

pm

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

API: 47-051-01545 County: MARSHALL District: CAMERON  
Quad: MAJORSVILLE Pad Name: MARTINEZ Field/Pool Name:  
Farm name: MARTINEZ Well Number: 1H  
Operator (as registered with the OOG): TRANS ENERGY, INC.  
Address: P. O. BOX 393 City: ST. MARYS State: WV Zip: 26170

As Drilled Location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey.

Top hole	Northing	<u>4414696</u>	Easting	<u>540659</u>
Landing Point of curve	Northing	<u>4414579</u>	Easting	<u>540505</u>
Bottom hole	Northing	<u>4412602</u>	Easting	<u>540901</u>

Elevation (ft): 1,340' GL Type of Well: NEW Type of Report: FINAL

Permit Type: HORIZONTAL 6A Depth Type: SHALLOW

Type of Operation: DRILL

Well Type: GAS

Type of Completion: SINGLE Fluids Produced: GAS NGL and OIL

Drilled With: ROTARY

Drilling Media: MUD Intermediate hole: MUD

Production hole: MUD

Mud Type(s) and Additive(s) MUD TYPE - SYNTHETIC BASE DRILLING MUD

<b>ADDITIVES:</b>	Calcium Carbonate	Hydrated Lime	Synvert Synthetic 1-L	Citric Acid	Drispac Low Vis
	Calcium Chloride	Cedar Fiber	Bentonite	Sodium Bicarbonate	L-20C
	Synvert LEM	Rubber Crumb	Soda Ash, dense	Glycerine	Bioclear
	Synvert Synthetic WA-L	Cottonseed Hulls	Lignite	Desco	
	Barite	Synvert Synthetic 11-L	Aluminum Sterate	Caustic Soda Beads	

Date permit issued: 6/5/2012 Date drilling commenced: 6/24/2012 Date drilling ceased: 7/27/2012

Date completion activities began: 4/15/2013 Date completion activities ceased: 4/29/2013

Verbal plugging: N/A Date permission granted: N/A Granted by: N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug.

Fresh water depth (s) ft: 60', 200' Open mine(s) (Y/N) depths: N

Salt water depth(s) ft: N Void(s) encountered (Y/N) depths: N

Coal Depth(s) ft: 790' Cavern(s) encountered (Y/N) depths: N

Is coal being mined in area (Y/N) N

Received

FEB 14 2014

Reviewed by:

JR

AX 05/04/16

API:	<u>47-051-01545</u>	Farm Name:	<u>MARTINEZ</u>	Well Number:	<u>1H</u>
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CASING STINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) Provide details below.
Conductor	<u>30"</u>	<u>24"</u>	<u>80'</u>	<u>NEW</u>	<u>J-55 / 64</u>	<u>N/A</u>	<u>Y</u>
Surface	<u>26"</u>	<u>20"</u>	<u>300'</u>	<u>NEW</u>	<u>J-55 / 94</u>	<u>160'</u>	<u>Y</u>
Coal	<u>17 1/2"</u>	<u>13 3/8"</u>	<u>856'</u>	<u>NEW</u>	<u>J-55 / 54.5</u>	<u>200'</u>	<u>Y</u>
Intermediate 1	<u>12 1/4"</u>	<u>9 5/8"</u>	<u>2,968'</u>	<u>NEW</u>	<u>J-55 / 40</u>	<u>N/A</u>	<u>Y</u>
Intermediate 2							
Intermediate 3							
Production	<u>8 3/4"</u>	<u>5 1/2"</u>	<u>11,637'</u>	<u>NEW</u>	<u>P-110 / 20</u>	<u>N/A</u>	<u>Y</u>
Tubing							
Packer type and Depth Set							

Comment Details:

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							
Surface	<u>TYPE 1</u>	<u>125</u>	<u>14.8</u>	<u>1.25</u>	<u>168</u>	<u>CTS</u>	<u>8</u>
Coal	<u>TYPE 1</u>	<u>995</u>	<u>15.6</u>	<u>1.25</u>	<u>858</u>	<u>CTS</u>	<u>8</u>
Intermediate 1	<u>TYPE 1</u>	<u>1,115</u>	<u>15.6</u>	<u>1.26</u>	<u>1074</u>	<u>CTS</u>	<u>8</u>
Intermediate 2							
Intermediate 3							
Production	<u>POZ H CLASS H</u>	<u>2,375</u>	<u>13.5</u>	<u>1.18</u>	<u>3030</u>	<u>2500</u>	<u>10</u>
Tubing							

