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

API 47 - 061 - 01676 County Mo	nongalia	District Clay	
Quad Blacksville, WV Pad Name C	Coastal		acksville
Farm name Coastal Forest Resources Company		Well Number 9H	
Operator (as registered with the OOG) Northeast Na	tural Energy LLC		
Address 707 Virginia St. Suite 1200 City	Charleston	State WV	Zip 25301
As Drilled location NAD 83/UTM Attach an as- Top hole Northing 4395409. Landing Point of Curve Northing 4395666.		deviation survey ing 568208.6 ing 568570.2	
Bottom Hole Northing 4396860.		ng 567638.6	
Elevation (ft) 1,430' GL Type of V	_		■Interim □Final □ Deep ■ Shallow
••			•
Type of Operation □ Convert □ Deepen ■ Drill	□ Plug Back □ Redril	ling Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil	□ Secondary Recovery □ So	lution Mining 🗆 Sto	rage 🗆 Other
Type of Completion □ Single □ Multiple Fluids 1	Produced □ Brine □Gas	□ NGL □ Oil	□ Other
Drilled with □ Cable ■ Rotary			
Drilling Media Surface hole Air Mud Fres Production hole Air Mud Fresh Water Mud Type(s) and Additive(s) Synthetic Based Mud for horizontal section, BIO-BASE 365, CALCIU	Brine		□ Fresh Water □ Brine ATE (BARITE), M-1-X II MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAF	E-CARB 250, VERSATHIN HF, VERSAW	/ET, VG-PLUS, VINSEAL ME	DIUM, WALNUT NUT PLUG MEDIUM
Date completion activities beganN/A		vities ceased	N/A
Verbal plugging (Y/N) Date permission g	ranted	_ Granted by	
Please note: Operator is required to submit a plugging a	application within 5 days of ve	erbal permission to p	lug
Freshwater depth(s) ft 1,243'	Open mine(s) (Y/N) d	epths	N
Salt water depth(s) ft 2,510'	Void(s) encountered (N
Coal depth(s) ft 600', 1,200'	Cavern(s) encountered		N
Is coal being mined in area (Y/N) N	,,,,,	© & Gas	Reviewed by:
	0CT (7 2015	1

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API 47- 061	_ 01676	Farm name	Coastal Fore	st Resour	ces Com	pany_Well	number_9H	·
CASING STRINGS		Casing Size	Depth	New or Used	Grade wt/ft			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	1,385'	N	5	4.5	N/A	Y 30 bbls
Coal								
Intermediate 1	12.25	9 5/8	2,777'	N	-	40	N/A	N
Intermediate 2								
Intermediate 3								
Production	8.5	5.5	14,089'	N		20	N/A	Estimated top 2000'
Tubing								
Packer type and de	epth set	I				<u> </u>	, L	
Comment Details	All jobs went well, except informeda	to. Ran coment bond log. TOC (§1,000° which is inside the su	rface string Due to	cicaranco issues to	af job could not be pe	rformod, Local DEP and NNE o	dest not to perforate and squeeze.
CEMENT	Class/Type	Number	Slurry		ield	Volume	Cement	WOC
DATA Conductor	of Cement 4,500 psi ready mix	of Sacks 36.4	wt (ppg)	 _	³/sks) 75	(ft. ³ .) 27.27	Top (MD) CTS	(hrs) 48
Surface	Class A	1063	15.2		.27	1,271	CTS	8
Coal	Class A	1003	15.2	- - '	.21	1,271	- 0.0	
Intermediate 1	Class A 903		15.2	- 	.26	1,074	стѕ	8
Intermediate 2	Old55 A	903	10.2		.20	1,074	010	•
Intermediate 3								
Production	50/50 Promium NE - 1 3% (R-3.3% MPA 1)	2683	14.5	+	.17	2,661	Estimated 2,0	000' 48
Tubing	3030 PT0775071 (52 - 1 3 5 (5/3.3 % 10/2.4)	2003	14.0	<u> </u>	.17	2,001	Lauriero E,	40
Orillers TD (ft Deepest format Plug back produced	tion penetrated Marc	ellus		Loggers Ti				
Kick off depth Check all wire	. ,	•	density resistivity	□ deviate			duction mperature c	⊐sonic
Well cored	Yes 🖪 No	Conventional	Sidewal	1	W	ere cuttings	collected Y	es 🗆 No
Surface: bow spring centr	HE CENTRALIZE plizers every 3rd joint or spress 120 Ing centralizers every 3rd joint		USED FOR	EACH CA	SING ST	TRING		
	led spiral centralizers every or		m TD to KOP then bo	w spring from M	OP to 9 5/8" e	every forth joint or	вргох 140'	
WAS WELL (COMPLETED AS S	SHOT HOLE	□ Yes ■ N	o DE	TAILS	This well has no	I yet been completed	Received
								MACAINO

