

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

API 47 - 103 - 02925 County Wetzel District Green  
Quad Porters Falls Pad Name Martin Field/Pool Name Mary  
Farm name Martin, Charles and Gwendo Well Number #7H 519180  
Operator (as registered with the OOG) EQT Production Company  
Address 625 Liberty Avenue, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,384,799.997 Easting 520,087.638  
Landing Point of Curve Northing 4,385,202.345 Easting 520,072.631  
Bottom Hole Northing 4,386,470.124 Easting 519,225.789

Elevation (ft) 906 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 9/30/2013 Date drilling commenced 5/29/2014 Date drilling ceased 11/4/2014  
Date completion activities began 10/10/2018 Date completion activities ceased 10/30/2018  
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 RECEIVED  
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Freshwater depth(s) ft 100 Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft None Reported Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft 626, 706 and 742 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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Reviewed by:  
DMH  
2-21-19

Reviewed

API 47-103 - 02925 Farm name Martin, Charles and Gwendo Well number #7H 519180

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"	88'	New	LS - 94.1 ppf		N - GTS
Surface	17.5"	13.375"	899	New	J55 - 54.5 ppf	121' & 199'	Y - CTS
Coal	17.5"	13.375"	899	New	J55 - 54.5 ppf	121' & 199'	Y - CTS
Intermediate 1	12.25"	9.625"	2,235'	New	J55 - 36 ppf		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	12,207'	New	P110 - 20 ppf		N - TOC @ 1,138' Calculated
Tubing							
Packer type and depth set		TAM CAP Inflatable Packer on 9.625" Casing String @ 765'					

Comment Details Circulated 21 bbls cement to surface on 13.375" casing string. Circulated 35 bbls cement to surface on the 9.625" casing string. Did not circulate any cement to surface on the 5.5" casing string. TOC on 5.5" calculated to be @ 1,138'.

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	HalCem Class "A"	670	15.6	1.21	811	Surface	8.0
Coal	HalCem Class "A"	670	15.6	1.21	811	Surface	8.0
Intermediate 1	Lead-HalCem Tail-HalCem	Lead-400 Tail-400	Lead-15.6 Tail-15.6	Lead-1.24 Tail-1.21	Lead-496 Tail-484	Surface	12.0
Intermediate 2							
Intermediate 3							
Production	Lead-TunedSpacer3 Tail-VanCem	Lead-279 Tail-2,330	Lead-14.5 Tail-15.2	Lead-1.51 Tail-1.20	Lead-421 Tail-2,798	1,138' Calculated	7.0
Tubing							

Drillers TD (ft) 12,213 MD / 6,500 TVD Loggers TD (ft) N/A  
 Deepest formation penetrated Marcellus Shale Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5,760 MD / 5,738 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 4, 8, 12, 16 and 20. Intermediate casing had bow spring centralizers placed on joints 4, 8, 12, 16, 20, 24, 28 and 32.  
Production casing had rigid spiral centralizers placed on every fourth joint beginning with joint 7 to joint 147. Ran a total of 38 rigid spiral centralizers. Ran bow spring centralizers from joint 152 to joint 232 on every fifth joint. A total of 17 bow spring centralizers were run.

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 WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS JAN 25 2019

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS WV Department of Environmental Protection

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47- 103 - 02925 Farm name Martin, Charles and Gwendo Well number #7H 519180

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
Please See Attached					

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)
Please See Attached								

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS</u>	<u>6,582'</u> TVD	<u>6,955'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 1,500 psi Bottom Hole N/A psi DURATION OF TEST 429.5 hrs

OPEN FLOW Gas 11,093 mcfpd Oil N/A bpd NGL 595.6 bpd Water 1,795.2 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP DEPTH IN FT NAME TVD</u>	<u>BOTTOM DEPTH IN FT TVD</u>	<u>TOP DEPTH IN FT MD</u>	<u>BOTTOM DEPTH IN FT MD</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)</u>
	<u>0</u>		<u>0</u>		
See Attached Sheet					

Please insert additional pages as applicable.

Drilling Contractor Highlands (top-hole) & Saxon Drilling (horizontal)  
Address 900 Virginia St. - East / 9303 New Trails Drive City Charleston / The Woodlands State WV / TX Zip 25301 / 77381


Logging Company Scientific Drilling and Schlumberger  
Address 124 Vista Drive / 1178 US HWY 33 East City Charleroi / Weston State PA / WV Zip 15022 / 26452

Cementing Company Halliburton  
Address 121 Champion Way, Suite 110 City Cannonsburg State PA Zip 15317

Stimulating Company ProFrac  
Address 777 Main Street, Suite 3900 City Fort Worth State TX Zip 76102

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Please insert additional pages as applicable.

Completed by Adam Hughey Telephone (724) 579-5475 WV Department of Environmental Protection  
Signature  Title Director - Completions Date 01/24/2019

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
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API 47 - 103 - 02925 County Wetzel District Green  
Quad Porters Falls Pad Name Martin Field/Pool Name Mary  
Farm name Martin, Charles and Gwendo 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 4,384,800 Easting 520,088  
Landing Point of Curve Northing 4,385,194 Easting 520,077  
Bottom Hole Northing 4,386,470 Easting 519,226

Elevation (ft) 906 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
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Is coal being mined in area (Y/N) N

Reviewed by: \_\_\_\_\_



API 47- 103 - 02925 Farm name Martin, Charles and Gwendo Well number #7H

**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)

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)

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Please insert additional pages as applicable.

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API 47- 103 - 02925 Farm name Martin, Charles and Gwendolyn Well number #7H

PRODUCING FORMATION(S)	DEPTHS	
<u>Not Yet Completed</u>	<u>        </u> TVD	<u>        </u> MD
<u>        </u>	<u>        </u>	<u>        </u>
<u>        </u>	<u>        </u>	<u>        </u>

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow      OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface          psi Bottom Hole          psi DURATION OF TEST          hrs

OPEN FLOW      Gas          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 <sub>2</sub> S, ETC)
	<u>0</u>		<u>0</u>		
<u>See Attached Sheet</u>					

Please insert additional pages as applicable.

Drilling Contractor Highlands (top-hole) & Saxon Drilling (horizontal)  
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Logging Company Scientific Drilling and Schlumberger  
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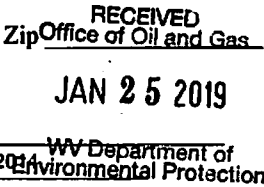
Cementing Company Halliburton  
Address 121 Champion Way, Suite 110 City Cannonsburg State PA Zip 15317

Stimulating Company           
Address          City          State          Zip         

Please insert additional pages as applicable.

**JAN 25 2019**

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



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



**519180 47-103-02925-00-00 Perforations**

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
1	9/29/2018	12,156	12,158	0	MARCELLUS
2	10/11/2018	11,828	11,990	40	MARCELLUS
3	10/11/2018	11,628	11,790	40	MARCELLUS
4	10/12/2018	11,428	11,590	40	MARCELLUS
5	10/12/2018	11,228	11,390	40	MARCELLUS
6	10/12/2018	11,028	11,190	40	MARCELLUS
7	10/13/2018	10,828	10,990	40	MARCELLUS
8	10/13/2018	10,628	10,790	40	MARCELLUS
9	10/13/2018	10,428	10,590	40	MARCELLUS
10	10/14/2018	10,228	10,390	40	MARCELLUS
11	10/15/2018	10,028	10,190	72	MARCELLUS
12	10/24/2018	9,828	9,989	40	MARCELLUS
13	10/25/2018	9,628	9,790	40	MARCELLUS
14	10/25/2018	9,428	9,590	40	MARCELLUS
15	10/26/2018	9,228	9,390	40	MARCELLUS
16	10/26/2018	9,028	9,190	40	MARCELLUS
17	10/27/2018	8,828	8,990	40	MARCELLUS
18	10/27/2018	8,628	8,790	40	MARCELLUS
19	10/27/2018	8,428	8,590	40	MARCELLUS
20	10/27/2018	8,228	8,390	40	MARCELLUS
21	10/28/2018	8,028	8,190	40	MARCELLUS
22	10/28/2018	7,828	7,990	40	MARCELLUS
23	10/28/2018	7,628	7,790	40	MARCELLUS
24	10/29/2018	7,428	7,590	40	MARCELLUS
25	10/29/2018	7,228	7,390	40	MARCELLUS
26	10/29/2018	7,028	7,190	40	MARCELLUS
<b>Kill Plug</b>	10/30/2018	6,928	6,930	0	MARCELLUS

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519180 47-103-02925-00-00 - Stimulated Stages

Stage Number	Stimulation 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	10/11/2018	72.00	8,707.00	9,162.00	4,084.00	180,000.00	4,454.00	0
2	10/11/2018	100.00	8,592.00	8,989.00	3,465.00	450,540.00	8,062.00	0
3	10/12/2018	97.00	8,567.00	8,960.00	4,215.00	450,580.00	7,786.50	0
4	10/12/2018	99.00	8,318.00	8,664.00	3,619.00	450,560.00	8,067.00	0
5	10/12/2018	99.00	8,482.00	8,987.00	3,462.00	450,300.00	7,990.00	0
6	10/12/2018	99.00	8,371.00	8,865.00	3,697.00	450,480.00	7,488.00	0
7	10/13/2018	99.00	8,631.00	9,358.00	4,464.00	450,080.00	7,424.00	0
8	10/13/2018	97.00	8,555.00	9,496.00	4,189.00	450,800.00	7,502.00	0
9	10/13/2018	95.00	8,327.00	9,269.00	4,354.00	450,800.00	7,449.00	0
10	10/15/2018	96.00	8,328.00	9,402.00	4,428.00	450,520.00	7,420.00	0
11	10/25/2018	86.00	8,708.00	9,015.00	3,733.00	450,120.00	7,252.00	0
12	10/25/2018	100.00	8,550.00	9,348.00	4,533.00	450,720.00	7,176.00	0
13	10/26/2018	100.00	8,392.00	9,166.00	4,571.00	450,000.00	7,468.00	0
14	10/26/2018	99.00	8,186.00	8,442.00	4,565.00	450,000.00	7,621.00	0
15	10/26/2018	100.00	8,236.00	9,544.00	5,322.00	400,060.00	6,501.00	0
Injection Test 15	10/27/2018	14.00	6,446.00	9,343.00	4,339.00	0.00	3,130.00	0
16	10/27/2018	98.00	8,421.00	8,953.00	4,331.00	450,800.00	7,543.00	0
17	10/27/2018	99.00	8,159.00	8,868.00	4,312.00	450,020.00	7,467.00	0
18	10/27/2018	100.00	8,044.00	8,873.00	4,215.00	450,600.00	7,275.00	0
19	10/28/2018	100.00	8,556.00	9,156.00	4,678.00	450,840.00	6,949.00	0
20	10/28/2018	99.00	8,134.00	8,768.00	4,158.00	450,700.00	7,304.00	0
21	10/28/2018	98.00	8,865.00	9,237.00	4,314.00	450,640.00	7,355.00	0
22	10/28/2018	100.00	8,663.00	9,253.00	4,210.00	450,800.00	7,108.00	0
23	10/29/2018	101.00	8,053.00	9,165.00	4,441.00	450,000.00	7,625.00	0
24	10/29/2018	99.00	8,118.00	9,062.00	4,458.00	450,140.00	7,340.00	0
25	10/30/2018	99.00	8,114.00	9,326.00	4,389.00	457,520.00	7,051.00	0
26	10/30/2018	100.00	7,642.00	9,356.00	4,117.00	450,940.00	7,020.00	0
Kill Plug	10/30/2018	0.00	0.00	0.00	0.00	0.00	34.00	0

