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



API 47 - 061 - 01656 County Monongalia District Clay  
Quad Blacksville Pad Name Statler Field/Pool Name \_\_\_\_\_  
Farm name Statler Well Number 6H  
Operator (as registered with the OOG) Northeast Natural Energy LLC  
Address 707 Virginia Street East, Suite 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4395639.9 Easting 570444.7  
Landing Point of Curve Northing 4395355.5 Easting 570244.5  
Bottom Hole Northing 4393669.2 Easting 571624.6

Elevation (ft) 1,061' 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)  
Synthetic Oil Based

Date permit issued 4/12/2013, Modified 6/19/2013 Date drilling commenced 8/17/2013 Date drilling ceased 11/12/2013  
Date completion activities began 12/1/2013 Date completion activities ceased 12/19/2013  
Verbal plugging (Y/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 915' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1950' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft N/A Cavern(s) encountered (Y/N) depths N/A  
Is coal being mined in area (Y/N) N

Reviewed by:

01/16/2015

API 47-061 - 01656 Farm name Statler Well number 6H

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	-	20"	59'	New	N/A	-	-
Surface	17 1/2"	13 3/8"	1,032'	New	J-55	-	Y
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2,234'	New	J-55	-	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	8 3/4"	5 1/2"	15,411'	New	P-110	-	Y
Tubing	-	2 7/8"	8,147'	New	P-110	-	-
Packer type and depth set							

Comment Details Cement Returns to Surface: Surface - 37 bbl, Intermediate - 27 bbl, Production - 5 bbl

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	Grout	-	-	-	-	-	-
Surface	Pre-NE-1 3% CaCl	765	15.2	1.28	979.2	0	8
Coal	-	-	-	-	-	-	-
Intermediate 1	Type 1 .5%EC1 1/4#Flake...	730	15.2	1.26	919.8	0	8
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	50/50 Type 1 .3%OD-32...	3,131	14.5	1.18	3694.6	0	Until Completion
Tubing	-	-	-	-	-	-	-

Drillers TD (ft) 15,420 Loggers TD (ft) 15,420

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

Plug back procedure N/A

Kick off depth (ft) 5,825

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 String: Bow Spring Centralizers located every 3rd joint or ≈120' from TD to Surface

Intermediate String: Bow Spring Centralizers located every 3rd joint or ≈120' from TD to Surface

Production String: Hard-Bodied Spiral Centralizers located every 4th joint or ≈150' from TD to Surface

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS N/A

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS N/A

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED N/A

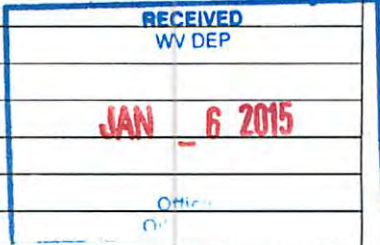




API 47- 061 - 01656 Farm name Statler Well number 6H

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. Please see page 5.

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 insert additional pages as applicable. Please see page 6.

API 47- 061 - 01656 Farm name Statler Well number 6H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	7,895'	TVD 8,408' MD

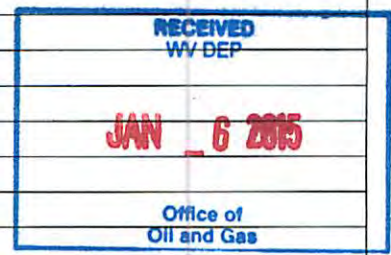
Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 4,430 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 6,132 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd  
 GAS MEASURED BY  Estimated  Orifice  Pilot

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



Please insert additional pages as applicable. Please see page 7.

Drilling Contractor Pioneer Energy Services  
 Address 1083 N. 88 Road City Rices Landing State PA Zip 15357

Logging Company Baker Hughes  
 Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Cementing Company Baker Hughes  
 Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Stimulating Company FTSI  
 Address 1432 Route 519 City Eighty Four State PA Zip 15330

Please insert additional pages as applicable. Please see page 8.

Completed by Zachary Arnold Telephone 304-241-5750  
 Signature [Signature] Title General Manager - Operations Date 1/6/15

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Perforation Record					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations(s)
1	12/1/2013	15,183	15,373	40	Marcellus
2	12/1/2013	14,933	15,123	40	Marcellus
3	12/2/2013	14,683	14,873	40	Marcellus
4	12/2/2013	14,433	14,623	40	Marcellus
5	12/3/2013	14,183	14,373	40	Marcellus
6	12/3/2013	13,933	14,123	40	Marcellus
7	12/3/2013	13,683	13,873	40	Marcellus
8	12/4/2013	13,433	13,623	40	Marcellus
9	12/5/2013	13,183	13,373	40	Marcellus
10	12/5/2013	12,933	13,123	40	Marcellus
11	12/6/2013	12,683	12,873	40	Marcellus
12	12/6/2013	12,433	12,623	40	Marcellus
13	12/8/2014	12,183	12,373	40	Marcellus
14	12/9/2013	11,933	12,123	40	Marcellus
15	12/9/2013	11,683	11,873	40	Marcellus
16	12/10/2013	11,433	11,623	40	Marcellus
17	12/10/2013	11,183	11,373	40	Marcellus
18	12/14/2013	10,933	11,123	40	Marcellus
19	12/15/2013	10,683	10,873	40	Marcellus
20	12/15/2013	10,433	10,623	40	Marcellus
21	12/16/2013	10,183	10,373	40	Marcellus
22	12/17/2013	9,933	10,123	40	Marcellus
23	12/17/2013	9,683	9,873	40	Marcellus
24	12/17/2013	9,433	9,623	40	Marcellus
25	12/18/2013	9,183	9,373	40	Marcellus
26	12/18/2013	8,933	9,123	40	Marcellus
27	12/19/2013	8,683	8,873	40	Marcellus
28	12/19/2013	8,433	8,623	40	Marcellus
29	12/19/2013	8,183	8,373	40	Marcellus

