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10/30/2015

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

API 47_061 01680	County Monon	galia Di	strict Clay	
Quad Blacksville, WV			eld/Pool Name BI	acksville
Farm name Coastal Forest Res			ell Number <u>8H</u>	
Operator (as registered with the OC	OG) Northeast Natural	I Energy LLC		
Address 707 Virginia St. Suite	1200 City Ch	arleston	State WV	_{Zip} _25301
As Drilled location NAD 83/UT Top hole	Northing 4395372.6		568185.8	
Landing Point of Curve	Northing 4394937.2		567885.7	
Bottom Hole	Northing 4393143.1	Easting	569271.6	<u> </u>
Elevation (ft) <u>1,420'</u> GI	L Type of Well	New DExisting	Type of Report	□Interim ■Final
Permit Type Deviated D	Horizontal 🛢 Horizon	ntal 6A 🛛 Vertical	Depth Type	🗆 Deep 📕 Shallow
Type of Operation Convert	Deepen 🛽 Drill	🗆 Plug Back 🛛 🗆 Redrillin	g 🗆 Rework	Stimulate
Well Type 🗆 Brine Disposal 🗆 C	BM 🛢 Gas 🗆 Oil 🗆 Se	condary Recovery 🗆 Solu	tion Mining 🗆 Sto	rage 🗆 Other
Type of Completion	Multiple Fluids Produ	uced 🛚 Brine 🖉 🖉 🖉	nGL o Oil	□ Other
Drilled with	- ,			
Drilling Media Surface hole Production hole Mud Type(s) and Additive(s) Synthetic Based Mud for Horizontal Section	🗅 Fresh Water 🗆 Brin	e		Tresh Water Brine
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM	I RENTAL, MEGAMUL, SAFE-CAR	B 250, VERSATHIN HF, VERSAWET	, VG-PLUS, VINSEAL ME	DIUM, WALNUT NUT PLUG MEDIUM
Date permit issued07/25/201 Date completion activities began	4 Date drilling com 6/26/2015	menced 11/8/2014 Date completion activit	Date drilling c	eased 3/23/2015 7/9/2015
Verbal plugging (Y/N)	Date permission grante			
· ••••••••••••••••••••••••••••••••••••	_ 2 are permission grame			
Please note: Operator is required to	o submit a plugging applic	cation within 5 days of vert	al permission to p	lug
Freshwater depth(s) ft	1,243'	Open mine(s) (Y/N) dep	ths	N
Salt water depth(s) ft	2,510'	Void(s) encountered (Y/	N) depths	N
	0' , 1,200'	Void(s) encountered (Y/ Cavern(s) encountered (UIICO	P/GRiyad	N
Is coal being mined in area (Y/N)	N	Unice	or Cil & Gas	3
		007	07 2015	Reviewed by:

WR-35 Rev. 8/23/13

API 47-061 01680 Farm name Coastal Forest Resources Company Well number 8H

STRINGS Conductor	Size	Size	Depth				
Conductor			Depth	Used	wt/ft	Depth(s)	* Provide details below*
	30	24	50'	N	N/A	N/A	Y to surface
Surface	17.5	13 3/8	1,390	N	54.5	N/A	Y 60 bbls
Coal				1			
Intermediate 1	12.25	9 5/8	2,762'	N	40	N/A	Y 25 bbls
Intermediate 2							
Intermediate 3			[
Production	8.5	5 1/2	16,512'	N	20	N/A	Y top 2000'
Tubing							

Comment Details

CEMENT Class/Type Number Slurry Yield Volume Cement WOC DATA of Cement (ft ³/sks) (ft¹) of Sacks Top (MD) wt (ppg) (hrs) Conductor 4,500 psi ready mix 36.4 .75 27.27 CTS 48 Surface Class A 1,202 15.2 1.27 1,271 CTS 8 Coal Intermediate I CTS 15.2 1,074 Class A 883 1.26 8 Intermediate 2 Intermediate 3 Production 0'30 Premiers NE - 1 3% R-3.3% MPA 17 3,177 14.5 1.17 2,661 Estimated 2,000* 48 Tubing Drillers TD (ft) 16,520' Loggers TD (ft) 16,495 Deepest formation penetrated Marcellus Plug back to (ft) N/A Plug back procedure ____ Kick off depth (ft) 5.989" □ deviated/directional Check all wireline logs run □ caliper 🗆 density □ induction □ neutron 🗆 resistivity 📕 gamma ray □ temperature □sonic Conventional Were cuttings collected ■ Yes □ No Well cored 🗆 Yes 📕 No Sidewall DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Surface: bow spring controlutors every 3rd joint or aprox 120 Intermediate: bow spring centralizers every 3rd joint or aprox 120' Production: Hard bodied spiral cantralizars every other joint or aprox 80' from TD to KOP then bow spring from KOP to 9 5/8" every farth joint or aprox 140' Received DETAILS 38 Stages, 40 Shols per Slage WAS WELL COMPLETED AS SHOT HOLE 📕 Yes 🗆 No Office of Cil & Gas OCT 07 2015 WAS WELL COMPLETED OPEN HOLE? 🗆 Yes 🔳 No DETAILS

WERE TRACERS USED 🗆 Yes 📕 No 👘 TYPE OF TRACER(S) USED ___

API 47- 061 _ 01680

Farm name_Coastal Forest Resources Company_Well number_8H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					*Please See Attachment
	i				

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 Pressur <u>e (PSI)</u>	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
				<u>+-</u>				
				1 1			Rect	aivad
				1		C	ffice of	90 2015 2015
							OCTO	7 2015

