

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

API 47 - 103 - 02959 County Wetzel District Green
Quad Porters Falls Pad Name Martin Field/Pool Name Mary
Farm name Martin, Charles and Gwendo Well Number #6H 519195
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 4,384,787.821 Easting 520,088.451
Landing Point of Curve Northing 4,384,528.178 Easting 520,281.841
Bottom Hole Northing 4,383,209.783 Easting 521,104.236

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 12/11/2013 Date drilling commenced 6/12/2014 Date drilling ceased 11/21/2014
Date completion activities began 10/15/2018 Date completion activities ceased 10/31/2018
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

Freshwater depth(s) ft 100 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 624, 706 and 742 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

DH
2-21-19

API 47- 103 - 02959 Farm name Martin, Charles and Gwendo Well number #6H 519195

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"	85'	New	LS - 94.1 ppf		N - GTS
Surface	17.5"	13.375"	907' KB - 897' GL	New	J55 - 54.5 ppf	113' & 195'	Y - CTS
Coal	17.5"	13.375"	907' KB - 897' GL	New	J55 - 54.5 ppf	113' & 195'	Y - CTS
Intermediate 1	12.25"	9.625"	2,227'	New	J55 - 36 ppf		Y - CTS
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	12,238'	New	P110 - 20 ppf		N - TOC @ 1,098' Calculated
Tubing							
Packer type and depth set		TAM CAP Inflatable Packer on 9.625" Casing String @ 780'					

Comment Details Circulated 12 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 @ 1,098'.

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	HalCem Class "A"	400	15.6	1.21	484	Surface	8.0
Coal	HalCem Class "A"	400	15.6	1.21	484	Surface	8.0
Intermediate 1	Lead-10% Salt 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-VariCem	Lead-279 Tail-2,345	Lead-14.5 Tail-15.2	Lead-1.51 Tail-1.20	Lead-421 Tail-2,814	1,098' Calculated	7.0
Tubing							

Drillers TD (ft) 12,238 MD / 8,885 TVD Loggers TD (ft) N/A
 Deepest formation penetrated Marcellus Shale Plug back to (ft) _____
 Plug back procedure _____

RECEIVED
Office of Oil and Gas

Kick off depth (ft) 5,874 MD / 5,873 TVD

JAN 29 2019

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

WV Department of
Environmental Protection

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.

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 - 02959 Farm name Martin, Charles and Gwendo Well number #6H 519195

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 (bbbls)	Amount of Nitrogen/other (units)
								Please See Attached

Please insert additional pages as applicable.

RECEIVED
Office of Oil and Gas
JAN 29 2019

WV Department of
Environmental Protection
Amount of Nitrogen/other (units)

API 47- 103 - 02959 Farm name Martin, Charles and Gwendo Well number #6H 519195

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS</u>	<u>6,619'</u> TVD	<u>6,981'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1,400 psi Bottom Hole N/A psi DURATION OF TEST 173.5 hrs

OPEN FLOW Gas 11,777 mcfpd Oil N/A bpd NGL 0 bpd Water 832.2 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 ₂ S, ETC)
	<u>0</u>		<u>0</u>		
See Attached Sheet					

RECEIVED
Office of Oil and Gas
JAN 29 2019
WV Department of
Environmental Protection

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 Ft. Worth State TX Zip 76102

Please insert additional pages as applicable.

Completed by Adam Hughey Telephone (724) 579-5475
Signature  Title Director - Completions Date 1/28/2019

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

519195 47-103-02959-00-00 Perforations

Stage Number	Perforation Date	Top Perf Depth (ftKB)	Bottom Perf Depth (ftKB)	Number of Shots	Formation
4	10/24/2018	11,396	11,558	40	MARCELLUS
5	10/25/2018	11,195	11,357	40	MARCELLUS
6	10/25/2018	10,995	11,157	40	MARCELLUS
7	10/26/2018	10,795	10,957	40	MARCELLUS
8	10/26/2018	10,595	10,757	40	MARCELLUS
9	10/26/2018	10,395	10,557	40	MARCELLUS
10	10/27/2018	10,195	10,357	40	MARCELLUS
11	10/27/2018	9,995	10,157	40	MARCELLUS
12	10/27/2018	9,795	9,957	40	MARCELLUS
13	10/28/2018	9,595	9,757	40	MARCELLUS
14	10/28/2018	9,395	9,557	40	MARCELLUS
15	10/28/2018	9,195	9,357	40	MARCELLUS
16	10/28/2018	8,995	9,157	40	MARCELLUS
17	10/29/2018	8,795	8,957	40	MARCELLUS
18	10/29/2018	8,595	8,757	40	MARCELLUS
19	10/29/2018	8,395	8,557	40	MARCELLUS
20	10/29/2018	8,195	8,357	40	MARCELLUS
21	10/30/2018	7,995	8,157	40	MARCELLUS
22	10/30/2018	7,795	7,957	40	MARCELLUS
23	10/30/2018	7,587	7,767	40	MARCELLUS
24	10/30/2018	7,395	7,557	40	MARCELLUS
25	10/31/2018	7,195	7,357	40	MARCELLUS
26	10/31/2018	6,995	7,157	40	MARCELLUS
Kill Plug	10/31/2018	6,875	6,877	0	MARCELLUS

RECEIVED
 Office of Oil and Gas
JAN 29 2019
 WV Department of
 Environmental Protection

519195 47-103-02959-00-00 - 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)
Injection Test 4.01	10/18/2018	1.00	7,662.00	9,637.00	0.00	0.00	1,538.00	0
4	10/25/2018	78.00	8,725.00	9,228.00	3,555.00	450,320.00	8,531.00	0
5	10/25/2018	93.00	8,301.00	9,101.00	4,243.00	450,360.00	7,868.00	0
6	10/25/2018	100.00	8,400.00	8,875.00	4,416.00	450,560.00	7,470.00	0
7	10/26/2018	100.00	8,409.00	8,834.00	4,372.00	450,000.00	7,665.00	0
8	10/26/2018	96.00	8,448.00	9,233.00	4,573.00	450,440.00	9,065.00	0
9	10/27/2018	100.00	8,534.00	9,341.00	4,522.00	450,320.00	8,156.00	0
10	10/27/2018	99.00	8,663.00	9,076.00	3,976.00	450,340.00	7,579.00	0
11	10/27/2018	100.00	8,282.00	8,304.00	4,432.00	450,440.00	7,600.00	0
12	10/27/2018	100.00	8,864.00	9,252.00	4,755.00	450,620.00	7,135.00	0
13	10/28/2018	100.00	8,664.00	9,513.00	4,315.00	450,680.00	6,612.00	0
14	10/28/2018	99.00	8,702.00	9,133.00	4,077.00	450,640.00	7,463.00	0
15	10/28/2018	98.00	8,936.00	9,332.00	4,573.00	450,860.00	7,403.00	0
16	10/29/2018	100.00	8,550.00	9,215.00	4,676.00	450,500.00	6,979.00	0
17	10/29/2018	100.00	8,346.00	8,982.00	4,523.00	450,840.00	7,452.00	0
18	10/29/2018	100.00	8,434.00	8,831.00	4,167.00	450,730.00	7,396.00	0
19	10/29/2018	100.00	8,001.00	8,283.00	4,051.00	450,680.00	7,226.00	0
20	10/30/2018	100.00	8,026.00	8,950.00	3,710.00	457,460.00	7,293.00	0
21	10/30/2018	100.00	7,764.00	9,245.00	4,176.00	450,080.00	7,356.00	0
22	10/30/2018	100.00	8,162.00	8,702.00	4,368.00	450,220.00	7,406.00	0
23	10/30/2018	100.00	8,366.00	9,348.00	4,348.00	360,280.00	6,177.00	0
Injection Test 24.01	10/31/2018	16.00	4,928.00	5,697.00	0.00	0.00	1,574.00	0
24	10/31/2018	100.00	7,994.00	9,045.00	4,204.00	450,740.00	9,014.10	0
25	10/31/2018	100.00	7,587.00	7,850.00	3,884.00	450,020.00	7,191.00	0
26	10/31/2018	100.00	7,374.00	8,162.00	4,208.00	451,020.00	7,222.00	0

RECEIVED
 Office of Oil and Gas
JAN 29 2019
 WV Department of
 Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/15/2018
Job End Date:	10/31/2018
State:	West Virginia
County:	Wetzel
API Number:	47-103-02959-00-00
Operator Name:	EQT Production
Well Name and Number:	519195
Latitude:	39.61252700
Longitude:	-80.76615900
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,619
Total Base Water Volume (gal):	7,407,586
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	85.48135	None
Sand (Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	14.21292	None
MC MX 5-3886	Multi-Chem	Bacteria Treatment	Calcium Nitrate.4H2O	13477-34-4	100.00000	0.03723	None
Hydrochloric Acid (15%)	ProFrac	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.02936	None
LD-2950	Multi-Chem	Friction Reducer	Hydrotreated Light Petroleum Distillate	64742-47-8	30.00000	0.01599	None
			Poly(Oxy-1,2-Ethanediy),.Alpha.-Tridecyl-.Omega.-Hydroxy-. Branched	69011-36-5	5.00000	0.00266	None
			Ethoxylated Alcohol	Proprietary	5.00000	0.00266	None
MC MX 2-2822	Multi-Chem	Scale Inhibitor					

RECEIVED
 Office of Oil and Gas
 JAN 29 2019
 West Virginia Department of Environmental Protection

