

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

API 47-103-02833 County Wetzel District Proctor  
Quad New Martinsville Pad Name Pribble Field/Pool Name Mary  
Farm name Pribble, Raymond Well Number #4H  
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 4,393,494 Easting 515,449  
Landing Point of Curve Northing 4,394,039 Easting 515,717  
Bottom Hole Northing 4,395,372 Easting 515,272

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 8/10/2013 Date drilling ceased 5/1/2014  
Date completion activities began 6/2/2014 Date completion activities ceased 12/11/2014  
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 95 Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft 1,766 Void(s) encountered (Y/N) depths JUL 16 2015  
Coal depth(s) ft 1,069 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by:  
8/29/2015

API 47-103 - 02833 Farm name Pribble, Raymond Well number #4H

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"	98'	New	LS		N - GTS
Surface	17.5"	13.375"	1,317' KB - 1,302' GL	New	J55 - 54.5 ppf	116' & 192'	Y - CTS
Coal	17.5"	13.375"	1,317' KB - 1,302' GL	New	J55 - 54.5 ppf	116' & 192'	Y - CTS
Intermediate 1	12.25"	9.625"	2,466'	New	J55 - 36.0 ppf		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	12,566'	New	P110 - 20 ppf		N - TOC @ 356'
Tubing	N/A	2.375"	6,918'	New	N80 - 4.7 ppf		N/A
Packer type and depth set							

Comment Details Circulated 45 bbls cement to surface on 13.375" casing string. Circulated 36 bbls cement to surface on the 9.625" casing string. Circulated 5 bbls cement to surface on the 5.5" casing string. TOC on 5.5" after running CBL @ 356'.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Type 1	34	15.6	1.18	40	Surface	24.0
Surface	Class "A"	1,014	15.6	1.19	1,207	Surface	8.0
Coal	Class "A"	1,014	15.6	1.19	1,207	Surface	8.0
Intermediate 1	Lead-Flex Seal Tail-Class "A"	Lead-500 Tail-283	Lead-15.6 Tail-15.6	Lead-1.26 Tail-1.19	Lead-630 Tail-337	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-Tuned Spacer Tail-Class "A"	Lead-178 Tail-2,470	Lead- 14.4 Tail-15.2	Lead-2.37 Tail-1.20	Lead-422 Tail-2,864	356	7.0
Tubing							

Drillers TD (ft) 12,570 MD / 6,551 TVD Loggers TD (ft) N/A  
 Deepest formation penetrated Marcellus Shale Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5,699 MD / 5,673 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 3, 6, 9, 12, 15, 18, 23, 28 and 30. Intermediate casing had bow spring centralizers placed on joints 15, 18, 21, 24, 27, 30 and 33.  
 Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 3 to joint 228. Ran a total of 57 rigid spiral centralizers. Ran bow spring centralizers from joint 236 to joint 276 on every eighth joint. A total of 6 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 & Gas  
JUL 16 2015  
JUL 16 2015