Drillers TD (ft): 11,654'      Loggers TD (ft): 69

Deepest formation penetrated: MARCELLUS      Plug back to (ft): N/A

Plug back procedure: N/A

Kick off depth (ft) 3,017'

Check all wireline logs run:  caliper     density     deviated/directional     induction  
 **NONE**     neutron     resistivity     gamma ray     temperature     sonic

Well cored? NO      Were cuttings collected? NO

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

FRESH WATER STRING - 1 CENTRALIZER EVERY 160'

INTERMEDIATE STRING - 1 CENTRALIZER EVERY 100' FROM 3,300' TO 900'

PRODUCTION STRING - 1 CENTRALIZER EVERY 80' FROM TD TO ABOVE ROP 7000'

WAS WELL COMPLETED AS SHOT HOLE? NO      DETAILS: Received

WAS WELL COMPLETED OPEN HOLE? NO      DETAILS: FEB 14 2014

WERE TRACERS USED? NO      TYPE OF TRACER(S) USED: N/A

Office of Oil and Gas  
WV Dept. of Environmental Protection

API:	47-051-01545	Farm Name:	MARTINEZ	Well Number:	1H
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**\*\*\* SEE ATTACHED WELLBORE DIAGRAM FOR SUMMARY OF CASING, STAGE AND PERF INTERVAL - 1 PAGE \*\*\***

**PERFORATION RECORD**

Stage No.	Perferated from MD ft.	Perferated to MD ft.	Number of Perferations	Formations

**\*\*\* SEE ATTACHED CONBINATION PERFORATION - STIMULATION REPORTS - 18 PAGES \*\*\***


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

**\*\*\* SEE ATTACHED CONBINATION PERFORATION - STIMULATION REPORTS - 18 PAGES \*\*\***


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**FEB 14 2014**

API:	47-051-01545	Farm Name:	MARTINEZ	Well Number:	1H
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PRODUCING FORMATION(S) MARCELLUS SHALE DEPTHS 6,989' TVD 11,607' MD

GAS TEST: N/A OIL TEST: N/A  
 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: <u>ESTIMATED</u>
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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, H2S, ETC)
MIDDLESEX	6667'	6,759'	6,768'	6,900'	
BURKETT	6759'	6,785'	6,900'	6,948'	
TULLY	6785'	6,817'	6,948'	7,004'	
MARCELLUS	6923'	-----	7,335'	-----	

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WV Dept. of Environmental Protection

Please insert additional pages as applicable.


**Submittal of Hydraulic Fracturing Chemical Disclosure Information:**  
**\*\*\* SEE TWO (2) PAGE ATTACHMENT LISTING ADDITIVES TO BE USED IN FRACTURING AND STIMULATIONS \*\*\***

Drilling Contractor: **NOMAC DRILLING LLC**  
 Address: **3400 S. RADIO ROAD** City: **EL RENO** State: **OK** Zip: **73036**

Logging Contractor: **N/A**  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ State \_\_\_\_\_ Zip: \_\_\_\_\_

Cementing Company: **BAKER HUGHES**  
 Address: **17015 ALDINE WESTFIELD ROAD** City: **HOUSTON** State **TX** Zip: **77073-5101**

Stimulating Company: **GO FRAC**  
 Address: **7000 CALMONT AVENUE, SUITE 310** City: **FORT WORTH** State **TX** Zip: **76116**

Completed by: Leslie A. Gearhart, Vice President of Operations Telephone: 304/684-7053  
 Signature:  DATE: 2-11-14

TRANS ENERGY, INC.  
 API 47-051-01545 MARTINEZ 1H  
 MARSHALL COUNTY, WEST VIRGINIA

**WELLBORE DIAGRAM**

WELL NAME: Martinez No. 1H DATE: 2/4/2013 PRESENT:      PROPOSED: X  
 AREA: WV API NO: 47-051-01545 FIELD: MARCELLUS  
 COUNTY: MARSHALL LOCATION:       
 TD: 11,654' GAS/OIL PURCH: CAMEN PREP BY: NICK STEINSBERGER  
 PBTD: 11,607' AZMUTH: 172 DEG SPUD DATE: 6/24/2013 COMPLETION DATE: 3/2013  
 TVD: 6989' INITIAL PROD. D:      RECOMPLETION DATE: N/A  
 PBTVD: 8989' KB:      GL:      TRANS ENERGY:      TRANS ENERGY NRI:       
 OPENHOLE LOGS: NONE CASED HOLE LOGS:     