			Amines, Polyethylenepoly-, Ethoxylated, Phosphonomethylated, Sodiumsalts	70900-16-2	30.00000	0.00502	None
			Methanol	67-56-1	30.00000	0.00502	None
			Sodium Chloride	7647-14-5	5.00000	0.00084	None
MC MX 8-4543	Multi-Chem	Bacteria Treatment					
			Proprietary	Proprietary	100.00000	0.00243	None
ProHib 100	ProFrac	Acid Corrosion Inhibitor					
			Methanol	67-56-1	90.00000	0.00024	None
			Alcohols, C7-9-ISO, C8-Rich	68526-83-0	5.00000	0.00001	None
			Xylene	1330-20-7	5.00000	0.00001	None
			imidazoline	61790-69-0	5.00000	0.00001	None
			isopropanol	67-63-0	5.00000	0.00001	None
			Propargyl Alcohol	107-19-7	5.00000	0.00001	None
			Ethylbenzene	100-41-4	1.00000	0.00000	None
ProFe 105	ProFrac	Iron Control					
			Citric Acid	77-92-9	100.00000	0.00004	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Amines, Polyethylenepoly-, Ethoxylated, Phosphonomethylated, Sodiumsalts	70900-16-2	30.00000	0.00502	
			Ethoxylated Alcohol	Proprietary	5.00000	0.00266	
			Poly(Oxy-1,2-Ethanediy), .Alpha.-Tridecyl-.Omega.-Hydroxy-, Branched	69011-36-5	5.00000	0.00266	
			Sodium Chloride	7647-14-5	5.00000	0.00084	
			Methanol	67-56-1	90.00000	0.00024	
			Propargyl Alcohol	107-19-7	5.00000	0.00001	
			Alcohols, C7-9-ISO, C8-Rich	68526-83-0	5.00000	0.00001	
			Xylene	1330-20-7	5.00000	0.00001	
			imidazoline	61790-69-0	5.00000	0.00001	
			Ethylbenzene	100-41-4	1.00000	0.00000	

* 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%

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)

RECEIVED
Office of Oil and Gas
JAN 29 2019
WV Department of
Environmental Protection

Martin #6H
API 47-103-02959
Stone Energy Corporation

	Horizontal		Bottom (ft TVD)	Bottom (ft MD)	
	Top (ft TVD)	Top (ft MD)			
Sandstone & Shale	Surface	*	632		FW @ 108'
Coal	632	*	636		
Sandstone & Shale	636	*	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	*	5,662	5,664	
Rhinestreet	5,662	5,664 ~	6,149	6,212	
Cashaqua	6,149	6,212 ~	6,428	6,590	
Middlesex	6,428	6,590 ~	6,450	6,621	
West River	6,450	6,621 ~	6,524	6,737	
Geneseo	6,524	6,737 ~	6,532	6,754	
Tully Limestone	6,532	6,754 ~	6,565	6,825	
Hamilton Shale	6,565	6,825 ~	6,619	6,981	
Marcellus	6,619	6,981 ~	6,685	12,238	
TD			6,685	12,238	

* From Pilot Hole Log and Driller's Log

~ From MWD Gamma Log

RECEIVED
Office of Oil and Gas
JAN 29 2019
WV Department of
Environmental Protection



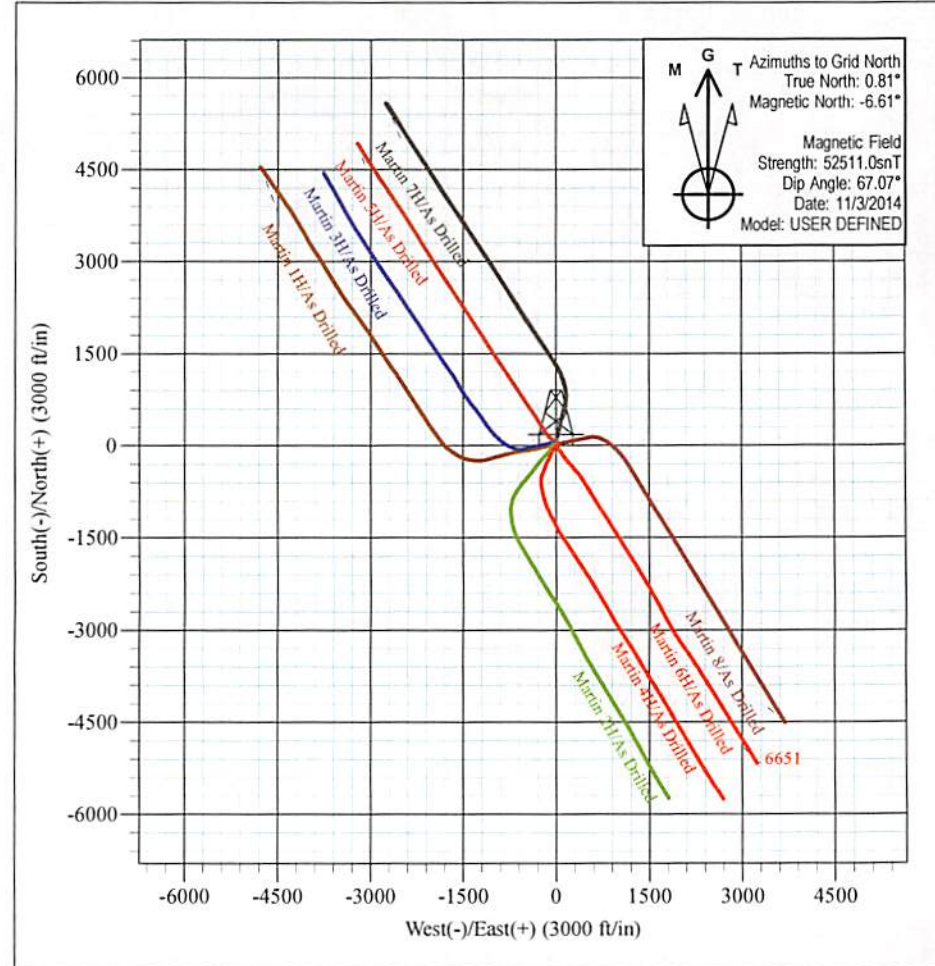
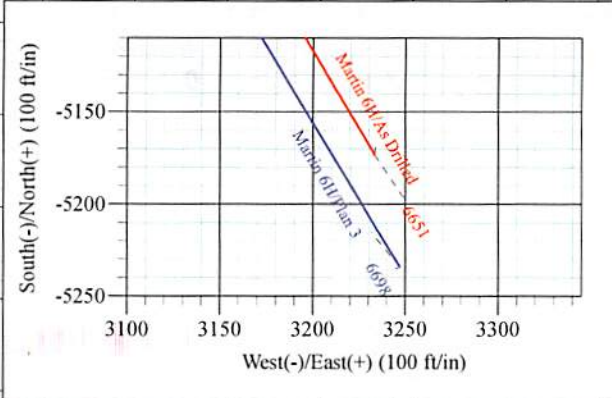
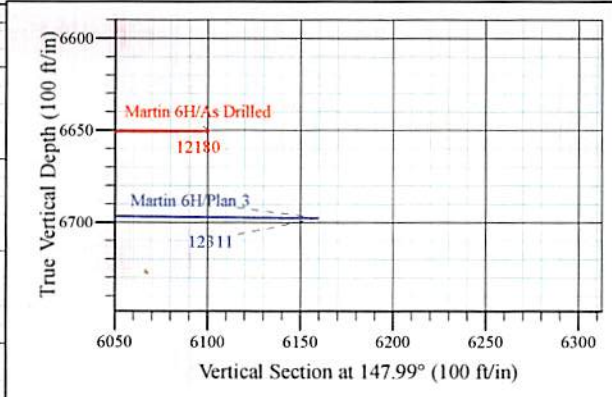
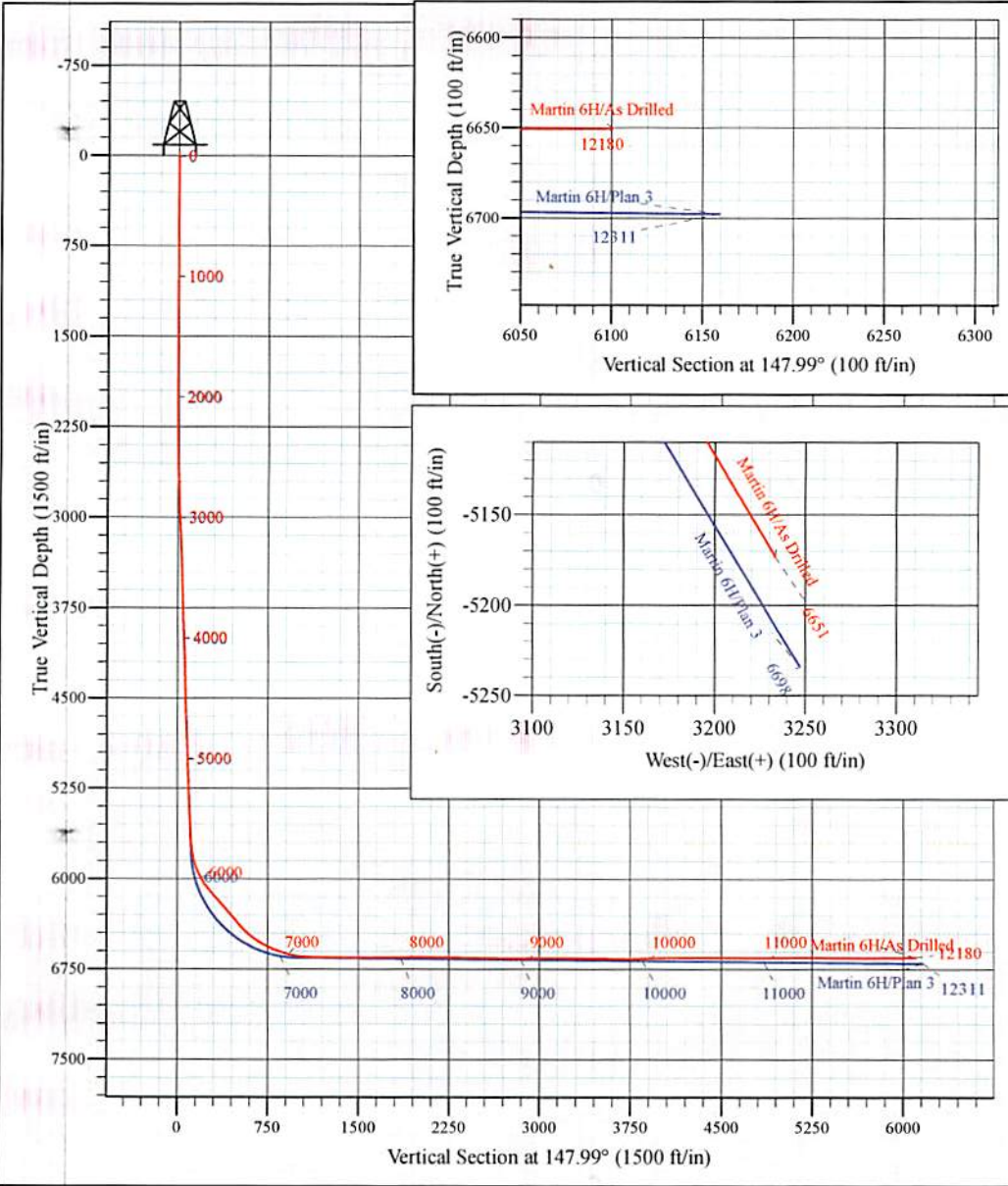
Martin Pad
 Martin 6H
 As Drilled
 GL 906 & KB 18 @ 924.00ft (Saxon 141)
 Heather Prospect (NAD 27)