TYPE OF TRACER(S) USED _

WERE TRACERS USED □ Yes ■ No

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A DI	47- 061	01676	Farm name_Coastal Forest Resources Company	9H
API	4/		rarm name	_Well number

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD fl.	Number of Perforations	Formation(s)
					This well has not yet been completed

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
 				-	-			
				-				
<u> </u>				-				
<u> </u>						-		
<u> </u>								
		-				<u> </u>	-	
-					-	-		
<u> </u>				 				
ļ						<u> </u>	F	received
							Office	e of Cil & Gas

Please insert additional pages as applicable.

OCT 07 2015

PRODUCING	FORMAT	ION(S)		DEPTHS						
Marcellus			20 1	8,198.94'	TVD	14,112'	M	D		
		-	-							
			-							
			-							
Please insert ad	ditional pa	iges as ap	plicable.							
GAS TEST	□ Build u	p 🗆 Dra	awdown	□ Open Flow		OIL TEST	Γ □ Flow	□ Pump)	
SHUT-IN PRE	SSURE	Surface		nsi Rott	om Hole		si DUR	ATION (OF TES	Thrs
		Juliace								
OPEN FLOW	Gas	mcfnd	Oil	NGL bpd		Water	GAS			BY fice □ Pilot
		merpu	_		_ 0/4		ора пъз	immica	L OII	
ITHOLOGY/	TOP	1	воттом	TOP	BOTTO	ОМ				
ORMATION	DEPTH D		PTH IN FT		DEPTH II					D QUANTITYAND
	NAME T	VD	TVD	MD	MD	TYPE	OF FLUID (FI		- Tan - Sept Co	NE, OIL, GAS, H ₂ S, ETC)
	0			0				Please S	See Attac	nment
						_		-		
		++-								
Please insert ad	l ditional pa	iges as ap	plicable.							
Orilling Contra Address 1250 N	ctor Florie	Suite 1000		Cin	San Anto	nio	State	e TX	Zin	78209
address 1200 iv	L LOOP 410	Oute 1000		City	Carrino	ano .	Stati		Zip	-
ogging Compa	any Baker	Hughes								
Address 837 Ph	ilippi Pike			City	Clarksbu	rg	State	e WV	Zip	26301
Cementing Con	Bak	er Hughe	S							
Address 837 Phi	lippi Pike			City	Clarksbu	rg	Stat	e WV	Zin	26301
adi coo				City			Otta			
timulating Co	mpany _					_			20/10	
Address	Assertation of the second	od a second		City			Stat	e	Zip	Received
	ditional pa	iges as ap	plicable.							Uffice of Cil &
lease insert ad										W. 1 (3)
Please insert ad Completed by	Zack Arno	old	7	7		Teler	hone 304.20	03.8059		OCT 0 7 2015