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**Martin #7H**  
**API 47-103-02925**  
**Stone Energy Corporation**

	Horizontal		Bottom (ft TVD)	Bottom (ft MD)	
	Top (ft TVD)	Top (ft MD)			
Sandstone & Shale	Surface	*	634		FW @ 108'
Coal	634	*	639		
Sandstone & Shale	639	*	714		
Coal	714	*	730		
Sandstone & Shale	730	*	750		
Coal	750	*	756		
Sandstone & Shale	756	*	1,883		SW @ None Reported
Little Lime	1,883	*	1,913		
Big Lime	1,913	*	2,013		
Big Injun	2,013	*	2,113		
Sandstone & Shale	2,113	*	2,477		
Berea Sandstone	2,477	*	2,507		
Shale	2,507	*	2,679		
Gordon	2,679	*	2,729		
Undiff Devonian Shale	2,729	*	5,677	5,698	
Rhinstreet	5,677	5,698 ~	6,160	6,203	
Cashaqua	6,160	6,203 ~	6,410	6,566	
Middlesex	6,410	6,566 ~	6,429	6,588	
West River	6,429	6,588 ~	6,492	6,704	
Geneseo	6,492	6,704 ~	6,502	6,733	
Tully Limestone	6,502	6,733 ~	6,532	6,801	
Hamilton Shale	6,532	6,801 ~	6,582	6,955	
Marcellus	6,582	6,955 ~	6,500	12,213	
TD			6,500	12,213	

\* From Pilot Hole Log and Driller's Log  
~ From MWD Gamma Log

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# Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	10/10/2018
Job End Date:	10/30/2018
State:	West Virginia
County:	Wetzel
API Number:	47-103-02925-00-00
Operator Name:	EQT Production
Well Name and Number:	519180
Latitude:	39.61263600
Longitude:	-80.76616800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,582
Total Base Water Volume (gal):	8,100,183
Total Base Non Water Volume:	0

## 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
Water	ProFrac	Carrier/Base Fluid	Water	7732-18-5	100.00000	85.30808	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor		Listed Below			

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MC MX 2-2822	Multi-Chem	Scale Inhibitor							
					Listed Below				
Sand (Proppant)	ProFrac	Proppant							
					Listed Below				
Other Chemical (s)	Listed Above	See Trade Name (s) List							
					Listed Below				
Hydrochloric Acid (15%)	ProFrac	Acidizing							
					Listed Below				
MC MX 5-3886	Multi-Chem	Bacteria Treatment							
					Listed Below				
MC MX 8-4543	Multi-Chem	Bacteria Treatment							
					Listed Below				
ProFe 105	ProFrac	Iron Control							
					Listed Below				
LD-2950	Multi-Chem	Friction Reducer							
					Listed Below				

Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.

	Silica Substrate	14808-60-7	100.00000	14.38530	None
	Calcium Nitrate 4H2O	13477-34-4	100.00000	0.03753	

					Calcium Nitrate.4H2O	13477-34-4	100.00000	0.03753	None
					Hydrochloric Acid	7647-01-0	15.00000	0.02952	None
					Hydrotreated Light Petroleum Distillate	64742-47-8	30.00000	0.01536	None
					Amines, Polyethylenepoly-,Ethoxylated, Phosphonomethylated, Sodiumsalts	70900-16-2	30.00000	0.00547	None
					Methanol	67-56-1	30.00000	0.00547	None
					Ethoxylated Alcohol	Proprietary	5.00000	0.00256	None
					Poly(Oxy-1,2-Ethanediy),,Alpha.-Tridecyl-, Omega.-Hydroxy-, Branched	69011-36-5	5.00000	0.00256	None
					Proprietary	Proprietary	100.00000	0.00246	None
					Proprietary	Proprietary	100.00000	0.00246	None
					Sodium Chloride	7647-14-5	5.00000	0.00091	None
					Methanol	67-56-1	90.00000	0.00033	None
					Methanol	67-56-1	90.00000	0.00033	None
					Citric Acid	77-92-9	100.00000	0.00005	None
					Citric Acid	77-92-9	100.00000	0.00005	None
					Imidazoline	61790-69-0	5.00000	0.00002	None
					Alcohols, C7-9-ISO, C8-Rich	68526-83-0	5.00000	0.00002	None
					Xylene	1330-20-7	5.00000	0.00002	None
					Propargyl Alcohol	107-19-7	5.00000	0.00002	None
					Alcohols, C7-9-ISO, C8-Rich	68526-83-0	5.00000	0.00002	None
					Isopropanol	67-63-0	5.00000	0.00002	None
					Propargyl Alcohol	107-19-7	5.00000	0.00002	None
					Imidazoline	61790-69-0	5.00000	0.00002	None
					Xylene	1330-20-7	5.00000	0.00002	None
					Isopropanol	67-63-0	5.00000	0.00002	None
					Ethylbenzene	100-41-4	1.00000	0.00000	None

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			Ethylbenzene	100-41-4	1.00000	0.00000
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\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water  
 \*\* Information is based on the maximum potential for concentration and thus the total may be over 100%  
 \*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.  
 Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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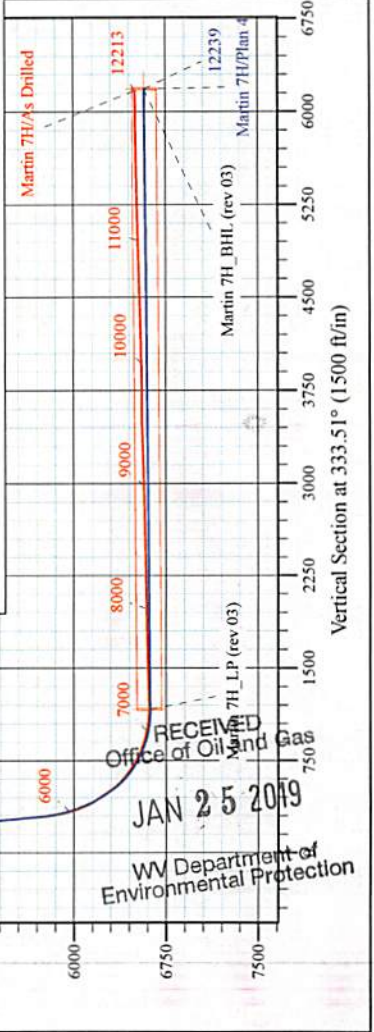
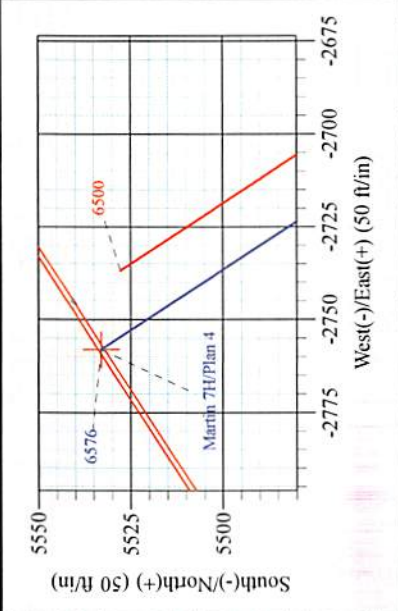
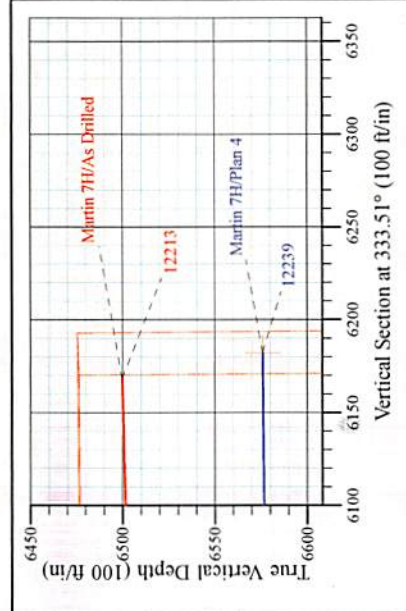
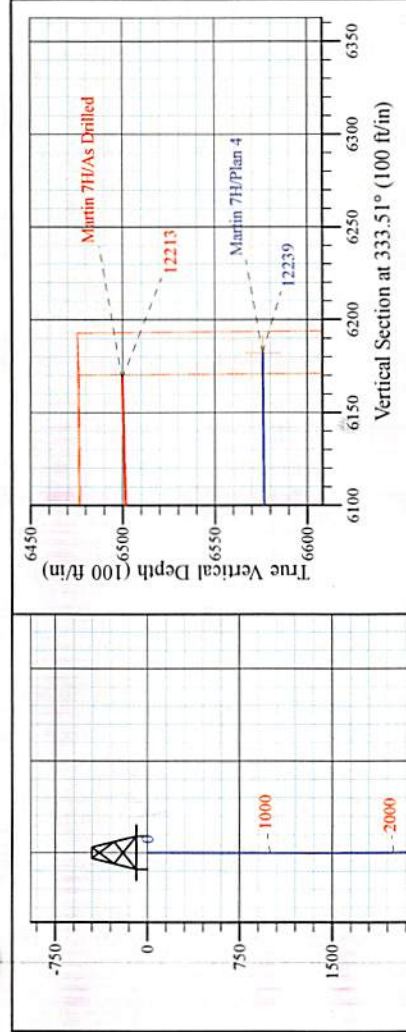
Martin Pad  
 Martin 7H  
 Plan 4  
 GL 906 & KB 18 @ 924.00ft (Saxon 141)  
 Heather Prospect (NAD 27)

