

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

API 47 - 103 - 02863 County Wetzel District Magnolia
Quad New Martinsville Pad Name Stone Field/Pool Name Mary
Farm name Stone Energy Corporation Well Number #7H
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 4,389,058 Easting 518,706
Landing Point of Curve Northing 4,389,492 Easting 518,871
Bottom Hole Northing 4,390,974 Easting 518,277

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

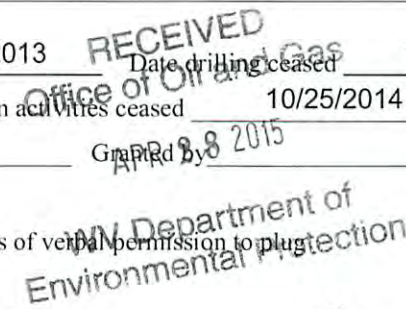
Mud Type(s) and Additive(s)
Saturated salt mud which includes Caustic Soda, Barite, Lime, New-Drill, Perma-Lose HT, Xan-Plex D, X-Cide 102, Soda Ash, and Sodium Chloride

Date permit issued 4/1/2013 Date drilling commenced 6/2/2013 Date drilling ceased 1/4/2014
Date completion activities began 4/7/2014 Date completion activities ceased 10/25/2014
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 N
Salt water depth(s) ft None Reported Void(s) encountered (Y/N) depths N
Coal depth(s) ft 836 & 911 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
4L 5/26/15
W.S. 04/06/15
06/05/2015



API 47-103 - 02863 Farm name Stone Energy Corporation Well number #7H

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"	1,229' KB - 1,214' GL	New	J55	104' & 222'	Y - CTS
Coal	17.5"	13.375"	1,229' KB - 1,214' GL	New	J55	104' & 222'	Y - CTS
Intermediate 1	12.25"	9.625"	2,461'	New	J55		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	12,943'	New	P110		Y - TOC @ 1,290'
Tubing	N/A	2.375"	7,440'	New	N80		N/A
Packer type and depth set							

Comment Details Circulated 18 bbls cement to surface on 13.375" casing string. Circulated 39 bbls cement to surface on the 9.625" casing string. Circulated 16 bbls cement to surface on 5.5" casing string. TOC on 5.5" after running CBL @ 1,290'.

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"	855	15.6	1.19	1,017	Surface	8.0
Coal	Class "A"	855	15.6	1.19	1,017	Surface	8.0
Intermediate 1	Lead-FlexSeal Tail-Class "A"	Lead-490 Tail-310	Lead-15.0 Tail-15.6	Lead-1.26 Tail-1.19	Lead-617 Tail-369	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-FlexSeal Tail-Class "A"	Lead-747 Tail-1,934	Lead-15.0 Tail-15.6	Lead-1.26 Tail-1.19	Lead-941 Tail-2,301	1,290	7.0
Tubing							

Drillers TD (ft) 12,946 MD / 6,717 TVD Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Shale Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 5,860 MD / 5,848' 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, 5, 8, 11, 14, 17, 20, 23, 26 and 29. Intermediate casing had bow spring centralizers placed on joints 2, 4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37, 40, 43, 46, 49, 52 and 55. Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 2 to joint 166. Ran a total of 42 rigid spiral centralizers. Ran bow spring centralizers from joint 169 to joint 271 on every third joint. A total of 34 bow spring centralizers were run.

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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 _____

API 47- 103 - 02863 Farm name Stone Energy Corporation Well number #7H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	4/16/14	12,654	12,657	72	Marcellus Shale
2	5/5/14	12,384	12,572	72	Marcellus Shale
3	5/7/14	12,138	12,309	72	Marcellus Shale
4	5/8/14	11,888	12,065	72	Marcellus Shale
5	5/9/14	11,641	11,818	72	Marcellus Shale
6	5/10/14	11,390	11,573	72	Marcellus Shale
7	5/11/14	11,144	11,323	72	Marcellus Shale
8	5/12/14	10,891	11,072	72	Marcellus Shale
9	6/26/14	10,630	10,818	72	Marcellus Shale
10	7/9/14	10,377	10,563	72	Marcellus Shale
11	7/14/14	10,124	10,305	72	Marcellus Shale
12	7/15/14	9,870	10,051	72	Marcellus Shale
13	7/18/14	9,612	9,794	72	Marcellus Shale
14	7/19/14	9,361	9,548	72	Marcellus Shale
15	7/21/14	9,105	9,288	72	Marcellus Shale
16	7/22/14	8,852	9,037	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	85.2	7,605	6,615	5,005	345,380	8,238	
2	5/7/14	84.4	8,052	7,403	5,349	419,540	8,308	
3	5/8/14	84.7	8,045	6,697	5,262	423,280	8,526	
4	5/9/14	85.4	8,068	6,708	5,550	423,380	8,445	
5	5/10/14	82.4	8,040	7,500	5,807	427,500	8,324	
6	5/11/14	84.0	8,078	7,561	5,664	420,640	8,412	
7	5/12/14	84.1	8,193	7,328	5,463	414,760	8,728	
8	5/13/14	74.8	7,918	6,833	5,606	418,120	8,809	
9	7/8/14	73.2	8,335	7,572	4,793	424,280	9,443	
10	7/14/14	77.0	7,961	7,859	5,280	418,720	9,043	
11	7/15/14	77.9	8,208	8,292	4,201	401,480	11,409	
12	7/18/14	59.8	8,870	8,855	9,063	2,566	7,899	
13	7/19/14	73.4	7,719	6,366	5,730	120,440	7,131	
14	7/21/14	80.3	7,537	6,337	5,205	173,887	8,273	
15	7/22/14	80.3	7,182	7,516	4,805	422,940	8,246	
16	7/31/14	81.8	7,080	7,721	4,315	418,000	8,460	

