

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

API 47-061-~~01688~~ 01688 County Monongalia District Clay
Quad Blacksville, WV Pad Name Coastal Field/Pool Name Blacksville
Farm name Coastal Forest Resources Company Well Number 13H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia St. 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 4395406.8 Easting 568198.1
Landing Point of Curve Northing 4395668.9 Easting 568325.1
Bottom Hole Northing 4397091.0 Easting 567253.1

Elevation (ft) 1,430' 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 Based Mud for horizontal section, BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-SEAL PLUS, HRP, LIME, M-I WATE (BARITE), M-I-X II MEDIUM, MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM

Date permit issued 10/28/2014 Date drilling commenced 11/21/2014 Date drilling ceased 3/11/2015
Date completion activities began N/A Date completion activities ceased N/A
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 1,243' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2,510' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 600', 1,200' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reg. power
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Reviewed by:
JR
10/30/2015

API 47-061 - ~~01008~~ 01688 Farm name Coastal Forest Resources Company Well number 13H

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	30	24	50	N	N/A	N/A	Y to surface
Surface	17.5	13 3/8	1,384'	N	54.5	N/A	Y 40 bbl return
Coal							
Intermediate 1	12.25	9 5/8	2,779'	N	40	N/A	Y 15 bbl return
Intermediate 2							
Intermediate 3							
Production	8.5	5.5	14,692'	N	20	N/A	Estimated top 2000'
Tubing							
Packer type and depth set							

Comment Details _____

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	4,500 psi ready mix	36.4		.75	27.27	CTS	48
Surface	Class A	1,054	15.2	1.27	1,271	CTS	8
Coal							
Intermediate 1	Class A	889	15.2	1.26	1,074	CTS	8
Intermediate 2							
Intermediate 3							
Production	50-50 Premium NE - 1.3% R-3.3% MPA 110	2,804	14.5	1.17	2,661	Estimated 2,000'	48
Tubing							

Drillers TD (ft) 14,719' Loggers TD (ft) 14,694'

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

Plug back procedure _____

Kick off depth (ft) 6,560'

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: bow spring centralizers every 3rd joint or aprox 120'

Intermediate: bow spring centralizers every 3rd joint or aprox 120'

Production: Hard bodied spiral centralizers every other joint or aprox 80' from TD to KOP then bow spring from KOP to 9 5/8" every forth joint or aprox 140'

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS This well has not yet been completed

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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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)
Sand/Shale	0	40			sand/shale
Red Rock	40	590			red rock
Sand/Shale/Silt	590	831			sand/shale/silt
Sand/Shale	831	2400			sand/shale
Limestone	2400	2563			limestone
Sand/Shale	2563	2825			sand/shale
Shale	2825	6399			shale
Sandstone/Shale	6399	7757			sandstone/shale
Burkett	7757	7940	7982	8193	shale
Geneseo	7940	7990	8193	8264	shale
Tully	7990	8041	8264	8341	limestone
Hamilton	8041	8121	8341	8550	shale
Marcellus	8121	8189	8350	8711	shale
Cherry Valley	8189	8193	8711	8736	limestone
Lower Marcellus	8193		8736		shale

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CEMENT JOB REPORT



CUSTOMER NORTHEAST NATURAL ENER	DATE 22-NOV-14	F.R. # 10011120026	SERV. SUPV. Brian Lough
LEASE & WELL NAME COASTAL 13H - API 47081018880000	LOCATION CLAY		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	HANGER TYPES	MD	TVD
13-3/8" Top Cem Plug, Nitr crr, Phe	Guide Shoe, Cement Nose 13-3/8 i Float Collar, AI Flap, 13-3/8 - 8rd						

PHYSICAL SLURRY PROPERTIES						
MATERIALS FURNISHED BY BJ	LAB REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN
H2O			8.34			180
6% GELL+CELLOFLAKE+MILL SEAL			8.5			25
H2O			8.34			10
PREM NE-1+1%CACL		1,054	15.2	1.26	5.76	03:01
H2O			8.34			209
Available Mix Water	500 Bbl.	Available Displ. Fluid	500 Bbl.	TOTAL		654 140.56