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Stimulation Information per Stage								
Stage No.	Stimulations Date	Average Pump Rate (BPM)	Average Treatment Pressure (psi)	Max Breakdown Pressure	ISIP (psi)	Amount of Prppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other
1	12/1/2013	70	8,629	8,917	6,486	403,494	7,396	-
2	12/1/2013	72	8,806	9,166	6,306	398,171	7,347	-
3	12/2/2013	69	8,969	9,326	6,466	339,556	6,730	-
4	12/2/2013	80	8,861	9,442	6,066	349,251	6,735	-
5	12/3/2013	80	8,768	9,152	6,826	397,698	6,984	-
6	12/3/2013	83	8,778	9,207	6,444	360,087	6,960	-
7	12/3/2013	83	8,747	9,198	6,329	394,968	6,811	-
8	12/4/2013	82	8,778	9,237	6,797	398,192	7,220	-
9	12/5/2013	83	8,703	9,227	6,611	397,793	7,089	-
10	12/5/2013	84	8,841	9,192	6,496	395,420	6,765	-
11	12/6/2013	82	8,839	9,172	6,779	400,775	6,927	-
12	12/6/2013	84	8,721	9,203	6,182	395,976	6,953	-
13	12/8/2014	81	8,703	9,226	6,650	399,097	6,966	-
14	12/9/2013	81	8,874	9,147	6,887	399,525	6,868	-
15	12/9/2013	82	8,972	9,328	5,903	391,514	6,546	-
16	12/10/2013	86	8,869	9,144	6,051	402,255	6,859	-
17	12/10/2013	87	8,860	9,277	6,472	401,142	6,887	-
18	12/14/2013	83	8,823	9,047	6,425	395,430	6,770	-
19	12/15/2013	89	8,660	9,302	6,292	370,472	6,563	-
20	12/15/2013	81	8,667	9,198	6,682	402,297	6,857	-
21	12/16/2013	82	8,317	9,118	6,876	400,449	6,766	-
22	12/17/2013	83	8,600	9,296	6,899	401,384	6,717	-
23	12/17/2013	84	8,263	9,141	7,107	402,749	6,955	-
24	12/17/2013	88	8,194	8,996	6,003	405,374	6,684	-
25	12/18/2013	81	8,425	8,958	5,450	405,699	6,837	-
26	12/18/2013	84	8,520	8,992	6,102	404,712	6,733	-
27	12/19/2013	88	8,389	9,325	6,155	403,368	7,062	-
28	12/19/2013	76	8,093	8,954	6,183	397,394	6,737	-
29	12/19/2013	78	8,013	8,832	5,810	374,472	5,820	-

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Litholgy/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)
Sand and Shale	0	650	0	650	
Coal	650	660	650	660	
Sand and Shale	660	1,560	660	1,560	
Salt Sand	1,560	1,778	1,560	1,778	
Sand and Shale	1,778	1,942	1,778	1,942	
Maxon	1,942	2,002	1,942	2,002	
Lime	2,002	2,103	2,002	2,103	
Big Injun	2,103	2,160	2,103	2,160	
Sand and Shale	2,160	7,415	2,160	7,536	
Burkett	7,415	7,641	7,536	7,776	
Tully	7,641	7,699	7,776	7,841	
Hamilton	7,699	7,803	7,841	7,962	
Marcellus	7,803	TD	7,962	15,420	

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**Drilling Contractor**

**Top Hole:**

Performance Drilling, LLC.  
1244 Martins Branch Road  
Charleston, WV 25312

**Horizontal:**

Pioneer Energy Services  
1083 N. 88 Road  
Rices Landing, PA 15357

**Logging Company**

Baker Hughes  
837 Philippi Pike  
Clarksburg, WV 26301

**Cementing Company**

Baker Hughes  
837 Philippi Pike  
Clarksburg, WV 26301

**Stimulating Company**

FTSI  
1432 Route 519  
Eighty Four, PA 15330

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**CEMENT JOB REPORT**



<b>CUSTOMER</b> NORTHEAST NATURAL ENER	<b>DATE</b> 18-AUG-13	<b>F.R.#</b> 10011008852	<b>SERV. SUPV.</b> David L Hoskinson
<b>LEASE &amp; WELL NAME</b> STATLER 60H - API 4706 ID16580000	<b>LOCATION</b> FAIRVIEW-STATLER RUN		<b>COUNTY-PARISH-BLOCK</b> Monongalia West Virginia
<b>DISTRICT</b> Clarksburg	<b>DRILLING CONTRACTOR RIG #</b> PERFORMANCE RIG 1		<b>TYPE OF JOB</b> Surface