PROJECT DETAILS:  
 Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: West Virginia North 4701  
 System Datum: Mean Sea Level



WELL DETAILS: Martin 7H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	407760.00	1643294.00	39° 36' 45.491 N	80° 45' 58.204 W



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Shane Rhodes  
 9:52, November 06 2014  
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 124 Vista Drive  
 Charleroi, PA 15022





# Stone Energy Corporation

Heather Prospect (NAD 27)

Martin Pad

Martin 7H - Slot 7H

OH

Design: As Drilled

## Standard Survey Report

06 November, 2014

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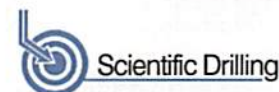


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**Scientific Drilling International**  
Survey Report



<b>Company:</b>	Stone Energy Corporation	<b>Local Co-ordinate Reference:</b>	Well Martin 7H - Slot 7H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Site:</b>	Martin Pad	<b>MD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Well:</b>	Martin 7H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	Northeast District

<b>Project</b>	Heather Prospect (NAD 27), Wetzel County, West Virginia		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	West Virginia North 4701		

<b>Site</b>	Martin Pad				
<b>Site Position:</b>		<b>Northing:</b>	407,759.00 usft	<b>Latitude:</b>	39° 36' 45.478 N
<b>From:</b>	Map	<b>Easting:</b>	1,643,274.00 usft	<b>Longitude:</b>	80° 45' 58.459 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	-0.81 °

<b>Well</b>	Martin 7H - Slot 7H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b>	407,760.00 usft	<b>Latitude:</b>	39° 36' 45.491 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	1,643,294.00 usft	<b>Longitude:</b>	80° 45' 58.204 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	0.00 ft	<b>Ground Level:</b>	906.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2013	3/27/2014	-8.59	67.11	52,440
	BGGM2013	4/15/2014	-8.59	67.10	52,433
	BGGM2014	5/23/2014	-8.54	67.12	52,427
	User Defined	9/10/2014	-7.69	67.13	52,532
	User Defined	9/29/2014	-7.69	67.12	52,524

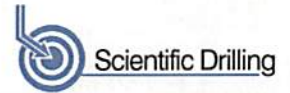
<b>Design</b>	As Drilled				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00		333.51

<b>Survey Program</b>	<b>Date</b>	11/6/2014			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
18.00	2,231.00	Survey 1 - SDI Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
2,275.00	5,634.00	Survey 2 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	
5,669.00	12,213.00	Survey #3 - SDI MWD (OH)	SDI MWD	SDI MWD - Standard ver 1.0.1	

<b>Survey</b>										
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Ground Level</b>										
108.00	0.25	61.46	108.00	0.09	0.17	0.01	0.28	0.28	0.00	
<b>First SDI Gyro Survey @ 108 MD</b>										



Scientific Drilling International  
Survey Report



<b>Company:</b>	Stone Energy Corporation	<b>Local Co-ordinate Reference:</b>	Well Martin 7H - Slot 7H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Site:</b>	Martin Pad	<b>MD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Well:</b>	Martin 7H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	Northeast District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
208.00	0.23	68.50	208.00	0.27	0.55	0.00	0.04	-0.02	7.04	
308.00	0.19	63.37	308.00	0.42	0.89	-0.02	0.04	-0.04	-5.13	
408.00	0.14	79.47	408.00	0.52	1.15	-0.05	0.07	-0.05	16.10	
508.00	0.31	190.70	508.00	0.27	1.22	-0.30	0.38	0.17	111.23	
608.00	0.36	173.09	608.00	-0.31	1.21	-0.81	0.11	0.05	-17.61	
708.00	0.34	172.25	707.99	-0.91	1.29	-1.39	0.02	-0.02	-0.84	
808.00	0.51	172.39	807.99	-1.65	1.39	-2.09	0.17	0.17	0.14	
908.00	0.43	118.20	907.99	-2.26	1.78	-2.82	0.43	-0.08	-54.19	
1,008.00	0.44	57.72	1,007.99	-2.24	2.43	-3.09	0.44	0.01	-60.48	
1,108.00	0.65	54.09	1,107.98	-1.70	3.22	-2.96	0.21	0.21	-3.63	
1,208.00	0.64	36.68	1,207.97	-0.92	4.01	-2.61	0.20	-0.01	-17.41	
1,308.00	0.57	36.39	1,307.97	-0.07	4.64	-2.13	0.07	-0.07	-0.29	
1,408.00	0.62	52.18	1,407.96	0.66	5.36	-1.80	0.17	0.05	15.79	
1,508.00	0.60	47.60	1,507.96	1.35	6.18	-1.55	0.05	-0.02	-4.58	
1,608.00	0.55	49.49	1,607.95	2.01	6.93	-1.29	0.05	-0.05	1.89	
1,708.00	0.49	54.85	1,707.95	2.57	7.64	-1.11	0.08	-0.06	5.36	
1,808.00	0.49	44.36	1,807.95	3.12	8.29	-0.90	0.09	0.00	-10.49	
1,908.00	0.44	36.62	1,907.94	3.74	8.82	-0.59	0.08	-0.05	-7.74	
2,008.00	0.67	34.96	2,007.94	4.52	9.38	-0.14	0.23	0.23	-1.66	
2,108.00	0.83	30.36	2,107.93	5.63	10.08	0.54	0.17	0.16	-4.60	
2,208.00	0.98	16.49	2,207.92	7.07	10.69	1.56	0.26	0.15	-13.87	
2,231.00	0.98	13.47	2,230.91	7.45	10.79	1.85	0.22	0.00	-13.13	
<b>Last SDI Gyro Survey @ 2231 MD</b>										
2,275.00	0.97	2.11	2,274.91	8.19	10.90	2.47	0.44	-0.02	-25.82	
<b>First SDI MWD Survey @ 2275 MD</b>										
2,369.00	1.01	346.60	2,368.89	9.79	10.73	3.97	0.29	0.04	-16.50	
2,464.00	0.99	354.27	2,463.88	11.42	10.46	5.56	0.14	-0.02	8.07	
2,558.00	0.83	0.41	2,557.87	12.91	10.38	6.92	0.20	-0.17	6.53	
2,652.00	2.14	12.90	2,651.83	15.30	10.78	8.89	1.43	1.39	13.29	
2,746.00	3.96	11.27	2,745.70	20.20	11.80	12.81	1.94	1.94	-1.73	
2,840.00	4.79	8.83	2,839.42	27.26	13.04	18.58	0.90	0.88	-2.60	
2,935.00	4.65	3.13	2,934.10	35.02	13.86	25.16	0.51	-0.15	-6.00	
3,029.00	4.16	358.96	3,027.82	42.24	14.01	31.55	0.62	-0.52	-4.44	
3,123.00	4.84	2.96	3,121.53	49.61	14.15	38.08	0.80	0.72	4.26	
3,217.00	6.27	5.63	3,215.09	58.67	14.86	45.88	1.55	1.52	2.84	
3,311.00	6.75	4.82	3,308.48	69.29	15.82	54.95	0.52	0.51	-0.86	
3,405.00	6.95	2.60	3,401.81	80.47	16.55	64.64	0.35	0.21	-2.36	
3,500.00	6.65	359.47	3,496.14	91.72	16.76	74.61	0.50	-0.32	-3.29	
3,593.00	7.19	3.69	3,588.47	102.91	17.08	84.48	0.80	0.58	4.54	
3,687.00	6.70	8.96	3,681.78	114.20	18.31	94.03	0.85	-0.52	5.61	
3,782.00	6.35	16.22	3,776.16	124.71	20.64	102.41	0.94	-0.37	7.64	
3,876.00	6.84	16.63	3,869.54	135.07	23.70	110.31	0.52	0.52	0.44	
3,970.00	7.58	13.07	3,962.80	146.47	26.70	119.18	0.92	0.79	-3.79	
4,064.00	7.73	9.45	4,055.96	158.75	29.14	129.07	0.54	0.16	-3.85	

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Survey Report



<b>Company:</b>	Stone Energy Corporation	<b>Local Co-ordinate Reference:</b>	Well Martin 7H - Slot 7H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Site:</b>	Martin Pad	<b>MD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Well:</b>	Martin 7H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	Northeast District