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 6H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.00	0.00	407720.00	1643296.00	39° 36' 45.096 N	80° 45' 58.171 W	6H



Azimuths to Grid North
 True North: 0.81°
 Magnetic North: -6.61°
 Magnetic Field
 Strength: 52511.0snT
 Dip Angle: 67.07°
 Date: 11/3/2014
 Model: USER DEFINED

RECEIVED
 Office of Oil and Gas
 JAN 29 2019
 WV Department of
 Environmental Protection

Tim Bouman
 17:37, November 25 2014
 Scientific Drilling International
 124 Vista Drive
 Charleroi, PA 15022

Stone Energy Corporation

Heather Prospect (NAD 27)

Martin Pad

Martin 6H - Slot 6H

OH

Design: As Drilled

Standard Survey Report

01 December, 2014



RECEIVED
Office of Oil and Gas
JAN 29 2019
WV Department of
Environmental Protection



Scientific Drilling Survey Report

Company: Stone Energy Corporation	Local Co-ordinate Reference: Well Martin 6H - Slot 6H
Project: Heather Prospect (NAD 27)	TVD Reference: GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site: Martin Pad	MD Reference: GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well: Martin 6H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: Northeast District

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

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

Well Martin 6H - Slot 6H			
Well Position +N/-S	0.00 ft	Northing: 407,720.00 usft	Latitude: 39° 36' 45.096 N
+E/-W	0.00 ft	Easting: 1,643,296.00 usft	Longitude: 80° 45' 58.171 W
Position Uncertainty	0.00 ft	Wellhead Elevation: 0.00 ft	Ground Level: 906.00 ft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	3/27/2014	-8.59	67.11	52,440
	BGGM2013	4/15/2014	-8.59	67.10	52,433
	BGGM2014	6/11/2014	-8.54	67.12	52,420
	User Defined	9/10/2014	-7.69	67.13	52,532
	User Defined	9/29/2014	-7.69	67.12	52,524
	User Defined	11/3/2014	-7.42	67.07	52,511

RECEIVED
Office of Oil and Gas

JAN 29 2019
0.00
WV Department of
Environmental Protection

Design As Drilled			
Audit Notes:			
Version: 1.0	Phase: ACTUAL	Tie On Depth:	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			147.99

Survey Program		Date 12/1/2014
From (ft)	To (ft)	Survey (Wellbore)
18.00	2,228.00	Survey 1 - SDI Gyro (OH)
2,305.00	12,180.00	Survey 2 - SDI MWD (OH)
Tool Name	Description	
SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
SDI MWD	SDI MWD - Standard ver 1.0.1	

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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18.00	0.00	360.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ground Level										
108.00	0.08	277.50	108.00	0.01	-0.06	-0.04	0.09	0.09	0.00	
First SDI Gyro Survey										

Scientific Drilling Survey Report

Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Martin 6H - Slot 6H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	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	0.02	239.08	208.00	0.01	-0.15	-0.08	0.07	-0.06	-38.42	
308.00	0.03	215.21	308.00	-0.02	-0.18	-0.07	0.01	0.01	-23.87	
408.00	0.14	237.45	408.00	-0.11	-0.29	-0.06	0.11	0.11	22.24	
508.00	0.15	266.90	508.00	-0.18	-0.53	-0.13	0.07	0.01	29.45	
608.00	0.19	301.68	608.00	-0.10	-0.80	-0.34	0.11	0.04	34.78	
708.00	0.19	337.67	708.00	0.14	-1.00	-0.65	0.12	0.00	35.99	
808.00	0.09	26.68	808.00	0.36	-1.03	-0.85	0.15	-0.10	49.01	
908.00	0.33	25.17	908.00	0.69	-0.87	-1.05	0.24	0.24	-1.51	
943.00	0.49	24.92	943.00	0.92	-0.77	-1.19	0.46	0.46	-0.71	
1,008.00	0.38	32.24	1,007.99	1.35	-0.54	-1.43	0.19	-0.17	11.26	
1,108.00	0.40	27.27	1,107.99	1.94	-0.20	-1.75	0.04	0.02	-4.97	
1,208.00	0.60	31.13	1,207.99	2.70	0.23	-2.17	0.20	0.20	3.86	
1,258.00	0.65	24.30	1,257.99	3.19	0.48	-2.45	0.18	0.10	-13.66	
1,308.00	0.39	25.43	1,307.98	3.60	0.67	-2.69	0.52	-0.52	2.26	
1,408.00	0.06	25.67	1,407.98	3.95	0.84	-2.91	0.33	-0.33	0.24	
1,508.00	0.19	32.12	1,507.98	4.14	0.95	-3.01	0.13	0.13	6.45	
1,608.00	0.35	36.98	1,607.98	4.52	1.22	-3.19	0.16	0.16	4.86	
1,708.00	0.40	33.76	1,707.98	5.06	1.60	-3.44	0.05	0.05	-3.22	
1,808.00	0.46	24.52	1,807.98	5.71	1.96	-3.81	0.09	0.06	-9.24	
1,908.00	0.54	27.55	1,907.97	6.50	2.35	-4.27	0.08	0.08	3.03	
2,008.00	0.79	25.44	2,007.97	7.54	2.86	-4.88	0.25	0.25	-2.11	
2,043.00	0.79	26.16	2,042.96	7.97	3.07	-5.13	0.03	0.00	2.06	
2,108.00	0.66	22.00	2,107.96	8.72	3.41	-5.59	0.22	-0.20	-6.40	
2,208.00	0.79	24.30	2,207.95	9.88	3.91	-6.31	0.13	0.13	2.30	
2,228.00	0.69	26.98	2,227.95	10.12	4.02	-6.45	0.53	-0.50	13.40	
Last SDI Gyro Survey										
2,305.00	0.49	19.51	2,304.94	10.84	4.34	-6.89	0.28	-0.26	-9.70	
First SDI MWD Survey										
2,399.00	1.35	105.43	2,398.93	10.92	5.54	-6.33	1.49	0.91	91.40	
2,494.00	1.97	118.53	2,493.89	9.85	8.06	-4.08	0.76	0.65	13.79	
2,588.00	2.58	132.40	2,587.82	7.65	11.04	-0.64	0.87	0.65	14.76	
2,682.00	2.91	152.19	2,681.71	4.11	13.71	3.78	1.06	0.35	21.05	
2,776.00	2.85	158.12	2,775.60	-0.17	15.70	8.46	0.32	-0.06	6.31	
2,870.00	2.52	150.63	2,869.49	-4.14	17.58	12.83	0.51	-0.35	-7.97	
2,965.00	2.35	139.49	2,964.41	-7.44	19.87	16.84	0.53	-0.18	-11.73	
3,059.00	2.15	161.10	3,058.34	-10.57	21.69	20.46	0.92	-0.21	22.99	
3,153.00	2.07	169.91	3,152.27	-13.91	22.56	23.75	0.36	-0.09	9.37	
3,247.00	1.84	168.10	3,246.22	-17.06	23.17	26.75	0.25	-0.24	-1.93	
3,341.00	2.15	161.80	3,340.16	-20.21	24.03	29.88	0.40	0.33	-6.70	
3,437.00	2.22	155.62	3,436.09	-23.62	25.36	33.47	0.26	0.07	-6.44	
3,531.00	2.25	150.01	3,530.02	-26.87	27.04	37.12	0.23	0.03	-5.97	
3,625.00	2.08	138.02	3,623.95	-29.74	29.10	40.64	0.51	-0.18	-12.76	
3,720.00	1.92	153.67	3,718.90	-32.45	30.96	43.92	0.60	-0.17	16.47	
3,814.00	2.02	164.38	3,812.84	-35.45	32.10	47.08	0.41	0.11	11.39	