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13

API 47- 061	_ 01680	Farm	n name_Coastal I	Forest Resou	urces Compa	ny Well nur	mber_8H
PRODUCING Marcellus	FORMATION	<u>N(S)</u>	<u>DEPTHS</u> 8,242.03'	TVD1	6,520'	MD	
						_	
Please insert ad	lditional pages	s as applicable.					
GAS TEST	🗆 Build up	Drawdown	Open Flow	0	IL TEST	Flow DP	ump
HUT-IN PRE	SSURE Su	rface 4142	psi Botto	m Hole	psi	DURATIC	ON OF TEST 48 hrs
PEN FLOW	Gas 5865 me	Oil cfpd	NGL bpd				ASURED BY ed ∎ Orifice □ Pilot
ITHOLOGY/ ORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD			AND RECORD QUANTITYAND WATER, BRINE, OIL, GAS, H₂S, ETC]
	0		0	MD			ase See Attachment
					-		
		-					
		-			-		
	1						
			1				
lease insert ad	ditional pages	as applicable.					
	ctor Pioneer 6						
ddress 1250 N	IE Loop 410 Suite	e 1000	City	San Antonio		State	X 78209
ogging Comp	any Baker Hug	ahes					
ddress 837 Ph	ilippi Pike		City	Clarksburg		StateW	/V Zip _26301
ementing Cor	npany_Baker H	lughes					
ddress 837 Ph	ilippi Pike		City	Clarksburg		State	V Zip 26301
timulating Co ddress_1080 U	inpany	umberger	City	Weston		State	Office of Cil & Gas
lease insert ad	lditional pages	as applicable.					
completed by	Zack Arnold	0	67		Telephone	304.203.80	59
AND A DESCRIPTION OF A		///	Title G	eneral Manage	0		nte 10/6/2015

					Describe rock type and record quantity and type of fluid
		Bottom Depth in FT	Top Depth in FT		(freshwater, brine, oil, gas, H2S,
Lithology/Formation	Top Depth in FT Name TVD	۵۷	QW	Bottom Depth in FT MD	etc)
Sand/Shale/Silt	0	40			sand/shale/silt
Red Rock	40	120			red rock
Sand/Shale/Silt	120	2407			sand/shale/silt
Limestone	2407	2495			limestone
Big Injun	2495	2625			sandstone
Sand/Shale	2625	3140			sand/shale
Shale	3140	5140			shale
Grey Shale	5140	5488			shale
Shale	5488	5898			shale
Sandstone/Shale	5898	7754			shale/sandstone
Burkett	7754	7928	8152	8370	shale
Geneseo	7928	7974	8370	8434	shale
Tully	7974	8016	8434	8511	limestone
Hamilton	8016	8131	8511	8716	shale
Marcellus	8131	8187	8716	8861	shale
Cherry Valley	8187	8191	8861	8872	limestone
Lower Marcellus	8191		8872		shale

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CUSTOMER	NORTH	HEAST	NATURAL	ENER	D	ATE 12-	NOV-14	4 F.I	R. #	100111	17120		SE	RV. SUPV		Jason H	Matheny	1	
LEASE & WE COASTAL		100 To 100	16800000		LC	CLAY								UNTY-PA Monongali					
DISTRICT Clarksburg	,				DF	RILLING C	ONTR	ACTOR	RIG #	ŧ			TY	PE OF JOI Surface					
SIZE	& TYPE C	OF PLUC	3S	L	IST-CS	-HARDW	ARE		ME	CHANIC	AL BARR	IERS	MD	TVD	HA	NGER T	TYPES	MD	TVD
BJ Cement	Plug, Rul	bber, To	op 13-3/8	Guide S	hoe, Ce	ement No	se 13-3	3/8 in											
						1			-		<u> </u>	PHYSI	CAL SL	JRRY PRO	OPER	RTIES	-	-	-
MATERIA	LS FURN	ISHED E	BY BJ			LAB	REPOR	RT NO.	0	ACKS OF MENT	SLURRY WGT PPG	1	URRY /LD FT	WATER GPS		PUMP TIME R:MIN	Bb		Bbl MIX VATER
WATER A	HEAD/FL	AKE								0	8.3	4	0		0	00:00	1	70	
GEL/FLAK	E									0	8.5	6	0		0	00:00		25	
H2O										0	8.3	4	0		0	00:00	-	10	
PNE-1 + 29	6 CACL2	2								1,202	15.0	6	1.27	5.7	77 (03:00	271	.9	165.1
H2O										0	8.3	4	0	1	0 0	00:00	208	3.7	
1000# GEL										0	(D	0		0 0	00:00		0	
400# SUGA	R								1.1	0	(D	0		0 0	00:00		0	
100# FLAK	E							-		0	(2	0		0 0	00:00		0	
1 TRP										0	(c	0		0 0	00:00		0	
Available Mi	x Water_		400		вы.	Available	Displ.	Fluid		400	E	вы.		то	TAL	Ĺ	685	.6	165.1
	HOLE	5				_	TBG	G-CSG-I	D.P.	-					C	OLLAR	DEPTHS		
SIZE 17.5	% EXC 50	ESS	DEPTH 1425	12.62	OD	WGT	_	TYPE		MD	TVD	GR		SHOE	204	FL	OAT	ST	AGE
			1425	12.62	1	-	4.5 CS			139		4 J-55			394	-	1350		
ID OD IN	LAST CAS	TYPE	MD	TVD	1 Calleria	R-CMT RE		1. S.	R		F. DEPTH			CONN	T	W	ELL FLU	A	WGT.
	63.4 CS				NO-PA				0		0	7.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	3.375			HER			0
DISPL. VO	LUME		DISP	L FLUID	-	CAL. PS	SI C	AL MAD	(PSI	OP. MA	X N	AX TE	G PSI	1	MAX	CSG PS	SI		AIX
VOLUME	UOM		TYPE		NGT.	BUMP PL	UG	TO RE	v.	SQ. PS	I RAT	ED	Operato	RAT	TED	Op	erator	W	ATER
210	BBLS	H20			8.34	4	81		0		0	0		0	2119	9	700	TAN	S
EXPLANATIO	N: TROU	BLE SE	ITING TOC	L, RUNN	NG CSC	G, ETC. PF	RIOR TO	O CEME	ENTIN	G:				1					
		PI	RESSURE/	RATE DE	TAIL								E	XPLANAT	ION				
TIME	PRE	SSURE	- PSI	RATE		I. FLUID		UID	SAF	ETY ME	ETING; E	J CRE	WX	CO. REP.	X				
HR:MIN.	PIPE	A	NNULUS	BPM	P	JMPED	TY	PE		T LINES		2000	PSI						
									CIRC	CULATIN	G WELL	- RIG		BJ	X	1			-