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,158.00	6.88	13.59	4,149.20	170.46	31.50	138.50	1.06	-0.90	4.40
4,252.00	6.14	19.35	4,242.59	180.67	34.49	146.31	1.05	-0.79	6.13
4,346.00	5.34	15.91	4,336.12	189.62	37.36	153.04	0.93	-0.85	-3.66
4,440.00	5.89	11.84	4,429.67	198.55	39.55	160.06	0.72	0.59	-4.33
4,534.00	7.35	14.83	4,523.04	209.08	42.07	168.35	1.60	1.55	3.18
4,628.00	8.35	20.10	4,616.16	221.31	45.96	177.56	1.31	1.06	5.61
4,723.00	8.64	19.25	4,710.12	234.52	50.68	187.28	0.33	0.31	-0.89
4,817.00	8.67	15.48	4,803.05	248.01	54.90	197.47	0.60	0.03	-4.01
4,911.00	8.92	11.09	4,895.94	261.99	58.19	208.52	0.76	0.27	-4.67
5,005.00	8.41	15.08	4,988.87	275.78	61.38	219.43	0.84	-0.54	4.24
5,099.00	8.58	15.46	5,081.84	289.18	65.04	229.79	0.19	0.18	0.40
5,193.00	7.90	17.22	5,174.87	302.11	68.82	239.68	0.77	-0.72	1.87
5,287.00	6.97	16.51	5,268.08	313.75	72.36	248.52	0.99	-0.99	-0.76
5,382.00	6.67	13.18	5,362.40	324.64	75.25	256.98	0.52	-0.32	-3.51
5,477.00	6.62	8.54	5,456.77	335.43	77.32	265.71	0.57	-0.05	-4.88
5,571.00	6.73	10.85	5,550.13	346.20	79.17	274.52	0.31	0.12	2.46
5,634.00	7.03	12.99	5,612.68	353.58	80.73	280.43	0.63	0.48	3.40
5,669.00	7.41	11.71	5,647.40	357.88	81.67	283.86	1.18	1.09	-3.66
5,733.00	6.77	12.58	5,710.91	365.60	83.33	290.03	1.01	-1.00	1.36
5,765.00	7.62	19.81	5,742.66	369.44	84.46	292.96	3.88	2.66	22.59
5,797.00	10.02	24.74	5,774.28	373.96	86.34	296.17	7.86	7.50	15.41
5,828.00	12.36	26.81	5,804.69	379.37	88.97	299.84	7.66	7.55	6.68
5,860.00	14.71	27.17	5,835.79	386.05	92.37	304.30	7.35	7.34	1.13
5,892.00	16.50	27.08	5,866.61	393.71	96.29	309.40	5.59	5.59	-0.28
5,924.00	18.03	26.77	5,897.17	402.18	100.59	315.06	4.79	4.78	-0.97
5,956.00	20.19	24.56	5,927.41	411.62	105.12	321.50	7.12	6.75	-6.91
5,988.00	22.58	22.88	5,957.20	422.31	109.80	328.97	7.71	7.47	-5.25
6,019.00	24.60	19.77	5,985.61	433.86	114.30	337.31	7.65	6.52	-10.03
6,051.00	26.28	18.56	6,014.51	446.85	118.81	346.92	5.50	5.25	-3.78
6,083.00	27.64	16.47	6,043.03	460.68	123.17	357.35	5.18	4.25	-6.53
6,115.00	29.35	15.64	6,071.15	475.35	127.38	368.60	5.49	5.34	-2.59
6,145.00	31.13	13.32	6,097.07	489.98	131.15	380.01	7.10	5.93	-7.73
6,175.00	33.46	11.48	6,122.43	505.63	134.59	392.49	8.43	7.77	-6.13
6,205.00	36.40	11.06	6,147.02	522.48	137.94	406.07	9.83	9.80	-1.40
6,236.00	37.90	11.34	6,171.73	540.84	141.58	420.88	4.87	4.84	0.90
6,266.00	38.84	10.16	6,195.25	559.14	145.05	435.71	3.97	3.13	-3.93
6,296.00	39.27	9.76	6,218.55	577.75	148.32	450.91	1.66	1.43	-1.33
6,326.00	38.63	9.27	6,241.88	596.35	151.44	466.17	2.37	-2.13	-1.63
6,357.00	39.16	8.41	6,266.00	615.59	154.43	482.04	2.44	1.71	-2.77
6,387.00	40.98	6.37	6,288.96	634.74	156.90	498.08	7.48	6.07	-6.80
6,417.00	42.14	5.36	6,311.41	654.53	158.94	514.89	4.47	3.87	-3.37
6,447.00	43.73	4.84	6,333.37	674.89	160.75	532.30	5.43	5.30	-1.73
6,478.00	46.56	3.70	6,355.23	696.80	162.38	551.18	9.13	9.13	-3.68

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Survey Report



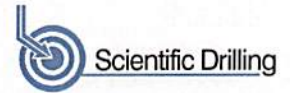
<b>Company:</b>	Stone Energy Corporation	<b>Local Co-ordinate Reference:</b>	Well Martin 7H - Slot 7H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Site:</b>	Martin Pad	<b>MD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Well:</b>	Martin 7H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	Northeast District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,508.00	49.32	2.72	6,375.33	719.03	163.62	570.52	9.51	9.20	-3.27	
6,538.00	51.59	0.96	6,394.43	742.15	164.36	590.89	8.82	7.57	-5.87	
6,568.00	53.55	359.76	6,412.66	765.97	164.51	612.14	7.26	6.53	-4.00	
6,599.00	55.31	358.06	6,430.70	791.18	164.02	634.92	7.22	5.68	-5.48	
6,629.00	56.68	355.58	6,447.48	816.01	162.64	657.75	8.23	4.57	-8.27	
6,659.00	57.74	353.64	6,463.72	841.12	160.27	681.28	6.48	3.53	-6.47	
6,689.00	59.06	350.08	6,479.45	866.40	156.65	705.53	11.02	4.40	-11.87	
6,719.00	60.41	348.16	6,494.57	891.85	151.75	730.48	7.13	4.50	-6.40	
6,749.00	61.93	345.70	6,509.04	917.44	145.81	756.04	8.79	5.07	-8.20	
6,779.00	64.24	343.90	6,522.62	943.25	138.79	782.27	9.38	7.70	-6.00	
6,810.00	66.21	342.29	6,535.61	970.18	130.60	810.02	7.91	6.35	-5.19	
6,840.00	68.38	341.13	6,547.19	996.45	121.92	837.41	8.06	7.23	-3.87	
6,871.00	70.03	340.20	6,558.19	1,023.80	112.32	866.17	6.02	5.32	-3.00	
6,901.00	71.80	339.30	6,568.00	1,050.39	102.51	894.35	6.55	5.90	-3.00	
6,931.00	74.31	338.48	6,576.74	1,077.16	92.17	922.92	8.77	8.37	-2.73	
6,961.00	77.03	337.88	6,584.17	1,104.14	81.37	951.88	9.27	9.07	-2.00	
6,991.00	79.59	337.26	6,590.25	1,131.30	70.16	981.19	8.77	8.53	-2.07	
7,021.00	79.96	335.83	6,595.57	1,158.38	58.41	1,010.67	4.85	1.23	-4.77	
7,052.00	80.64	334.30	6,600.79	1,186.09	45.52	1,041.21	5.34	2.19	-4.94	
7,082.00	82.16	332.48	6,605.28	1,212.61	32.24	1,070.87	7.85	5.07	-6.07	
7,112.00	85.34	331.87	6,608.55	1,238.97	18.32	1,100.68	10.79	10.60	-2.03	
7,143.00	88.06	331.73	6,610.33	1,266.25	3.70	1,131.61	8.79	8.77	-0.45	
7,175.00	89.53	330.09	6,611.00	1,294.20	-11.86	1,163.57	6.88	4.59	-5.13	
7,206.00	90.13	330.35	6,611.10	1,321.11	-27.25	1,194.52	2.11	1.94	0.84	
7,270.00	91.11	328.61	6,610.40	1,376.24	-59.75	1,258.35	3.12	1.53	-2.72	
7,334.00	91.85	327.60	6,608.75	1,430.55	-93.56	1,322.05	1.96	1.16	-1.58	
7,397.00	92.48	325.79	6,606.37	1,483.17	-128.12	1,384.56	3.04	1.00	-2.87	
7,461.00	92.45	325.45	6,603.62	1,535.94	-164.23	1,447.89	0.53	-0.05	-0.53	
7,525.00	91.34	325.70	6,601.50	1,588.70	-200.39	1,511.24	1.78	-1.73	0.39	
7,588.00	91.17	326.20	6,600.12	1,640.89	-235.65	1,573.68	0.84	-0.27	0.79	
7,652.00	91.81	325.34	6,598.46	1,693.78	-271.64	1,637.08	1.67	1.00	-1.34	
7,716.00	91.54	324.53	6,596.59	1,746.14	-308.40	1,700.34	1.33	-0.42	-1.27	
7,779.00	91.24	324.95	6,595.06	1,797.57	-344.75	1,762.58	0.82	-0.48	0.67	
7,843.00	90.37	326.39	6,594.16	1,850.41	-380.84	1,825.98	2.63	-1.36	2.25	
7,906.00	90.57	326.51	6,593.64	1,902.92	-415.66	1,888.50	0.37	0.32	0.19	
7,970.00	91.17	326.45	6,592.67	1,956.27	-451.00	1,952.01	0.94	0.94	-0.09	
8,034.00	90.84	326.27	6,591.55	2,009.54	-486.45	2,015.50	0.59	-0.52	-0.28	
8,097.00	90.10	327.59	6,591.03	2,062.33	-520.82	2,078.08	2.40	-1.17	2.10	
8,159.00	91.04	329.34	6,590.41	2,115.17	-553.24	2,139.84	3.20	1.52	2.82	
8,222.00	91.64	329.18	6,588.94	2,169.30	-585.44	2,202.65	0.99	0.95	-0.25	
8,286.00	91.91	328.57	6,586.96	2,224.06	-618.50	2,266.41	1.04	0.42	-0.95	
8,350.00	91.18	328.28	6,585.23	2,278.57	-652.00	2,330.13	1.23	-1.14	-0.45	
8,413.00	90.74	327.94	6,584.18	2,332.05	-685.28	2,392.84			-0.54	

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Survey Report



<b>Company:</b>	Stone Energy Corporation	<b>Local Co-ordinate Reference:</b>	Well Martin 7H - Slot 7H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Site:</b>	Martin Pad	<b>MD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Well:</b>	Martin 7H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	Northeast District

