

JR

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



API 47 - 061 - 01660 County Monongalia District Clay
Quad Blacksville Pad Name Statler Field/Pool Name _____
Farm name Statler Well Number 2H
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 7/24/2013 Date drilling commenced 8/29/2013 Date drilling ceased 11/12/2013
Date completion activities began 11/29/2013 Date completion activities ceased 12/19/2013
Verbal plugging (Y/N) 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

Freshwater depth(s) ft 912' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1951' 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 - 01660 Farm name Statler Office of Oil and Gas Well number 2H

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, 54.5 lb/ft	-	Y
Coal	-	-	-	-	-	-	-
Intermediate 1	12 1/4"	9 5/8"	2,232'	New	J-55, 36 lb/ft	-	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	8 3/4"	5 1/2"	15,853'	New	P-110	-	Y
Tubing	-	2 7/8"	8,302.18'	New	J-55 EUE, 6.5 lb/ft	-	-
Packer type and depth set		N/A					

Comment Details Cement Returns to Surface: Surface - 20 bbl; Intermediate - 5 bbl; Production - 5 bbl

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	Grout	-	-	-	-	-	-
Surface	Pre NE-1 3% CaCl	765	15.2	1.28	979.2	0	8
Coal	-	-	-	-	-	-	-
Intermediate 1	Type 1 +.5%EC-1 +.5%SMS..	689	15.2	1.26	868.14	0	8
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	50/50 Type 1, .25% BA-10A ..	3269	14.5	1.18	3857.42	0	Until Completion
Tubing	-	-	-	-	-	-	-

Drillers TD (ft) 15,871 Loggers TD (ft) 15,871
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,983

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

Perforation Record					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations(s)
1	12/3/2013	15,552	15,696	40	Marcellus
2	12/3/2013	15,362	15,506	40	Marcellus
3	12/4/2013	15,174	15,316	40	Marcellus
4	12/4/2013	14,982	15,119	40	Marcellus
5	12/5/2013	14,785	14,937	40	Marcellus
6	12/5/2013	14,585	14,737	40	Marcellus
7	12/5/2013	14,385	14,537	40	Marcellus
8	12/6/2013	14,185	14,337	40	Marcellus
9	12/6/2013	13,985	14,137	40	Marcellus
10	12/6/2013	13,785	13,937	40	Marcellus
11	12/7/2013	13,585	13,737	40	Marcellus
12	12/7/2013	13,385	13,537	40	Marcellus
13	12/8/2013	13,185	13,337	40	Marcellus
14	12/8/2013	12,985	13,137	40	Marcellus
15	12/8/2013	12,785	12,937	40	Marcellus
16	12/9/2013	12,585	12,737	40	Marcellus
17	12/9/2013	12,385	12,537	40	Marcellus
18	12/9/2013	12,185	12,337	40	Marcellus
19	12/10/2013	11,985	12,137	40	Marcellus
20	12/10/2013	11,785	11,937	40	Marcellus
21	12/10/2013	11,585	11,737	40	Marcellus
22	12/11/2013	11,385	11,537	40	Marcellus
23	12/14/2013	11,185	11,337	40	Marcellus
24	12/14/2013	10,985	11,137	40	Marcellus
25	12/15/2013	10,785	10,937	40	Marcellus
26	12/15/2013	10,585	10,737	40	Marcellus
27	12/16/2013	10,385	10,537	40	Marcellus
28	12/16/2013	10,185	10,337	40	Marcellus
29	12/16/2013	9,985	10,137	40	Marcellus
30	12/17/2013	9,785	9,937	40	Marcellus
31	12/17/2013	9,585	9,737	40	Marcellus
32	12/18/2013	9,385	9,537	40	Marcellus
33	12/18/2013	9,185	9,337	40	Marcellus
34	12/18/2013	8,985	9,137	40	Marcellus
35	12/18/2013	8,785	8,937	40	Marcellus
36	12/19/2013	8,585	8,737	40	Marcellus
37	12/19/2013	8,385	8,537	40	Marcellus