WV Department of
Environmental Protection

JAN 29 2019

RECEIVED
Office of Oil and Gas

Scientific Drilling

Survey Report

Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Martin 6H - Slot 6H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	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)
3,908.00	1.78	164.35	3,906.79	-38.45	32.94	50.07	0.26	-0.26	-0.03
4,002.00	2.03	150.67	4,000.74	-41.31	34.15	53.13	0.55	0.27	-14.55
4,096.00	2.32	151.16	4,094.67	-44.43	35.89	56.70	0.31	0.31	0.52
4,190.00	2.03	158.71	4,188.60	-47.65	37.41	60.23	0.43	-0.31	8.03
4,284.00	1.50	170.00	4,282.56	-50.41	38.23	63.01	0.67	-0.56	12.01
4,378.00	1.22	169.40	4,376.53	-52.61	38.62	65.08	0.30	-0.30	-0.64
4,472.00	0.98	111.48	4,470.52	-53.88	39.56	66.66	1.15	-0.26	-61.62
4,566.00	1.76	106.50	4,564.49	-54.59	41.69	68.39	0.84	0.83	-5.30
4,660.00	2.78	122.15	4,658.41	-56.21	45.00	71.52	1.26	1.09	16.65
4,756.00	2.63	146.39	4,754.31	-59.28	48.19	75.82	1.19	-0.16	25.25
4,850.00	2.11	154.98	4,848.23	-62.65	50.12	79.69	0.67	-0.55	9.14
4,944.00	1.80	159.11	4,942.18	-65.60	51.38	82.85	0.36	-0.33	4.39
5,038.00	1.49	169.40	5,036.14	-68.18	52.13	85.44	0.45	-0.33	10.95
5,132.00	1.79	173.15	5,130.10	-70.83	52.53	87.91	0.34	0.32	3.99
5,226.00	2.46	152.66	5,224.03	-74.08	53.63	91.25	1.07	0.71	-21.80
5,321.00	2.91	144.89	5,318.93	-77.87	55.95	95.69	0.61	0.47	-8.18
5,415.00	2.89	147.12	5,412.81	-81.81	58.61	100.44	0.12	-0.02	2.37
5,509.00	2.86	149.39	5,506.69	-85.82	61.09	105.15	0.13	-0.03	2.41
5,603.00	2.05	143.56	5,600.60	-89.19	63.29	109.17	0.90	-0.86	-6.20
Last SDI MWD Survey									
5,646.00	1.78	138.57	5,643.58	-90.31	64.18	110.60	0.74	-0.63	-11.60
5,674.00	2.74	137.26	5,671.56	-91.13	64.93	111.69	3.44	3.44	-4.69
Projection to Bit									
5,678.00	2.88	137.14	5,675.55	-91.27	65.06	111.88	3.44	3.44	-2.90
5,709.00	4.78	127.47	5,706.48	-92.63	66.61	113.85	6.45	6.13	-31.19
5,741.00	6.78	125.51	5,738.32	-94.54	69.21	116.85	6.28	6.25	-6.13
5,773.00	9.11	131.36	5,770.01	-97.31	72.65	121.02	7.70	7.28	18.28
5,805.00	11.55	139.32	5,801.49	-101.41	76.64	126.62	8.82	7.63	24.88
5,837.00	13.79	143.96	5,832.71	-106.93	80.97	133.59	7.68	7.00	14.50
5,868.00	16.57	146.63	5,862.63	-113.61	85.58	141.70	9.24	8.97	8.61
5,900.00	19.24	147.75	5,893.07	-121.88	90.90	151.53	8.41	8.34	3.50
5,932.00	21.76	147.87	5,923.04	-131.36	96.87	162.74	7.88	7.88	0.38
5,963.00	24.38	148.68	5,951.56	-141.70	103.26	174.88	8.51	8.45	2.61
5,995.00	27.75	146.73	5,980.30	-153.57	110.78	188.94	10.87	10.53	-6.09
6,027.00	31.02	146.15	6,008.18	-166.65	119.46	204.63	10.26	10.22	-1.81
6,059.00	34.41	144.62	6,035.10	-180.87	129.29	221.91	10.90	10.59	-4.78
6,091.00	38.26	144.10	6,060.88	-196.28	140.34	240.82	12.07	12.03	-1.63
6,122.00	40.29	142.18	6,084.87	-211.97	152.12	260.37	7.63	6.55	-6.19
6,154.00	40.17	142.30	6,109.31	-228.31	164.77	280.94	0.45	-0.38	0.38
6,214.00	41.05	141.51	6,154.85	-259.04	188.87	319.77	1.70	1.47	-1.32
6,275.00	41.44	138.66	6,200.72	-289.88	214.67	359.59	3.15	0.64	-4.67
6,336.00	41.71	137.80	6,246.36	-320.07	241.64	399.49	1.03	0.44	-1.41
6,397.00	41.55	138.38	6,291.95	-350.23	268.70	439.41	0.68	-0.26	0.95

WV Department of Environmental Protection

JAN 29 2019

RECEIVED
Office of Oil and Gas

Scientific Drilling

Survey Report

Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Martin 6H - Slot 6H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	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)	
6,457.00	40.48	140.41	6,337.23	-380.11	294.33	478.33	2.85	-1.78	3.38	
6,487.00	39.89	139.52	6,360.15	-394.93	306.78	497.50	2.74	-1.97	-2.97	
6,517.00	40.70	138.86	6,383.03	-409.62	319.46	516.67	3.05	2.70	-2.20	
6,547.00	42.97	138.52	6,405.38	-424.65	332.67	536.42	7.60	7.57	-1.13	
6,577.00	45.88	140.14	6,426.80	-440.58	346.35	557.18	10.41	9.70	5.40	
6,608.00	48.73	141.00	6,447.82	-458.18	360.82	579.77	9.42	9.19	2.77	
6,638.00	51.70	142.52	6,467.02	-476.28	375.08	602.68	10.64	9.90	5.07	
6,668.00	53.87	143.97	6,485.16	-495.43	389.37	626.49	8.19	7.23	4.83	
6,698.00	55.86	145.83	6,502.43	-515.50	403.47	650.98	8.35	6.63	6.20	
6,728.00	58.02	146.09	6,518.79	-536.33	417.54	676.11	7.24	7.20	0.87	
6,759.00	60.10	146.62	6,534.73	-558.47	432.27	702.69	6.87	6.71	1.71	
6,789.00	62.28	147.75	6,549.18	-580.56	446.52	728.97	7.98	7.27	3.77	
6,820.00	64.40	148.01	6,563.09	-604.02	461.24	756.67	6.88	6.84	0.84	
6,850.00	66.11	148.60	6,575.65	-627.20	475.56	783.91	5.97	5.70	1.97	
6,880.00	68.26	148.99	6,587.28	-650.85	489.88	811.56	7.27	7.17	1.30	
6,910.00	70.17	149.49	6,597.93	-674.95	504.23	839.60	6.55	6.37	1.67	
6,941.00	72.29	149.68	6,607.90	-700.26	519.09	868.94	6.86	6.84	0.61	
6,971.00	73.98	150.25	6,616.60	-725.12	533.45	897.63	5.92	5.63	1.90	
7,001.00	75.72	150.68	6,624.44	-750.31	547.73	926.56	5.96	5.80	1.43	
7,031.00	78.03	150.65	6,631.26	-775.78	562.04	955.74	7.70	7.70	-0.10	
7,061.00	80.46	149.93	6,636.85	-801.38	576.65	985.19	8.44	8.10	-2.40	
7,091.00	82.96	150.04	6,641.18	-827.08	591.50	1,014.86	8.34	8.33	0.37	
7,121.00	85.26	149.36	6,644.26	-852.84	606.55	1,044.68	7.99	7.67	-2.27	
7,182.00	88.35	148.63	6,647.66	-905.04	637.92	1,105.57	5.20	5.07	-1.20	
7,246.00	89.36	146.71	6,648.94	-959.10	672.14	1,169.55	3.39	1.58	-3.00	
7,309.00	89.16	147.21	6,649.75	-1,011.91	706.48	1,232.54	0.85	-0.32	0.79	
7,372.00	89.36	148.52	6,650.56	-1,065.25	739.99	1,295.53	2.10	0.32	2.08	
7,436.00	89.56	147.44	6,651.17	-1,119.51	773.92	1,359.53	1.72	0.31	-1.69	
7,500.00	89.60	146.92	6,651.64	-1,173.30	808.61	1,423.52	0.81	0.06	-0.81	
7,563.00	89.70	148.04	6,652.02	-1,226.42	842.48	1,486.51	1.78	0.16	1.78	
7,627.00	89.60	149.07	6,652.41	-1,281.02	875.86	1,550.51	1.62	-0.16	1.61	
7,691.00	90.13	148.84	6,652.56	-1,335.85	908.87	1,614.50	0.90	0.83	-0.36	
7,754.00	90.87	148.15	6,652.01	-1,389.56	941.79	1,677.49	1.61	1.17	-1.10	
7,818.00	90.64	148.40	6,651.17	-1,443.99	975.44	1,741.49	0.53	-0.36	0.39	
7,881.00	91.11	148.30	6,650.21	-1,497.62	1,008.49	1,804.48	0.76	0.75	-0.16	
7,945.00	91.01	148.80	6,649.02	-1,552.20	1,041.88	1,868.46	0.80	-0.16	0.78	
8,009.00	91.04	148.33	6,647.88	-1,606.80	1,075.25	1,932.45	0.74	0.05	-0.73	
8,072.00	90.17	148.32	6,647.21	-1,660.41	1,108.33	1,995.44	1.38	-1.38	-0.02	
8,135.00	89.56	148.37	6,647.36	-1,714.04	1,141.40	2,058.44	0.97	-0.97	0.08	
8,199.00	88.99	149.20	6,648.17	-1,768.77	1,174.56	2,122.43	1.57	-0.89	1.30	
8,263.00	89.23	148.58	6,649.17	-1,823.56	1,207.62	2,186.42	1.04	0.38	-0.97	
8,326.00	89.53	148.72	6,649.85	-1,877.36	1,240.40	2,249.41	0.53	0.48	0.22	
8,390.00	89.30	149.53	6,650.50	-1,932.28	1,273.24	2,313.39	1.32	-0.36	1.27	
8,453.00	89.09	149.48	6,651.39	-1,986.56	1,305.21	2,376.36	0.34	-0.33	-0.08	