<b>SIZE &amp; TYPE OF PLUGS</b>	<b>LIST-CSG HARDWARE</b>	<b>MECHANICAL BARRIERS</b>	<b>MD</b>	<b>TVD</b>	<b>HANGER TYPES</b>	<b>MD</b>	<b>TVD</b>
BJ Cement Plug, Rubber, Top 13-3/8"	Guide Shoe, Cement Nose 13-3/8 I						
	Float Collar, AI Flap, 13-3/8 - 8rd						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		BACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPM	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
H2O		0	9	0	0	00:00	116	
6% GEL W/FLAKE AND FED SEAL		700	8.6	0	0	00:00	35	
H2O		0	8.34	0	0	00:00	16	
PNE-1 + 3% CACL	1	775	16.2	1.27	5.77	03:00	175.2	108.41
H2O		0	9	0	0	00:00	151.7	
200# SUGAR ON SIDE		200	0	0	0	00:00	0	
80# FED SEAL ON SIDE		80	0	0	0	00:00	0	
25# FLAKE ON SIDE		25	0	0	0	00:00	0	
13 3/8" TRP ON SIDE		1	0	0	0	00:00	0	
Available Mix Water	500	Bbl.	Available Displ. Fluid	500	Bbl.	<b>TOTAL</b>	491.9	108.41

<b>HOLE</b>			<b>TBG CSG D.P.</b>						<b>COLLAR DEPTHS</b>			
SIZE	% EXCESS	DEPTH	ID	OD	WGT	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
17.6	30	1054	12.62	13.38	64.5	CSG	1028	1028	J-55	1028	881	0

<b>LAST CASING</b>				<b>PKR. CNT RET. BR PL. LINER</b>				<b>PERF. DPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>	
ID	OD	WGT	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT
19	20	79	CSG	40	40	NO PACKER	0	0	0	13.375	8RD	OTHER	0

<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>
VOLUME	UOM	TYPE	WGT	BUMP PLUG	TO REV	SG. PSI	RATED	Operator	RATED	Operator	
161.3	BBL8	H2O	9	345	0	0	0	0	2184	700	TANK

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

TIME HR:MIN.	PRESSURE/RATE DETAIL				FLUID TYPE	EXPLANATION
	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED		
	PIPE	ANNULUS				
17:45	0	0	0	0	0	ON LOCATION 8-18-13
20:00	0	0	0	0	0	PRE RIG IN MEETING
21:15	0	0	0	0	0	PRE JOB SAFETY MEETING
21:41	75	0	7.2	6	H2O	LINE FILL
21:45	0	0	0	0	H2O	TEST LINES TO 2000 PSI
21:46	110	0	6.6	116	H2O	AHEAD
22:03	83	0	4.8	35	FLUSH	6% GEL W/FLAKE AND FED SEAL
22:12	80	0	5.4	15	H2O	SPACER
22:14	160	0	5.4	179	SLURRY	PNE-1 + 3% CACL
22:49	0	0	0	0	0	S/D R/P
22:49	100	0	6	0	H2O	START DISP.
23:21	715	0	0	162.4	H2O	PLUG DOWN
23:23	0	0	0	0	0	BLEED OFF/FLOAT HELD
23:30	0	0	0	0	0	PRE RIG OUT MEETING

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**CEMENT JOB REPORT**



PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	2000 PSI
23:40	0	0	0	0	0	CIRCULATING WELL - RIG	BJ
						WASH OUT STACK AND FLOW LINE	
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL CMT RETURNS/ REVERSED	TOTAL BBL PUMPED	PSI LEFT ON OBG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	415	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	37	498	0	Y <input type="checkbox"/> N	<i>[Signature]</i>

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**CEMENT JOB REPORT**



CUSTOMER <b>NORTHEAST NATURAL ENER</b>	DATE <b>21-AUG-13</b>	F.R.# <b>10011009200</b>	SERV. SUPV. <b>Robert J Hill</b>
LEASE & WELL NAME <b>STATLER 6H - API 47061Q16560000</b>	LOCATION <b>CLAY</b>		COUNTY-PARISH-BLOCK <b>Monongalia West Virginia</b>
DISTRICT <b>Clarksburg</b>	DRILLING CONTRACTOR RIG# <b>PERFORMANCE DRILLING</b>		TYPE OF JOB <b>Intermediate</b>

SIZE & TYPE OF PLUGS <b>BJ Cement Plug, Rubber, Top 9-5/8</b>	LIST CSG HARDWARE <b>Guide Shoe, Cement Noso, 9-5/8 I</b>	MECHANICAL BARRIERS <b>MD TVD</b>	HANGER TYPES <b>MD TVD</b>
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MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES						
		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
<b>GEL PILL + LCM</b>			8.4				35	
<b>H2O</b>			8.34				10	
<b>TYPE 1.5%EO1 1/4#FLAKE .6%SMS .5%BA10A</b>		730	15.2	1.25	6.74	04:00	184	99.88
<b>H2O</b>			8.34				188.7	
<b>SUGAR</b>		200	11.8				5	
Available Mix Water <b>500</b> Bbl. Available Displ. Fluid <b>500</b> Bbl.		<b>TOTAL</b>				<b>392.7</b>		<b>99.88</b>

HOLE										TBO CSG D.P.										COLLAR DEPTHS									
SIZE	% EXCESS	DEPTH	ID	OD	WGT	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE	ID	OD	WGT	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE							
12.25	0	2255	8.921	9.625	36	CSG	2220		J-55	2220		2182																	