HOLE			TBG-CSG-D.P.					COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
17.5	30	1400	12.62	13.38	54.5	CSG	1380		J-55	1380	1338	

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.
23.	24	95.	CSG	40	40					13.375	8-RND	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.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RATED	Operator		
209	BBLs	H2O	8.34	477	0	0	0	0	2184	750	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	2950 PSI
						CIRCULATING WELL - RIG	BJ <input checked="" type="checkbox"/>
17:30						ARRIVE ON LOCATION-JOB TIME 2200 HRS	
22:30						SPOT EQUIPMENT ON LOCATION	
22:40						SAFETY MEETING WITH BHI CREW	
22:50						RIG IN TO WELL AND TANKS	
00:10						SAFETY MEETING WITH RIG CREW AND COMPANY MAN	
00:44	85		5	5	H2O	LINE FILL	
00:44	0		.2	.2	H2O	PRESSURE TEST 2950 PSI	
00:48	292		7	180	H2O	H2O SPACER TO LOAD HOLE	
01:30						SHUT DOWN TO CLEAN ROCKS FROM ROCK CATCHER	
01:40	135		5	25	GELL	6% GELL+CELLOFLAKE+FEDSEAL	
01:55	135		5	10	H2O	H2O WATER SPACER	
02:10	245		5.5	230	CEMENT	1054 SKS CLASS A PREM.NE-1+1%CACL BWOC-48-DEGREEF	
03:00	0					SHUT DOWN / DROP PLUG	
03:02	575		5.5	209	H2O	DISPLACEMENT	
03:38	900		3		H2O	LAND PLUG	
03:43	0					RELEASE AND CHECK FLOATS	

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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 2950 PSI		
BUMPED PLUG		TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/>		
Y	N	Y	N			SERVICE SUPERVISOR SIGNATURE:		
		575	40	664	0			
						SPOT TOP OUT CEMENT Y N		

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CEMENT JOB REPORT



CUSTOMER NORTHEAST NATURAL ENER	DATE 30-NOV-14	F.R. # 10011121726	SERV. SUPV. Brian Lough
LEASE & WELL NAME COASTAL 13H - API 47061016880000	LOCATION CLAY		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
9-5/8" Top Cem Plug, Nitrile cvr, Phc	Guide Shoe, Cement Nose, 9-5/8 i Float Collar, Al Flap, 9-5/8 - 8rd						

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	
H2O			8.34				200		
6% GEL WITH FLAKE <i>500# Gel - 100# Flake</i>			8.5				25		
H2O			8.34				10		
CLASS-A (PREM NE-1)		889	15.2	1.25	5.75	04:10	191	117.46	
H2O DISPLACEMENT			8.34				208		
200 LBS SUGAR ON THE SIDE			8.4				20		
Available Mix Water <u>500</u> Bbl. Available Displ. Fluid <u>500</u> Bbl.				TOTAL				654	117.46

HOLE			TBG-CSG-D.P.					COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE
12.25	30	2830	8.921	9.625	36	CSG	2732		J-55	2782	2732	