WV Department of Environmental Protection

RECEIVED
Office of Oil and Gas
JAN 29 2019

Scientific Drilling Survey Report

Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Martin 6H - Slot 6H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site:	Martin Pad	MD Reference:	GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well:	Martin 6H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	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)
8,517.00	88.92	149.61	6,652.50	-2,041.73	1,337.64	2,440.33	0.33	-0.27	0.20
8,580.00	89.06	149.00	6,653.61	-2,095.89	1,369.79	2,503.30	0.99	0.22	-0.97
8,644.00	88.56	148.28	6,654.94	-2,150.53	1,403.09	2,567.28	1.37	-0.78	-1.13
8,707.00	88.86	148.49	6,656.36	-2,204.17	1,436.11	2,630.27	0.58	0.48	0.33
8,771.00	90.13	150.95	6,656.92	-2,259.43	1,468.38	2,694.23	4.33	1.98	3.84
8,834.00	89.46	151.17	6,657.15	-2,314.56	1,498.86	2,757.14	1.12	-1.06	0.35
8,898.00	89.93	151.74	6,657.49	-2,370.78	1,529.44	2,821.02	1.15	0.73	0.89
8,962.00	90.03	150.96	6,657.51	-2,426.94	1,560.13	2,884.91	1.23	0.16	-1.22
9,025.00	91.58	150.76	6,656.62	-2,481.96	1,590.80	2,947.82	2.48	2.46	-0.32
9,089.00	91.27	151.12	6,655.03	-2,537.89	1,621.88	3,011.72	0.74	-0.48	0.56
9,153.00	90.34	151.16	6,654.13	-2,593.93	1,652.77	3,075.61	1.45	-1.45	0.06
9,216.00	90.20	151.47	6,653.84	-2,649.20	1,683.01	3,138.51	0.54	-0.22	0.49
9,279.00	89.30	152.71	6,654.11	-2,704.87	1,712.49	3,201.34	2.43	-1.43	1.97
9,342.00	88.83	152.72	6,655.14	-2,760.85	1,741.37	3,264.12	0.75	-0.75	0.02
9,403.00	88.96	152.26	6,656.32	-2,814.94	1,769.54	3,324.92	0.78	0.21	-0.75
9,467.00	89.56	151.29	6,657.14	-2,871.33	1,799.81	3,388.78	1.78	0.94	-1.52
9,531.00	90.07	151.06	6,657.35	-2,927.40	1,830.66	3,452.68	0.87	0.80	-0.36
9,594.00	89.63	148.99	6,657.51	-2,981.97	1,862.14	3,515.63	3.36	-0.70	-3.29
9,658.00	88.36	148.16	6,658.64	-3,036.57	1,895.50	3,579.62	2.37	-1.98	-1.30
9,721.00	88.56	148.22	6,660.33	-3,090.09	1,928.69	3,642.60	0.33	0.32	0.10
9,785.00	89.23	144.48	6,661.56	-3,143.35	1,964.14	3,706.55	5.94	1.05	-5.84
9,849.00	89.97	144.66	6,662.01	-3,195.49	2,001.24	3,770.43	1.19	1.16	0.28
9,913.00	92.42	145.85	6,660.68	-3,248.07	2,037.71	3,834.34	4.26	3.83	1.86
9,976.00	94.57	146.45	6,656.84	-3,300.29	2,072.73	3,897.18	3.54	3.41	0.95
10,040.00	92.31	145.68	6,653.00	-3,353.28	2,108.40	3,961.03	3.73	-3.53	-1.20
10,104.00	90.67	146.56	6,651.33	-3,406.40	2,144.06	4,024.97	2.91	-2.56	1.38
10,168.00	89.93	146.39	6,651.00	-3,459.75	2,179.41	4,088.95	1.19	-1.16	-0.27
10,231.00	89.73	145.86	6,651.18	-3,512.06	2,214.52	4,151.91	0.90	-0.32	-0.84
10,294.00	89.53	145.96	6,651.59	-3,564.23	2,249.83	4,214.87	0.35	-0.32	0.16
10,358.00	89.40	146.92	6,652.19	-3,617.56	2,285.21	4,278.84	1.51	-0.20	1.50
10,421.00	89.87	148.47	6,652.59	-3,670.80	2,318.88	4,341.84	2.57	0.75	2.46
10,484.00	90.47	148.85	6,652.40	-3,724.61	2,351.64	4,404.83	1.13	0.95	0.60
10,548.00	90.67	148.49	6,651.77	-3,779.28	2,384.92	4,468.82	0.64	0.31	-0.56
10,611.00	90.57	148.83	6,651.08	-3,833.08	2,417.68	4,531.82	0.56	-0.16	0.54
10,675.00	90.17	149.68	6,650.67	-3,888.08	2,450.40	4,595.80	1.47	-0.63	1.33
10,739.00	89.09	149.77	6,651.08	-3,943.35	2,482.67	4,659.77	1.69	-1.69	0.14
10,802.00	88.79	149.63	6,652.25	-3,997.74	2,514.44	4,722.73	0.53	-0.48	-0.22
10,865.00	89.46	149.20	6,653.21	-4,051.97	2,546.50	4,785.70	1.26	1.06	-0.68
10,929.00	89.87	149.00	6,653.59	-4,106.88	2,579.36	4,849.69	0.71	0.64	-0.31
10,992.00	89.73	149.21	6,653.81	-4,160.94	2,611.71	4,912.68	0.40	-0.22	0.33
11,056.00	89.93	148.90	6,653.99	-4,215.83	2,644.62	4,976.66	0.58	0.31	-0.48
11,120.00	90.13	148.52	6,653.96	-4,270.52	2,677.86	5,040.66	0.67	0.31	-0.59
11,184.00	90.54	148.34	6,653.59	-4,325.05	2,711.37	5,104.66	0.70	0.64	-0.28

WV Department of
Environmental Protection

JAN 29 2019

RECEIVED
Office of Oil and Gas

Scientific Drilling

Survey Report

Company: Stone Energy Corporation	Local Co-ordinate Reference: Well Martin 6H - Slot 6H
Project: Heather Prospect (NAD 27)	TVD Reference: GL 906 & KB 18 @ 924.00ft (Saxon 141)
Site: Martin Pad	MD Reference: GL 906 & KB 18 @ 924.00ft (Saxon 141)
Well: Martin 6H	North Reference: Grid
Wellbore: OH	Survey Calculation Method: Minimum Curvature
Design: As Drilled	Database: 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)	
11,247.00	90.10	148.20	6,653.24	-4,378.63	2,744.50	5,167.65	0.73	-0.70	-0.22	
11,310.00	89.73	148.00	6,653.33	-4,432.12	2,777.79	5,230.65	0.67	-0.59	-0.32	
11,374.00	90.00	147.99	6,653.48	-4,486.39	2,811.71	5,294.65	0.42	0.42	-0.02	
11,438.00	90.24	148.25	6,653.35	-4,540.73	2,845.51	5,358.65	0.55	0.38	0.41	
11,502.00	90.81	147.71	6,652.76	-4,595.00	2,879.44	5,422.65	1.23	0.89	-0.84	
11,565.00	90.17	148.41	6,652.22	-4,648.45	2,912.77	5,485.65	1.51	-1.02	1.11	
11,629.00	89.83	148.65	6,652.22	-4,703.04	2,946.18	5,549.64	0.65	-0.53	0.38	
11,692.00	90.20	148.07	6,652.20	-4,756.68	2,979.23	5,612.64	1.09	0.59	-0.92	
11,756.00	90.03	148.01	6,652.08	-4,810.98	3,013.11	5,676.64	0.28	-0.27	-0.09	
11,819.00	89.93	147.31	6,652.10	-4,864.20	3,046.81	5,739.64	1.12	-0.16	-1.11	
11,883.00	90.00	147.83	6,652.14	-4,918.22	3,081.13	5,803.64	0.82	0.11	0.81	
11,945.00	90.30	148.88	6,651.97	-4,971.00	3,113.66	5,865.64	1.76	0.48	1.69	
12,008.00	90.20	149.76	6,651.70	-5,025.18	3,145.80	5,928.62	1.41	-0.16	1.40	
12,072.00	90.60	149.36	6,651.25	-5,080.36	3,178.22	5,992.59	0.88	0.63	-0.63	
12,135.00	90.47	149.13	6,650.66	-5,134.50	3,210.44	6,055.57	0.42	-0.21	-0.37	
12,180.00	89.73	149.46	6,650.59	-5,173.19	3,233.42	6,100.56	1.80	-1.64	0.73	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
85.00	85.00	93.00	20	20		
907.00	907.00	908.99	13-3/8	13-3/8		
2,227.00	2,226.95	2237.94	9-5/8	9-5/8		
12,180.00	6,650.59	6674.71	5-1/2	5-1/2		

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	0.01	-0.06	First SDI Gyro Survey	
2,228.00	2,227.95	10.12	4.02	Last SDI Gyro Survey	
2,305.00	2,304.94	10.84	4.34	First SDI MWD Survey	
5,603.00	5,600.60	-89.19	63.29	Last SDI MWD Survey	
5,674.00	5,671.56	-91.13	64.93	Projection to Bit	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

RECEIVED
Office of Oil and Gas
JAN 29 2019
WV Department of Environmental Protection

Well Operator's Report of Well Work



Where energy meets innovation.