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DEC 10 2014

01/16/2015

4706101660

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 (bbls)	Amount of Nitrogen/other
1	12/3/2013	75	8,759	9,261	6,655	360,854	7,059	-
2	12/3/2013	72	8,906	9,187	6,563	392,091	6,953	-
3	12/4/2013	70	8,900	9,344	6,895	385,644	7,237	-
4	12/4/2013	72	8,806	8,187	6,563	392,091	6,953	-
5	12/5/2013	75	8,940	9,196	6,482	395,262	6,990	-
6	12/5/2013	79	8,896	9,191	6,720	398,698	7,068	-
7	12/5/2013	80	8,941	9,153	6,686	396,632	6,839	-
8	12/6/2013	77	8,914	9,120	6,886	400,262	6,876	-
9	12/6/2013	75	8,944	9,175	6,996	400,168	7,081	-
10	12/6/2013	80	9,036	9,202	6,424	403,725	7,081	-
11	12/7/2013	76	8,538	9,200	6,616	398,507	6,938	-
12	12/7/2013	86	8,938	9,341	6,391	405,909	7,015	-
13	12/8/2013	80	8,875	9,153	6,594	398,927	6,828	-
14	12/8/2013	79	8,936	9,202	6,814	400,145	6,923	-
15	12/8/2013	83	8,869	9,113	6,471	404,345	6,780	-
16	12/9/2013	85	8,831	9,206	6,734	400,147	7,108	-
17	12/9/2013	85	8,933	9,113	6,160	400,882	6,817	-
18	12/9/2013	85	8,908	9,336	6,457	399,466	6,852	-
19	12/10/2013	83	8,747	9,034	6,497	402,505	6,782	-
20	12/10/2013	87	8,911	8,202	6,454	399,878	6,824	-
21	12/10/2013	79	8,914	9,209	6,292	399,878	7,257	-
22	12/11/2013	80	8,908	9,872	6,016	397,289	6,715	-
23	12/14/2013	81	8,895	9,204	6,932	347,109	4,686	-
24	12/14/2013	78	8,890	9,200	7,109	397,803	6,802	-
25	12/15/2013	84	8,680	8,959	6,321	400,617	6,801	-
26	12/15/2013	85	8,517	9,623	6,581	365,925	6,498	-
27	12/16/2013	82	8,079	9,382	6,911	399,693	6,830	-
28	12/16/2013	86	8,372	8,571	6,773	401,342	6,847	-
29	12/16/2013	82	8,412	8,887	6,662	398,612	6,635	-
30	12/17/2013	85	8,398	9,105	6,907	361,746	6,563	-
31	12/17/2013	82	8,503	-	6,852	411,926	6,925	-
32	12/18/2013	85	8,292	8,750	6,783	401,625	6,699	-
33	12/18/2013	83	8,658	9,394	6,331	412,398	6,818	-
34	12/18/2013	80	8,617	9,041	6,770	399,882	6,766	-
35	12/18/2013	88	8,225	8,763	6,480	401,384	6,782	-
36	12/19/2013	79	8,320	9,218	6,107	324,618	6,243	-
37	12/19/2013	85	8,192	8,950	5,558	399,557	6,613	-

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DEC 10 2014

01/16/2015

4706101660

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)
Sand and Shale	0	650	0	650	
Coal	650	660	650	660	
Sand and Shale	660	1,500	660	1,500	
Salt Sand	1,500	1,800	1,500	1,800	
Sand and Shale	1,800	1,982	1,800	1,982	
Maxon	1,982	1,990	1,982	1,990	
Little Lime	1,990	2,020	1,990	2,020	
Big Lime	2,020	2,100	2,020	2,100	
Big Injun	2,100	2,240	2,100	2,240	
Shale and Sand	2,240	3,200	2,240	3,200	
Shale	3,200	7,540	3,200	7,880	
Burkett	7,415	7,641	7,723	8,006	
Tully	7,641	7,699	8,006	8,085	
Hamilton	7,699	7,803	8,085	8,272	
Marcellus	7,803	TD	8,272	15,871	

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DEC 10 2014

01/16/2015

61-01660

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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01/16/2015