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	13.38	55	CSG	1370	1370					9.625	8 RND	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.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RATED	Operator		
208	BBLs	H2O DISPLACEMENT	8.34	1000	0	0	0	0	0	0	3110	1300	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	4150 PSI
						CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/>	
13:00						ARRIVE ON LOCATION. JOB TIME 1400 HRS	
13:30						SPOT EQUIPMENT	
13:40						SAFETY MEETING WITH BHI CREW	
13:50						RIG INTO WELL & TANKS	
16:45						SAFETY MEETING WITH RIG CREW & CO.MAN	
17:12	85		5	5	H2O	LINE FILL	
17:13	0		.2	.2	H2O	PRESSURE TEST TO 4150 PSI	
17:15	300		6.8	200	H2O	PROCESSED H2O SPACER TO LOAD HOLE	
17:46	195		5.5	25	GEL	6% GEL WITH FLAKE <i>500# Gel - 100# Flake</i>	
17:49	190		5	10	H2O	FRESH WATER SPACER	
17:51	400		5.3	191	CEMENT	889 SACKS OF CLASS A-(PREM NE-1) TEMP- 63.6 degree f	
18:27	0					SHUT DOWN / DROP PLUG	
18:29	1100		6	208	H2O	DISPLACEMENT WITH PROCESSED H2O	
19:04	1280		2.3		H2O	LAND PLUG	
19:06	0					RELEASE PRESSURE / CHECK FLOATS	
19:07						END JOB. (15 BBL SLURRY RETURNS)	

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PRESSURE/RATE DETAIL							EXPLANATION		
TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW			
	PIPE	ANNULUS				X	CO. REP.	X	
						TEST LINES	4150 PSI		
						CIRCULATING WELL - RIG		BJ	X
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:		
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	1000	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	15	651	0	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N			

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CEMENT JOB REPORT



CUSTOMER NORTHEAST NATURAL EN		DATE 13-MAR-15	F.R.# 10011143805	SERV. SUPV. Brian Lough										
LEASE & WELL NAME COASTAL #13H - API 47061016880000		LOCATION CLAY		COUNTY-PARISH-BLOCK Monongalia West Virginia										
DISTRICT Clarksburg		DRILLING CONTRACTOR RIG # PIONEER 63		TYPE OF JOB Long String										
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS		MD	TVD	HANGER TYPES		MD	TVD			
Cement Plug, Rubber, Top 5-1/2		Float Collar, Al Flap, 5-1/2 - 8rd Guide Shoe, Cement Nose, 5-1/2												
PHYSICAL SLURRY PROPERTIES														
MATERIALS FURNISHED BY BJ				LAB REPORT NO.		SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER		
UltraBond 10							13				50			
MultiBond							13				50			
50:50 Poz (Fly Ash):Class A+.25%R-3+.2% MPA-170						2,804	14.5	1.17	5.15		586.14	343.67		
Sugar Water before Plug (100 LBS)							8.34				3			
Fresh Water							8.34				326.40			
150 LBS OF SUGAR FOR CLEAN UP							8.34				50			
Available Mix Water		750 Bbl.		Available Displ. Fluid		750 Bbl.		TOTAL		1065.54		343.67		
HOLE			TBG-CSG-D.P.						COLLAR DEPTHS					
SIZE	% EXCESS	DEPTH	ID	OD	WGT.	TYPE	MD	TVD	GRADE	SHOE	FLOAT	STAGE		
8.5	10	14728	4.778	5.5	20	CSG	14728	8210		14718	14708			
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.	
8.8	9.63	40	CSG	2799	2799					5.5	BUTT	SYNTHETIC MUD	12.5	
DISPL. VOLUME		DISPL. FLUID		CAL. PSI		CAL. MAX PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		MIX WATER
VOLUME	UOM	TYPE	WGT.	BUMP PLUG	TO REV.	SQ. PSI	RATED	Operator	RATED	Operator	RATED	Operator		
326.4	BBLS	Fresh Water	8.34	400C	0	0	0	0	0	0	10112	500C	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 700C PSI								
						CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input checked="" type="checkbox"/>								
02:35						ARRIVE ON LOCATION. JOB TIME 0130 HOURS								
02:45						SPOT EQUIPMENT ON LOCATION								
03:05						SAFETY MEETING WITH BHI CREW								
03:12						RIG IN TO WELL & TANKS								
04:30						TROUBLE WITH PUMP ON BATCH MIXER								
07:30						SAFETY MEETING WITH RIG CREW								
07:45						RIG IN HEAD & MANIFOLD / WASH UP LINES								
08:44	900		5	5	H2O	LINE FILL								
08:45	0		1	1	H2O	PRESSURE TEST TO 7000 PSI								
08:16	100C		4	47	PREFLUS	ULTRABOND								
08:58	800		5.5	46	PREFLUS	MULTIBOND								
09:07	850		6	568	CEMENT	2804 SACKS OF CLASS A 50/50 POZ +.25% R-3+.2% MPA-170. TEMP WAS 55 DEGREES f								
10:45	0		6	6	H2O	SHUT DOWN / FLUSH LINES								
10:48	500		3	3	SUGAR	SUGAR WATER (100 LBS)								
10:51	0					SHUT DOWN / DROP PLUG								
10:52	405C		7.6	332	H2O	DISPLACE WITH FRESH WATER								