API 47- 103 - 02833

Farm name Pribble, Raymond

Well number #4H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/7/14	12,313	12,436	72	Marcellus Shale
2	6/12/14	12,061	12,243	72	Marcellus Shale
3	6/14/14	11,810	11,993	72	Marcellus Shale
4	6/15/14	11,560	11,743	72	Marcellus Shale
5	6/16/14	11,302	11,493	72	Marcellus Shale
6	6/17/14	11,053	11,243	72	Marcellus Shale
7	6/18/14	10,807	10,987	72	Marcellus Shale
8	6/19/14	10,547	10,737	72	Marcellus Shale
9	6/20/14	10,300	10,483	72	Marcellus Shale
10	6/21/14	10,063	10,233	72	Marcellus Shale
11	6/22/14	9,805	9,983	72	Marcellus Shale
12	6/23/14	9,556	9,733	72	Marcellus Shale
13	6/24/14	9,303	9,485	72	Marcellus Shale
14	6/25/14	9,056	9,233	72	Marcellus Shale
15	6/26/14	8,800	8,983	72	Marcellus Shale
16	6/27/14	8,550	8,733	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	83.4	7,318	5,867	3,312	358,140	9,529	
2	6/14/14	84.3	7,288	6,025	4,201	417,620	8,511	
3	6/15/14	84.6	7,267	6,400	3,971	422,364	5,906	
4	6/16/14	84.6	6,940	5,885	3,942	422,480	8,589	
5	6/17/14	85.2	7,119	5,565	4,516	422,080	8,408	
6	6/18/14	82.8	6,966	5,936	4,373	284,800	7,459	
7	6/19/14	85.0	6,980	5,543	4,431	419,760	8,569	
8	6/20/14	80.7	6,775	5,695	5,032	417,940	8,414	
9	6/21/14	80.1	6,887	6,128	4,230	414,340	8,444	
10	6/22/14	80.1	6,850	5,778	4,487	421,480	8,314	
11	6/23/14	80.3	6,865	6,146	4,030	421,000	8,229	
12	6/24/14	80.4	6,892	5,697	4,603	423,300	8,339	
13	6/25/14	80.7	6,933	5,793	4,344	420,120	8,320	
14	6/26/14	80.0	6,693	6,231	4,114	419,320	8,316	
15	6/27/14	80.3	6,638	5,582	4,632	421,660	8,320	
16	6/28/14	80.2	6,979	5,902	4,259	419,300	8,704	

Please insert additional pages as applicable.

Received  
Office of Oil & Gas  
July 16 2015

API 47- 103 - 02833 Farm name Pribble, Richard Well number #4H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
17	6/28/14	8,300	8,477	72	Marcellus Shale
18	10/3/14	8,050	8,233	72	Marcellus Shale
19	10/4/14	7,800	7,978	72	Marcellus Shale
20	10/5/14	7,550	7,733	72	Marcellus Shale
21	10/6/14	7,355	7,483	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	6/29/14	80.6	6,398	5,381	4,603	423,460	8,324	
18	10/4/14	80.2	6,811	5,545	4,659	418,860	8,211	
19	10/5/14	80.3	6,661	5,385	4,130	426,500	8,311	
20	10/6/14	80.4	6,356	5,524	4,574	421,260	8,260	
21	10/6/14	60.5	7,146	6,154	4,428	380,640	7,751	

Received  
Office of Oil & Gas  
JUL 16 2015

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API 47- 103 - 02833 Farm name Pribble, Raymond Well number #4H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus Shale</u>	<u>6,561' to 6,553'</u> TVD	<u>7,355' to 12,436'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2,357 psi Bottom Hole 4,557 calculated psi DURATION OF TEST 74 hrs

OPEN FLOW Gas 1,978 mcfpd Oil \_\_\_\_\_ bpd NGL 216.0 bpd Water 559.2 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 <sub>2</sub> S, ETC)
	0		0		
See Attached Sheet					

Please insert additional pages as applicable.

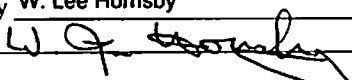
Drilling Contractor Nomac (top-hole) & Saxon Drilling (horizontal)  
Address 2034 Martins Branch Rd / 9303 New Trails Drive City Mount Morris / The Woodlands State PA / TX Zip 25312 / 77381

Logging Company Scientific Drilling and Schlumberger  
Address 3475 Washington Ave / 1178 US HWY 33 East City Finleyville / Weston State PA / WV Zip 15332 / 26452

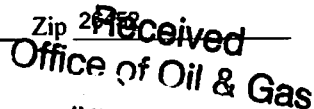
Cementing Company Schlumberger  
Address 1178 US HWY 33 East City Weston State WV Zip 26452

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

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



JUL 16 2015

10/23/2015

Pribble #4H  
API 47-103-02833  
Stone Energy Corporation

	Horizontal				
	Top (ft TVD)	Top (ft MD)	Bottom (ft TVD)	Bottom (ft MD)	
Sandstone & Shale	Surface		*	1,069	FW @ 95'
Coal	1,069		*	1,071	
Sandstone & Shale	1,071		*	2,116	SW @ 1,766'
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		*	5,663	5,689
Rhinestreet	5,663	5,689	~	6,248	6,366
Cashaqua	6,248	6,366	~	6,382	6,607
Middlesex	6,382	6,607	~	6,406	6,651
West River	6,406	6,651	~	6,465	6,818
Geneseo	6,465	6,818	~	6,483	6,896
Tully Limestone	6,483	6,896	~	6,518	7,057
Hamilton Shale	6,518	7,057	~	6,546	7,239
Marcellus	6,546	7,239	~	6,551	12,570
TD				6,551	12,570

\* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log

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JUL 16 2015

10/23/2015

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	10/6/2014
State:	West Virginia
County/Parish:	Wetzel County
API Number:	47-103-02833
Operator Name:	Stone Energy
Well Name and Number:	Pribble 4H
Longitude:	515,449
Latitude:	4,393,494
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume (gal)*:	7276835

## 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		87.41213%	
			Crystalline silica	14808-60-7	98.45691%	12.39362%	
			Hydrochloric acid	7647-01-0	0.79232%	0.09974%	
			Ammonium sulfate	7783-20-2	0.14712%	0.01852%	
			Polyethylene glycol monohexyl ether	31726-34-8	0.06723%	0.00846%	
			Glutaraldehyde	111-30-8	0.05240%	0.00660%	
			Calcium chloride	10043-52-4	0.02567%	0.00323%	
			Urea	57-13-6	0.02452%	0.00309%	
			Diammonium peroxodisulfate	7727-54-0	0.02372%	0.00299%	
			Polypropylene glycol	25322-69-4	0.00954%	0.00120%	
			Sodium carbonate	497-19-8	0.00572%	0.00072%	
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00517%	0.00065%	
			Methanol	67-56-1	0.00468%	0.00059%	
			Trisodium orthophosphate	7601-54-9	0.00402%	0.00051%	
			Ethylene Glycol	107-21-1	0.00402%	0.00051%	
			Sodium erythorbate	6381-77-7	0.00307%	0.00039%	
			Thiourea formaldehyde polymer	Proprietary	0.00234%	0.00029%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00234%	0.00029%	
			Aliphatic acids	Proprietary	0.00180%	0.00023%	
			Prop-2-yn-1-ol	107-19-7	0.00078%	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-31535 (Generated on 10/23/2014 3:04 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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10/16/2015

10/23/2015

# PRIBBLE #4H (47-103-02833) AS-DRILLED

### PRIBBLE #4H SURFACE HOLE

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17 METERS
NORTH ZONE-NAD 27 (N) 436543 (E) 1628548	NAD 27 39.69107 80.82000	4393494 515449