0 0 0 ARRIVED ON LOCATION 18:00 0 0 120 0 5.8 170 H2O/FLAK WATER AHEAD 22:15 22:50 150 0 5.8 50 GEL/FLAK PRE-FLUSH ō 5.8 10 H2O 23:00 120 SPACER 23:02 200 0 5.8 SLURRY PNE-1 + 2% CACL2 23:59 0 0 0 0 H2O S/D RELEASE PLUG 0 7 0 H2O START DISPLACEMENT 00:00 120 00:32 695 0 0 209 H2O END DISPLACEMENT 00:35 0 0 0 0 N/A BLEED OFF/RIG OUT PSI TO TEST BBL.CMT TOTAL PSI SPOT SERVICE SUPERVISOR SIGNATURE: BUMPED BUMP FLOAT **RETURNS**/ BBL. LEFT ON TOP OUT Received PLUG PLUG EQUIP. REVERSED PUMPED CSG CEMENT Hoffice of Cil & Gas 500 Y N 60 699 0 Y Y Ν N OCT 07 2015

Report Privated cn: NOV-12-14 01:15:45

10/30/2015

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CUSTOMER	NORTH	HEASTN	ATURAL I	ENER	D	ATE 14-NO	V-14 F.I	R. #	100111	18060	D		SE	RV. SUP	V. S	cott J C	arson		
LEASE & WE COASTAL			16800000		L	BLACKSVIL	LE							UNTY-P/ Mononga					
DISTRICT Clarksburg					D	RILLING CON	TRACTOR	RIG	#					PE OF JO					
SIZE	& TYPE (OF PLUG	S		LIST-CS	G-HARDWAR	E	ME	CHANIC	L BA	ARRIE	RS	MD	TVD	HAN	IGER T	YPES	MC	D TVD
BJ Cement	Plug, Ru	bber, T	op 9-5/8	Float C	ollar, A	Flap, 9-5/8	- 8rd	NO	NE						NON	NE			
				Guide	Shoe, C	ement Nose	, 9-5/8 i											-	-
								1			PI	HYSIC	AL SLU	JRRY PF	OPER	TIES			-
MATERIAL	LS FURN	ISHED E	γBJ			LAB RE	PORTNO.		ACKS OF MENT	SLUF WG	Т	Y	URRY LD T	WATE GPS		PUMP TIME R:MIN	Bb		Bbi MIX WATER
PROCESS	ED WAT	ER							T	1	8.34						2	10	
GEL/FLAKE	1									1	8.45							25	
H2O	_			-						8	8.34							10	
PREMIUM	NE-1 2%	6 CALC	IUM			N/A			883		15.2		1.26	5.	76 0	0:00	1	98	121.0
H2O										8	8.34						2	06	
200# SUGA	RONS	IDE									0							0	
Available Mit	Water_	1	500	_	Bbl.	Available Di	spl. Fluid		500		Bb	ol.		т	DTAL	1	6	49	121.0
	HOLE		-				TBG-CSG-I	D.P.						-	CC	DLLAR	DEPTHS	3	
SIZE 12.25	% EXCI 30	ESS	2816	ID	OD		TYPE		MD	T	-	GRA	-	SHOE	_	FL	DAT	5	TAGE
			2010	8.83			CSG		2761			J-55			761		2716	_	
ID OD V	AST CAS	TYPE	MD	TVD		R-CMT RET-E			PER					CONN	-		ELL FLU	JID	
	55. CS		139		NOPA		U	EPTH	TOP		BTM		9.625 8	THREAD BRD		HER	i be at		WGT.
18. 17.5	OP	EN HOI	LE 142	0 1420)	-	1			1			1					1	
DISPL. VOI	UME		DISP	L. FLUI)	CAL. PSI	CAL MAX	K PSI	OP. MAX	(MA	X TB	G PSI		MAX	CSG PS	SI		MIX
VOLUME	UOM		TYPE	1	WGT.	BUMP PLUG	TO RE	V.	SQ. PSI	F	RATE	D	Operato	r RA	TED	Op	erator		WATER
206	BBLS	H2O			8.34	970		0		0		0		0	2816		1400	TAN	IK
EXPLANATION	-)L, RUNI	NING CS		R TO CEM		-		_	1							

		PRESSURE/	RATE DETAIL			EXPLANATION
TIME	PRESSU	RE - PSI	RATE	Bbl. FLUID	FLUID	SAFETY MEETING: BJ CREW X CO. REP. X
HR:MIN.	PIPE	ANNULUS	BPM	PUMPED	TYPE	TEST LINES 4150 PSI
						CIRCULATING WELL - RIG BJ X
11:00						ARRIVE ON LOCATION 11-14-2014
12:00						PRE-JOB RIG-IN SAFETY MEETING
12:15						RIG-IN
15:00						PRE-JOB SAFETY MEETING
15:26	120		5	5	H2O	LINE-FILL
15:28	0					BLEED-OFF HAD TO CHANG RUBBER GASKET
15:39	0				H2O	PRESSURE TEST 4150#
15:41	120		5	0	PROCESS	WATER AHEAD
15:51	0					SHUT-DOWN ROCK-CATCHER FULL OF ROCKS
15:52	120		5			RESTART
16:21	0					SHUT-DOWN ROCK-CATCHER FULL Received
16:23	120		5		PROCESS	RESTART
16:31	0					SHUT-DOWN ROCK-CATCHER FULL RESTART SHUT-DOWN CHECK ROCK-CATCHER SWITCH TO FRESH WATER
16:33	120		5	235	H2O	DESTADT
16:34	300		5.2	25	GEL/FLAK	PRE-FLUSH OCT 07 2015
16:40	300		5.3	10	H2O	SPACER