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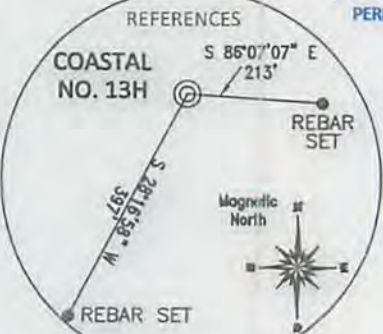
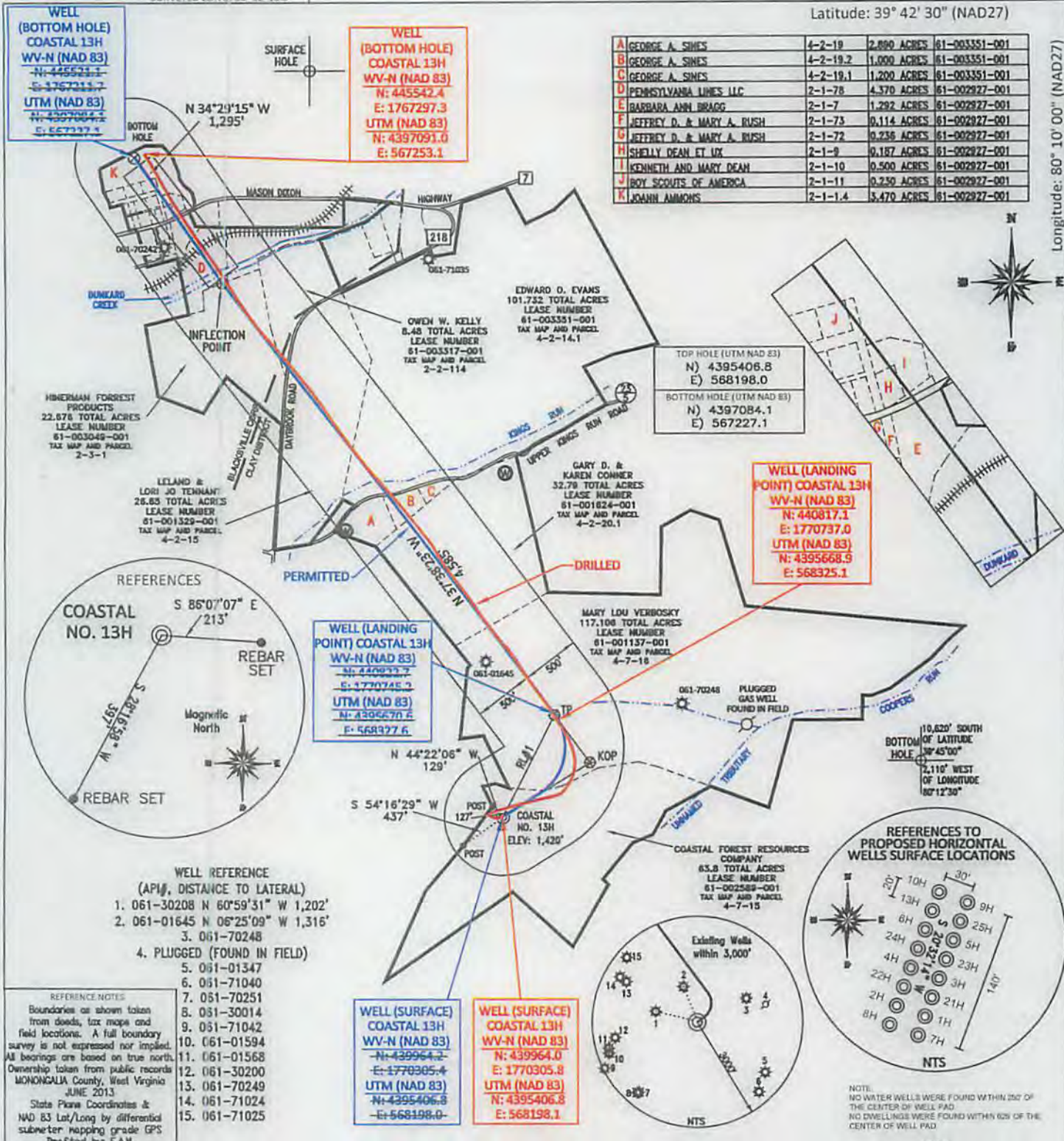
CEMENT JOB REPORT