CEMENT JOB REPORT

CUSTOMER NORTHEAST NATURAL ENER		DATE 13-SEP-13	FR.# 776010062	SERV. SUPV. Jeffery T Nixon								
LEASE & WELL NAME STATLER 2H - API 47061016600000		LOCATION BLACKSVILLE		COUNTY-PARISH-BLOCK Monongalia West Virginia								
DISTRICT Clarksburg		DRILLING CONTRACTOR RIG #		TYPE OF JOB Surface								
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS MD TVD								
BJ Cement Plug, Rubber, Top 13-3/8		Guide Shoe, Cement Nose 13-3/8 In										
MATERIALS FURNISHED BY BJ		LAB REPORT NO.		PHYSICAL SLURRY PROPERTIES								
				SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER OPS	PUMP TIME HR:MIN	Bbl SLURRY			
				14	8.34	0	0		35			
				765	16.2	1.28	6.77		172			
				0	8.34	0	0		149			
Available Mix Water 500 Bbl.		Available Displ. Fluid 500 Bbl.		TOTAL 358 103.65								
HOLE		TBO-CSG-D.P.				COLLAR DEPTHS						
SIZE	% EXCESS	DEPTH	ID	OD	WGT	TYPE	MD	TVD	GRADE	SHO	FLOAT	STAGE
17.6		1050	12.62	13.376	54.6	CSG	1023	1023	J-55	1023		
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID		
ID	OD	WGT	TYPE	MD	TVD	DEPTH	TOP	DTM	SIZE	THREAD	TYPE	WGT.
19	20	94	CSG	50	60		0	0	13.376	ORD	OTHER	0
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBO PSI		MAX CSO PSI		MIX WATER	
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	TANKS	
149	BBLs	H2O	8.34	384	0	0	0	0	2730	600	TANKS	
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:												
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 1600 PSI						
						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/>						
17:00	0	0	0	0	0	ON LOC.						
18:00	0	0	0	0	0	PREJOB SAFETY MEETING						
19:44	0	0	0	0	H2O	LINE FILL H2O						
19:45	0	0	0	0	H2O	PSI TEST LINES 1600# H2O						
19:47	250	0	5.2	123	H2O	PREFLUSH H2O						
20:10	225	0	5.3	35	GEL/FLAKE	PREFLUSH GEL/FLAKE						
20:17	218	0	5.3	10	H2O	SPACER H2O						
20:19	365	0	5.3	163	SLURRY	PRE NE-1 3%CACL						
20:51	0	0	0	0	0	S/D RELEASE PLUG						
20:52	175	0	0.7	149	H2O	DISPLACEMENT H2O						
21:24	825	0	0	0	0	S/D PLUG DOWN HOLD FOR 5 MIN.						
21:30	0	0	0	0	0	BLEED OFF FLOATS HELD JOB DONE						
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL. CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT ORBIT	SERVICE SUPERVISOR SIGNATURE:					
<input checked="" type="checkbox"/> N	825	<input checked="" type="checkbox"/> N	20	481	0	<input checked="" type="checkbox"/> N						

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DEC 10 2014

01/16/2015



CEMENT JOB REPORT

CUSTYMER NORTHEAST NATURAL ENER		DATE 18-SEP-13	P.R.# 10011014019	SERV. SUPV. Benjamin D Hartley															
LEASE & WELL NAME STATLER 2H - API 4706101660000		LOCATION BLACKSVILLE		COUNTY-PARISH-BLOCK Monongalia West Virginia															
DISTRICT Clarksburg		DRILLING CONTRACTOR RIG # PERFORMANCE #1		TYPE OF JOB Intermediate															
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD	HANGER TYPES		MD	TVD								
BJ Cement Plug, Rubber, Top 9-5/8 I		Guide Shoe, Cement Nose, 9-5/8 In Insert Float, AFU, LTC, 9-5/8 - 8rd																	
MATERIALS FURNISHED BY BJ				LAB REPORT NO.		SACKS OF CEMENT		SLURRY WGT PPG		SLURRY YLD FT		WATER GPM		PUMP TIME HR:MIN		Bbl SLURRY		Bbl MIX WATER	
1 9.625 INCH TRP				0		0		0		0		00:00		0		0			
400# GRANULATED SUGAR				0		0		0		0		00:00		0		0			
700# GEL W/25# FLAKE				89		8.8		0		0		00:00		35		0			
TYPE1 +.5%EC-1+.5%SMS+.5%BA-10A+1/4#FLAKE				89		889		15.2		1.26		5.74		03:00		154.6		94.15	
H2O				87		8.34		0		0		00:00		168		0			
Available Mix Water		500		Bbl.		Available Displ. Fluid		800		Bbl.		TOTAL		357.8		94.15			
HOLE				TBG-CSG-DP.				COLLAR DEPTHS											
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE							
12.25	20	2245	8.921	9.625	38	CSG	2219	2219	J-55	2219	2174	1							
LAST CASING				PKR-CMT RET-BR PL-LINER				PERF. DEPTH		TOP CONN		WELL FLUID							
ID	OD	WGT.	TYPE	MD	TVD	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.						
13.1338	13.38	64.6	CSG	1023	1023			0	0	9.625	3RD	OTHER	0						
DISPL. VOLUME		DISPL. FLUID		CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		MIX WATER					
VOLUME	UOM	TYPE	WGT.	DUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RATED	Operator	RATED	Operator	TANK				
168	BBLs	H2O	8.34	780	0	0	0	0	0	2800	1000	TANK							
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:																			
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 2400 PSI													
						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/>													
16:00	0	0	0	0		ARRIVED ON LOCATION-STILL RUNNING CASING													
18:15	0	0	0	0		RIG IN MEETING													
19:00	0	0	0	0		PRE-PUMP MEETING													
19:15	2400	0	0	0		PRESSURE TEST LINES													
19:16	160	0	6	135	PROCESS	AHEAD													
19:40	150	0	6	35	GEL W/FL	PRE-FLUSH													
19:48	160	0	6	10	H2O	AHEAD													
19:48	300	0	6	152	SLURRY	15.2#													
20:15	0	0	0	0		SHUTDOWN/ RELEASE PLUG													
20:16	600	0	6	168	PROCESS	DISPLACEMENT													
20:50	1000	0	0	0		PLUG DOWN-HOLD													
20:55	0	0	0	0		FLOATS HOLDING-RIG OUT MEETING													
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL OMT RETURN/ REVERSED	TOTAL BBL PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:												
<input checked="" type="checkbox"/> Y	N 800	<input checked="" type="checkbox"/> Y	N 6	600	0	Y <input checked="" type="checkbox"/> N	<i>Ben Hartley</i>												