Report Printed on NOV-14-14 18 07 29

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CEMENT JOB REPORT



		THESSORE	RATE DETAIL	L			EXPLANATION
TIME HR:MIN.	PRESSU	RE - PSI ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID	TEST LINES	
16:42	320		5.2	100	CLUDDY	· · · · · · · · · · · · · · · · · · ·	IG WELL - RIG BJ X
17:20	0		5.2	198	SLURRY		MIUM NE-1 2% CALCIUM
17:21	600		6.5	200	420		/N RELEASE-PLUG
17:53	1380		0.5	209	H2O		PLACEMENT
17:56	0					SHUT-DOW	
17:58	0						PRESSURE
18:00	U					CLOSE-IN	
18:10						RIG-OUT	RIG-OUT SAFETY MEETING
BUMPED PLUG Y N	PSI TO BUMP PLUG 970	TEST FLOAT EQUIP. Y N	BBL.CMT RETURNS/ REVERSED 25	TOTAL BBL. PUMPED 690	PSI LEFT ON CSG 0	SPOT TOP OUT CEMENT Y N	SERVICE SUPERVISOR SIGNATURE:
<u> </u>	510		25	050	U	T	per al
							Received Office of Qil & C
							Received Office of Qil & O 0CT 0 7 2015

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	LL NAME	10000		L	OCATION						1.	JNTY-P					
	L #8H - API 4	70610168	00000	-	CLAY		212.00			_	-	Aonong		Vest Vir	ginia		
Clarksbur	9			DI	PIONEEI	ONTRACTOR R 63	RIG #					E OF JC					
SIZE	& TYPE OF PI	UGS	1	IST-CS	G-HARDWA	ARE	MEC	HANIC	CAL BARRIE	IRS	MD	TVD	HA	NGER 1	TYPES	MD	TVD
Cement Pl	ug, Rubber,	Top 5-1/2	ihFloat C	ollar,	AI Flap, 5-	-1/2 - 8rd	1										
			Guide	Shoe,	Cement N	lose, 5-1/2				1							-
							[Pł	IYSICA	LSLU	RRY PR	OPER	RTIES		-	
MATERIA	LS FURNISHE	D BY BJ			LAB F	REPORT NO.	SAC OI CEMI	F	SLURRY WGT PPG	SLUI YLI FT		WATE GPS	·	PUMP TIME IR:MIN	Bb SLURF		Bbl MIX WATER
UltraBond	10								13							50	
MultiBond					14		1		13							50	-
	(Fly Ash):C	lass A					3	3,177	14.5	1	1.17	5	.15		664	.25	389.24
	ter before P								8.34			-			al al	3	
Fresh Wat		-							8.34						366	.14	
Available Mi	x Water	750		Bbl.	Available	Displ. Fluid		750		ol.	-	т	OTAL		1133		389.24
Available Mi	HOLE				, trancolo	TBG-CSG-I				-			0.000		DEPTH	_	000.2
SIZE	% EXCESS	DEPTH	I ID	00	WGT.			MD	TVD	GRAD	E	SHO		ALC: NO. 10 10 10	OAT	1.0	STAGE
8.5		1652				20 CSG		165		P-110			5492		16482	2	
1	LAST CASING	1		PK	R-CMT RE	T-BR PL-LINE	R	PE	RF. DEPTH		TOP	CONN		V	VELL FL	UID	
ID OD			D TVD		AND & TYP	PE D	EPTH	тор	BTM	SI		THREAD		TYPE			WGT.
8.8 9.63	40 CSG	23	762 276	f							5.5E	BUTT	S	YNTHE	ETIC M	UD	12.5
DISPL. VO	LUME	DI	SPL. FLUI)	CAL. PS	GAL. MAD	X PSI	OP. M	AX M/	X TBG	PSI		MAX	CSG P	SI		MIX
VOLUME	UOM	ТҮР	E	WGT.	BUMP PL	UG TO RE	V.	SQ. P	SI RATE	D O	perato	R	ATED	0	perator		WATER
366.1	BBLS Fre	esh Water		8.34	4 40	00	0		0	0	Junut		101			TA	NK
		SETTING T	OOL, RUN	NING C			0					0	101	12		TA	NK
	DN: TROUBLE	SETTING T	OOL, RUN	NING C	SG, ETC. P	RIOR TO CEN		IG:	0	0	E		101	12		TA	NK
TIME	PRESSU	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL	SG, ETC. P bl. FLUID	RIOR TO CEN	0 IENTIN	IG: ETY MI	0 EETING: B	JCREW	EX		101	12		TA	NK
XPLANATIC	DN: TROUBLE	SETTING T	OOL, RUN	NING C TAIL	SG, ETC. P	RIOR TO CEN	0 MENTIN SAFE TEST	IG: ETY MI	0 EETING: B. S	0 J CREW 730C P	EX		101			TA	NK
XPLANATIC	PRESSU	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL	SG, ETC. P bl. FLUID	RIOR TO CEN	0 MENTIN SAFE TEST CIRC	IG: ETY MI I LINES	0 EETING: B	J CREW 730C P RIG	E) X SI X	0 KPLANA CO. RE BJ	101 TION P. X		5000	TA	NK
XPLANATIO TIME HR:MIN.	PRESSU	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL	SG, ETC. P bl. FLUID	RIOR TO CEN	0 MENTIN SAFE TEST CIRC ARR	IG: ETY MI F LINE: ULATI IVE C	0 EETING: B S NG WELL -	J CREW 730C P RIG TION.	E) X SI X	0 KPLANA CO. RE BJ	101 TION P. X		5000	TAI	NK
TIME HR:MIN. 23:45	PRESSU	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL	SG, ETC. P bl. FLUID	RIOR TO CEN	0 SAFE TEST CIRC ARR SPO	IG: T LINES ULATI IVE C T EQ	0 EETING: B. S NG WELL - DN LOCA	0 J CREW 730C P ← RIG TION. T	E) X SI X JOB	0 KPLANA CO. RE BJ TIME	101 TION P. [X MID]		5000	TAI	NK
TIME HR:MIN. 23:45 00:50	PRESSU	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL	SG, ETC. P bl. FLUID	RIOR TO CEN	0 SAFE TEST CIRC ARR SPO SAFE RIG	IG: T LINES ULATI IVE C T EQ ETY N IN TC	0 EETING: B S NG WELL - DN LOCA UIPMEN MEETING D WELL &	0 J CREW 730C P RIG TION. F WITH TANH	EX SI JOB BHI SS	0 KPLANA CO. RE BJ TIME CREV	101 TION P. X MIDI		5000	TAI	NK
TIME HR:MIN. 23:45 00:50 01:05	PRESSU	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL	SG, ETC. P bl. FLUID	RIOR TO CEN	0 SAFE TEST CIRC ARR SPO SAFE RIG SAFE	IG: ILINE: ULATI IVE C T EQ ETY N IN TC ETY N	0 EETING: B. S NG WELL - DN LOCA UIPMEN MEETING WELL & MEETING	J CREW 730C P RIG TION. F WITH TANH WITH	EX SI X JOB BHI SS RIG	0 KPLANA CO. RE BJ TIME CREV CREV	101 ⁻¹ TION P. X X MID1 V V	12 (NIGHT CO.MA	5000	TAI	NK