Well Number: PFS27H6 (519195)

API: 47 - 103 - 02959

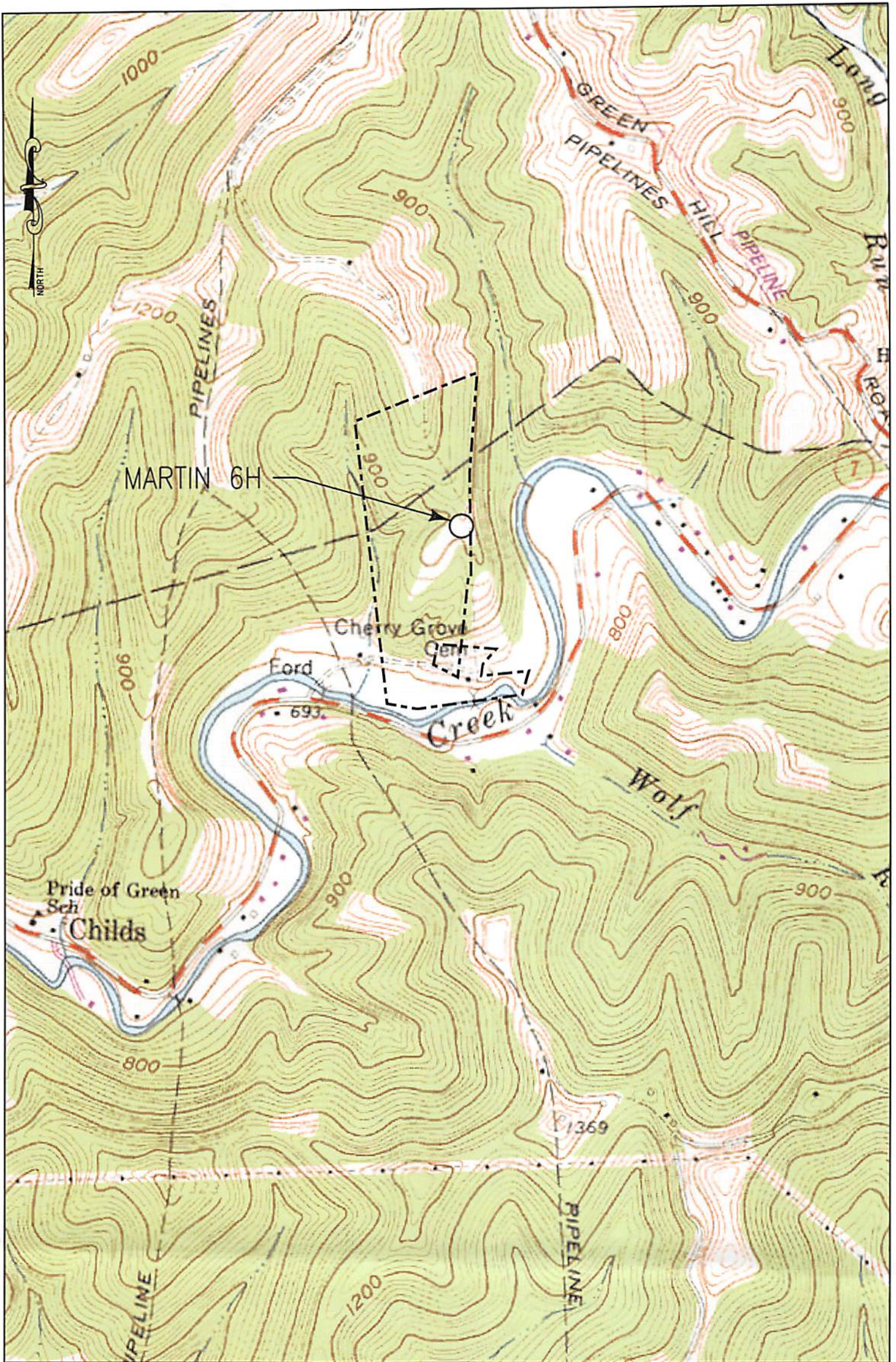
Submission: Initial Amended

Notes: Stone Energy Corporation Performed The Drilling Operations On This Well And Submitted An Initial Report (Copy Attached). In December Of 2015, Stone Energy Performed Stimulation Operations For Stages 1-3.

EQT Completed Stimulation Operations For Stages 4-26 During October Of 2018, Information Regarding Which Is Reported In The Following Amended WR-35 & Referenced Attachments.

Injection Tests Were Performed At Stages 4 And 24.

RECEIVED
Office of Oil and Gas
JAN 29 2019
WV Department of
Environmental Protection



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

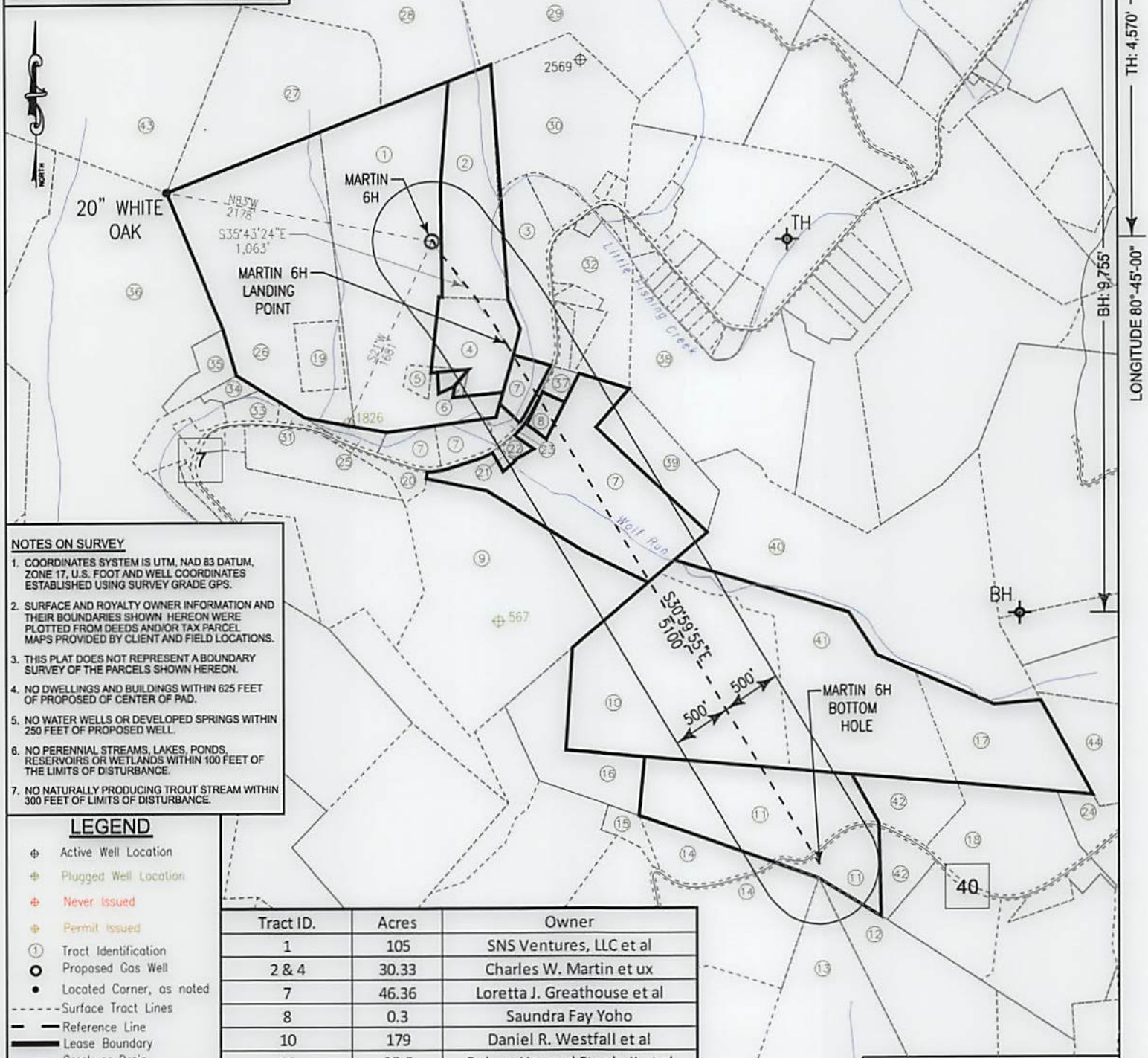
1" = 1000'
 PORTERS FALLS 7.5'

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

Martin 6H
Martin
EQT Production Company

3046
2922
2961
2962

3047
3048
2964
2963



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 OF 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
- ⊕ 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