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DEC 10 2014

01/16/2015

61-01660

CEMENT JOB REPORT



CUSTOMER NORTHEAST NATURAL ENER	DATE 15-NOV-13	P.R.# 10011027228	SERV. SUPV. Scott J Carson
LEASE & WELL NAME STATLER #2H - APL4709101880000	LOCATION STATLER		COUNTY-PARISH-BLOCK Monongalia West Virginia
DISTRICT Clarksburg	DRILLING CONTRACTOR RIG # PIONEER		TYPE OF JOB Long String

SIZE & TYPE OF PLUGS	LIST CSG HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
BJ 6 1/2 TOP RUBBER PLUG	Guide Shoe, Cement Nose, 6-1/2 Float Collar, AI Flap, 6-1/2 - 8rd	NONE			NONE		

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
ULTRAFLUSH HV			14				100	
60/60 TYPE I .25%BA-10A 1%FL-02 .15%ASA-301 .4%		3,289	14.6	1.18	5.09	00:00	687	398.17
60% SUGAR/H2O			8.34				8	
H2O			8.34				351	
100% SUGAR ON SIDE			0				0	
Available Mix Water	600	Bbl.	Available Displ. Fluid	500	Bbl.	TOTAL	1141	398.17

HOLE				TBO-CSG-DP						COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
8.75	10	16971	4.778	5.5	20	CSG	15858	15858	J-55	15858	15833	

LAST CASING				PR. CMT RET. OR PL. LINER				PERF. DEPTH			TOP CONN.			WELL FLUID	
ID	OD	WGT.	TYPE	MD	TVD	BRAND	TYPE	DEPTH	TOP	RIM	SIZE	THREAD	TYPE	WGT.	
8.918	9.625	38	CSG	2232	2232	NO PACKER					6.6	BUT	SYNTHETIC MUD	12.9	

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	8Q. PSI	RATED	Operator	RATED	Operator	RATED	Operator	TANK	
351	BBLs	H2O	8.34	2500	0	0	0	0	7352	5000			TANK	