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,474.00	91.41	327.71	6,583.03	2,383.67	-717.76	2,453.53	1.16	1.10	-0.38
8,538.00	92.24	327.25	6,580.99	2,437.61	-752.14	2,517.15	1.48	1.30	-0.72
8,601.00	91.81	327.35	6,578.77	2,490.59	-786.16	2,579.74	0.70	-0.68	0.16
8,665.00	90.40	328.27	6,577.53	2,544.74	-820.25	2,643.41	2.63	-2.20	1.44
8,729.00	91.21	328.32	6,576.64	2,599.19	-853.88	2,707.14	1.27	1.27	0.08
8,792.00	91.55	328.30	6,575.12	2,652.78	-886.96	2,769.86	0.54	0.54	-0.03
8,855.00	91.38	327.81	6,573.51	2,706.22	-920.29	2,832.55	0.82	-0.27	-0.78
8,919.00	91.47	328.31	6,571.92	2,760.51	-954.13	2,896.24	0.79	0.14	0.78
8,983.00	89.63	328.29	6,571.30	2,814.96	-987.76	2,959.98	2.88	-2.88	-0.03
9,046.00	90.27	328.35	6,571.36	2,868.57	-1,020.85	3,022.72	1.02	1.02	0.10
9,110.00	90.84	327.42	6,570.74	2,922.78	-1,054.87	3,086.41	1.70	0.89	-1.45
9,174.00	91.34	326.94	6,569.52	2,976.55	-1,089.55	3,150.00	1.08	0.78	-0.75
9,238.00	92.05	326.68	6,567.63	3,030.08	-1,124.57	3,213.54	1.18	1.11	-0.41
9,301.00	92.75	326.39	6,564.99	3,082.59	-1,159.28	3,276.02	1.20	1.11	-0.46
9,365.00	93.22	326.69	6,561.65	3,135.91	-1,194.52	3,339.46	0.87	0.73	0.47
9,428.00	91.51	326.26	6,559.06	3,188.39	-1,229.28	3,401.93	2.80	-2.71	-0.68
9,492.00	91.98	326.27	6,557.11	3,241.59	-1,264.81	3,465.39	0.73	0.73	0.02
9,556.00	91.91	326.73	6,554.93	3,294.92	-1,300.11	3,528.88	0.73	-0.11	0.72
9,619.00	90.64	326.81	6,553.53	3,347.61	-1,334.62	3,591.42	2.02	-2.02	0.13
9,683.00	90.00	327.21	6,553.17	3,401.29	-1,369.47	3,655.01	1.18	-1.00	0.63
9,747.00	89.03	327.49	6,553.72	3,455.17	-1,404.00	3,718.64	1.58	-1.52	0.44
9,810.00	89.53	327.78	6,554.51	3,508.38	-1,437.72	3,781.30	0.92	0.79	0.46
9,874.00	90.13	327.03	6,554.70	3,562.30	-1,472.20	3,844.94	1.50	0.94	-1.17
9,937.00	92.18	329.35	6,553.43	3,615.82	-1,505.39	3,907.65	4.91	3.25	3.68
10,001.00	92.78	328.51	6,550.66	3,670.59	-1,538.39	3,971.38	1.61	0.94	-1.31
10,064.00	91.68	326.07	6,548.21	3,723.55	-1,572.41	4,033.96	4.25	-1.75	-3.87
10,128.00	90.00	324.42	6,547.27	3,776.12	-1,608.88	4,097.29	3.68	-2.63	-2.58
10,191.00	91.04	324.07	6,546.70	3,827.25	-1,645.69	4,159.46	1.74	1.65	-0.56
10,255.00	92.28	323.28	6,544.84	3,878.79	-1,683.59	4,222.49	2.30	1.94	-1.23
10,317.00	92.31	322.90	6,542.36	3,928.32	-1,720.79	4,283.42	0.61	0.05	-0.61
10,380.00	91.04	324.14	6,540.52	3,978.95	-1,758.23	4,345.44	2.82	-2.02	1.97
10,444.00	90.87	325.76	6,539.45	4,031.34	-1,794.98	4,408.72	2.54	-0.27	2.53
10,507.00	91.57	326.52	6,538.11	4,083.64	-1,830.07	4,471.18	1.64	1.11	1.21
10,570.00	91.88	327.35	6,536.21	4,136.41	-1,864.43	4,533.74	1.41	0.49	1.32
10,633.00	92.08	328.24	6,534.04	4,189.69	-1,897.99	4,596.39	1.45	0.32	1.41
10,697.00	91.68	328.75	6,531.94	4,244.22	-1,931.41	4,660.11	1.01	-0.63	0.80
10,760.00	91.04	328.41	6,530.44	4,297.97	-1,964.24	4,722.86	1.15	-1.02	-0.54
10,823.00	92.02	329.03	6,528.76	4,351.79	-1,996.94	4,785.61	1.84	1.56	0.98
10,887.00	91.28	328.24	6,526.92	4,406.42	-2,030.24	4,849.36	1.69	-1.16	-1.23
10,951.00	91.21	326.77	6,525.53	4,460.38	-2,064.61	4,912.99	2.30	-0.11	-2.30
11,014.00	92.05	326.29	6,523.73	4,512.91	-2,099.34	4,975.50	1.54	1.33	-0.76
11,078.00	92.52	326.35	6,521.18	4,566.13	-2,134.81	5,038.94	0.74	0.73	0.09
11,141.00	91.11	326.53	6,519.19	4,618.60	-2,169.62	5,101.43	2.26	-2.24	0.29
11,204.00	90.47	326.48	6,518.32	4,671.13	-2,204.38	5,163.96	1.02	0.92	-0.08

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**Scientific Drilling International**  
Survey Report



<b>Company:</b>	Stone Energy Corporation	<b>Local Co-ordinate Reference:</b>	Well Martin 7H - Slot 7H
<b>Project:</b>	Heather Prospect (NAD 27)	<b>TVD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Site:</b>	Martin Pad	<b>MD Reference:</b>	GL 906 & KB 18 @ 924.00ft (Saxon 141)
<b>Well:</b>	Martin 7H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OH	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	As Drilled	<b>Database:</b>	Northeast District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,267.00	91.10	325.96	6,517.46	4,723.49	-2,239.40	5,226.44	1.30	1.00	-0.83	
11,331.00	91.27	326.57	6,516.13	4,776.70	-2,274.94	5,289.92	0.99	0.27	0.95	
11,395.00	90.37	328.08	6,515.22	4,830.57	-2,309.49	5,353.54	2.75	-1.41	2.36	
11,459.00	91.34	327.77	6,514.26	4,884.79	-2,343.47	5,417.22	1.59	1.52	-0.48	
11,522.00	91.71	328.79	6,512.59	4,938.36	-2,376.58	5,479.94	1.72	0.59	1.62	
11,586.00	90.30	328.86	6,511.46	4,993.11	-2,409.70	5,543.71	2.21	-2.20	0.11	
11,650.00	91.34	328.78	6,510.55	5,047.86	-2,442.83	5,607.49	1.63	1.63	-0.13	
11,713.00	92.28	329.41	6,508.56	5,101.88	-2,475.17	5,670.27	1.80	1.49	1.00	
11,777.00	92.11	329.16	6,506.11	5,156.87	-2,507.84	5,734.05	0.47	-0.27	-0.39	
11,841.00	89.87	329.10	6,505.00	5,211.79	-2,540.67	5,797.85	3.50	-3.50	-0.09	
11,903.00	90.80	329.28	6,504.64	5,265.04	-2,572.43	5,859.68	1.53	1.50	0.29	
11,966.00	90.97	329.33	6,503.66	5,319.20	-2,604.58	5,922.50	0.28	0.27	0.08	
12,030.00	90.30	327.98	6,502.95	5,373.86	-2,637.87	5,986.26	2.35	-1.05	-2.11	
12,092.00	90.74	327.49	6,502.39	5,426.28	-2,670.97	6,047.95	1.06	0.71	-0.79	
12,155.00	91.38	326.85	6,501.23	5,479.21	-2,705.12	6,110.55	1.44	1.02	-1.02	
<b>Last MWD Survey @ 12155 MD</b>										
12,213.00	91.38	326.85	6,499.83	5,527.76	-2,736.82	6,168.14	0.00	0.00	0.00	
<b>Projection to Bit @ 12213 MD</b>										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
18.00	18.00	0.00	0.00	Ground Level	
108.00	108.00	0.09	0.17	First SDI Gyro Survey @ 108 MD	
2,231.00	2,230.91	7.45	10.79	Last SDI Gyro Survey @ 2231 MD	
2,275.00	2,274.91	8.19	10.90	First SDI MWD Survey @ 2275 MD	
12,155.00	6,501.23	5,479.21	-2,705.12	Last MWD Survey @ 12155 MD	
12,213.00	6,499.83	5,527.76	-2,736.82	Projection to Bit @ 12213 MD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

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**JAN 25 2019**  
WV Department of  
Environmental Protection

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: PFS27H7 (519180)

API: 47 - 103 - 02925

Submission:  Initial  Amended

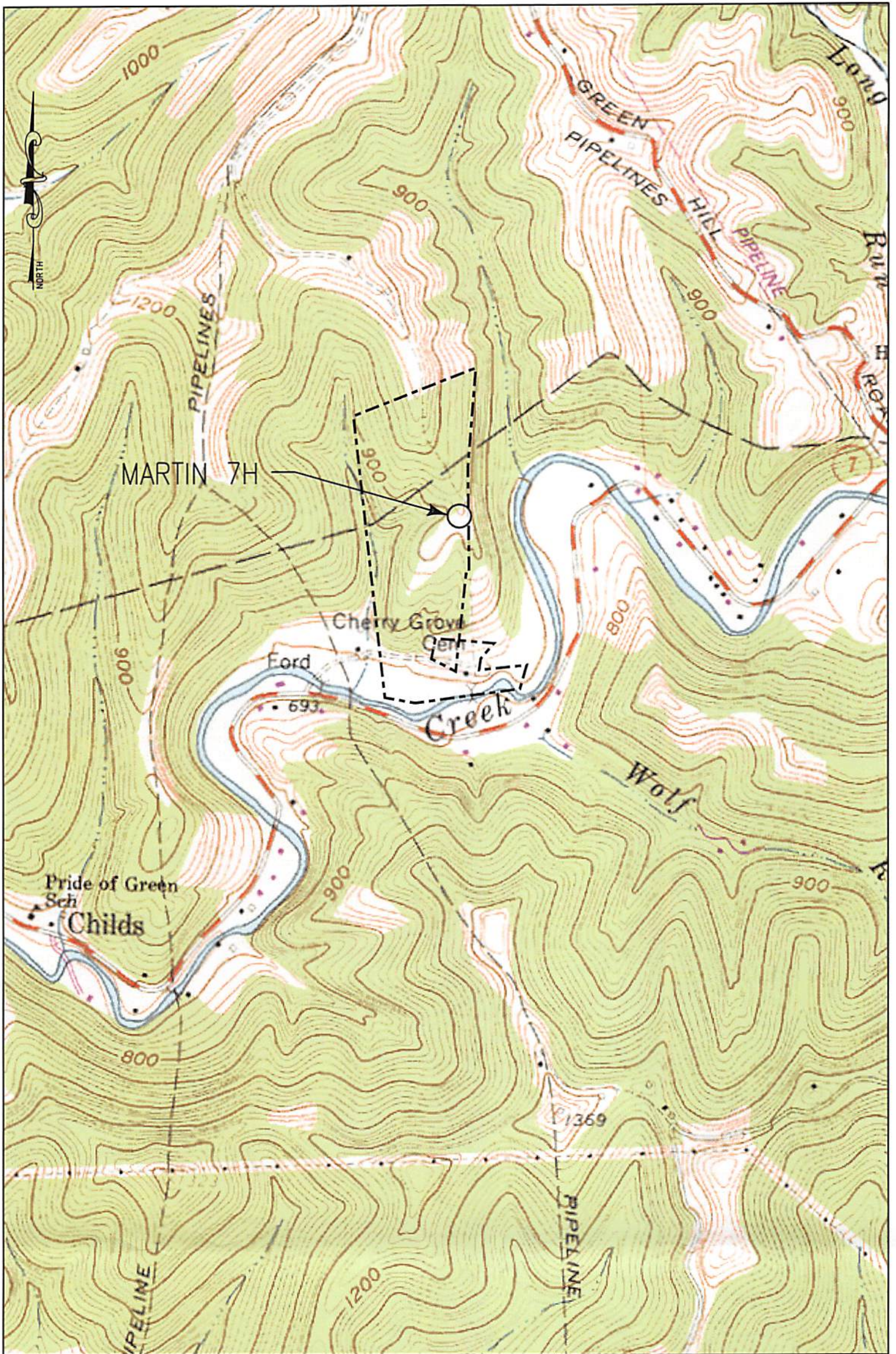
Notes: Please Note That Stone Energy Corporation Performed The Drilling Operations On This Well And Submitted An Initial Report (Copy Attached). EQT Subsequently Performed The Stimulation Operations, Information Regarding Which Is Reported In The Following Amended WR-35 & Referenced Attachments.  
Please Also Note That A Misfire Occurred At WL Stage 11, Followed By Re-Perforation By Tractor. Lastly, Please Be Aware Tha An Injection Test Was Performed Following Stimulation Stage 15.