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45	PRESSU PIPE	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL B F F	SG, ETC. P bl. FLUID PUMPED	FLUID TYPE	0 SAFE TEST CIRC ARR SPO SAFE RIG SAFE RIG	IG: ILINES ULATI IVE C T EQ ETY N IN TC ETY N IN HE	0 EETING: B. S NG WELL - DN LOCA UIPMEN MEETING D WELL & MEETING EAD & MA	J CREW 730C P RIG TION. F WITH TANH WITH	EX SI X JOB BHI SS RIG	0 KPLANA CO. RE BJ TIME CREV CREV	101 ⁻¹ TION P. X X MID1 V V	12 (NIGHT CO.MA	5000	TAI	NK
TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26	PRESSU PIPE 800	SETTING T PRESSURI RE - PSI	OOL, RUN	5.3	SG, ETC. P bl. FLUID PUMPED	FLUID TYPE H2O	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE	IG: TLINES ULATI IVE C T EQ ETY M IN TC ETY M IN HE FILL	0 EETING: B. S NG WELL - DN LOCA UIPMEN MEETING D WELL & MEETING EAD & MA	U CREW 730CP RIG TION. WITH TANH WITH	E) X SI X JOB BHI S I RIG D &	0 CO. RE BJ TIME CREV CREV WASH	101 ⁻¹ TION P. X X MID1 V V	12 (NIGHT CO.MA	5000	TAI	NK
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28	PRESSU PIPE 800	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL B F 5.3	SG, ETC. P bl. FLUID PUMPED 5 1	FLUID TYPE H2O H2O	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE	IG: TLINE: ULATI IVE C T EQ ETY N IN TC ETY N IN TC ETY N IN HEL FILL	0 EETING: B. S NG WELL - ON LOCA UIPMEN MEETING WELL & MEETING EAD & MA RE TEST	U CREW 730CP RIG TION. WITH TANH WITH	E) X SI X JOB BHI S I RIG D &	0 CO. RE BJ TIME CREV CREV WASH	101 ⁻¹ TION P. X X MID1 V V	12 (NIGHT CO.MA	5000	TAI	NK
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:31	PRESSU PIPE 800 0 760	SETTING T PRESSURI RE - PSI	OOL, RUN	5.3 1 5.5	SG, ETC. P bl. FLUID PUMPED 5 1 50	FLUID TYPE H2O PREFLUS	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTE	IG: ETY MI I LINES ULATI IVE C T EQ ETY M IN TC ETY M IN HE FILL SSUF RABC	0 EETING: B S NG WELL - DN LOCA UIPMEN MEETING D WELL & MEETING AD & MA RETEST DND	U CREW 730CP RIG TION. WITH TANH WITH	E) X SI X JOB BHI S I RIG D &	0 CO. RE BJ TIME CREV CREV WASH	101 ⁻¹ TION P. X X MID1 V V	12 (NIGHT CO.MA	5000	TA	
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:28 04:31 04:40	PRESSU PIPE 800 0 760 925	SETTING T PRESSURI RE - PSI	OOL, RUN	5.3 5.5 5.5	SG, ETC. P bl. FLUID PUMPED 5 1 50 46	FLUID TYPE H2O PREFLUS PREFLUS	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTE MUL	IG: TLINE: ULATI IVE C T EQ ETY N IN TC ETY N IN TC ETY N IN HEL FILL SSUF RABC	0 EETING: B. S NG WELL - DN LOCA UIPMEN MEETING D WELL & MEETING EAD & MA RE TEST DND ND	U CREW 730CP RIG TION. WITH TANH WITH NIFO TO 73	E) SI X JOB BHI S RIG D & 00 P	0 CO. RE BJ TIME CREV CREV WASH	1011 TION P. X X MID1 V V V & U	12 NIGHT CO.M/ NES	500C		
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:31	PRESSU PIPE 800 0 760	SETTING T PRESSURI RE - PSI	OOL, RUN	5.3 1 5.5	SG, ETC. P bl. FLUID PUMPED 5 1 50 46	FLUID TYPE H2O PREFLUS	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTE MUL 3177	IG: TLINE: ULATI IVE C T EQ ETY N IN TC ETY N IN TC ETY N IN HE FILL SSUF RABC TIBO	0 EETING: B. S NG WELL - DN LOCA UIPMEN MEETING D WELL & MEETING EAD & MA RE TEST DND ND	0 J CREW 730CP RIG TION. F WITH TANH WITH NIFO TO 73 LASS	E) SI X JOB BHI S RIG D & 00 P	0 CO. RE BJ TIME CREV CREV WASH	1011 TION P. X X MID1 V V V & U	12 NIGHT CO.M/ NES	500C		
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:28 04:31 04:40	PRESSU PIPE 800 0 760 925	SETTING T PRESSURI RE - PSI	OOL, RUN	5.3 5.5 5.5	SG, ETC. P bl. FLUID PUMPED 5 1 50 46 640	FLUID TYPE H2O PREFLUS PREFLUS	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTE MUL 3177 WAS	IG: TLINE: ULATI IVE C T EQ ETY N IN TC ETY N IN TC ETY N IN HE FILL SSUF RABC TIBO S SC S SC	0 EETING: B. S NG WELL - DN LOCA UIPMENT MEETING D WELL & MEETING EAD & MA RE TEST DND ND KS OF C	0 J CREW 730CP RIG TION. F WITH TANH WITH NIFO TO 73 LASS 5 f	E) SI X JOB BHI S I RIG D & 00 P	0 CO. RE BJ TIME CREV CREV WASH SI /50 PC	1011 TION P. X X MID1 V V V & U	12 NIGHT CO.M/ NES	500C		