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

PRESSURE/RATE DETAIL						EXPLANATION
TIME HR:MIN.	PRESSURE - PSI	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE		
	PIPE	ANNULUS				
					SAFETY MEETING: BJ CREW [X] CO. REP. [X]	
					TEST LINES 6000 PSI	
					CIRCULATING WELL - RIG [X] BJ [X]	
12:30					ARRIVED AT LOCATION 11-15-2013 LOCATION TIME 13:00	
18:00					PRE-JOB RIG-IN SAFETY MEETING	
18:16					RIG-IN	
18:00					PRE-JOB SAFETY MEETING	
18:38	1000		6	H2O	LINE-FILL	
18:39	0			H2O	PRESSURE TEST 6000#	
18:41	1100		100	PRE-FLUS	ULTRAFLUSH HV 14.0#	
18:59	600			SLURRY	60/60 TYPE I .25%BA-10A 1%FL-02 .15%ASA-301 .4%R-3	
19:17	0				SHUT-DOWN KNIFE-GATE STUCK	
19:19	600			SLURRY	RE-START SLURRY 14.6#	
20:52	0				SHUT-DOWN COULD NOT GET WATER	
20:53	600		883	SLURRY	RESTART	
21:15	0		10	H2O	SHUT-DOWN WASH-OUT LINES	
21:24	0				SHUT-DOWN	
21:25	520		3	H2O	RUN SUGAR WATER	
21:26	0				SHUT-DOWN RELEASE PLUG	
21:27	2000		6	H2O	START DISPLACEMENT	
22:20	3040		358		SHUT-DOWN PLUG NOT LAND	

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Office of Oil & Gas

DEC 10 2014

01/16/2015



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	8000 PSI
22:39	0					CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input checked="" type="checkbox"/>	
22:40						CONSULT THE COMPANY MAN DID NOT WANT TO PUMP ANYMORE DECIDED TO SEE IF FLOAT WOULD HOLD AND NOT TO LAND PLUG WENT 6BBL. OVER DISP.	
22:45						FLOAT HOLD CLOSE-IN HEAD LEAVE HEAD ON	
22:55						POST-JOB RIG-OUT SAFETY MEETING	
						RIG-OUT	
BUMPED PLUG	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	2600	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	6	1147	0	Y <input type="checkbox"/> N	

Received
 Office of Oil & Gas

DEC 10 2014

01/16/2015

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/3/2013
Job End Date:	12/19/2013
State:	West Virginia
County:	Monongalia
API Number:	47-061-01660-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Statler 2H
Longitude:	-80.17823000
Latitude:	39.70771400
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,955
Total Base Water Volume (gal):	10,651,242
Total Base Non Water Volume:	0



09910-19

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	0.85543	
40/70 White	FTSI	proppant	Silica, Quartz	14808-60-7	100.00000	0.08939	
100 Mesh Sand	FTSI	proppant	Silica, Quartz	14808-60-7	100.00000	0.04891	
Hydrochloric Acid (HCl)	FTSI	Acid	Water	7732-18-5	63.00000	0.00316	
			Hydrogen Chloride	7647-01-0	37.00000	0.00185	
FRW-200	FTSI	Friction reducer	Water	7732-18-5	48.00000	0.00029	
			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 (C12-C16), ethoxylated	68551-12-2	4.00000	0.00002
			Alcohols (C12-C14), ethoxylated	68439-50-9	4.00000	0.00002
			Alcohols (C10-C16), ethoxylated	68002-97-1	4.00000	0.00002
			Polyethylene glycol monooleate	9004-96-0	3.00000	0.00002
			Sorbitan Monooleate	1338-43-8	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

0971019

			Ethylene Glycol	107-21-1	30.00000	0.00000
			Organic amine resin salt	Proprietary	30.00000	0.00000
			Aromatic aldehyde	Proprietary	10.00000	0.00000
			Quaternary ammonium compound	Proprietary	10.00000	0.00000
			Dimethylformamide	68-12-2	10.00000	0.00000
			Alkylene Oxide Block Polymer	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	Proprietary	0.10000	0.00000
			Fatty Acid Salt	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.						