	NORTHE	AST NATURAL B	ENER		DATE 30-D	EC-14 F.F	2.#	34861010	06		SER	V. SUPV.	Scott J C	arson			
LEASE & WEI	L NAME				LOCATION						COL	UNTY-PARISH-BLOCK					
	H - API 470	061016760000			BLACKSV	THE RESERVE AND ADDRESS.					1000		West Virgini	а			
DISTRICT Clarksburg					DRILLING C PERFORM	ONTRACTOR MANCE 2	RIG#					E OF JOB urface					
	TYPE OF	PLUGS		IST-C	SG-HARDW	777.71	MECH	HANICA	L BARRIE	RS	MD		HANGER T	TYPES 1	MD TVD		
		707 27 10	The state of										NONE				
so cement Pi	ug, Rubbe	er, Top 13-3/8	200000		Al Flap, 13-3/ Cement Nose	The second second	NONE					NOINE	_				
			Guide S	rice, c	Jerna II Nose	13-3/01		_	DI	IVEICA	1 61 11	RRY PRO	DEDTIES	_			
										TISICA	L SLU	KKI FKO	FERTIES				
							SAC	200	SLURRY	SLUR		WATER	PUMP		Bbl		
MATERIAL	S FURNIS	HED BY BJ			LAB	REPORT NO.	OF CEME	1277	WGT PPG	YLD		GPS	HR:MIN	Bbl SLURRY	WATER		
H2O						7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10.000		8.34	.,,,,	-			180	1		
GEL/FLAKE									8.45		-		-	25			
H2O								-	8.34		-			10	_		
	F-1 1% C	ALCIUM 75LB	EI AKE	-	N/A		1	063	15.2	4	.26	5.76	03:00	238			
H2O	L 1 1/0 O/	LOIDINI I JLD	. LAVE		III.A		-1,	000	8.34		.20	5.70	03.00	207	-		
200# SUGAF	ONSIDE								0.54						0		
D. 7-25 00 - 7-5	- O. S	500	1	Bbl.	Available	Dient Fluid		500	Bb	1	_	***		660			
Available Mix		500		- 601.	Available	Displ. Fluid		300		*		тот			145.4		
SIZE	HOLE % EXCE	SS DEPTI	-l ID	10	DD WGT.	TBG-CSG-	2.000	MD	TVD	GRADE	=	SHOE		OAT	STAGE		
17.5	30	142				.5 CSG		1385	100000			13		1342			
L	AST CAS	NG	PKR-CMT RE	T-BR PL-LINE	R	PERI	F. DEPTH	то		CONN	WELL FLU		D				
ID OD V			MD TVD		BRAND & TY	PE D	EPTH	TOP	ВТМ			HREAD	TYPE				
23. 24	95. CSG		50 50	NO	PACKER				1	13.3	375 8	KD	OTHER				
DISPL. VOI	UME	D	ISPL. FLUI)	CAL. PS	GI CAL. MA	X PSI C	P. MAX	K MA	X TBG			IAX CSG P	SI	MIX WATER		
VOLUME	UOM	TYI	PE	WGT	. BUMP PL	UG TO RE	V. :	SQ. PSI	RATE	D O	erato	r RAT	ED O	perator	WATER		
207	BBLS	H2O		8.3	34 4	80	0		0	0		0	1384	1000 T	ANK		
XPLANATIO	N: TROUB	LE SETTING 1	rool, Runi	NING	CSG, ETC. P	RIOR TO CEM	ENTING	G:									
EXPLANATIO	N: TROUB		TOOL, RUNI			RIOR TO CEM	ENTING	9:			E	XPLANAT	ION				
TIME				TAIL		RIOR TO CEN			TING: BJ	CREW		31122 101 13.					
		PRESSU	RE/RATE DE	TAIL			SAFE		THE RESERVE TO SEE	CREW	[X]	31122 101 13.	X				
TIME HR:MIN.	PRES	PRESSUR SURE - PSI	RE/RATE DE	TAIL	Bbl. FLUID	FLUID	SAFE TEST CIRCU	TY MEE LINES JLATIN	G WELL -	8600 PS RIG	X SI	CO. REP.	X				