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Office of Oil and Gas

JAN 25 2019

WV Department of  
Environmental Protection





KEYSTONE CONSULTANTS, INC.  
 32 EAST MAIN STREET,  
 CARNEGIE, PA 15106  
 412-278-2100

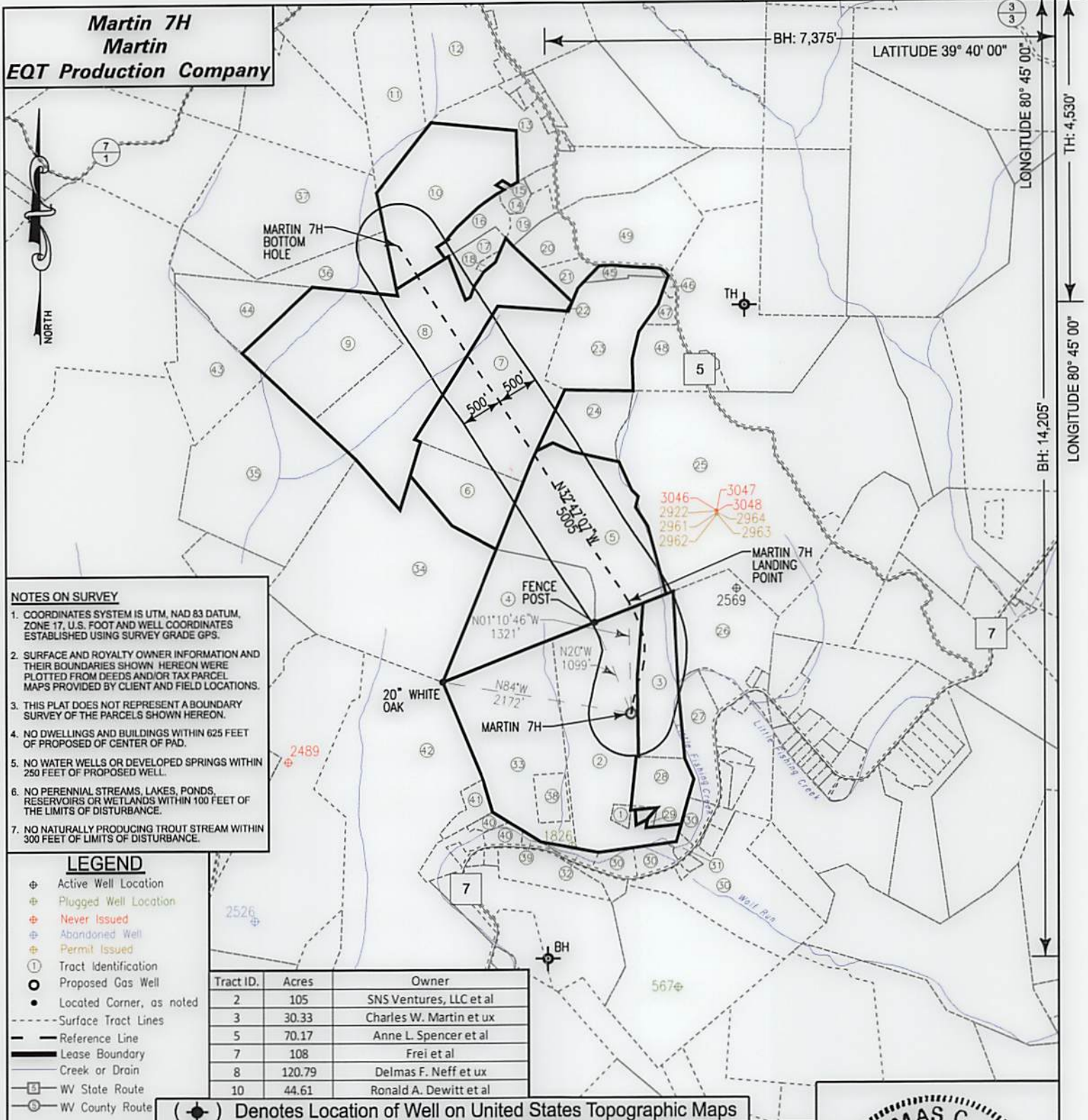
1" = 1000'  
 PORTERS FALLS 7.5'

EQT PRODUCTION COMPANY  
 115 PROFESSIONAL PLACE  
 PO BOX 280  
 BRIDGEPORT, WV 26330

LATITUDE 39° 37' 30"

TH: 4,575'

**Martin 7H  
Martin  
EQT Production Company**



**NOTES ON SURVEY**

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

**LEGEND**

- ⊕ Active Well Location
- ⊕ Plugged Well Location
- ⊕ Never Issued
- ⊕ Abandoned Well
- ⊕ Permit Issued
- ① Tract Identification
- Proposed Gas Well
- Located Corner, as noted
- - - Surface Tract Lines
- - - Reference Line
- - - Lease Boundary
- - - Creek or Drain
- ⊠ WV State Route
- ⊙ WV County Route

Tract ID.	Acres	Owner
2	105	SNS Ventures, LLC et al
3	30.33	Charles W. Martin et ux
5	70.17	Anne L. Spencer et al
7	108	Frei et al
8	120.79	Delmas F. Neff et ux
10	44.61	Ronald A. Dewitt et al

( ⊕ ) Denotes Location of Well on United States Topographic Maps



*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 Department of Environmental Protection.*

*Thomas C. Smalls*

L. L. S. 687



FILE NO: W2175 (BK 59-37)  
 DRAWING NO: \_\_\_\_\_  
 SCALE: 1" = 1600'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)

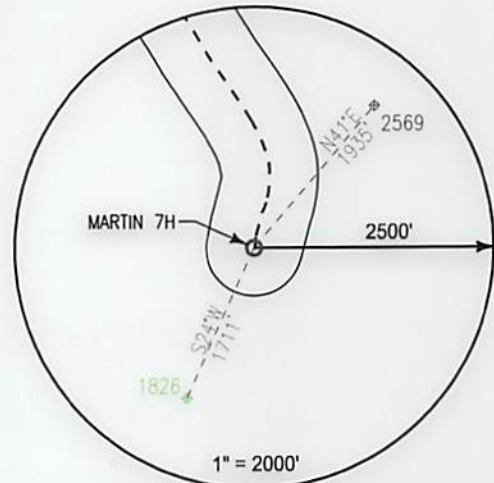
STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OIL AND GAS DIVISION

DATE: JANUARY 18 20 18  
 OPERATORS WELL NO: MARTIN 7H  
 API WELL NO  
 47 - 103 - 02925  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION ELEVATION: 909' WATERSHED: LITTLE FISHING CREEK QUADRANGLE: PORTERS FALLS 7.5'  
 DISTRICT: Green COUNTY: Wetzel  
 SURFACE OWNER: Charles & Gwendolyn Martin ACREAGE: 54 ±  
 ROYALTY OWNER: SNS Ventures, LLC et al LEASE NO: 873397 ACREAGE: 105 ±  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,590'  
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson  
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280  
 Bridgeport, WV 26330 Bridgeport, WV 26330