LAST CASING					PKR CNT RET BR PL LNER					PERF. DRPTH			TOP CONN			WELL FLUID		
ID	OD	WGT	TYPE	MO	TVD	BRAND	TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT	TYPE	WGT		
13	13.38	55	CSG	1023	1023	NO PACKER		0	0	0	9.625	BRND	OTHER	0				

DISPL. VOLUME		DISPL. FLUID		CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBO PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT	BUMP PLUG	TO REV.	SO. PSI	RATED	Operator	RATED	Operator	RATED	Operator	RATED	TANKS
168.7	BBLs	H2O	8.34	793	0	0	0	0	0	0	0	2816	800	TANKS

**EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: RUNNING CASING**

PRESSURE/RATE DETAIL							EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>		
	PIPE	ANKULUB				TEST LINES 2500 PSI		
17:30	0	0	0	0		CIRCULATING WELL - RIG BJ <input checked="" type="checkbox"/>		
21:30	0	0	0	0		ARRIVE AT LOCATION 8-21-13		
21:55	0	0	0	0		PRE RIG IN SAFETY MEETING		
22:08	0	0	0	0		PRE JOB SAFETY MEETING		
22:10	105	0	5.7	140	H2O	PSI TEST LINES		
22:31	105	0	5	35	GEL	H2O AHEAD		
22:39	140	0	5	10	H2O	GEL PILL + LCM		
22:41	215	0	5	184	SLURRY	SPACER		
23:17	310	0	6.6	1	H2O	BEGIN SLURRY		
23:47	1205	0	0	170	H2O	BEGIN DISP		
00:00	0	0	0	0		SHUT DOWN PLUG DOWN FLOAT HELD		
00:35	0	0	0	0		POST JOB SAFETY MEETING		
						PRE RIG OUT SAFETY MEETING		

<input checked="" type="checkbox"/> BUMPED PLUG	<input checked="" type="checkbox"/> PSI TO BUMP PLUG	<input checked="" type="checkbox"/> TEST FLOAT EQUIP.	<input checked="" type="checkbox"/> BBL CNT RETURNS/ REVERSED	TOTAL BBL PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N	518	0	Y <input checked="" type="checkbox"/> N	