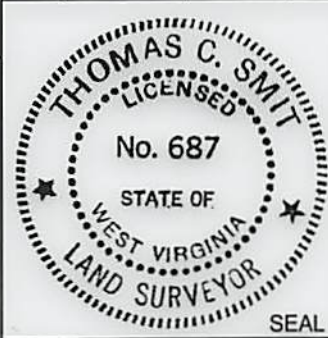
Tract ID.	Acres	Owner
1	105	SNS Ventures, LLC et al
2 & 4	30.33	Charles W. Martin et ux
7	46.36	Loretta J. Greathouse et al
8	0.3	Sandra Fay Yoho
10	179	Daniel R. Westfall et al
11	35.5	Robert Howard Steele II et al

(⊕) 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. Smit
L. L. S. 687



FILE NO: W2174 (BK 59-37)
DRAWING NO: _____
SCALE: 1" = 1200'
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: FEBRUARY 14 20 18
OPERATORS WELL NO: MARTIN 6H
API WELL NO
47 - 103 - 02959
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: 6,700'
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

EOT Production Company
Martin 6H
Martin

LONGITUDE 80.42-00.00

HT: 4.270

BH: 1.250

BH: 1.250

BH: 1.250

BH: 1.250

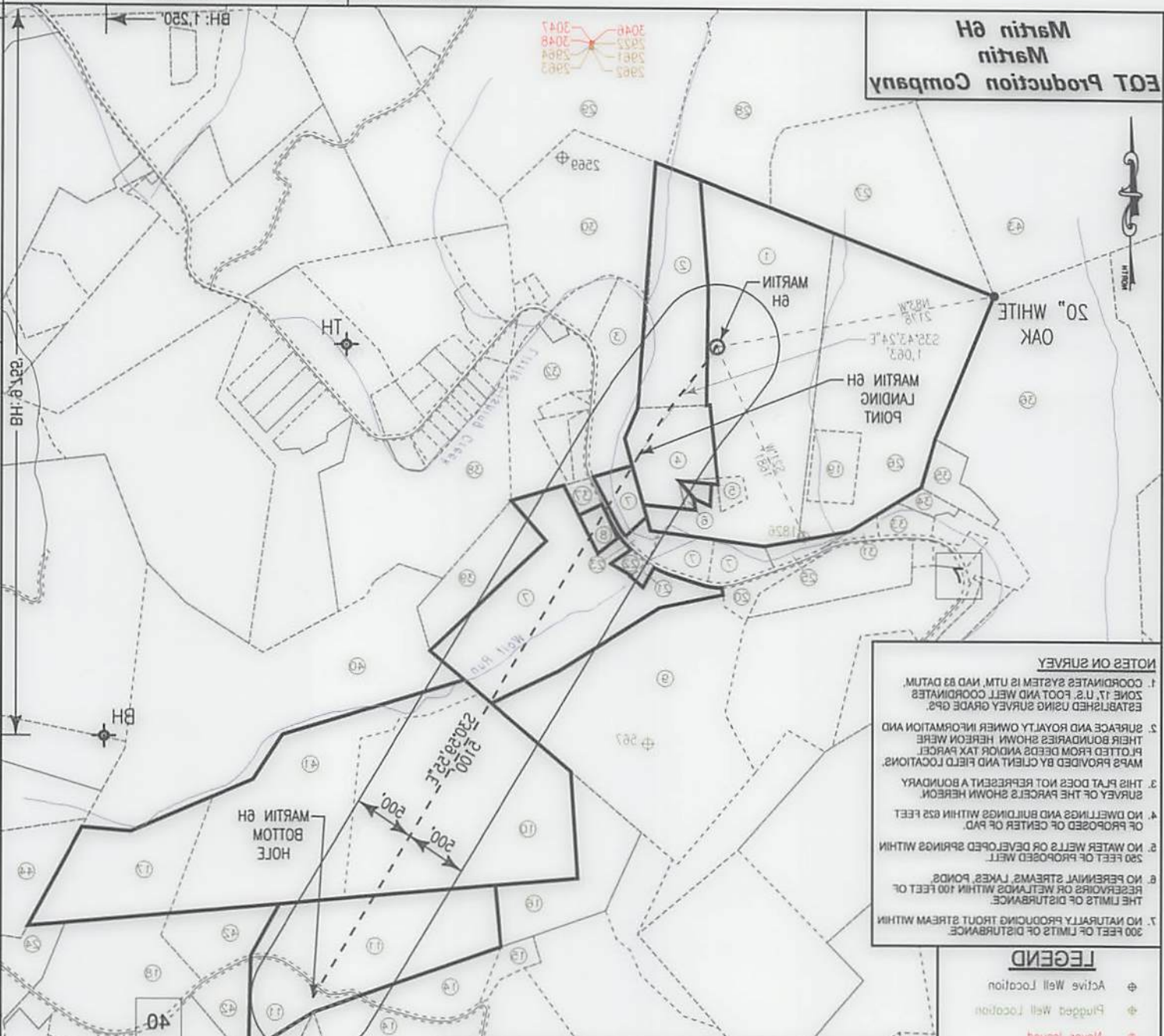
BH: 1.250

BH: 1.250

BH: 1.250

BH: 1.250

BH: 1.250



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 PARCELS 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 TIGHT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

LEGEND

- Active Well Location
- Proposed Well Location
- Never Issued
- Permit Issued
- Tract Identification
- Proposed Gas Well
- Located Corner, as noted
- Locate Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- WV State Route

Tract ID.	Acres	Owner
1	102	SNS Ventures, LLC et al
2 & 4	30.33	Charles W. Martin et ux
7	46.36	Loretta J. Greathouse et al
8	0.3	Sandra Fay Yoho
10	179	Daniel R. Westfall et al
11	32.2	Robert Howard Steele II 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.

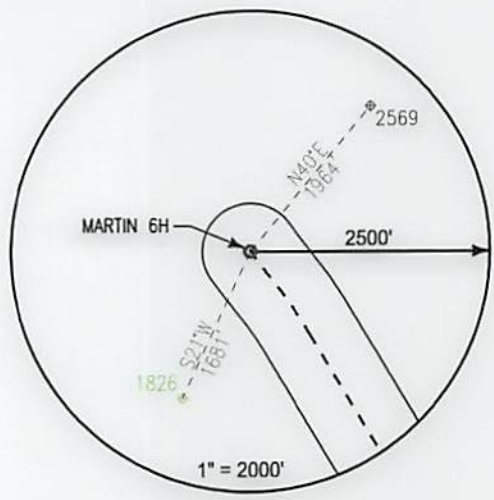
Thomas C. Smith
 L. L. S. 687



DATE: FEBRUARY 14 20 18 OPERATORS WELL NO: MARTIN 6H API WELL NO STATE COUNTY PERMIT 47 - 103 - 02959	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	FILE NO: W5174 (BK 59-37) DRAWING NO: SCALE: 1"=1200' MINIMUM DEGREE OF ACCURACY: 1:2500 PROVEN SOURCE OF ELEVATION: 2G-GPS (OPUS)
WELLS TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> SHALLOW	LOCATION ELEVATION: 909' WATERSHED: LITTLE FISHING CREEK QUADRANGLE: PORTERS FALLS T.2	DISTRICT: Green SURFACE OWNER: Charles & Gwendolyn Martin ROYALTY OWNER: SNS Ventures, LLC et al LEASE NO: 873397 ACREAGE: 102 ± ACREAGE: 54 ±
PROPOSED WORK: <input type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input checked="" type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6700' CLEAN OUT AND REPLUG <input type="checkbox"/>	DESIGNATED AGENT: Jason Ranson ADDRESS: 115 Professional Place PO Box 280 Bridgport, WV 26330	WELL OPERATOR: EOT Production Company ADDRESS: 115 Professional Place PO Box 280 Bridgport, WV 26330

**Martin 6H
Martin
EQT Production Company**

Tract ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner	Acres
1	3	2.1	Wetzel	Green	Gwendolyn L. Stout	56.49
2	3	3	Wetzel	Green	Charles W. Martin	20.2
3	3	8.1	Wetzel	Green	Laura C. & Robert N. Debolt	12.09
4	3	7	Wetzel	Green	Charles W. Martin	10.65
5	3	5	Wetzel	Green	Charles W. Martin	1.13
6	3	6	Wetzel	Green	Charles W. Martin	0.32
7	3	26	Wetzel	Green	Kernel E. Greathouse Estate	45.13
8	3	26.1	Wetzel	Green	Sandra F. Yoho	1.5
9	3	33	Wetzel	Green	Greathouse Kernel Estate	56.33
10	8	4	Wetzel	Green	Robert E. Bender	53.62
11	8	10	Wetzel	Green	Andrea Wade	34.03
12	8	22	Wetzel	Green	Connie J. & John D. Morgan	28.94
13	8	21	Wetzel	Green	Price Fannie HRS	43.67
14	8	20.1	Wetzel	Green	Loraine M. Williams	28.35
15	8	20	Wetzel	Green	JJ Detweiler Enterprises Inc	2.2
16	8	3	Wetzel	Green	Gary L. & Toy Tennant	17.5
17	8	4.2	Wetzel	Green	William H. Gore	18.73
18	8	13.1	Wetzel	Green	William H. Gore	19.75
19	3	2	Wetzel	Green	Gwendolyn Lee & Charles Martin	4.92
20	3	26.3	Wetzel	Green	Loretta J. & Ralph T. Greathouse	2.18
21	3	26.4	Wetzel	Green	Herbert Blake	0.41
22	3	26.5	Wetzel	Green	Ralph T. Greathouse Jr	0.68
23	3	25	Wetzel	Green	Ethel Greathouse Estate	1.03
24	8	16	Wetzel	Green	Ryann M. Wade Jr Et Al	12.83
25	3	24	Wetzel	Green	Kernel Greathouse Estate	1.69
26	3	2	Wetzel	Green	Gwendolyn L. Stout	45.07
27	14	12	Wetzel	Magnolia	W D Lemon	35.31
28	14	11	Wetzel	Magnolia	W D Lemon	53.19
29	14	5.2	Wetzel	Magnolia	Tracy Living Trust	100.19
30	3	8.1	Wetzel	Green	Frost Rentals LLC	28.72
31	3	30.3	Wetzel	Green	Gwendolyn Stout	0.73
32	3	8.11	Wetzel	Green	John Lee Smith	12.89
33	3	30.1	Wetzel	Green	Dwight Thomas	2.13
34	3		Wetzel	Green	N/A	1.39
35	2	33.2	Wetzel	Green	Charles W. Martin	4.02
36	2	33	Wetzel	Green	Douglas L. Steele	146.31
37	3	26.2	Wetzel	Green	Sandra Fay Yoho	1.18
38	3	18	Wetzel	Green	Gene Billy Howell Jr	36
39	3	1	Wetzel	Green	Herman D. Winland	10.31
40	3	34	Wetzel	Green	Ronald E. Wade Trustee	68.7
41	8	4.1	Wetzel	Green	William H. Gore	39.82
42	8	11	Wetzel	Green	Andrea Wade	12.5
43	14	9	Wetzel	Magnolia	W. D. Lemon	91.67
44	8	5	Wetzel	Green	Charles J. Stillwagoner Jr	26.8