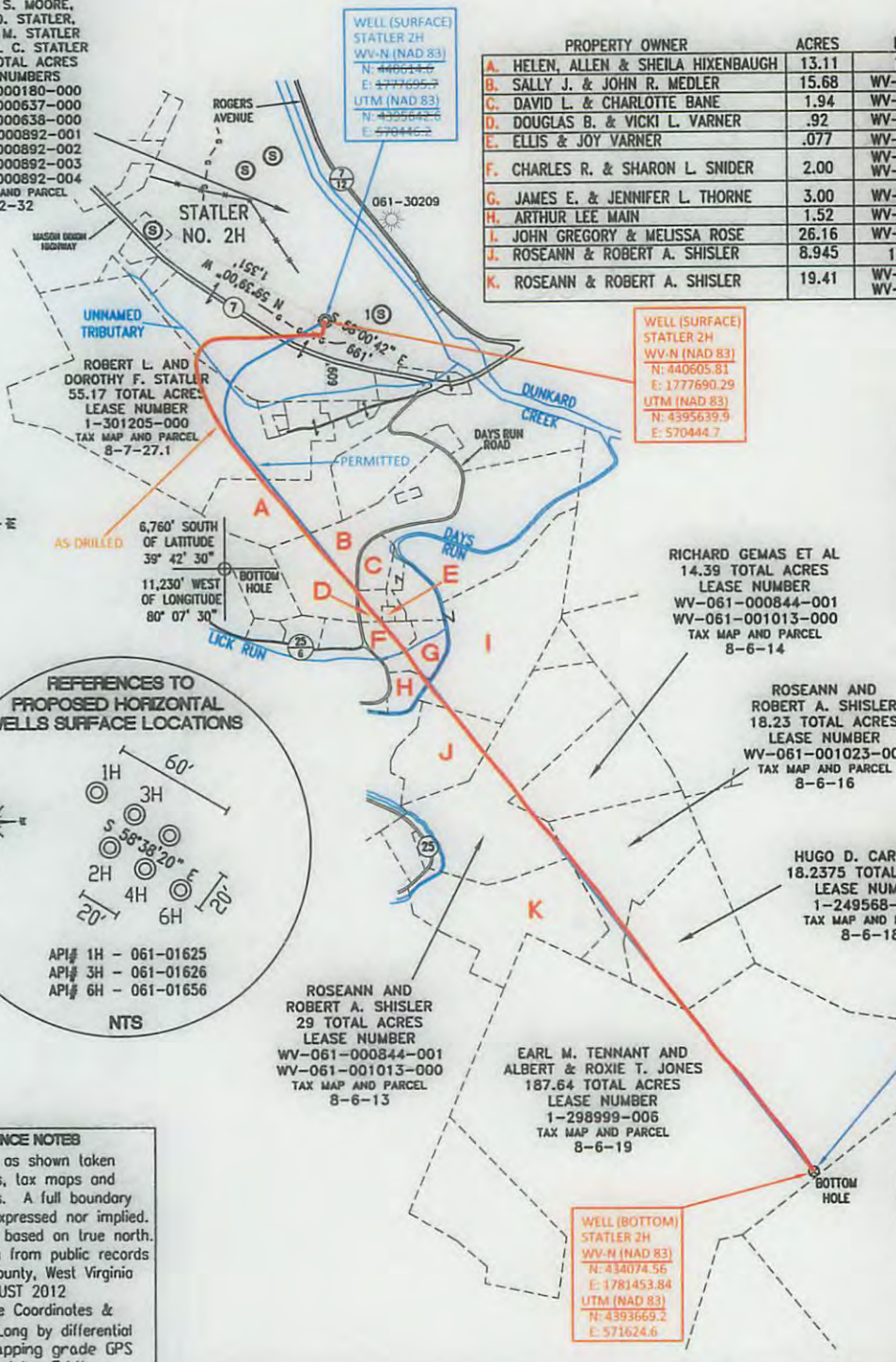
09/10/19

* 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%

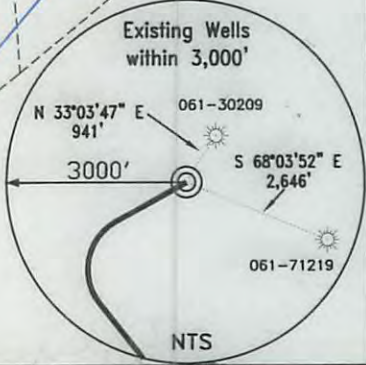
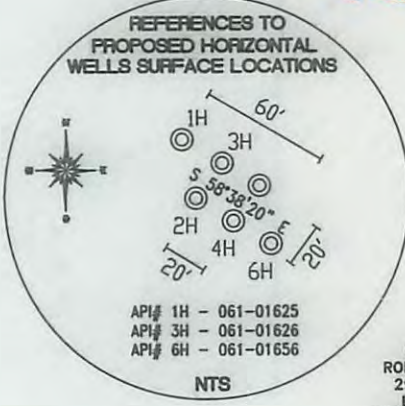
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

REBECCA S. MOORE,
SAMUEL O. STATLER,
BENJAMIN M. STATLER
AND DANIEL C. STATLER
243.96 TOTAL ACRES
LEASE NUMBERS
WV-061-000180-000
WV-061-000637-000
WV-061-000638-000
WV-061-000892-001
WV-061-000892-002
WV-061-000892-003
WV-061-000892-004
TAX MAP AND PARCEL
8-2-32