**Martin 7H  
Martin  
EQT Production Company**

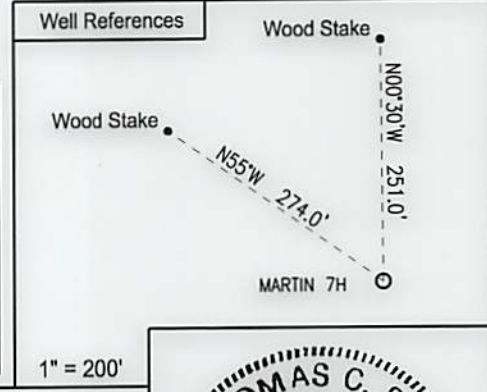
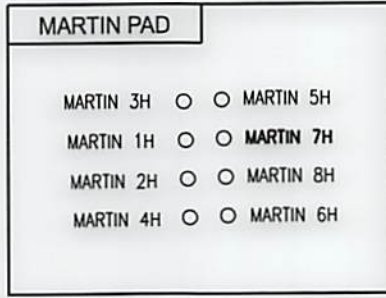
Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	3	5	Wetzel	Green	Charles W. Martin	1.13
2	3	2.1	Wetzel	Green	Gwendolyn L. Stout	56.49
3	3	3	Wetzel	Green	Charles W. Martin	20.2
4	14	12	Wetzel	Magnolia	W D Lemon	35.31
5	14	11	Wetzel	Magnolia	W D Lemon	53.19
6	14	10	Wetzel	Magnolia	W D Lemon	20.62
7	14	3	Wetzel	Magnolia	W D Lemon	50.5
8	9	42	Wetzel	Magnolia	Delmas F. Neff	71.17
9	9	44	Wetzel	Magnolia	Delmas F. Neff	38.15
10	9	36.2	Wetzel	Magnolia	Ronald A. Dewitt	43.36
11	9	19	Wetzel	Magnolia	Victor E. Wade	32.33
12	9	13	Wetzel	Magnolia	Victor E. Wade	77.59
13	9	29.3	Wetzel	Magnolia	Linda L. & Delmas F. Neff	18.72
14	9	29	Wetzel	Magnolia	Tony Lee Huggins	2.35
15	9	36.1	Wetzel	Magnolia	Linda L. & Delmas F. Neff	0.22
16	9	36	Wetzel	Magnolia	Linda L. & Delmas F. Neff	5.99
17	9	42.3	Wetzel	Magnolia	Linda L. & Delmas F. Neff	5.56
18	9	42.1	Wetzel	Magnolia	Linda L. & Delmas F. Neff	0.67
19	9	29.3	Wetzel	Magnolia	Linda L. & Delmas F. Neff	18.72
20	9	43.1	Wetzel	Magnolia	Keith R. Pyles	7.13
21	9	43.0	Wetzel	Magnolia	Doretta R. Rush	4.04
22	9	42.4	Wetzel	Magnolia	W D Lemon	0.02
23	9	45.1	Wetzel	Magnolia	W D Lemon	29.74
24	14	4	Wetzel	Magnolia	W D Lemon	14.86
25	14	5.2	Wetzel	Magnolia	Tracy Living Trust	100.19
26	3	8.10	Wetzel	Green	Frost Rentals LLC	28.72
27	3	8.1	Wetzel	Green	Laura C. & Robert N. Debolt	12.09
28	3	7	Wetzel	Green	Charles W. Martin	10.65
28	9	43	Wetzel	Magnolia	Doretta R. Rush	4.04
29	3	6	Wetzel	Green	Charles W. Martin	0.32
30	3	26	Wetzel	Green	Kernel Greathouse Estate	42.1
31	3	25	Wetzel	Green	Ethel Greathouse Estate	1.03
32	3	24	Wetzel	Green	Kernel Greathouse Estate	1.69
33	3	2	Wetzel	Green	Gwendolyn L. Stout	45.07
34	14	9	Wetzel	Magnolia	W D Lemon	91.67
35	14	2	Wetzel	Magnolia	Robert B. Litman	63.22
36	9	41	Wetzel	Magnolia	Elizabeth W. Hawkins	21.64
37	9	35	Wetzel	Magnolia	Charlie H. Powell ET AL	59.9
38	3	2.2	Wetzel	Green	Gwendolyn Lee & Charles Martin	4.92
39	3	30.3	Wetzel	Green	Gwendolyn Stout	0.73
40	3	30.1	Wetzel	Green	Dwight Thomas	2.13
41	2	33.2	Wetzel	Green	Charles W. Martin	4.02
42	2	33	Wetzel	Green	Douglas L. Steele	146.31
43	9	39	Wetzel	Magnolia	Robert B. Litman	24.11
44	9	4	Wetzel	Magnolia	Elizabeth W. Hawkins	17.36
45	9	45	Wetzel	Magnolia	Edward W. Frei Est	2.70
46	9	46.2	Wetzel	Magnolia	Donna O. & Dillon R. Smittle	0.52
47	9	46.3	Wetzel	Magnolia	Donna O. & Dillon R. Smittle	2.03
48	9	46.1	Wetzel	Magnolia	Pamela D. Oliver	12.16
49	9	43.2	Wetzel	Magnolia	Randall Moore	27.71



**Notes:**  
**MARTIN 7H As-Built coordinates are**  
 NAD 27 N: 407,760.003 E: 1,643,294.000  
 NAD 27 Lat: 39.612636 Long: -80.766330  
 NAD 83 UTM N: 4,384,799.997 E: 520,087.638  
**MARTIN 7H As-Built Landing Point coordinates are**  
 NAD 27 N: 409,081.113 E: 1,643,266.750  
 NAD 27 Lat: 39.612622 Long: -80.766330  
 NAD 83 UTM N: 4,385,202.345 E: 520,072.631  
**MARTIN 7H As-Built Bottom Hole coordinates are**  
 NAD 27 N: 413,287.743 E: 1,640,557.180  
 NAD 27 Lat: 39.627705 Long: -80.776160  
 NAD 83 UTM N: 4,386,470.124 E: 519,225.789  
 West Virginia Coordinates system of 1927 (North Zone)  
 based upon Differential GPS Measurements  
 Plat orientation, Corner and well ties are based upon  
 the grid north meridian  
 Well location references are based upon the grid north  
 meridian.  
 UTM coordinates are NAD83, Zone 17, Meters.

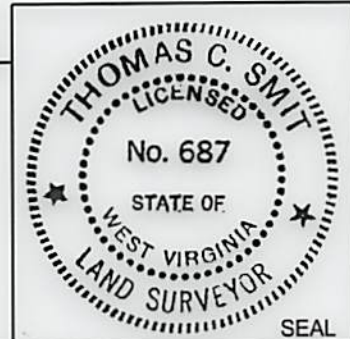
**LEGEND**

- ⊕ Active Well Location
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- ~ Creek or Drain
- ⊙ WV County Route
- ⊠ WV State Route

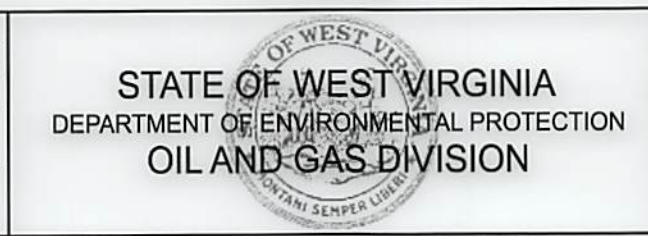


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

*Thomas C. Smit*  
 L. L. S. 687



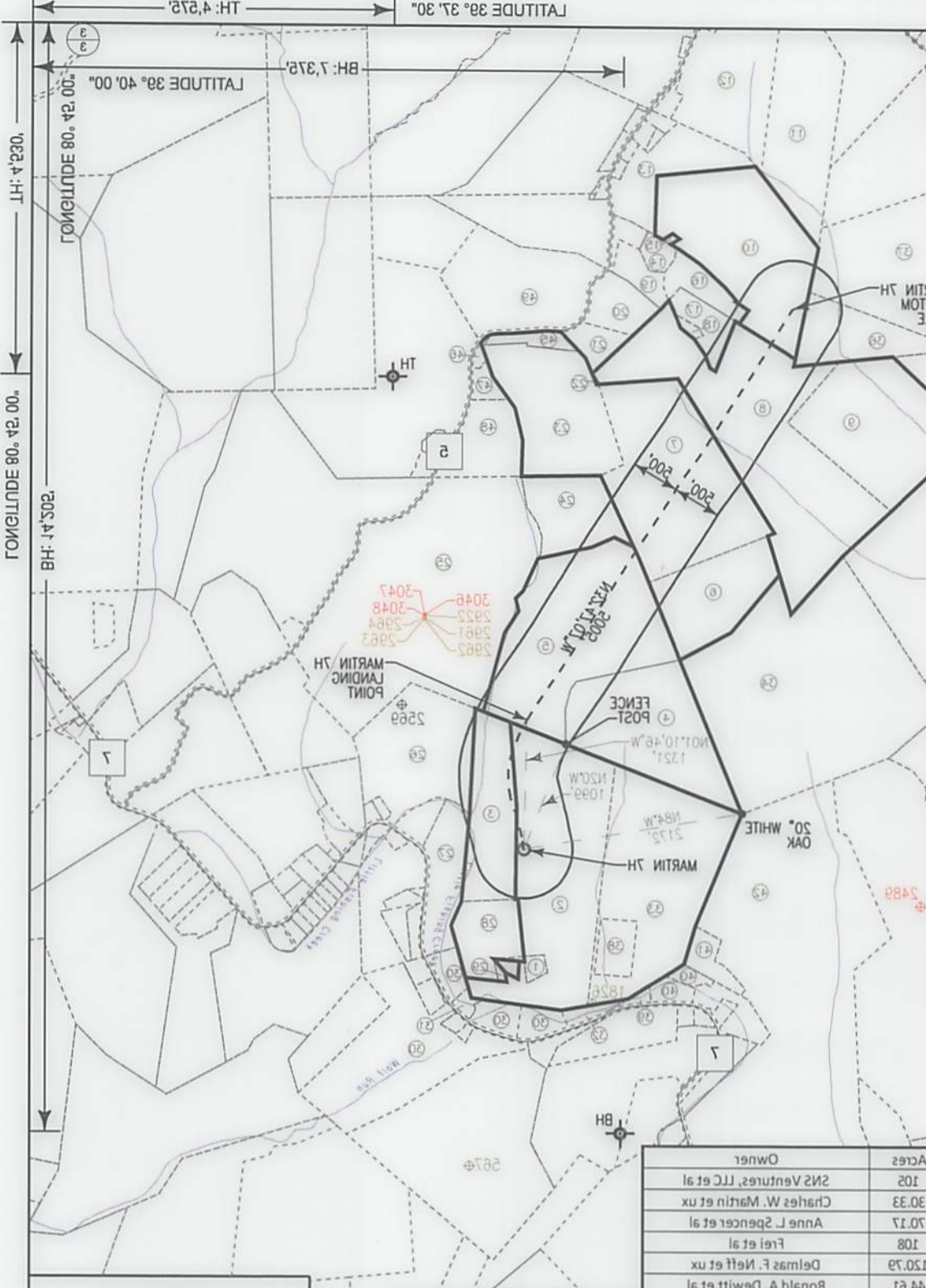
FILE NO: W2174 (BK 59-37)  
 DRAWING NO: \_\_\_\_\_  
 SCALE: 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)



DATE: JANUARY 18 20 18  
 OPERATORS WELL NO: MARTIN 7H  
 API WELL NO  
47 - 103 - 02925  
 STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
 LOCATION ELEVATION: 909' WATERSHED: LITTLE FISHING CREEK QUADRANGLE: PORTERS FALLS 7.5'  
 DISTRICT: Green COUNTY: Wetzel  
 SURFACE OWNER: Charles & Gwendolyn Martin ACREAGE: 54 ±  
 ROYALTY OWNER: SNS Ventures, LLC et al LEASE NO: 873397 ACREAGE: 105 ±  
 PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,590'  
 WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson  
 ADDRESS: 115 Professional Place PO Box 280 ADDRESS: 115 Professional Place PO Box 280  
Bridgeport, WV 26330 Bridgeport, WV 26330

**EQT Production Company**  
**Martin**  
**Martin 7H**



**NOTES ON SURVEY**

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM. ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OR CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TIGHT STREAM WITHIN 200 FEET OF LIMITS OF DISTURBANCE.