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:31 04:40 04:49	PRESSU PIPE 800 0 760 925 386	SETTING T PRESSURI RE - PSI	OOL, RUN	5.3 5.5 5.5 5.5	SG, ETC. P bl. FLUID DUMPED 5 1 50 46 640 10 3	RIOR TO CEN FLUID TYPE H2O H2O PREFLUS PREFLUS CEMENT	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTF MUL 3177 WAS SHU SUG	IG: ETY MI IVE C T EQ ETY M IN TC ETY M IN TC ETY M IN TC FILL SSUF T BO S S5 E T DO AR W	0 EETING: B S NG WELL ON LOCA UIPMEN MEETING O WELL & MEETING AD & MA MEETING AD & MA RE TEST OND ND KS OF C DEGREES WN / FLU VATER W	U J CREW 730CP RIG TION. WITH TANH WITH TO 73 LASS 5 f JSH L ITH 5	E) [X] SI IX] JOB BHI SS I RIG LD & 00 P A 500 NES D LBS	0 CO. RE BJ TIME CREV CREV WASH SI /50 PC	1011 TION P. X MIDI V V V & (H LIN	12 NIGHT CO.M/ NES 3% R-	500C		
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:31 04:40 04:49 06:48	PRESSU PIPE 800 0 760 925 386 0	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL B S.3 1 5.5 5.5 5.5 6 5 0	SG, ETC. P bl. FLUID PUMPED 5 1 50 46 640 10 3 0	RIOR TO CEN FLUID TYPE H2O H2O PREFLUS PREFLUS CEMENT H2O H2O H2O	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTE MUL 3177 WAS SHU SUG SHU	IG: T LINE: ULATI IVE C T EQ ETY M IN TC ETY M IN TC ETY M IN TC S SUF T BO S SAC S S5 E T DO AR W T DO	0 EETING: B: S NG WELL - DN LOCA UIPMENT MEETING DWELL & MEETING AD & MA MEETING AD & MA RETEST DND ND KS OF C DEGREES WN / FLU VATER W WN / DR	J CREW 730CP RIG TION. T WITH TANH WITH NIFO TO 73 LASS S f JSH L ITH 5 OP PL	E) SI X JOB BHI SS RIG D & 00 P A 50 NES D LB3 UG	0 KPLANA CO. RE BJ TIME CREV WASH SI /50 PC S OF S	1011 TION P. X MIDI V V V & (H LIN	12 NIGHT CO.M/ NES 3% R-	500C		
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:28 04:31 04:40 04:49 06:48 06:51	PRESSU PIPE 9IPE 800 0 760 925 386 0 500 0 4500	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL B S S S S S S S S S S S S S	SG, ETC. P bl. FLUID PUMPED 5 1 50 46 640 10 3 0	RIOR TO CEN FLUID TYPE H2O H2O PREFLUS CEMENT H2O H2O H2O H2O	0 SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTE MUL 3177 WAS SHU SUG SHU DISF	IG: ETY MI IVE C ILINES ULATI IVE C T EQ ETY M IN TC ETY M IN TC ETY M IN TC SSUF RABC T IBO SS5 E T DO AR W T DO PLAC	0 EETING: B: S NG WELL - DN LOCA UIPMEN MEETING DWELL & MEETING AD & MA RETEST DND ND KS OF C DEGREES WN / FLU /ATER W WN / DR E WITH F	J CREW 730C P RIG TION. T WITH TANH WITH NIFO TO 73 LASS S f JSH L ITH 5 OP PL RESH	E) SI X JOB BHI SS RIG D & 00 P A 50 NES D LBS UG WA	0 KPLANA CO. RE BJ TIME CREV WASH SI /50 PC S OF S TER	1011 TION P. [X [X MID1 V V V & (1 LIN V V V & (1 LIN) 2Z+ .	12 CO.M/ NIGHT CO.M/ NES 3% R- AR	500C	MP.	A-170, T
TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:31 04:40 04:49 06:48 06:51 06:53 06:55 08:00	PRESSU PIPE 800 0 760 925 386 0 500 0 4500 4020	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL B 5.3 5.5 5.5 5.5 5.5 6 5 5 0 6 5 0 6 5 2.5	SG, ETC. P bl. FLUID PUMPED 5 1 50 46 640 10 3 0	RIOR TO CEM FLUID TYPE H2O H2O PREFLUS PREFLUS CEMENT H2O H2O H2O H2O H2O H2O	O SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTE MUL 3177 WAS SHU SUG SHU DISP SLO	IG: ILINE: ULATI IVE C T EQ ETY M IN TC ETY M IN TC ETY M IN HE FILL SSUF RABC TIBO S 55 E T DO AR W T DO PLAC W RA	C EETING: B S NG WELL - DN LOCA UIPMEN MEETING DWELL & MEETING AD & MA MEETING AD & MA RE TEST DND ND KS OF C DND ND KS OF C WN / FLL /ATER W WN / DR E WITH F ATE TO L	J CREW 730C P RIG TION. T WITH TANH WITH NIFO TO 73 LASS S f JSH L ITH 5 OP PL RESH	E) SI X JOB BHI SS RIG D & 00 P A 50 NES D LBS UG WA	0 KPLANA CO. RE BJ TIME CREV WASH SI /50 PC S OF S TER	1011 TION P. [X [X MID1 V V V & (1 LIN V V V & (1 LIN) 2Z+ .	12 CO.M/ NIGHT CO.M/ NES 3% R- AR	500C	MP.	A-170. T
XPLANATIC TIME HR:MIN. 23:45 00:50 01:05 01:26 03:30 03:45 04:26 04:28 04:31 04:40 04:49 06:48 06:51 06:53 06:55	PRESSU PIPE 9IPE 800 0 760 925 386 0 500 0 4500	SETTING T PRESSURI RE - PSI	OOL, RUN	NING C TAIL B S S S S S S S S S S S S S	SG, ETC. P bl. FLUID PUMPED 5 1 50 46 640 10 3 0	RIOR TO CEN FLUID TYPE H2O H2O PREFLUS CEMENT H2O H2O H2O H2O	O SAFE TEST CIRC ARR SPO SAFE RIG LINE PRE ULTE MUL 3177 WAS SHU SUG SHU DISP SLO	IG: ETY MI IVE C ILINES ULATI IVE C T EQ ETY M IN TC ETY M IN TC ETY M IN TC SSUF RABC T IBO SS5 E T DO AR W T DO PLAC	C EETING: B S NG WELL - DN LOCA UIPMEN MEETING DWELL & MEETING AD & MA MEETING AD & MA RE TEST DND ND KS OF C DND ND KS OF C WN / FLL /ATER W WN / DR E WITH F ATE TO L	J CREW 730C P RIG TION. T WITH TANH WITH NIFO TO 73 LASS S f JSH L ITH 5 OP PL RESH	E) SI X JOB BHI SS RIG D & 00 P A 50 NES D LBS UG WA	0 KPLANA CO. RE BJ TIME CREV WASH SI /50 PC S OF S TER	1011 TION P. [X [X MID1 V V V & (1 LIN V V V & (1 LIN) 2Z+ .	12 CO.M/ NIGHT CO.M/ NES 3% R- AR	500C	MP.	