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01/16/2015

61-01656

**CEMENT JOB REPORT**



<b>CUSTOMER</b> NORTHEAST NATURAL ENER		<b>DATE</b> 11-OCT-13		<b>F.R. #</b> 10011018355		<b>SERV. SUPV.</b> David L. Hoskinson							
<b>LEASE &amp; WELL NAME</b> STATLER #6H - API 47061016560000		<b>LOCATION</b> BLACKSVILLE		<b>COUNTY-PARISH-BLOCK</b> Monongalia West Virginia									
<b>DISTRICT</b> Clerksburg		<b>DRILLING CONTRACTOR RIG #</b> PIONEER 69 RIG		<b>TYPE OF JOB</b> Long String									
<b>SIZE &amp; TYPE OF PLUGS</b>		<b>LIST-CSG-HARDWARE</b>		<b>MECHANICAL BARRIERS</b>		<b>MD</b>	<b>TVD</b>	<b>HANGER TYPES</b>	<b>MD</b>	<b>TVD</b>			
Cement Plug, Rubber, Top 5-1/2 In		Guide Shoe, Cement Nose, 6-1/2 In											
		Float Collar, AI Flap, 6-1/2 - 8rd											
<b>PHYSICAL SLURRY PROPERTIES</b>													
<b>MATERIALS FURNISHED BY BJ</b>				<b>LAB REPORT NO.</b>		<b>BACKS OF CEMENT</b>	<b>SLURRY WGT PPG</b>	<b>SLURRY YLD FT</b>	<b>WATER OPS</b>	<b>PUMP TIME HR:MIN</b>	<b>Bbl SLURRY</b>	<b>Bbl MIX WATER</b>	
ULTRA FLUSH HV SYSTEM						0	14	0	0	00:00	100		
60/50 TYPE I .3%OD-32 1%FL-62.15%ASA-301 .175%						3,131	14.6	1.18	5.1	06:00	658	380.19	
H2O						0	8.34	0	0	00:00	342		
300# SUGAR ON SIDE						300	0	0	0	00:00	0		
6 1/2' TRP ON SIDE						1	0	0	0	00:00	0		
Available Mix Water		500 Bbl.		Available Displ. Fluid		500 Bbl.		<b>TOTAL</b>		1100	380.19		
<b>HOLE</b>				<b>TBG-CSG-D.P.</b>				<b>COLLAR DEPTHS</b>					
<b>SIZE</b>	<b>% EXCESS</b>	<b>DEPTH</b>	<b>ID</b>	<b>OD</b>	<b>WGT.</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>GRADE</b>	<b>SHOE</b>	<b>FLOAT</b>	<b>STAGE</b>	
8.76	10	16420	4.776	6.6	20	CSG	16420	7890	P-110	16420	16410	0	
<b>LAST CASING</b>				<b>PKR-CMT RET-BR PL-LINER</b>				<b>PERF. DEPTH</b>		<b>TOP CONN</b>		<b>WELL FLUID</b>	
<b>ID</b>	<b>OD</b>	<b>WGT</b>	<b>TYPE</b>	<b>MD</b>	<b>TVD</b>	<b>BRAND &amp; TYPE</b>	<b>DEPTH</b>	<b>TOP</b>	<b>BTM</b>	<b>SIZE</b>	<b>THREAD</b>	<b>TYPE</b>	<b>WGT.</b>
6.9	9.625	36	CSG	2233	2233	NO PACKER	0	0	0	5.6	BUTT	SYNTHETIC MUD	13
<b>DISPL. VOLUME</b>		<b>DISPL. FLUID</b>		<b>CAL. PSI</b>	<b>CAL. MAX PSI</b>	<b>OP. MAX</b>	<b>MAX TBG PSI</b>		<b>MAX CSG PSI</b>		<b>MIX WATER</b>		
<b>VOLUME</b>	<b>UOM</b>	<b>TYPE</b>	<b>WGT.</b>	<b>BUMP PLUG</b>	<b>TO REV.</b>	<b>SG. PSI</b>	<b>RATED</b>	<b>Operator</b>	<b>RATED</b>	<b>Operator</b>			
342	BBLs	H2O	6.34	2500	0	0	0	0	10112	6000	TANK		
<b>EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:</b>													
<b>PRESSURE/RATE DETAIL</b>							<b>EXPLANATION</b>						
<b>TIME HR:MIN.</b>	<b>PRESSURE - PSI</b>		<b>RATE BPM</b>	<b>BH. FLUID PUMPED</b>	<b>FLUID TYPE</b>	<b>SAFETY MEETING: BJ CREW</b> <input checked="" type="checkbox"/> <b>CO. REP.</b> <input checked="" type="checkbox"/>							
	<b>PIPE</b>	<b>ANNULUS</b>				<b>TEST LINES</b> 6000 PSI							
						<b>CIRCULATING WELL - RIG</b> <input checked="" type="checkbox"/> <b>BJ</b> <input type="checkbox"/>							
15:00	0	0	0	0	0	ON LOCATION 10-11-13							
21:30	0	0	0	0	0	PRE RIG IN MEETING							
23:45	0	0	0	0	0	PRE JOB SAFETY MEETING							
00:27	400	0	2.8	6	H2O	LINE FILL 10-12-13							
00:30	0	0	0	0	0	TEST LINES TO 6000 PSI							
00:40	640	0	6.4	100	FLUSH	ULTRA FLUSH HV SYSTEM							
00:57	600	0	6.6	0	SLURRY	60/50 TYPE I + ADDITIVES							
02:16	0	0	0	0	0	S/D KNIFE GATE STICKING							
02:55	0	0	0	610	SLURRY	S/D							
02:58	220	0	6.6	3	SUGAR	3 BBL. SUGAR WATER W/160LBS. SUGAR							
03:05	280	0	7.2	0	H2O	R/P START DISP.							
03:42	0	0	0	0	0	S/D SWITCH WATER TANKS							
03:48	0	0	0	0	0	RESUME DISP.							
04:01	3800	0	0	350	H2O	PLUG DOWN							
04:03	0	0	0	0	H2O	BLEED OFF/FLOAT HELD							
04:10	0	0	0	0	0	RIG UP TO WASH STACK AND TRUCK							
04:16	0	0	0	0	0	PRE RIG OUT MEETING							



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**CEMENT JOB REPORT**



PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	6000 PSI
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input type="checkbox"/>	
	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL. CNT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	3800	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	0	1067	0	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<i>W. L. Hein</i>

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/1/2013
Job End Date:	12/19/2013
State:	West Virginia
County:	Monongalia
API Number:	47-061-01656-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Statler 6H
Longitude:	-80.17810800
Latitude:	39.70765800
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,900
Total Base Water Volume (gal):	8,320,788
Total Base Non Water Volume:	0



95910-19

## 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	Operator	Carrier					
			Water	7732-18-5	100.00000	0.85415	
40/70 White	FTSI	proppant					
			Silica, Quartz	14808-60-7	100.00000	0.09055	
100 Mesh Sand	FTSI	proppant					
			Silica, Quartz	14808-60-7	100.00000	0.04893	
Hydrochloric Acid (HCl)	FTSI	Acid					
			Water	7732-18-5	63.00000	0.00321	
			Hydrogen Chloride	7647-01-0	37.00000	0.00188	
FRW-200	FTSI	Friction reducer					
			Water	7732-18-5	48.00000	0.00030	
			Copolymer of acrylamide and sodium acrylate	25987-30-8	33.00000	0.00020	
			Petroleum distillate hydrotreated light	64742-47-8	26.00000	0.00016	
			Acrylamide P/W acrylic acid, ammonium salt	26100-47-0	25.00000	0.00015	
			Ammonium Chloride	12125-02-9	12.00000	0.00007	
			Surfactant	Proprietary	7.00000	0.00004	
			Hydrotreated heavy paraffinic	64742-54-7	5.00000	0.00003	