SURFACE CASING						
DEPTH	SIZE	W GRADE	BIT SIZE	SACKS	TOC	FEET JOINTS
856'	13-3/8"	J-55	14-3/4"	995	SURF	

INTERMEDIATE CASING						
DEPTH	SIZE	W GRADE	BIT SIZE	SACKS	TOC	FEET JOINTS
2968'	9-5/8"	36# J-55	12-1/4"	1115	SURF	

INTERMEDIATE CASING						
DEPTH	SIZE	W GRADE	BIT SIZE	SACKS	TOC	FEET JOINTS

	PERF INTERVAL 1	PERF INTERVAL 2	PERF INTERVAL 3	PERF INTERVAL 4	PERF INTERVAL 5
STAGE 1	11,593 - 11,594' 9 HOLES	11,550 - 11,551' 9 HOLES	11,315 - 11,518' 8 HOLES	11,485 - 11,486' 8 HOLES	11,433 - 11,434' 7 HOLES
STAGE 2	11,407 - 11,408' 9 HOLES	11,308 - 11,309' 9 HOLES	11,335 - 11,336' 8 HOLES	11,317 - 11,318' 8 HOLES	11,286 - 11,287' 7 HOLES
STAGE 3	11,237 - 11,238' 9 HOLES	11,210 - 11,211' 9 HOLES	11,168 - 11,169' 8 HOLES	11,131 - 11,132' 8 HOLES	11,081 - 11,082' 7 HOLES
STAGE 4	11,035 - 11,036' 9 HOLES	11,004 - 11,005' 9 HOLES	10,976 - 10,978' 8 HOLES	10,938 - 10,939' 8 HOLES	10,915 - 10,916' 7 HOLES
STAGE 5	10,859 - 10,860' 9 HOLES	10,816 - 10,817' 9 HOLES	10,788 - 10,789' 8 HOLES	10,885 - 10,886' 8 HOLES	10,815 - 10,816' 7 HOLES
STAGE 6	10,570 - 10,571' 9 HOLES	10,535 - 10,536' 9 HOLES	10,495 - 10,496' 8 HOLES	10,464 - 10,465' 8 HOLES	10,403 - 10,404' 7 HOLES
STAGE 7	10,345 - 10,346' 9 HOLES	10,316 - 10,317' 9 HOLES	10,297 - 10,298' 8 HOLES	10,255 - 10,256' 8 HOLES	10,220 - 10,221' 7 HOLES
STAGE 8	10,155 - 10,156' 9 HOLES	10,105 - 10,106' 9 HOLES	10,050 - 10,051' 8 HOLES	10,012 - 10,013' 8 HOLES	9975 - 9976' 7 HOLES
STAGE 9	9915 - 9916' 9 HOLES	9857 - 9858' 9 HOLES	9827 - 9828' 8 HOLES	9773 - 9774' 8 HOLES	9746 - 9747' 7 HOLES
STAGE 10	9676 - 9677' 9 HOLES	9655 - 9656' 9 HOLES	9576 - 9577' 8 HOLES	9542 - 9543' 8 HOLES	9505 - 9506' 7 HOLES
STAGE 11	9460 - 9461' 9 HOLES	9418 - 9419' 9 HOLES	9385 - 9386' 8 HOLES	9332 - 9333' 8 HOLES	9290 - 9291' 7 HOLES
STAGE 12	9240 - 9241' 9 HOLES	9202 - 9203' 9 HOLES	9165 - 9166' 8 HOLES	9113 - 9114' 8 HOLES	9077 - 9078' 7 HOLES
STAGE 13	9017 - 9018' 9 HOLES	8960 - 8961' 9 HOLES	8932 - 8933' 8 HOLES	8891 - 8892' 8 HOLES	8847 - 8848' 7 HOLES
STAGE 14	8768 - 8769' 9 HOLES	8733 - 8734' 9 HOLES	8664 - 8665' 8 HOLES	8620 - 8621' 8 HOLES	8591 - 8592' 7 HOLES
STAGE 15	8532 - 8533' 9 HOLES	8505 - 8506' 9 HOLES	8466 - 8467' 8 HOLES	8421 - 8422' 8 HOLES	8372 - 8373' 7 HOLES
STAGE 16	8280 - 8281' 9 HOLES	8251 - 8252' 9 HOLES	8211 - 8212' 8 HOLES	8170 - 8171' 8 HOLES	8120 - 8121' 7 HOLES
STAGE 17	8025 - 8026' 9 HOLES	7981 - 7982' 9 HOLES	7943 - 7944' 8 HOLES	7895 - 7896' 8 HOLES	7810 - 7811' 7 HOLES
STAGE 18	7726 - 7727' 8 HOLES	7670 - 7671' 8 HOLES	7635 - 7636' 7 HOLES	7589 - 7570' 6 HOLES	7525 - 7526' 5 HOLES

