
			Hydrochloric acid	7647-01-0	0.83287%	0.10192%	
			Ammonium sulfate	7783-20-2	0.15441%	0.01890%	
			Polyethylene glycol monohexyl ether	31726-34-8	0.06842%	0.00837%	
			Glutaraldehyde	111-30-8	0.05197%	0.00636%	
			Calcium chloride	10043-52-4	0.03151%	0.00386%	
			Urea	57-13-6	0.02574%	0.00315%	
			Diammonium peroxodisulfate	7727-54-0	0.02269%	0.00278%	
			Polypropylene glycol	25322-69-4	0.01103%	0.00135%	
			Sodium carbonate	497-19-8	0.00826%	0.00101%	
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00526%	0.00064%	
			Methanol	67-56-1	0.00493%	0.00060%	
			Trisodium ortho phosphate	7601-54-9	0.00412%	0.00050%	
			Ethylene Glycol	107-21-1	0.00412%	0.00050%	
			Sodium erythorbate	6381-77-7	0.00334%	0.00041%	
			Thiourea formaldehyde polymer	Proprietary	0.00246%	0.00030%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00246%	0.00030%	
			Aliphatic acids	Proprietary	0.00189%	0.00023%	
			Prop-2-yn-1-ol	107-19-7	0.00082%	0.00010%	
			Hexadec-1-ene	629-73-2	0.00016%	0.00002%	
			Olefin hydrocarbon	Proprietary	0.00008%	0.00001%	
			Formaldehyde	50-00-0	0.00001%	< 0.00001%	

* 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-31539 (Generated on 10/23/2014 3:07 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.

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PRIBBLE #2H (47-103-02834) AS-DRILLED

PRIBBLE #2H SURFACE HOLE

STATE PLANE COORDINATES	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
NORTH ZONE-NAD 27 (N) 436576 (E) 1628530	39.69118 80.82007	4393504 515444