**LEGEND**

- ⊕ Active Well Location
- ⊕ Plugged Well Location
- ⊕ Never Issued
- ⊕ Abandoned Well
- ⊕ Permit Issued
- ⊕ Tract Identification
- Proposed Gas Well
- Located Corner, as noted
- - - - - 2-Inch Tract Lines
- - - - - Reference Line
- - - - - Lease Boundary
- - - - - Creek or Drain
- ⊓ WV State Route
- ⊓ WV County Route



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 Department of Environmental Protection.

*Thomas C. Smith*  
 L.L.S. 687



STATE PERMIT 02925  
 COUNTY 103  
 API WELL NO  
 OPERATORS WELL NO: MARTIN 7H  
 DATE: JANUARY 18 20 18

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**OIL AND GAS DIVISION**

PROVEN SOURCE OF ELEVATION: 2G-GPS (OPUS)  
 1:2500  
 MINIMUM DEGREE OF ACCURACY:  
 SCALE: 1"=1600'  
 DRAWING NO:  
 FILE NO: W2175 (BK 59-37)

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL

(IF GAS PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION ELEVATION: 909' WATERSHED: LITTLE FISHING CREEK QUADRANGLE: PORTERS FALLS T.S.

DISTRICT: Green COUNTY: Wetzel

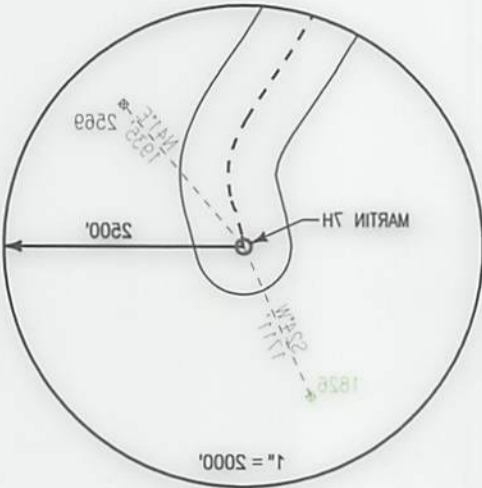
SURFACE OWNER: Charles & Gwendolyn Martin  
 ROYALTY OWNER: SNS Ventures, LLC et al  
 LEASE NO: 873397 ACREAGE: 102 ±

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,590'

WELL OPERATOR: EQT Production Company DESIGNATED AGENT: Jason Ranson  
 ADDRESS: 115 Professional Place PO Box 280 Bldgport, WV 26330  
 ADDRESS: 115 Professional Place PO Box 280 Bldgport, WV 26330

Tract ID.	Tax Map No.	Parcel No.	County	District	Surface Tract Owner
49	9	43.2	Wetzel	Magnolia	Randall Moore
48	9	44.1	Wetzel	Magnolia	Pamela D. Oliver
47	9	46.3	Wetzel	Magnolia	Donna O. & Dillon R. Mittle
46	9	44.2	Wetzel	Magnolia	Donna O. & Dillon R. Mittle
45	9	45	Wetzel	Magnolia	Edward W. Fretz
44	9	4	Wetzel	Magnolia	Elizabeth W. Hawkins
43	9	39	Wetzel	Magnolia	Robert B. Litzman
42	2	33	Wetzel	Green	Douglas J. Steele
41	2	33.2	Wetzel	Green	Charles W. Martin
40	3	30.1	Wetzel	Green	Dwight Thomas
39	3	30.3	Wetzel	Green	Gwendolyn Stout
38	3	2.2	Wetzel	Green	Gwendolyn Lee & Charles Martin
37	9	35	Wetzel	Magnolia	Charles H. Powell ET AL
36	9	41	Wetzel	Magnolia	Elizabeth W. Hawkins
35	14	2	Wetzel	Magnolia	Robert B. Litzman
34	14	9	Wetzel	Magnolia	W D Lemon
33	3	2	Wetzel	Green	Gwendolyn L. Stout
32	3	24	Wetzel	Green	Kemel Greathouse Estate
31	3	25	Wetzel	Green	Ethel Greathouse Estate
30	3	26	Wetzel	Green	Kemel Greathouse Estate
29	3	6	Wetzel	Green	Charles W. Martin
28	9	43	Wetzel	Magnolia	Doretha R. Rush
27	3	7	Wetzel	Green	Charles W. Martin
26	3	8.1	Wetzel	Green	Jana C. & Robert N. Depolt
25	3	8.10	Wetzel	Green	Frost Rentals LLC
24	14	2.2	Wetzel	Magnolia	Tracy Living Trust
23	9	44.4	Wetzel	Magnolia	W D Lemon
22	9	44.4	Wetzel	Magnolia	W D Lemon
21	9	43.0	Wetzel	Magnolia	Doretha R. Rush
20	9	43.1	Wetzel	Magnolia	Keith R. Pyles
19	9	29.3	Wetzel	Magnolia	Linda L. & Delmas F. Neff
18	9	45.1	Wetzel	Magnolia	Linda L. & Delmas F. Neff
17	9	43.3	Wetzel	Magnolia	Linda L. & Delmas F. Neff
16	9	36	Wetzel	Magnolia	Linda L. & Delmas F. Neff
15	9	36.1	Wetzel	Magnolia	Linda L. & Delmas F. Neff
14	9	29	Wetzel	Magnolia	Tony Lee Higgins
13	9	29.3	Wetzel	Magnolia	Linda L. & Delmas F. Neff
12	9	13	Wetzel	Magnolia	Victor E. Wade
11	9	19	Wetzel	Magnolia	Victor E. Wade
10	9	36.2	Wetzel	Magnolia	Ronald A. Dewitt
9	9	44	Wetzel	Magnolia	Delmas F. Neff
8	9	43	Wetzel	Magnolia	Delmas F. Neff
7	14	3	Wetzel	Magnolia	W D Lemon
6	14	10	Wetzel	Magnolia	W D Lemon
5	14	11	Wetzel	Magnolia	W D Lemon
4	14	12	Wetzel	Magnolia	W D Lemon
3	3	3	Wetzel	Green	Charles W. Martin
2	3	2.1	Wetzel	Green	Gwendolyn L. Stout
1	3	2	Wetzel	Green	Charles W. Martin
1.1	1.1	1.1	Wetzel	Green	Charles W. Martin



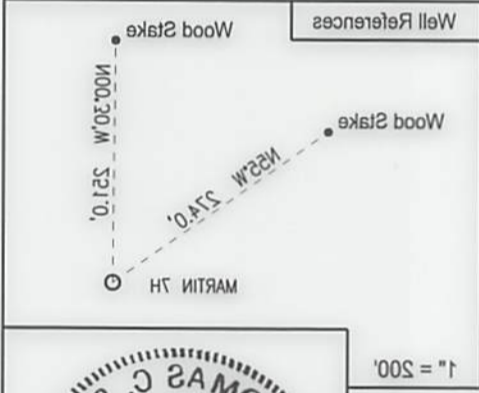
**Notes:**  
 MARTIN 7H As-Built coordinates are  
 NAD 83 UTM N: 4384799.997 E: 5207087.638  
 NAD 83 UTM E: 4384799.997 E: 5207087.638  
 MARTIN 7H As-Built Landing Point coordinates are  
 NAD 83 UTM N: 4384799.997 E: 5207087.638  
 NAD 83 UTM E: 4384799.997 E: 5207087.638  
 MARTIN 7H As-Built Bottom Hole coordinates are  
 NAD 83 UTM N: 4384799.997 E: 5207087.638  
 NAD 83 UTM E: 4384799.997 E: 5207087.638  
 West Virginia Coordinates system of 1927 (North Zone) based upon Differential GPS Measurements  
 Plat orientation, Corner and well ties are based upon the grid north meridian  
 Well location references are based upon the grid north meridian.  
 UTM coordinates are NAD83, Zone 17, Meters.

**LEGEND**

- Active Well Location
- Proposed Gas Well
- Located Corner, as noted
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV County Route
- WV State Route

**MARTIN PAD**

- MARTIN 3H
- MARTIN 7H
- MARTIN 2H
- MARTIN 8H
- MARTIN 4H
- MARTIN 6H



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 Department of Environmental Protection.

*James C. Smith*  
 L.L.S. 687



FILE NO.: W2174 (BK 59-37)  
 DRAWING NO.:  
 SCALE: 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY: 1:2500  
 PROVEN SOURCE OF ELEVATION: 2G-GPS (OPUS)

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OIL AND GAS DIVISION

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
 (IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION ELEVATION: 909' WATERSHED: LITTLE FISHING CREEK QUADRANGLE: PORTERS FALLS T.S.  
 DISTRICT: Green COUNTY: Wetzel

SURFACE OWNER: Charles & Gwendolyn Martin  
 ROYALTY OWNER: SNS Ventures, LLC et al  
 LEASE NO: 873397 ACREAGE: 105 ±

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,500'

WELL OPERATOR: EQT Production Company  
 ADDRESS: 115 Professional Place PO Box 280 Bldgport, WV 26330  
 DESIGNATED AGENT: Jason Ranson

STATE COUNTY PERMIT  
 47 103 - 02925  
 API WELL NO  
 OPERATORS WELL NO: MARTIN 7H  
 DATE: JANUARY 18 20 18