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 700C PSI			
11:45	350C		3		H2O	CIRCULATING WELL - RIG <input checked="" type="checkbox"/> BJ <input checked="" type="checkbox"/>			
12:00	0					SHUT DOWN. PLUG DIDNT LAND			
12:10	0					RELEASE PRESSURE TO PUMPER. FOUR BBLs H2O RETURN TO PUMPER. FLOATS HELD			
						END JOB			

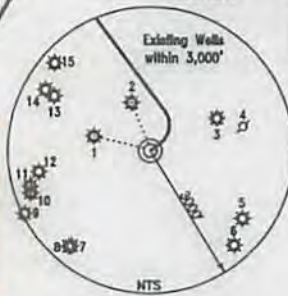
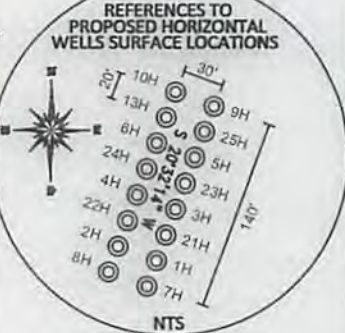
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	4000	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	10	1012	0	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

Receiver
Office of *[unclear]*
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- WELL REFERENCE (API#, DISTANCE TO LATERAL)
- 061-30208 N 60°59'31" W 1,202'
 - 061-01645 N 06°25'09" W 1,316'
 - 061-70248
 - PLUGGED (FOUND IN FIELD)
 - 061-01347
 - 061-71040
 - 061-70251
 - 061-30014
 - 061-71042
 - 061-01594
 - 061-01568
 - 061-30200
 - 061-70249
 - 061-71024
 - 061-71025

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 JUNE 2013
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS Drafted by EAM



NOTE: NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD AND NO DRILL HOLES WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD.

FILE #: NNE12
DRAWING #: 2391
SCALE: PLAT: 1" = 1,800'
TICK MARK: 1" = 2,000'
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: *[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 CREEK
COUNTY/DISTRICT: MONONGALIA / CLAY
SURFACE OWNER: COASTAL FOREST RESOURCES COMPANY
OIL & GAS ROYALTY OWNER: WACO OIL AND GAS, ET AL
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: 8,200.67' TMD: 14,719'
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301
DATE: OCTOBER 5, 2015
OPERATOR'S WELL #: COASTAL NO. 13H AS-DRILLED
API WELL #: 47 61 01688 H6A
STATE COUNTY PERMIT
ELEVATION: 1,420'
QUADRANGLE: BLACKSVILLE, WV
ACREAGE: 63.8 +/- 10/30/2015
ACREAGE: 389.613 +/-
DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301