PRIBBLE #2H LANDING POINT

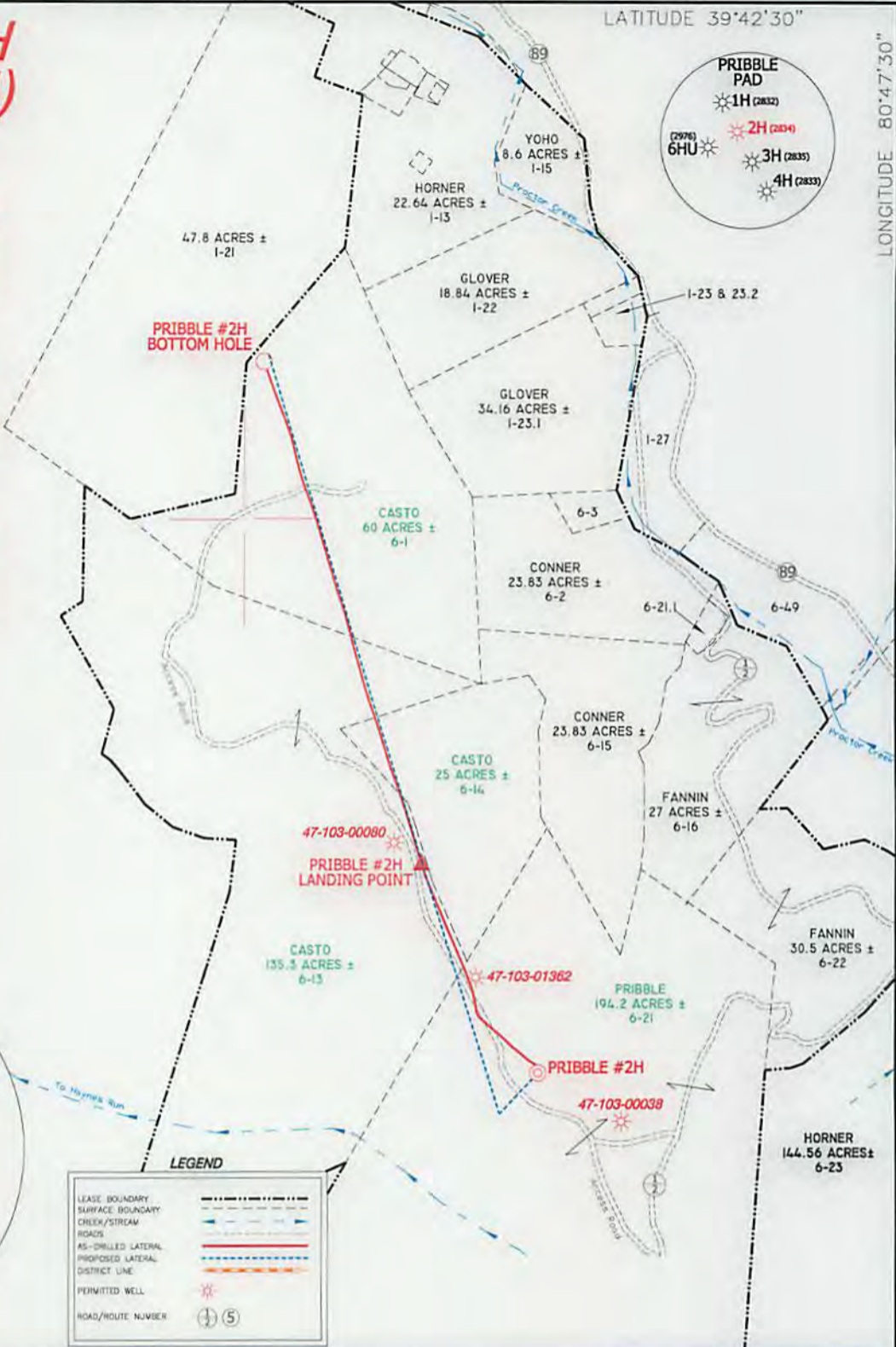
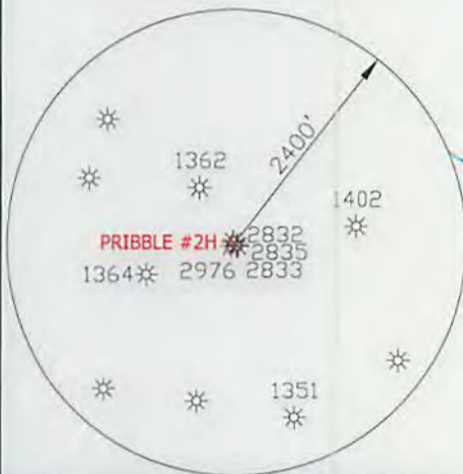
STATE PLANE COORDINATES	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
NORTH ZONE-NAD 27 (N) 437841 (E) 1627825	39.69460 80.82264	4393686 515222

PRIBBLE #2H BOTTOM HOLE

STATE PLANE COORDINATES	L & L DECIMAL NAD 27	UTM (NAD 83) ZONE 17 METERS
NORTH ZONE-NAD 27 (N) 440870 (E) 1626852	39.70288 80.82626	4394804 514910

NOTES ON SURVEY

- NO DWELLINGS WITHIN 625' WERE FOUND.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD 27.
- WELL LAT./LONG. ESTABLISHED BY SG-GPS(OPUS).
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WETZEL COUNTY IN JANUARY, 2014 AND INFORMATION PROVIDED BY STONE ENERGY CORPORATION.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WDOEP.
- AS-DRILLED INFORMATION PROVIDED BY STONE ENERGY CORPORATION.



LEGEND

- LEASE BOUNDARY: Dashed line
- SURFACE BOUNDARY: Dotted line
- CREEK/STREAM: Blue line with wavy pattern
- ROADS: Solid black line
- AS-DRILLED LATERAL: Red dashed line
- PROPOSED LATERAL: Blue dashed line
- DISTRICT LINE: Dotted line
- PERMITTED WELL: Star symbol
- ROAD/ROUTE NUMBER: Circle with number

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.

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 5, 20 15
 OPERATORS WELL NO. PRIBBLE #2H
 API WELL NO. 47-103-02834
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. W2007 (BK 48-38)
 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 1,321' WATERSHED PROCTOR CREEK
 DISTRICT PROCTOR COUNTY WETZEL QUADRANGLE NEW MARTINSVILLE 7.5'

SURFACE OWNER RAYMOND PRIBBLE ACREAGE 194.2±
 ROYALTY OWNER RAYMOND PRIBBLE, et al LEASE ACREAGE 414.50± **10/23/2015**

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 6,573' MD 10,486'

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