			Alcohols (C10-C16), ethoxylated	68002-97-1	4.00000	0.00002
			Alcohols (C12-C16), ethoxylated	68551-12-2	4.00000	0.00002
			Alcohols (C12-C14), ethoxylated	68439-50-9	4.00000	0.00002
			Sorbitan Monooleate	1338-43-8	3.00000	0.00002
			Polyethylene glycol monooleate	9004-96-0	3.00000	0.00002
			Sorbitol Tetraoleate	61723-83-9	2.00000	0.00001
			Dewaxed heavy paraffinic	64742-65-0	1.50000	0.00001
			Alkyloxypolyethyleneoxyethanol	84133-50-6	1.00000	0.00001
			Ammonium Acrylate	10604-69-0	0.50000	0.00000
			Isopropanol	67-63-0	0.30000	0.00000
			Acrylamide	79-06-1	0.10000	0.00000
CI-3240	FTSI	Biocide				
			Water	7732-18-5	55.00000	0.00021
			Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione.	533-74-4	24.00000	0.00009
			Sodium Hydroxide	1310-73-2	23.00000	0.00009
CS-500 SI	FTSI	Scale inhibitor				
			Water	7732-18-5	55.00000	0.00013
			Ethylene glycol	107-21-1	10.00000	0.00002
			Sodium chloride	7647-14-5	6.00000	0.00001
			Sodium Polyacrylate	9003-04-7	5.00000	0.00001
			Acrylic Polymer	Proprietary		
HVG-1	FTSI	Water Gelling Agent				
			Guar Gum	9000-30-0	55.00000	0.00001
			Petroleum Distillate	64742-47-8	55.00000	0.00001
			Raffinates (Petroleum), Sorption Process	64741-85-1	50.00000	0.00001
			Clay	1302-78-9	5.00000	0.00000
			Clay	14808-60-7	2.00000	0.00000
			Surfactant	24938-91-8	1.00000	0.00000
			Surfactant	154518-36-2	1.00000	0.00000
			Surfactant	9043-30-5	1.00000	0.00000
NE-100	FTSI	Non-emulsifier				
			Water	7732-18-5	90.00000	0.00001
			2-Butoxyethanol	111-76-2	10.00000	0.00000
			2-Propanol	67-63-0	10.00000	0.00000
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00000
			Benzene, C10-16 Alkyl Derivatives	68648-87-3	0.04000	0.00000
			Unsulphonated Matter	Proprietary	0.03000	0.00000
			Sulfuric Acid	7664-93-9	0.01000	0.00000
			Sulfur Dioxide	7446-09-5		0.00000
CI-150	FTSI	Acid Corrosion Inhibitor				
			Isopropanol	67-63-0	30.00000	0.00000

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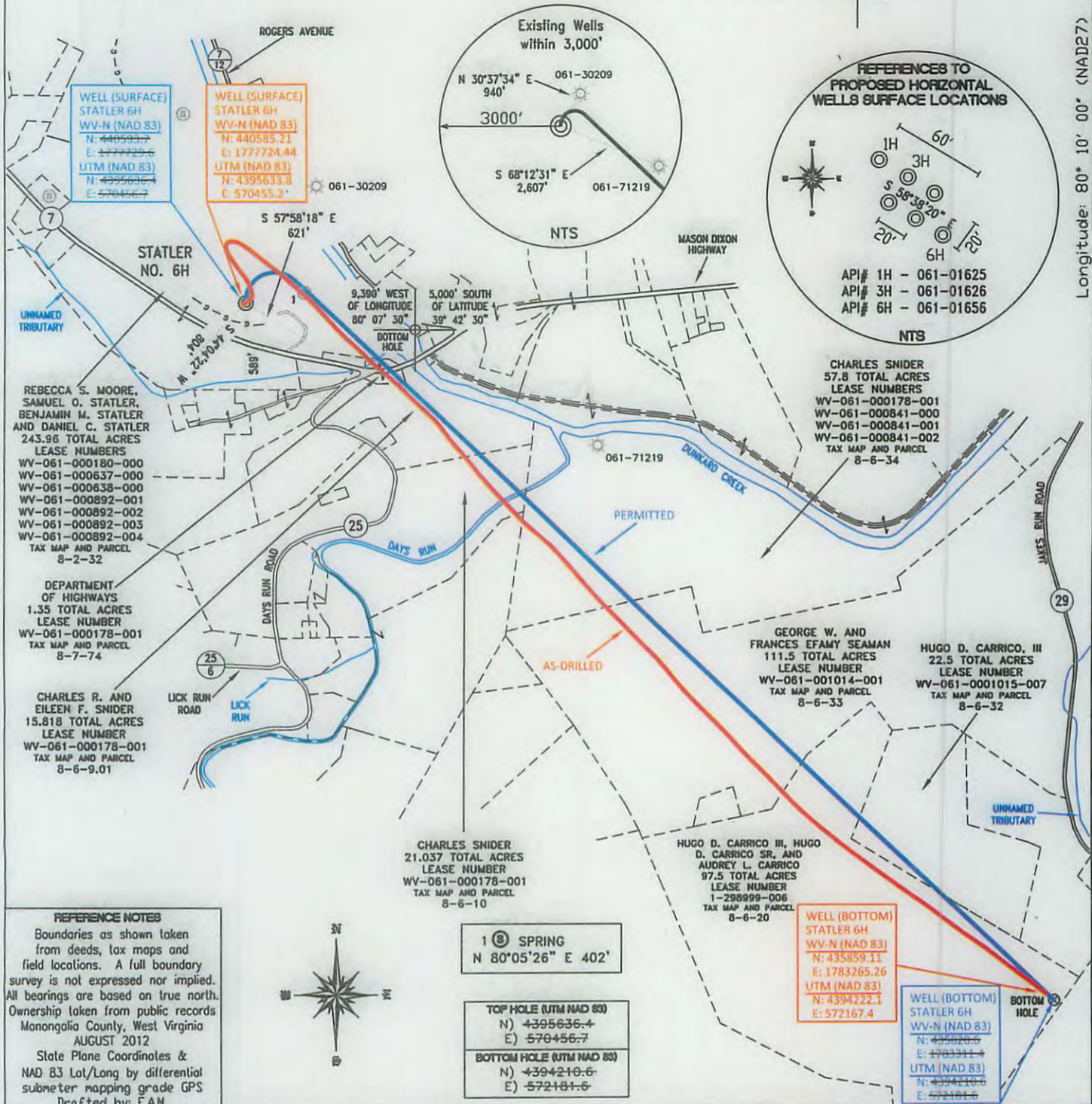
			Organic amine resin salt	Proprietary	30.00000	0.00000
			Ethylene Glycol	107-21-1	30.00000	0.00000
			Dimethylformamide	68-12-2	10.00000	0.00000
			Alkylene Oxide Block Polymer	Proprietary	10.00000	0.00000
			Quaternary ammonium compound	Proprietary	10.00000	0.00000
			Aromatic aldehyde	Proprietary	10.00000	0.00000
			Water	7732-18-5	5.00000	0.00000
			Diethylene glycol	111-46-6	1.00000	0.00000
			Aliphatic alcohol	Proprietary	0.10000	0.00000
			Fatty Acid Salt	Proprietary	0.10000	0.00000
			Fatty Acid	Proprietary	0.10000	0.00000
FE-100L	FTSI	Iron control				
			Water	7732-18-5	60.00000	0.00000
			Citric acid	77-92-9	55.00000	0.00000
APB-1	FTSI	Gel breaker				
			Ammonium Persulfate	7727-54-0	100.00000	0.00000