10/30/2015

61-01680



		PRESSURE	RATE DETAIL				EXPLANATION
TIME	PRESSU	JRE - PSI	RATE	Bbl. FLUID	FLUID	SAFETY ME	ETING: BJ CREW X CO. REP. X
HR:MIN.	PIPE	ANNULUS	BPM	PUMPED	TYPE	TEST LINES	
		1.000				CIRCULATIN	IG WELL - RIG X BJ X
					1		PRESSURE TO PUMPER. 6.2 BBL H2O RETURN TO ON RELEASE
08:14						10 BBL CE	MENT RETURN TO SURFACE. 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 N	4025	Y N	10	1119	0	YN	

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c Fracturing Fluid Product Component Information Disclosure	
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nposition:	Hydraulic Fracturing Fluid Composition:
0	Total Base Non Water Volume:
13,402,116	Total Base Water Volume (gal):
8,253	True Vertical Depth:
NO	Federal/Tribal Well:
NAD83	Datum:
39.70548700	Latitude:
-80.20460700	Longitude:
Coastal 8H	Well Name and Number:
Northeast Natural Energy LLC	Operator Name:
47-061-01680-00-00	API Number:
Monongalia	County:
West Virginia	State:
7/9/2015	Job End Date:
6/27/2015	Job Start Date:





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Comments											
Maximum Ingredient Concentration in HF Fluid (% by mass)**	on-MSDS.		87.12754	12.73343	0.07864	0.02377	0.01754	0.00494	0.00344	0.00188	0.00173
Maximum Ingredient Concentration in D Additive (% by mass)**	its shown below are N			98.91996	0.61090	0.18463	0.13627	0.03839	0.02674	0.01460	0.01341
Chemical Abstract Service Number (CAS #)	sets (MSDS). Ingredier		NA	14808-60-7	7647-01-0	7783-20-2	38193-60-1	111-30-8	9003-35-4	136793-29-8	25322-69-4
Ingredients	pear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.		Water (Including Mix Water Supplied by Client)*	Quartz, Crystalline silica	Hydrochloric acid	Ammonium sulfate	Acrylamide, 2-acrylamido-2- methylpropanesulfonic acid, sodium salt polymer	Glutaraldehyde	Phenolic resin	Polymer of 2-acrylamido-2- methylpropanesulfonic acid sodium salt and methyl acrylate	Polypropylene glycol
Purpose	R 1910.1200(i) and app	Corrosion Inhibitor, Scale Inhibitor, Biocide, AntiFoam Agent, Acid, Friction Reducer, Iron Control Agent, Fluid Loss Additive , Propping Agent									
Supplier	ingredients shown above are subject to 29 CFR 1910.1200(i) and ap	Schlumberger			D_	19Celven	ort Cil & Gas	7 2015	Pro		
Trade Name	Ingredients shown abo	Proppant Transport				240					

I total water volume sources may include iresh 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)