MARKER JOINT @ 4983' Tully 6880'  
 Marcellus 6966'  
 Onondaga 7010'

KICK-OFF POINT AT 3017' HORIZONTAL @ 7555' AZMUTH 172 deg

PRODUCTION CASING							
DEPTH	SIZE	WT GRADE	CLASS	BIT SIZE	SACKS	TOC	JOINTS
11,637'	5-1/2"	20#	P-110	NEW	8-3/4"	2375	SURF 281

Received  
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 Office of Oil and Gas  
 WV Dept. of Environmental Protection

Perforating Report:

Well Name: MARTINEZ #1H Date of job: 2/7/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	11,593	to	11,594		9
2	11,550	to	11,551		9
3	11,515	to	11,516		8
4	11,485	to	11,486		8
5	11,433	to	11,434		7

POOH. Shoot guns-Spot 500 gals 7 1/2% HCL acid. SWIFN.

DC:

Frac Report:

Stage # 1

Well Name: MARTINEZ #1H

Date of Job: 4/7/2013

MIRU GoFrac

(name of Co)

Pumped: 1,325 bbls of Fluid &  
Pumped 500 bbls 10 lb gel.

26,000 # of sand

26,000 #100 mesh  
0 #40/70  
0 #20/40

Avg. Rate 34 bpm

Max Rate- 50 bpm

Avg. Pres: 6956 psi

Max Pressur 8978 psi

ISIP- 5535 psi

FG- 1.23 psi/ft

Final ISIP 6487 psi

FG- 1.36 psi/ft

DC:  
SWI- waiting on gel and flowback equipment

Received

FEB 14 2014

Well Name: MARTINEZ #1H Date of job: 4/8/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ no plug ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

1	11,407	to	11,408		9
2	11,380	to	11,381		9
3	11,335	to	11,336		8
4	11,317	to	11,318		8
5	11,286	to	11,287		7

POOH.

DC: \$

Frac Report:

Stage # 2

Well Name: MARTINEZ #1H

Date of Job: 4/8/2013

MIRU GoFrac

(name of Co)

Pumped: 8,834 bbls of Fluid &  
260 bbls for guns

319,810 # of sand

63,410 #100 mesh  
155,950 #40/70  
100,450 #20/40

Avg. Rate 59 bpm

Max Rate- 72 bpm

Avg. Pres: 7775 psi

Max Pressur 7775 psi

ISIP- 5446 psi

FG- 1.21 psi/ft

Final ISIP 4650 psi

FG- 1.10 psi/ft

DC:

**Received**

**FEB 14 2014**

Well Name: MARTINEZ #1H Date of job: 4/8/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 11,260 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	11,237	to	11,238		9
2	11,210	to	11,211		9
3	11,168	to	11,169		8
4	11,131	to	11,132		8
5	11,081	to	11,082		7

POOH.

DC: \$

Frac Report:

Stage # 3

Well Name: MARTINEZ #1H

Date of Job: 4/8/2013

MIRU GoFrac

(name of Co)

Pumped: 8,363 bbls of Fluid &  
216 to pump guns

389,640 # of sand

148,100 #100 mesh

174,700 #40/70

66,840 #20/40

Avg. Rate 63.1 bpm

Max Rate- 75.2 bpm

Avg. Pres: 7877 psi

Max Pressur 8562 psi

ISIP- 4810 psi

FG- 1.12 psi/ft

Final ISIP- psi

FG- psi/ft

DC:  
SD waiting on CT.