### PRIBBLE #4H LANDING POINT

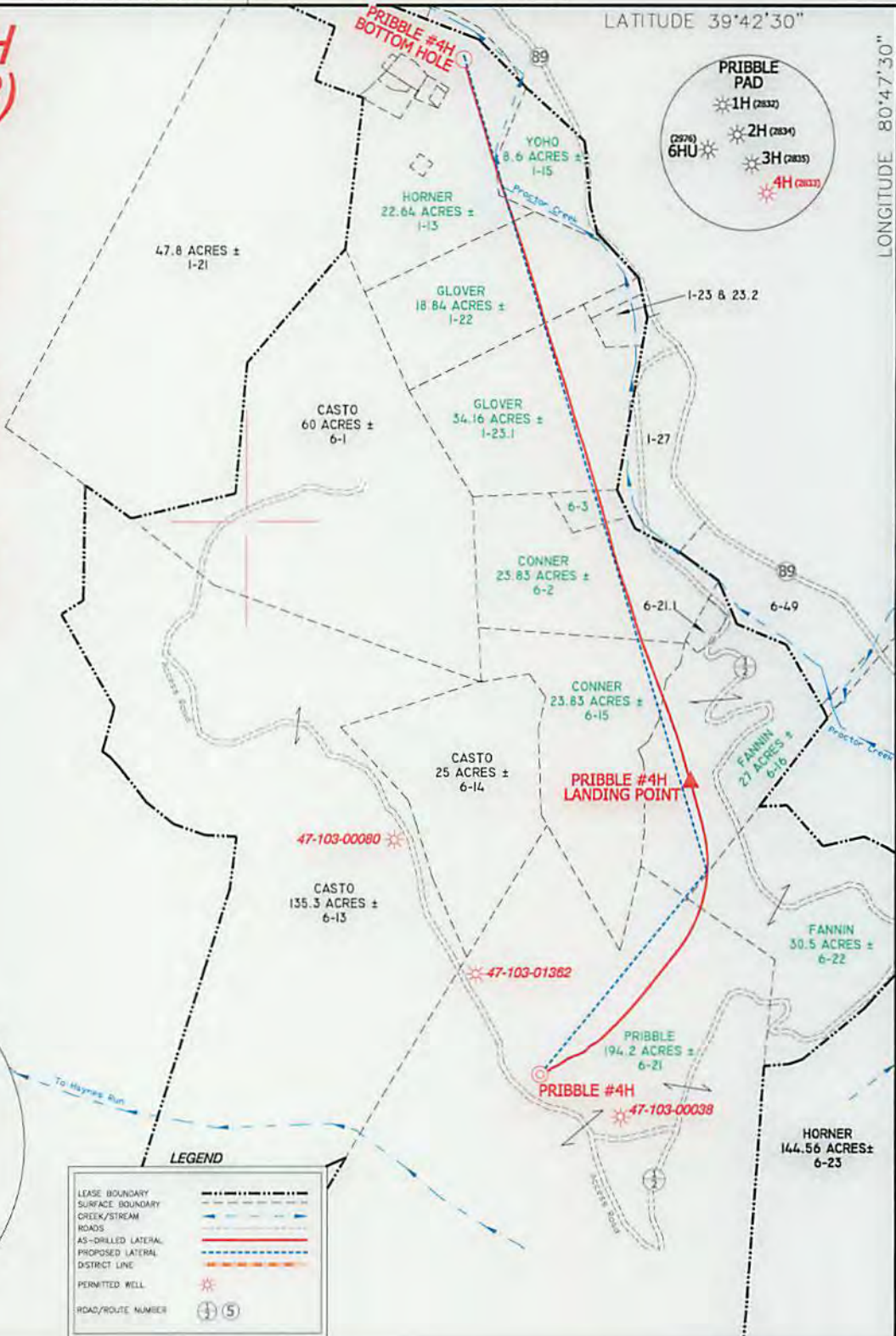
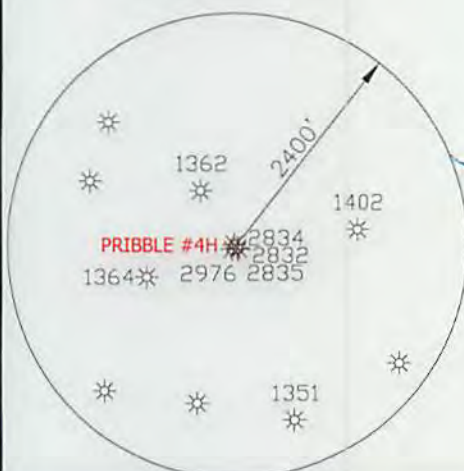
STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17 METERS
NORTH ZONE-NAD 27 (N) 438318 (E) 1629457	NAD 27 39.69598 80.81687	4394039 515717

### PRIBBLE #4H BOTTOM HOLE

STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17 METERS
NORTH ZONE-NAD 27 (N) 442715 (E) 1628071	NAD 27 39.70799 80.82202	4395372 515272

### 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.
- 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 WDEP.
- AS-DRILLED INFORMATION PROVIDED BY STONE ENERGY CORPORATION.



**LEGEND**

- LEASE BOUNDARY: - - - - -
- SURFACE BOUNDARY: - - - - -
- CREEK/STREAM: ~ ~ ~ ~ ~
- ROADS: ————
- AS-DRILLED LATERAL: ————
- PROPOSED LATERAL: - - - - -
- DISTRICT LINE: - - - - -
- PERMITTED WELL: \*
- ROAD/ROUTE NUMBER: (4) (5)

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 #4H  
 API WELL NO. 47-103-02833  
 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 385.35± **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 6,586' MD 12,570'

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

COUNTY NAME  
 PERMIT