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218		
	COASTAL FOREST RESOURCES COMPANY	Latitude: 39° 42' 30" (NAD27)
SURFACE	N 55°24°26" E 63.8 TOTAL ACRES 665" LEASE NUMBER 100 CONSTAL HO. OH	CT IN MADZY
EDWARD OWEN EVENS 60.09 TOTAL ACRES	HO. BH	100 2 3 0
TAX MAP AND PARCEL	WELL (SURFACE) COASTAL 8H WELL (SURFACE) COASTAL 8H WY-N (NAD 83)	¢ * ¢ \9
A ATTA ST	WV-N (NAD 83) N: 439852.7 M: 430651.0 E: 1770263.7 C: 4770263.2 ITTM (MAD 82)	130 ¹⁴ 3000 08 14
an Are (1)	POST UTM (NAD 83) N: 4395372.6	101
	MI-4206272.4 E: 568185.8	D BURT Existing Weils 5 POTTION OF WITHIN 3,000' 5 POTTION OF WITHIN 3,000' 5 POTTION OF THE STREET
N V V		
ROBERT C. &	CLARENCE L &	WELL REFERENCE
LUCY G. WILSON 27.786 TOTAL ACRES LEASE MUMBER	BETTY JO TENNANT 28.12 TOTAL ACRES LEASE NUMBER	(APM, DISTANCE TO LATERAL) 1. 061-30208 N 55'26'01" W 1,225'
TAX WAP AND PARCEL	TAX WUP AND PARCEL 4-77-18	2. 061-01645 N 08'43'33" W 1,416' 3. 061-70248
CLARENCE L &	CONSOLIDATION REFERENCES TO	4. PLUGGED (FOUND IN FIELD) 5. 061-01347 6. 061-71040
7.764 TOTAL ACRES	44.33 TOTAL ACRES LEASE NUMBER TV HUE AND FARETE	TIAL 7. 061-70251 B. 061-30014
TAX WAS AND PARCEL	in any reason in the top	9. 061-71042 10. 061-30130 11. 061-71043
WELL (LANDING	4° \ \ ==== 2	12. 061-01594 13. 061-01568
POINT) COASTAL 8H WY-N (NAD 83)		14. 061-30200 15. 061-70249 16. 051-71024
-N: 438459.3 -E: 1769246.3	the of a literation	17. 061-71025
UTTM (NAD 83) Ni-4394942.0		N) 4395372.4 E) 568185.7
E+567882.0- WELL (LANDING	BOTTOW OF LATTICE NTS	BOTTOM HOLE (UTM NAD 83) N) 4393141.0
POINT) COASTAL 8-1 WV-N (NAD 83) CONSOLIS	DATION P.196" WEST	E) 569288.6
N: 438440.3 COAL CO E: 1769255.0 134.09 TOT LEASE MI	MPANY MILACRES	E E
UTM (NAD 83) 5 N+ 494937.2 TAX MAP AM		(BOTTOM HOLE)
E: 567885.7 4-7-	19 ARCA	COASTAL 8H WV-N (NAD 83)
REFERENCES	RICHARD R	N: 432477.3 E: 1773704.3
	PATRICIA DRIVER 53.63 TOTAL ACRES LEASE NUMBER	
NO. 8H WELL	TAX WAP AND PARCEL	E: 569271.6
(BOTTOM H COASTAL		
Sta Magnetic at WV-N (NAD North 1 -N: 43246	083)	X,
	9.9	
REBAR SET	HE0 -01 -01	ans A
	MURY LOU LINGUED	
REFERENCE NOTES Boundaries as shown taken	VERBOSKY	
Boundaries as shown taken from deada, tax maps and field locations. A full boundary	VERBOSKY 164.98 TOTAL ACRES LEASE NUMBER TAX MAP AND PARCEL	
Boundaries as shown taken from deada, tax maps and field koccitions. A full boundary survey is not expressed nor implied.	164.088 TOTAL ACRES LEASE HUMBER	
Boundaries as shown taken from deads, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north Demorship taken from public records MONONGLIA County, West Wriginia JUNE 2013 State Pane Coortignate &	IS-USED TOTAL ACCRES LEASE HUNDER TAX MUP AND PARCEL 4-10-34 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	
Boundaries as shown taken from deads, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north Demorship taken from public records MONONGLIA County, West Wriginia JUNE 2013 State Pane Coortignate &	VERBOSKY 164.98 TOTAL ACRES LEASE NUMBER TAX MAP AND PARCEL	
Boundaries as shown taken from deads, 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 MONNAZUK County, West Verginics JUNE 2013	NOTE NO TER WELLS WERE FOUND WITHIN SSC OF THE CENTER OF WELL PAD	
Boundaries as shown taken from deads, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north Demorship taken from public records MONONGLIA County, West Wriginia JUNE 2013 State Prone Coordinate &	NOTE NOTE: NOT	- BEAULI
Boundaries as shown taken from desde, tax maps and field locations. A full boundary survey is not expressed nor implied. All bacrings are based on true north Demership taken from public records MONOWGUM County, West Wrighins JUNE 2013 State Plane Coordinates & NOB 83 Laft/Long by differential submetter nepping grade GPS Deafted by: EAM	NOTE NO TER WELLS WERE FOUND WITHIN SSC OF THE CENTER OF WELL PAD	- BEAULI
Boundaries as shown taken from deads, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north Ounership taken from public records MONNAUK County, West Verginics JUNE 2013 State Plane Coordinates & NAD B3 Lat/Long by differential subwetter mapping grade GPS <u>Brafted by EAM</u> FILE #: <u>NNE12</u>	NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE	BY BY CENSED
Boundaries as shown taken from desds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bacrings are based on true north. Demership taken from public records MONONGUN County, West Wagins JUNE 2013 State Plane Coordinates & NO 83 Lat/Long by eliferential subweter napping grade GPS Brafted by EAM FILE #: NNE12 DRAWING #: 2351 PAN: 1" = 1200"	NOTE NOTE	BY BY No. 2124
Boundaries as shown taken from deads, tax maps and field locations. A full boundary survey is not expressed nor implied. All bacrings are based on true north Ownership taken from public records MONNAUA County, West Verplins JUNE 2013 State Plane Coordinates & NO B3 Lef/Long by differential subwetter mapping grade GPS Brafted by EAH FILE #: <u>NNE12</u> DRAWING #: <u>2351</u> SCALE: <u>PLAN</u> : 1° = 1200° TICK: 1° = 1200°	NOTE NOTE NOTE NOTE NOTE NOTE NOTE NOTE	BY No. 2124 *
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