Received

FEB 14 2014



Well Name: MARTINEZ #1H Date of job: 4/10/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ no plug set ft.

Perforated as follows:

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	11,035	to	11,036		10
2	11,004	to	11,005		9
3	10,976	to	10,978		9
4	10,938	to	10,939		8
5	10,915	to	10,916		8

POOH.

All guns fired.

DC: \$

Frac Report:

Stage # 4

Well Name: MARTINEZ #1H

Date of Job: 4/10/2013

MIRU GoFrac

(name of Co)

Pumped: 8,110 bbls of Fluid &

319,130 # of sand

133,850 #100 mesh

162,720 #40/70

22,560 #20/40

Avg. Rate 60 bpm

Max Rate- 60 bpm

Avg. Pres: 7765 psi

Max Pressur 9068 psi

ISIP- 5357 psi

FG- 1.20 psi/ft

Final ISIP 4835 psi

FG- 1.13 psi/ft

DC:

Received

FEB 14 2014

Perforating Report:

Well Name: MARTINEZ #1H Date of job: 4/11/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 10,888 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	10,859	to	10,860		9
2	10,816	to	10,817		9
3	10,788	to	10,789		8
4	10,665	to	10,666		8
5	10,615	to	10,616		7

POOH.

DC: \$

Frac Report:

Stage # 5

Well Name: MARTINEZ #1H

Date of Job: 4/11/2013

MIRU GoFrac

(name of Co)

Pumped: 8,281 bbls of Fluid &

360,290 # of sand

156,190 #100 mesh

161,730 #40/70

42,370 #20/40

Avg. Rate 64.2 bpm

Max Rate- 70.4 bpm

Avg. Pres: 7821 psi

Max Pressur 8598 psi

ISIP- 5357 psi

FG- 1.20 psi/ft

Final ISIP 4438 psi

FG- 1.07 psi/ft

DC:

**Received**

**FEB 14 2014**

Perforating Report:

Well Name: MARTINEZ #1H Date of job: 4/12/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 10,590 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

1	10,570	to	10,571		9
2	10,535	to	10,536		9
3	10,495	to	10,496		8
4	10,464	to	10,465		8
5	10,403	to	10,404		7

POOH.

DC: \$

Frac Report:

Stage # 6

Well Name: MARTINEZ #1H

Date of Job: 4/12/2013

MIRU GoFrac

(name of Co)

Pumped: 8,430 bbls of Fluid &  
205 bbls to pump guns

# of sand

158,380 #100 mesh  
155,950 #40/70  
41,170 #20/40

Avg. Rate 67.6 bpm

Max Rate- 75.8 bpm

Avg. Pres: 7884 psi

Max Pressur 9169 psi

ISIP- 5232 psi

FG- 1.18 psi/ft

Final ISIP 4858 psi

FG- 1.13 psi/ft

DC:

**Received**

**FEB 14 2014**

Well Name: MARTINEZ #1H Date of job: 4/12/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 10,370 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	10,345	to	10,346		9
2	10,316	to	10,317		9
3	10,297	to	10,298		8
4	10,255	to	10,256		8
5	10,220	to	10,221		7

POOH.

DC: \$

Frac Report:

Stage # 7

Well Name: MARTINEZ #1H

Date of Job: 4/12/2013

MIRU GoFrac

(name of Co)

Pumped: 8,225 bbls of Fluid &  
174 bbls to pump guns

366,240 # of sand

158,710 #100 mesh

162,350 #40/70

45,180 #20/40

Avg. Rate 67.8 bpm

Max Rate- 77.6 bpm

Avg. Pres: 7638 psi

Max Pressur 8085 psi

ISIP- 5366 psi

FG- 1.20 psi/ft

Final ISIP 4907 psi

FG- 1.14 psi/ft

DC:

**Received**

**FEB 14 2014**

Perforating Report:

Well Name: MARTINEZ #1H Date of job: 4/12/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 10,190 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	10,155	to	10,156		9
2	10,105	to	10,106		9
3	10,050	to	10,051		8
4	10,012	to	10,013		8
5	9,975	to	9,976		7

POOH.