PROPERTY OWNER	ACRES	LEASE NUMBER	PARCEL ID
A. HELEN, ALLEN & SHEILA HIXENBAUGH	13.11	1-297413-000	08-07-27.6
B. SALLY J. & JOHN R. MEDLER	15.68	WV-061-000177-000	08-07-29.1
C. DAVID L. & CHARLOTTE BANE	1.94	WV-061-000675-000	08-07-70
D. DOUGLAS B. & VICKI L. VARNER	.92	WV-061-001022-000	08-07-69
E. ELLIS & JOY VARNER	.077	WV-061-001018-000	08-07-69.1
F. CHARLES R. & SHARON L. SNIDER	2.00	WV-061-001020-000 WV-061-001024-000	08-07-50
G. JAMES E. & JENNIFER L. THORNE	3.00	WV-061-001021-000	08-07-51
H. ARTHUR LEE MAIN	1.52	WV-061-001017-001	08-07-52
I. JOHN GREGORY & MELISSA ROSE	26.16	WV-061-000656-000	08-06-11
J. ROSEANN & ROBERT A. SHISLER	8.945	1-261064-000	08-06-11.1
K. ROSEANN & ROBERT A. SHISLER	19.41	WV-061-000844-001 WV-061-001013-000	08-06-17



TOP HOLE (UTM NAD 83) N) 4395642.6 E) 570446.2
BOTTOM HOLE (UTM NAD 83) N) 4393668.9 E) 571624.5
1 (S) SPRING N 83°34'54" E 433'



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.

FILE #: NNE 008
DRAWING #: 2192
SCALE: PLAT - 1" = 1400'
TICK MARK - 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE SUBMETER MAPPING OF ELEVATION: 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: [Signature]
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 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: 471.6745 +/-
LEASE NUMBERS: _____
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: 15,973'
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

01/16/2015

SURFACE HOLE DEC. LONG: 80.178420
SURVEYED LONG: 80° 10' 42.3"

3,300'

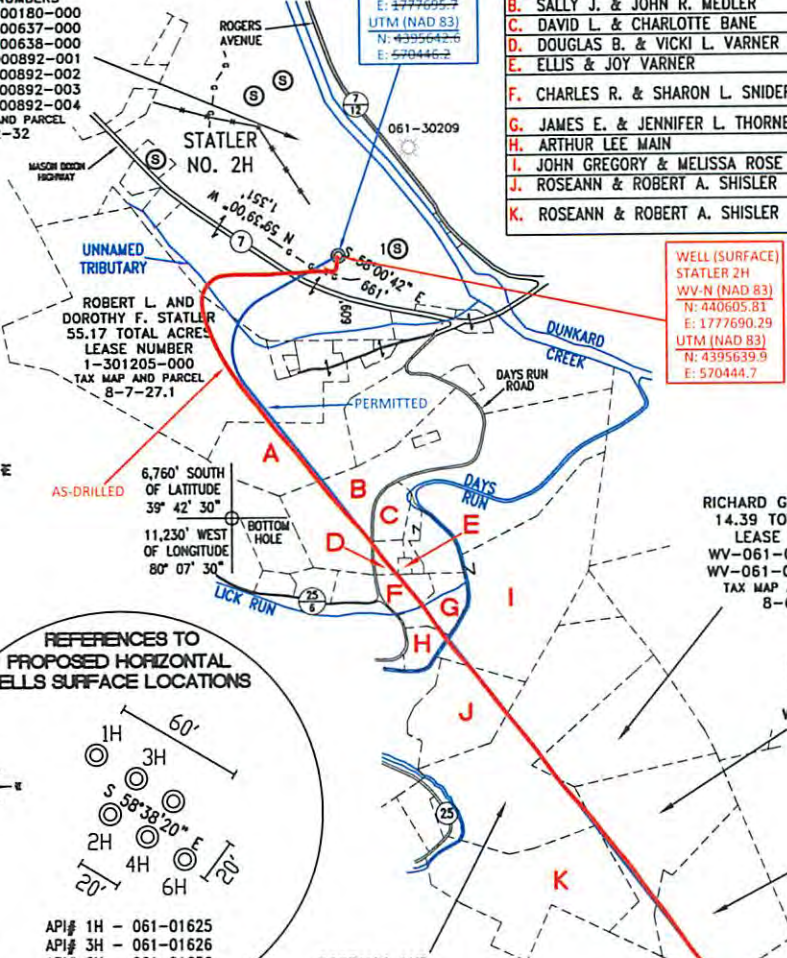
Latitude: 39° 42' 30" (NAD27)