TIME HR:MIN.	PRES	PRESSUR SURE - PSI	RE/RATE DE	TAIL	Bbl. FLUID	FLUID	SAFE TEST CIRCU ARRIV	TY MEE LINES JLATING	G WELL - OCATION	8600 PS RIG 12-29-2	[X] SI 2014 L	BJ	X X TIME 22:	00			
TIME HR:MIN. 19:30 01:00	PRES	PRESSUR SURE - PSI	RE/RATE DE	TAIL	Bbl. FLUID	FLUID	SAFE TEST CIRCU ARRIV PRE-JO	TY MEE LINES JLATING E AT LO	G WELL -	8600 PS RIG 12-29-2	[X] SI 2014 L	BJ	X X TIME 22:	00			
TIME HR:MIN. 19:30 01:00 01:15	PRES	PRESSUR SURE - PSI	RE/RATE DE	TAIL	Bbl. FLUID	FLUID	SAFE TEST CIRCU ARRIV PRE-JO RIG-IN	TY MEE LINES JLATINI Æ AT LO OB RIG	G WELL - OCATION G-IN SAFE	8600 PS RIG 12-29-2 TY MEE	[X] SI 2014 L	BJ	X X TIME 22:	00			
TIME HR:MIN. 19:30 01:00 01:15 02:45	PRES PIPE	PRESSUF SSURE - PSI ANNULUS	RE/RATE DE	ETAIL	Bы. FLUID PUMPED	FLUID TYPE	SAFE TEST CIRCU ARRIV PRE-JO RIG-IN PRE-JO	TY MEE LINES JLATINI E AT LO OB RIG I	G WELL - OCATION	8600 PS RIG 12-29-2 TY MEE	[X] SI 2014 L	BJ	X X TIME 22:	00			
19:30 01:00 01:15 02:45 03:13	PRES PIPE	PRESSUR SSURE - PSI ANNULUS	RE/RATE DE	TAIL	Bы. FLUID PUMPED	FLUID TYPE	SAFE TEST CIRCU ARRIV PRE-JU RIG-IN PRE-JU LINE-F	TY MEE LINES JLATINI Æ AT LO OB RIG I OB SAF	G WELL - OCATION G-IN SAFE FETY MEE	RIG 12-29-2 TY MEE	[X] SI 2014 L	BJ	X X TIME 22:	00			
19:30 01:00 01:15 02:45 03:13 03:14	PRES PIPE	PRESSURE - PSI ANNULUS 00 0	RE/RATE DE	5	Bbi. FLUID PUMPED	FLUID TYPE H2O H2O	SAFE TEST CIRCU ARRIV PRE-JG-IN PRE-JG-IN LINE-F	TY MEE LINES JLATING E AT LO OB RIG I OB SAF FILL SURE T	G WELL - OCATION SIN SAFE FETY MEE	RIG 12-29-2 TY MEE	[X] SI 2014 L	BJ	X X TIME 22:	00			
19:30 01:00 01:15 02:45 03:13 03:14 03:16	PRES PIPE	PRESSURE - PSI ANNULUS 00 0 0	RE/RATE DE RATE BPN	5 7.2	Bbi. FLUID PUMPED 5	FLUID TYPE H2O H2O H2O	SAFE TEST CIRCU ARRIV PRE-JO LINE-F PRESS WATE	TY MEE LINES JLATING E AT LO OB RIG I OB SAF FILL SURE T	G WELL - OCATION SIN SAFE FETY MEE	RIG 12-29-2 TY MEE	[X] SI 2014 L	BJ	X X TIME 22:	000			
19:30 01:00 01:15 02:45 03:13 03:14	PRES PIPE 10	PRESSURE - PSI ANNULUS 00 0	RE/RATE DE RATE BPN	5	Bbi. FLUID PUMPED	FLUID TYPE H2O H2O H2O GEL/FLAKE	SAFE TEST CIRCU ARRIV PRE-JO LINE-F PRESS WATE	TY MEE LINES JLATING E AT LO OB RIG I OB SAF FILL SURE T R AHEA LUSH	G WELL - OCATION SIN SAFE FETY MEE	RIG 12-29-2 TY MEE	[X] SI 2014 L	BJ	X		- oive		
TIME HR:MIN. 19:30 01:00 01:15 02:45 03:13 03:14 03:16 03:40	PRES PIPE 10 18 12 13	PRESSURE - PSI ANNULUS 00 0 0 20	RE/RATE DE RATE BPN	5 7.2 5.3	Bbi. FLUID PUMPED 5 180 25	FLUID TYPE H2O H2O H2O H2O H2O H2O H2O H2	SAFE TEST CIRCU ARRIV PRE-JI LINE-F PRESS WATEI PRE-F SPACE	TY MEE LINES JLATING E AT LO OB SAF FILL SURE T R AHEA LUSH ER	G WELL - OCATION SIN SAFE FETY MEE	RIG 12-29-2 TY MEE	X SI 2014 L	BJ OCATION 12-30-20	X		ceive		