DC: \$

Frac Report: Stage # 8

Well Name: MARTINEZ #1H Date of Job: 4/12.2013

MIRU GoFrac (name of Co)

Pumped: 8,223 bbls of Fluid & 363,000 # of sand  
161 bbls to pump guns

156,920 #100 mesh  
163,030 #40/70  
43,050 #20/40

Avg. Rate 67.2 bpm Max Rate- 75.4 bpm

Avg. Pres: 7850 psi Max Pressur 8792 psi

ISIP- 5366 psi FG- 1.20 psi/ft

Final ISIP 4298 psi FG- 1.05 psi/ft

DC:

**Received**

**FEB 14 2014**

Well Name: MARTINEZ #1H Date of job: 4/13/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 9,940 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

1	9,915	to	9,916		9
2	9,857	to	9,858		9
3	9,827	to	9,828		8
4	9,773	to	9,774		8
5	9,746	to	9,747		7

POOH.

DC: \$

Frac Report: Stage # 9

Well Name: MARTINEZ #1H Date of Job: 4/13/2013

MIRU GoFrac (name of Co)

Pumped: 8,264 bbls of Fluid & 365,320 # of sand  
159 bbls to pump guns

158,020 #100 mesh  
162,830 #40/70  
44,470 #20/40

Avg. Rate 65.6 bpm Max Rate- 75.6 bpm

Avg. Pres: 7522 psi Max Pressur 8685 psi

ISIP- 5242 psi FG- 1.18 psi/ft

Final ISIP 4404 psi FG- 1.06 psi/ft

DC:

Received

FEB 14 2014

Well Name: MARTINEZ #1H Date of job: 4/13/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 9,700 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	9,676	to	9,677		9
2	9,655	to	9,656		9
3	9,576	to	9,577		8
4	9,542	to	9,543		8
5	9,505	to	9,506		7

POOH.

DC: \$

Frac Report: Stage # 10

Well Name: MARTINEZ #1H Date of Job: 4/13/2013

MIRU GoFrac (name of Co)

Pumped: 8,439 bbls of Fluid & 198,170 # of sand

123,600 #100 mesh  
74,570 #40/70  
0 #20/40

Avg. Rate 53.5 bpm Max Rate- 56.5 bpm

Avg. Pres: 7838 psi Max Pressur 8814 psi

ISIP- 5367 psi FG- 1.20 psi/ft

Final ISIP 5772 psi FG- 1.20 psi/ft

**Received**

**FEB 14 2014**

Office of Oil and Gas  
WV Dept. of Environmental Protection

DC:

High Pressure line broke, flushed and SD Was pumping 100 mesh when blender went down, flushed, SD. Got to 1.5 of 40/70 when pressures caused us to flush and SD. Zone was treating very high from the start. Getting ready to pump stage 11 when wireline crane truck would not start. Waiting on parts.

Well Name: MARTINEZ #1H Date of job: 4/14/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 9,481 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	9,460	to	9,461		9
2	9,418	to	9,419		9
3	9,385	to	9,386		8
4	9,332	to	9,333		8
5	9,290	to	9,291		7

POOH.

DC: \$

Frac Report: Stage # 11

Well Name: MARTINEZ #1H Date of Job: 4/14/2013

MIRU GoFrac (name of Co)

Pumped: 8,270 bbls of Fluid & 357,670 # of sand  
151 bbls to pump guns

152,520 #100 mesh  
161,900 #40/70  
43,250 #20/40

Avg. Rate 63.5 bpm Max Rate- 73.1 bpm

Avg. Pres: 7692 psi Max Pressur 8667 psi

ISIP- 5674 psi FG- 1.25 psi/ft

Final ISIP 4450 psi FG- 1.07 psi/ft

DC:

All equipment repaired.

**Received**

**FEB 14 2014**

Office of Oil and Gas  
WV Dept. of Environmental Protection



Perforating Report:

Well Name: MARTINEZ #1H Date of job: 4/14/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 9,264 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

1	9,240	to	9,241		9
2	9,202	to	9,203		9
3	9,165	to	9,166		8
4	9,113	to	9,114		8
5	9,077	to	9,078		7

POOH.