Longitude: 80° 10' 00" (NAD27)

REBECCA S. MOORE,
SAMUEL O. STATLER,
BENJAMIN M. STATLER
AND DANIEL C. STATLER
243.96 TOTAL ACRES
LEASE NUMBERS
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WV-061-000892-001
WV-061-000892-002
WV-061-000892-003
WV-061-000892-004
TAX MAP AND PARCEL
8-2-32

WELL (SURFACE)
STATLER 2H
WV-N (NAD 83)
N: 440014.4
E: 1777695.7
UTM (NAD 83)
N: 4395642.6
E: 570444.2

PROPERTY OWNER	ACRES	LEASE NUMBER	PARCEL ID
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D. DOUGLAS B. & VICKI L. VARNER	.92	WV-061-001022-000	08-07-69
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K. ROSEANN & ROBERT A. SHISLER	19.41	WV-061-000844-001 WV-061-001013-000	08-06-17



WELL (SURFACE)
STATLER 2H
WV-N (NAD 83)
N: 440605.81
E: 1777690.29
UTM (NAD 83)
N: 4395639.9
E: 570444.7

TOP HOLE (UTM NAD 83)
N) 4395642.6
E) 570444.2

BOTTOM HOLE (UTM NAD 83)
N) 4393668.9
E) 571624.5

1 (S) SPRING
N 83°34'54" E 433'

RICHARD GEMAS ET AL
14.39 TOTAL ACRES
LEASE NUMBER
WV-061-000844-001
WV-061-001013-000
TAX MAP AND PARCEL
8-6-14

ROSEANN AND
ROBERT A. SHISLER
18.23 TOTAL ACRES
LEASE NUMBER
WV-061-001023-001
TAX MAP AND PARCEL
8-6-16

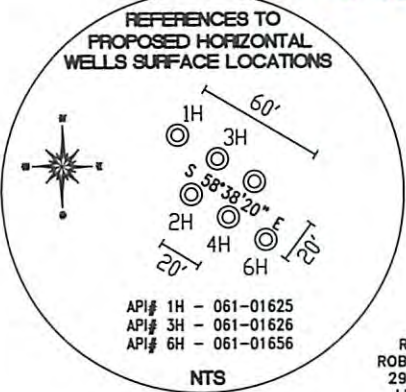
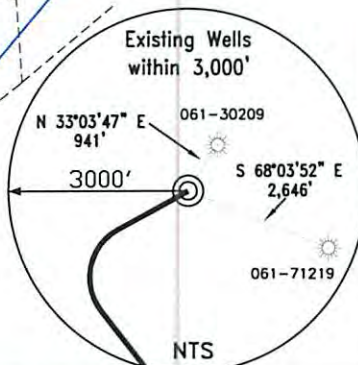
HUGO D. CARRICO, III
18.2375 TOTAL ACRES
LEASE NUMBER
1-249568-000
TAX MAP AND PARCEL
8-6-18

WELL (BOTTOM)
STATLER 2H
WV-N (NAD 83)
N: 434073.5
E: 1781453.5
UTM (NAD 83)
N: 4393669.9
E: 571624.5

ROSEANN AND
ROBERT A. SHISLER
29 TOTAL ACRES
LEASE NUMBER
WV-061-000844-001
WV-061-001013-000
TAX MAP AND PARCEL
8-6-13

EARL M. TENNANT AND
ALBERT & ROXIE T. JONES
187.64 TOTAL ACRES
LEASE NUMBER
1-298999-006
TAX MAP AND PARCEL
8-6-19

WELL (BOTTOM)
STATLER 2H
WV-N (NAD 83)
N: 434074.56
E: 1781453.84
UTM (NAD 83)
N: 4393669.2
E: 571624.6



REFERENCE NOTES
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Drafted by: E.A.M.

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Signed: [Signature]
L.L.S. #2124 : Ernest J. Benchek III



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OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304
Well Type: Oil Waste Diposal Production Deep
 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: 471.6745 +/-
LEASE NUMBERS: _____

DATE: MAY 28, 2014
OPERATOR'S WELL #: STATLER NO. 2H AS-DRILLED
API WELL #: 47 61 01660 H6A
STATE COUNTY PERMIT

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: 15,973'
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

01/16/2015