Please insert additional pages as applicable.

Stone #7H
API 47-103-02863
Stone Energy Corporation

	Horizontal				
	Top (ft TVD)	Top (ft MD)			
Sandstone & Shale	Surface		*	836	FW @ 95
Coal	836		*	839	
Sandstone & Shale	839		*	911	
Coal	911			915	
Sandstone & Shale	915			2,086	
Little Lime	2,086		*	2,116	
Big Lime	2,116		*	2,216	
Big Injun	2,216		*	2,316	
Sandstone & Shale	2,316		*	2,689	No SW Reported
Berea Sandstone	2,689		*	2,719	
Shale	2,719		*	2,894	
Gordon	2,894		*	2,944	
Undiff Devonian Shale	2,944		*	5,840	5,851
Rhinestreet	5,840	5,851	~	6,366	6,692
Cashaqua	6,366	6,692	~	6,421	6,846
Middlesex	6,421	6,846	~	6,601	7,021
West River	6,601	7,021	~	6,677	7,148
Geneseo	6,677	7,148	~	6,693	7,114
Tully Limestone	6,693	7,114	~	6,731	7,287
Hamilton Shale	6,731	7,287	~	6,781	7,485
Marcellus	6,781	7,485	~	6,717	12,946
TD				6,717	12,946

* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log

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06/05/2015

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	8/7/2014
State:	West Virginia
County/Parish:	Wetzel County
API Number:	47-103-02863
Operator Name:	Stone Energy
Well Name and Number:	Stone 7H
Longitude:	518,706
Latitude:	4,389,058
Long/Lat Projection:	
Production Type:	
True Vertical Depth (TVD):	0
Total Water Volume (gal)*:	7347132