DC: \$

Frac Report: Stage # 12

Well Name: MARTINEZ #1H Date of Job: 4/14/2013

MIRU GoFrac (name of Co)

Pumped: 8,226 bbls of Fluid & 361,110 # of sand  
 116 bbls to pump guns

155,230 #100 mesh  
 162,750 #40/70  
 43,130 #20/40

Avg. Rate 65.7 bpm Max Rate- 75.7 bpm

Avg. Pres: 7481 psi Max Pressur 8292 psi

ISIP- 5431 psi FG- 1.21 psi/ft

Final ISIP 5266 psi FG- 1.19 psi/ft

DC:

**Received**

**FEB 14 2014**

Perforating Report:

Well Name: MARTINEZ #1H Date of job: 4/14/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 9,046 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

1	9,017	to	9,018		9
2	8,960	to	8,961		9
3	8,932	to	8,933		8
4	8,891	to	8,892		8
5	8,847	to	8,848		7

POOH.

DC: \$

Frac Report: Stage # 13

Well Name: MARTINEZ #1H Date of Job: 4/13/2013

MIRU GoFrac (name of Co)

Pumped: 8,132 bbls of Fluid & 366,500 # of sand  
101 bbls to pump guns

158,280 #100 mesh  
161,900 #40/70  
46,320 #20/40

Avg. Rate 69.2 bpm Max Rate- 79.7 bpm

Avg. Pres: 7531 psi Max Pressur 8614 psi

ISIP- 5293 psi FG- 1.19 psi/ft

Final ISIP 4877 psi FG- 1.13 psi/ft

DC:

**Received**

**FEB 14 2014**

Well Name: MARTINEZ #1H Date of job: 4/15/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 8,806 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	8,768	to	8,769		9
2	8,733	to	8,734		9
3	8,664	to	8,665		8
4	8,620	to	8,621		8
5	8,591	to	8,592		7

POOH.

DC: \$

Frac Report: Stage # 14

Well Name: MARTINEZ #1H Date of Job: 4/15/2013

MIRU GoFrac (name of Co)

Pumped: 8,134 bbls of Fluid & 368,990 # of sand  
88 bbls to pump guns

157,170 #100 mesh  
161,590 #40/70  
50,230 #20/40

Avg. Rate 65.5 bpm Max Rate- 77.9 bpm

Avg. Pres: 7692 psi Max Pressur 8498 psi

ISIP- 5094 psi FG- 1.16 psi/ft

Final ISIP 4395 psi FG- 1.06 psi/ft

DC:

**Received**

**FEB 14 2014**

Well Name: MARTINEZ #1H Date of job: 4/15/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 8,560 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	8,532	to	8,533		9
2	8,505	to	8,506		9
3	8,466	to	8,467		8
4	8,421	to	8,422		8
5	8,372	to	8,373		7

POOH.

DC: \$

Frac Report: Stage # 15

Well Name: MARTINEZ #1H Date of Job: 4/15/2013

MIRU GoFrac (name of Co)

Pumped: 8,114 bbls of Fluid & 368,870 # of sand

158,140 #100 mesh  
161,010 #40/70  
49,720 #20/40

Avg. Rate 60.5 bpm Max Rate- 71.3 bpm

Avg. Pres: 7653 psi Max Pressur 8793 psi

ISIP- 5344 psi FG- 1.20 psi/ft

Final ISIP 4992 psi FG- 1.15 psi/ft

DC:

Received

FEB 14 2014

Well Name: MARTINEZ #1H Date of job: 4/15/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 8,315 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

1	8,280	to	8,281		9
2	8,251	to	8,252		9
3	8,211	to	8,212		8
4	8,170	to	8,171		8
5	8,120	to	8,121		7

POOH.

DC: \$

Frac Report: Stage # 16

Well Name: MARTINEZ #1H Date of Job: 4/15/2013

MIRU GoFrac (name of Co)

Pumped: 8,166 bbls of Fluid & 374,460 # of sand

160,540 #100 mesh

163,790 #40/70

50,130 #20/40

Avg. Rate 65.2 bpm Max Rate- 77 bpm

Avg. Pres: 7472 psi Max Pressur 8805 psi

ISIP- 5418 psi FG- 1.21 psi/ft

Final ISIP 4669 psi FG- 1.10 psi/ft

DC:

Received

FEB 14 2014

Well Name: MARTINEZ #1H Date of job: 4/15/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 8,050 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

1	8,025	to	8,026		9
2	7,981	to	7,982		9
3	7,943	to	7,944		8
4	7,895	to	7,896		8
5	7,810	to	7,811		7

POOH.