Notes:
MARTIN 6H As-Built coordinates are
 NAD 27 N: 407,720.003 E: 1,643,296.000
 NAD 27 Lat: 39.612527 Long: -80.766159
 NAD 83 UTM N: 4,384,787.821 E: 520,088.451
MARTIN 6H As-Built Landing Point coordinates are
 NAD 27 N: 406,857.383 E: 1,643,916.410
 NAD 27 Lat: 39.610182 Long: -80.763914
 NAD 83 UTM N: 4,384,528.178 E: 520,281.841
MARTIN 6H As-Built Bottom Hole coordinates are
 NAD 27 N: 402,486.003 E: 1,646,543.000
 NAD 27 Lat: 39.598283 Long: -80.754375
 NAD 83 UTM N: 4,383,209.783 E: 521,104.236
 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 5H
 MARTIN 1H ○ ○ MARTIN 7H
 MARTIN 2H ○ ○ MARTIN 8H
 MARTIN 4H ○ ○ MARTIN 6H

Well References

Wood Stake ●
 N49°W 300.0'
 N01°W 291.0'
 MARTIN 6H ○

1" = 200'



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. Smolles
 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)

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

DATE: FEBRUARY 14 20 18
 OPERATORS WELL NO: MARTIN 6H
 API WELL NO
 47 - 103 - 02959
 STATE COUNTY PERMIT

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

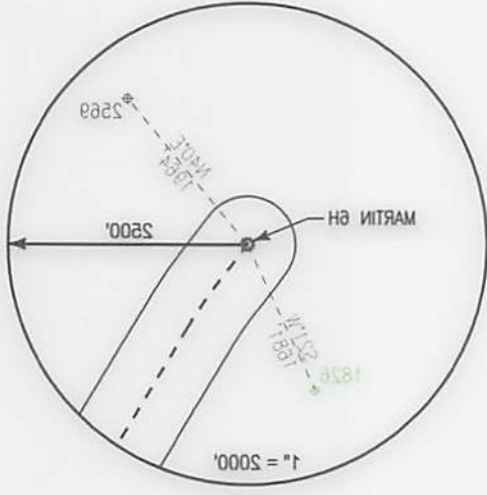
LOCATION ELEVATION: 920' WATERSHED: LITTLE FISHING CREEK QUADRANGLE: PORTERS FALLS 7.5'
 DISTRICT: Green COUNTY: Wetzel

SURFACE OWNER: Charles & Gwendolyn Martin ACREAGE: 54 ±
 ROYALTY OWNER: SNS Ventures, LLC et al LEASE NO: 873397 ACREAGE: 105 ±

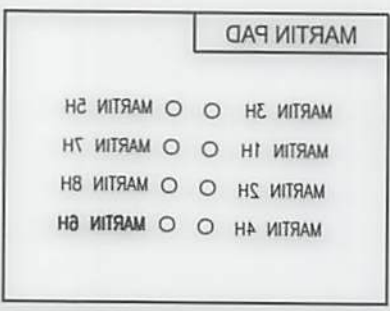
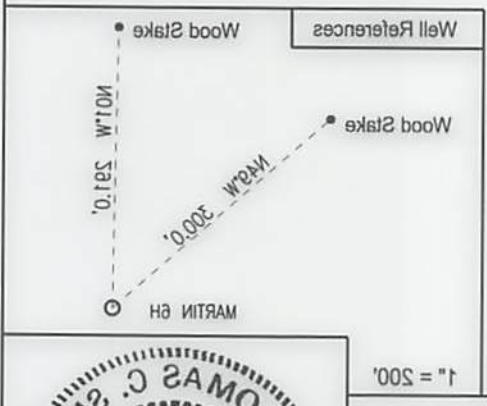
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: 6,700'

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

Tract ID	Tax Map No.	Parcel No.	County	District	Surface Tract Owner
1	3	2.1	Wetzel	Green	Gwendolyn J. Stout
2	3	3	Wetzel	Green	Charles W. Martin
3	3	8.1	Wetzel	Green	Laura C. & Robert N. Doherty
4	3	7	Wetzel	Green	Charles W. Martin
5	3	2	Wetzel	Green	Charles W. Martin
6	3	6	Wetzel	Green	Charles W. Martin
7	3	26	Wetzel	Green	Kemal E. Greathouse Estate
8	3	26.1	Wetzel	Green	Sandra F. Yoro
9	3	33	Wetzel	Green	Greathouse Kemal Estate
10	8	4	Wetzel	Green	Robert E. Bender
11	8	10	Wetzel	Green	Andrea Wade
12	8	22	Wetzel	Green	Connie L. & John D. Morgan
13	8	21	Wetzel	Green	Pace Fannie HRS
14	8	20.1	Wetzel	Green	Loraine M. Williams
15	8	20	Wetzel	Green	LL Detweiler Enterprises Inc
16	8	3	Wetzel	Green	Gary J. & Toy Tennant
17	8	4.2	Wetzel	Green	William H. Gore
18	8	13.1	Wetzel	Green	William H. Gore
19	3	5	Wetzel	Green	Gwendolyn Lee & Charles Martin
20	3	26.3	Wetzel	Green	Loretta J. & Ralph T. Greathouse
21	3	26.4	Wetzel	Green	Herbert Blake
22	3	0.68	Wetzel	Green	Ralph T. Greathouse Jr
23	3	25	Wetzel	Green	Ethel Greathouse Estate
24	8	16	Wetzel	Green	Ryan M. Wade Jr Et Al
25	3	24	Wetzel	Green	Kemal Greathouse Estate
26	3	2	Wetzel	Green	Gwendolyn J. Stout
27	14	12	Wetzel	Magallia	W D Lemon
28	14	11	Wetzel	Magallia	W D Lemon
29	14	2.2	Wetzel	Magallia	Tacy Living Trust
30	3	8.1	Wetzel	Green	Frost Rentals LLC
31	3	30.3	Wetzel	Green	Gwendolyn Stout
32	3	8.11	Wetzel	Green	John Lee Smith
33	3	2.13	Wetzel	Green	Dwight Thomas
34	3	1.39	Wetzel	Green	WVA
35	2	33.2	Wetzel	Green	Charles W. Martin
36	2	33	Wetzel	Green	Douglas L. Steele
37	3	26.2	Wetzel	Green	Sandra Fay Yoro
38	3	18	Wetzel	Green	Gene Billy Howell Jr
39	3	1	Wetzel	Green	Herman D. Winland
40	3	34	Wetzel	Green	Ronald E. Wade Trustee
41	8	4.1	Wetzel	Green	William H. Gore
42	8	11	Wetzel	Green	Andrea Wade
43	14	9	Wetzel	Magallia	W. D. Lemon
44	8	2	Wetzel	Green	Charles L. Stillwagoner Jr



Notes:
 MARTIN 6H As-Built coordinates are
 NAD 83 UTM N: 4384787.821 E: 520088.451
 NAD 83 UTM E: 408827.383 E: 1843916.410
 NAD 83 UTM N: 4384528.178 E: 520281.841
 MARTIN 6H As-Built Bottom Hole coordinates are
 NAD 83 UTM N: 408827.383 E: 1843916.410
 NAD 83 UTM E: 408827.383 E: 1843916.410
 NAD 83 UTM N: 4384528.178 E: 520281.841
 West Virginia Coordinates system of 1927 (North Zone)
 based upon Differential GPS Measurements
 Plat orientation, Corner and well ties are based upon
 the old north meridian
 Well location references are based upon the old 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.
 L. L. S. 687



FILE NO: W3174 (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

DATE: FEBRUARY 14 20 18
 OPERATORS WELL NO: MARTIN 6H
 API WELL NO
 STATE COUNTY PERMIT 47 - 103 - 02959

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

LOCATION ELEVATION: 920' WATERSHED: LITTLE FISHING CREEK QUADRANGLE: PORTERS FALLS 7'S
 DISTRICT: Green COUNTY: Wetzel

SURFACE OWNER: Charles & Gwendolyn Martin
 ROYALTY OWNER: SNS Ventures, LLC et al
 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: 6700'

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