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.

\* 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)





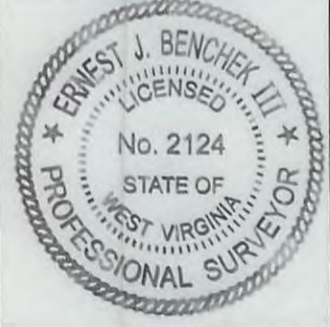
**REFERENCE NOTES**  
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Monongalia County, West Virginia AUGUST 2012  
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS  
 Drafted by: E.A.M.

1 (S) SPRING  
 N 80°05'26" E 402'  
 TOP HOLE (UTM NAD 83)  
 N) 4395636.4  
 E) 570456.7  
 BOTTOM HOLE (UTM NAD 83)  
 N) 4394210.6  
 E) 572181.6

WELL (BOTTOM) STATLER 6H  
 WV-N (NAD 83)  
 N: 435859.11  
 E: 1783265.26  
 UTM (NAD 83)  
 N: 4394222.1  
 E: 572167.4

FILE #: NNE 008  
 DRAWING #: 2010  
 SCALE: PLAT = (1" = 1000')  
 TICK MARKS = (1" = 2000')  
 MINIMUM DEGREE OF ACCURACY: 1/200  
 PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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.  
 Signed: \_\_\_\_\_  
 L.L.S. #2124 : Ernest J. Benchek III



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304  
 Well Type:  Oil  Waste Diposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow  
 WATERSHED: DUNKARD  
 COUNTY/DISTRICT: MONONGALIA / CLAY  
 SURFACE OWNER: REBECCA S. MOORE, SAMUEL O. STATLER, BENJAMIN M. STATLER, DANIEL C. STATLER  
 OIL & GAS ROYALTY OWNER: REBECCA S. MOORE, SAMUEL O. STATLER, BENJAMIN M. STATLER, DANIEL C. STATLER  
 LEASE NUMBERS: \_\_\_\_\_