DC: \$

Frac Report:

Stage # 17

Well Name: MARTINEZ #1H

Date of Job: 4/15/2013

MIRU GoFrac

(name of Co)

Pumped: 8,103 bbls of Fluid &

404,640 # of sand

169,820 #100 mesh

184,480 #40/70

50,340 #20/40

Avg. Rate 65.6 bpm

Max Rate- 77.3 bpm

Avg. Pres: 7452 psi

Max Pressur 8342 psi

ISIP- 5267 psi

FG- 1.19 psi/ft

Final ISIP 4539 psi

FG- 1.08 psi/ft

DC:

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**FEB 14 2014**

Well Name: MARTINEZ #1H Date of job: 4/15/2013

MIRU Horizontal Wireline Services (Co. Name) RIH W/:

(kind of plug) Set plug @ 7,756 ft.

Perforated as follows: Perf Depth to Perf Depth Charge # of Holes

	Perf Depth	to	Perf Depth	Charge	# of Holes
1	7,726	to	7,727		8
2	7,670	to	7,671		8
3	7,635	to	7,636		7
4	7,569	to	7,570		6
5	7,525	to	7,526		5

POOH.

DC: \$

Frac Report:

Stage # 18

Well Name: MARTINEZ #1H

Date of Job: 4/15/2013

MIRU GoFrac

(name of Co)

Pumped: 7,575 bbls of Fluid &

373,990 # of sand

178,820 #100 mesh

138,900 #40/70

56,270 #20/40

Avg. Rate 63.2 bpm

Max Rate- 70.8 bpm

Avg. Pres: 7478 psi

Max Pressur 8205 psi

ISIP- 5494 psi

FG- 1.22 psi/ft

Final ISIP 4388 psi

FG- 1.06 psi/ft

DC:

**Received**

**FEB 14 2014**

**ADDITIVES TO BE USED IN  
FRACTURING OR STIMULATIONS**

Product Name	Product Use	Chemical Name	CAS Number
ALPHA 1427	Biocide	Didecyl Dimethyl Ammonium Chloride	007173-51-1
		Ethanol	000064-17-5
		Glutaraldehyde (Pentanediol)	000111-30-8
		Quaternary Ammonium Compound	068424-85-1
		Water	007732-18-5
BF-7L	Buffer	Potassium Carbonate	000584-08-7
ClayCare	Clay Stabilizer	Choline Chloride	000067-48-1
		Water	007732-18-5
Enzyme G-1	Breaker	No Hazardous Components	NONE
ENZYME G-NE	Breaker	No Hazardous Components	NONE
FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
GW-3LDF	Gel	Petroleum Distillate Blend	N/A-014
		Polysaccharide Blend	N/A-021
SCALETROL 720	Scale Inhibitor	Diethylene Glycol	000111-46-6
		Ethylene Glycol	000107-21-1
XLW-32	Crosslinker	Boric Acid	010043-35-3
		Methanol (Methyl Alcohol)	000067-56-1
APB01 (AMMONIUM PERSULFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7
BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE
FRW-200	Friction Reducer	No Hazardous Components	NONE
HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8
KCLS-4	Clay Stabilizer	No Hazardous Components	NONE
LTB-1	Breaker	Ammonium Persulfate	N/A
		Ethanol	000064-17-5

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**ADDITIVES TO BE USED IN  
FRACTURING OR STIMULATIONS**

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EC6110A	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8
		Quaternary Ammonium Compounds	N/A-063
EC6629A	Biocide	No Hazardous Components	NONE
WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
WBK-134	Breaker	Ammonium Persulfate	007727-54-0
		Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
		Water	007732-18-5
WFR-55LA	Friction Reducer	No Hazardous Components	NONE
WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WPB-584-L	Buffer	Potassium Carbonate	000584-08-7
		Potassium Hydroxide	001310-58-3
WXL-101LE	Crosslinker	No Hazardous Components	NONE
WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
WXL-105L	Crosslinker	Water	007732-18-5
		Ethylene Glycol	000107-21-1
		Boric Acid	010043-35-3
		Ethanolamine	000141-43-5
B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
Breaker J218	Breaker	Diammonium Peroxidissulphate	7727-54-0
EB-Clean* J475 Breaker		Diammonium Peroxidissulphate	7727-54-0
Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
Friction Reducer J609		Ammonium Sulfate	7783-20-2
Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary
Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303 96-4
Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310 58-3

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