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, Buffer, Propping Agent, Fluid	Water (Including Mix Water Supplied by Client)*	NA		89.27875%	
			Crystalline silica	14808-60-7	98.16495%	10.52451%	
			Ammonium sulfate	7783-20-2	1.99278%	0.21365%	
			Hydrochloric acid	7647-01-0	1.11363%	0.11940%	
			Carbohydrate polymer	Proprietary	0.69089%	0.07407%	
			Urea	57-13-6	0.33213%	0.03561%	
			Polyethylene glycol monohexyl ether	31726-34-8	0.07701%	0.00826%	
			Glutaraldehyde	111-30-8	0.06149%	0.00659%	
			Diammonium peroxodisulfate	7727-54-0	0.02881%	0.00309%	
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00592%	0.00064%	
			Sodium carbonate	497-19-8	0.00541%	0.00058%	
			Methanol	67-56-1	0.00445%	0.00048%	
			Trisodium ortho phosphate	7601-54-9	0.00441%	0.00047%	
			Ethane-1,2-diol	107-21-1	0.00441%	0.00047%	
			Sodium erythorbate	6381-77-7	0.00384%	0.00041%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00334%	0.00036%	
			Aliphatic acids	Proprietary	0.00334%	0.00036%	
			Calcium chloride	10043-52-4	0.00140%	0.00015%	
			Prop-2-yn-1-ol	107-19-7	0.00111%	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-29871 (Generated on 8/25/2014 1:12 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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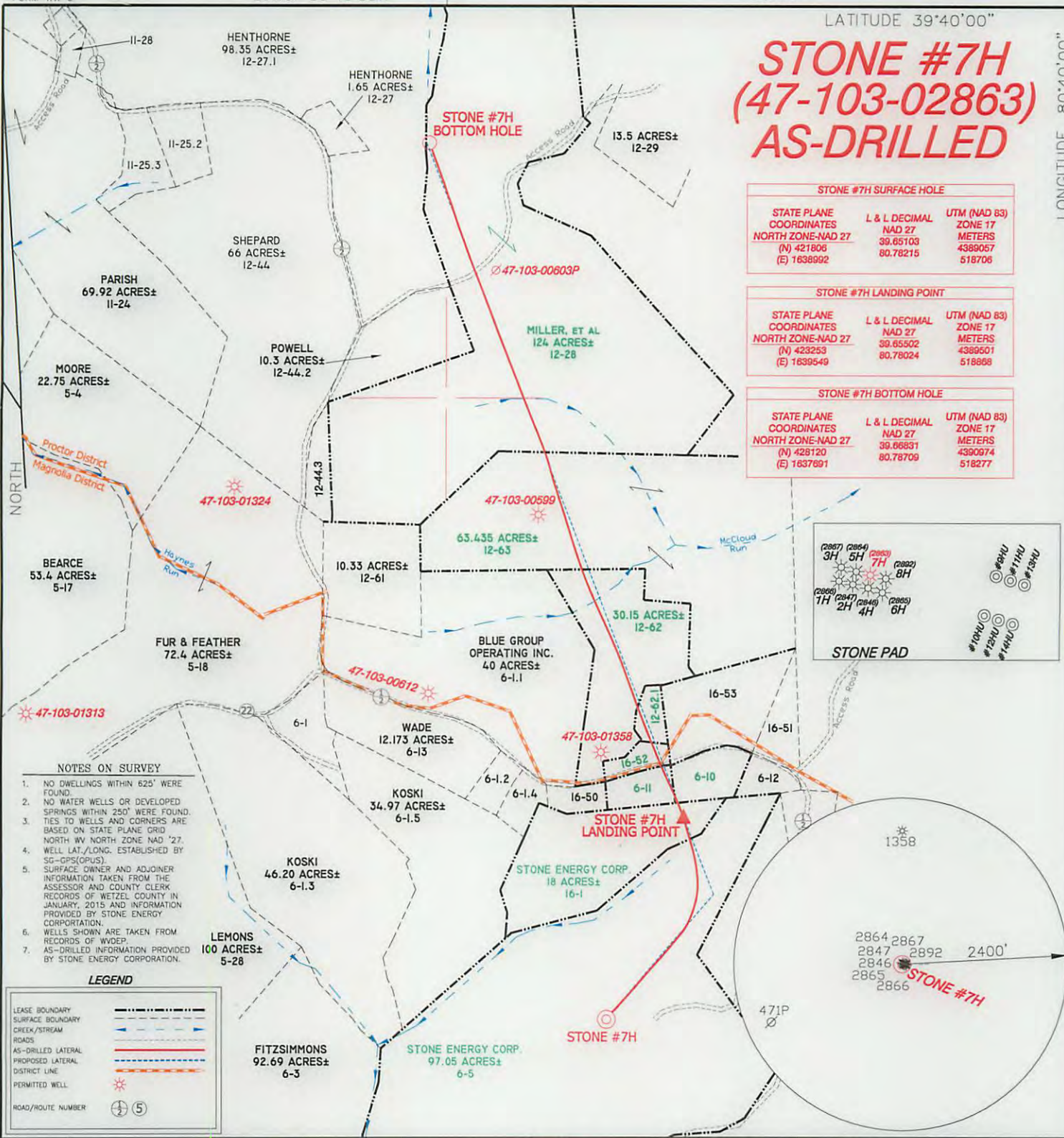
06/05/2015

STONE #7H (47-103-02863) AS-DRILLED

STONE #7H SURFACE HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27 (N) 421806 (E) 1638992	L & L DECIMAL NAD 27 39.65103 80.78215	UTM (NAD 83) ZONE 17 METERS 4389067 518706

STONE #7H LANDING POINT		
STATE PLANE COORDINATES NORTH ZONE-NAD 27 (N) 423253 (E) 1639549	L & L DECIMAL NAD 27 39.65502 80.78024	UTM (NAD 83) ZONE 17 METERS 4389501 518868

STONE #7H BOTTOM HOLE		
STATE PLANE COORDINATES NORTH ZONE-NAD 27 (N) 428120 (E) 1637691	L & L DECIMAL NAD 27 39.66831 80.78709	UTM (NAD 83) ZONE 17 METERS 4390974 518277



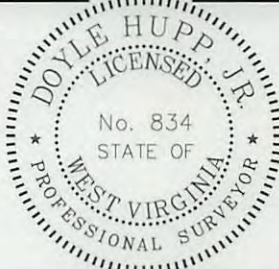
- NOTES ON SURVEY**
- NO DWELLINGS WITHIN 625' WERE FOUND.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
 - TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV NORTH ZONE NAD '27. WELL LAT./LONG. ESTABLISHED BY SG-GPS(OPUS).
 - SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WETZEL COUNTY IN JANUARY, 2015 AND INFORMATION PROVIDED BY STONE ENERGY CORPORATION.
 - WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.
 - 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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S.
834
Doyle Hupp Jr.
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 APRIL 6, 20 15
OPERATORS WELL NO. STONE #7H
API WELL NO. 47-103-02863
STATE COUNTY PERMIT

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 339.09± **06/05/2015**

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-6,805' MD- 12,946'

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