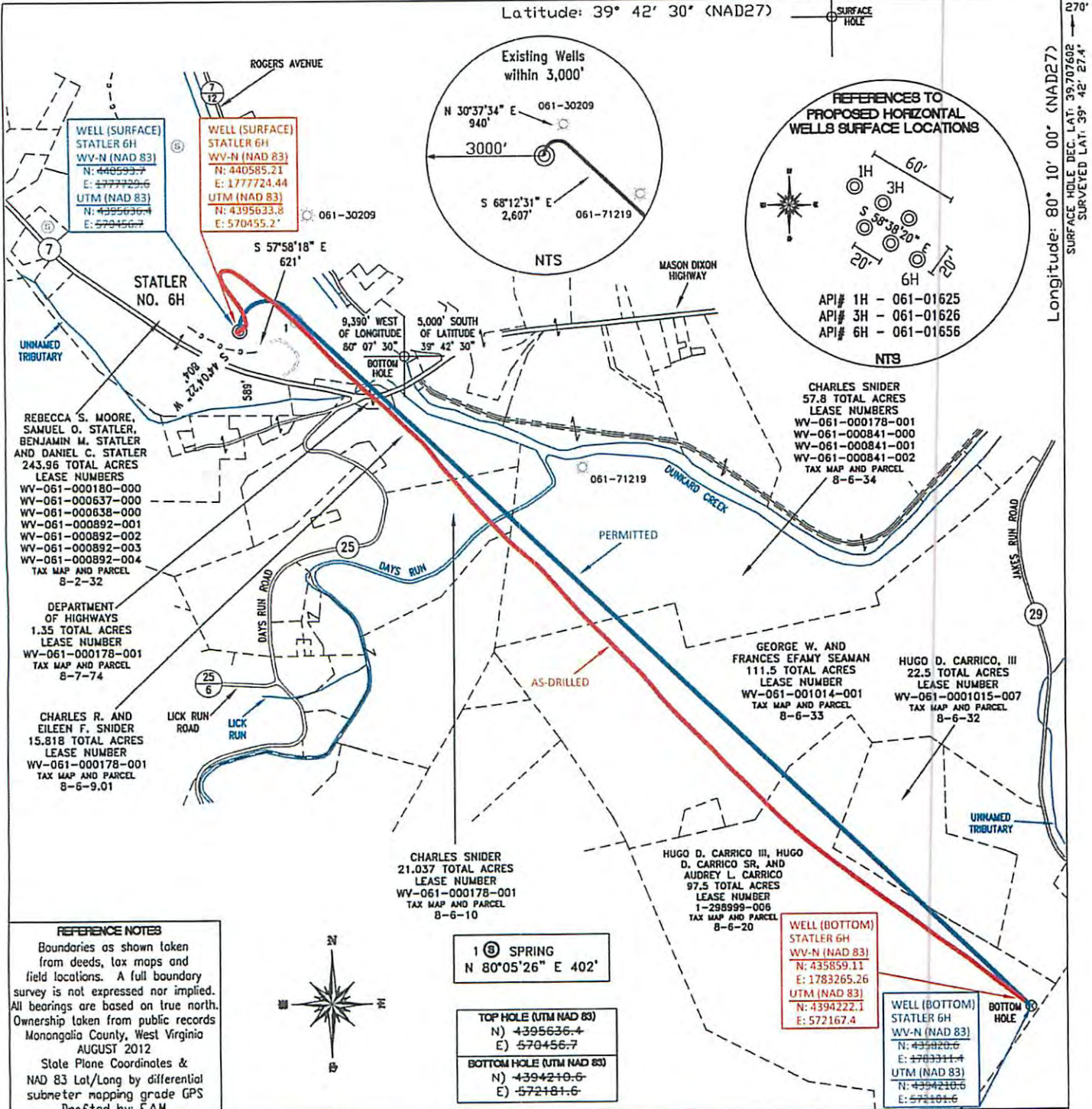
DATE: MAY 28, 2014  
 OPERATOR'S WELL #: STATLER NO. 6H AS-DRILLED  
 API WELL #: 47 61 01656 HCA  
 STATE COUNTY PERMIT  
 ELEVATION: 1,061'  
 QUADRANGLE: BLACKSVILLE, WV  
 ACREAGE: 243.96 +/-  
 ACREAGE: 571.465 +/-

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_  
 TARGET FORMATION: MARCELLUS  
 ESTIMATED DEPTH: TVD: 7,860' TMD: 15,693'  
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC  
 ADDRESS: 707 VIRGINIA STREET - SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301  
 DESIGNATED AGENT: JOHN ADAMS  
 ADDRESS: 707 VIRGINIA STREET - SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



SURFACE HOLE DEC. LONG: 80.178298  
 SURVEYED LONG: 80° 10' 41.9"

Latitude: 39° 42' 30" (NAD27)



Longitude: 80° 10' 00" (NAD27)  
 SURFACE HOLE DEC. LAT: 39° 42' 27.4"  
 SURVEYED LAT: 39° 42' 27.4"

**REFERENCE NOTES**  
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Monongalia County, West Virginia AUGUST 2012  
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 Drafted by: E.A.H.

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 E: 1783311.4  
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 E: 572101.6

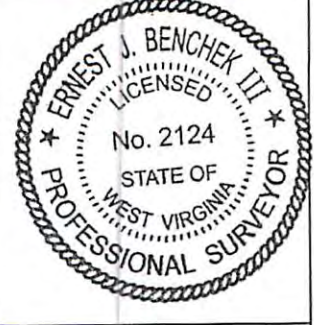
FILE #: NNE 008  
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Signed: *[Signature]*  
 L.L.S. #2124 : Ernest J. Benchek III



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 Gas  Liquid Injection  Storage  Shallow

WATERSHED: DUNKARD ELEVATION: 1,061'

COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE, WV

SURFACE OWNER: REBECCA S. MOORE, SAMUEL O. STATLER, BENJAMIN M. STATLER, DANIEL C. STATLER ACREAGE: 243.96 +/-

OIL & GAS ROYALTY OWNER: REBECCA S. MOORE, SAMUEL O. STATLER, BENJAMIN M. STATLER, DANIEL C. STATLER ACREAGE: 571.465 +/-

LEASE NUMBERS: \_\_\_\_\_

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 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,860' TMD: 15,693'

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS  
 ADDRESS: 707 VIRGINIA STREET - SUITE 1200 ADDRESS: 707 VIRGINIA STREET - SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

Received  
 Office of Oil & Gas  
 DEC 10 2014

DATE: MAY 28, 2014  
 OPERATOR'S WELL #: STATLER NO. 6H AS-DRILLED  
 API WELL #: 47 61 01656 HGA  
 STATE COUNTY PERMIT

01/16/2015