TIME HR:MIN. 19:30 01:00 01:15 02:45 03:13 03:14 03:16 03:40 03:47	PRES PIPE 10 18 12 13	PRESSURE - PSI ANNULUS 00 0 0 20 30	RE/RATE DE RATE BPN	5 7.2 5.3 5.6	5 180 25 10	FLUID TYPE H2O H2O H2O GEL/FLAKE H2O	SAFE TEST CIRCU ARRIV PRE-JI LINE-F PRESS WATE PRE-F SPACE 15.2 P	TY MEE LINES JLATING E AT LO OB SAF FILL SURE T R AHEA LUSH ER	G WELL - OCATION S-IN SAFE ETY MEE EST 3600 AD	RIG 12-29-2 TY MEE TING #	ETING	BJ OCATION 12-30-20	X		ceive		
TIME HR:MIN. 19:30 01:00 01:15 02:45 03:13 03:14 03:16 03:40 03:47 03:49	PRES PIPE 10 18 12 13	PRESSURE - PSI ANNULUS 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RE/RATE DE RATE BPN	5 7.2 5.3 5.6	5 180 25 10 225	FLUID TYPE H2O H2O H2O GEL/FLAKE H2O	SAFET TEST CIRCULARRIV PRE-JULINE-F PRESS WATEL PRE-F SPACE 15.2 PL SHUT-	TY MEE LINES JLATING E AT LO OB SAF FILL SURE T R AHEA LUSH ER REMIUN	G WELL - OCATION G-IN SAFE FETY MEE FETY MEE FAT 3600 AD	RIG 12-29-2 TY MEE TING #	ETING	BJ OCATION 12-30-20	X		ceive		
TIME HR:MIN. 19:30 01:00 01:15 02:45 03:13 03:14 03:16 03:40 03:47 03:49 04:30	PRES PIPE 10 18 12 13 28	PRESSURE - PSI ANNULUS 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RE/RATE DE RATE BPN	5 7.2 5.3 5.6 5.4	5 180 25 10 225	FLUID TYPE H2O H2O H2O GEL/FLAKE H2O SLURRY	SAFE TEST CIRCU ARRIV PRE-JI RIG-IN PRE-JI LINE-F PRESS WATE PRE-F SPACE 15.2 PI SHUT- STARTI SHUT-	TY MEE LINES JLATING E AT LO OB RIG I OB SAF FILL SURE T R AHE LUSH ER REMIUN T DISPL	G WELL - OCATION SAFE FETY MEE	8600 PS RIG 12-29-2 TY MEE TING # 6 CALC E-PLUG T	X Si	BJ OCATION 12-30-20	X		ceive		
TIME HR:MIN. 19:30 01:00 01:15 02:45 03:13 03:14 03:16 03:40 03:47 03:49 04:30 04:31 05:08 05:13	PRES PIPE 10 18 12 13 28	PRESSURE - PSI ANNULUS 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RE/RATE DE RATE BPN	5 7.2 5.3 5.6 5.4	5 180 25 10 225	FLUID TYPE H2O H2O H2O GEL/FLAKE H2O SLURRY	SAFE TEST CIRCU ARRIV PRE-JULINE-F PRESS WATEL PRE-F SPACE 15.2 PL SHUT-START SHUT-BLEED	TY MEE LINES JLATINI E AT LO OB RIG I OB SAF FILL SURE T R AHE LUSH ER REMIUI DOWN T DISPL DOWN O-OFF	G WELL - OCATION FETY MEE EST 3600 AD M NE-1 19 RELEASE ACEMEN PLUG-DX PRESSUR	RIG 12-29-2 TY MEE TING 4 6 CALC E-PLUG T DWN E 1BBL	X Si	BJ OCATION 12-30-20	X	meren oct	ceive		
TIME HR:MIN. 19:30 01:00 01:15 02:45 03:13 03:14 03:16 03:40 03:47 03:49 04:30 04:31 05:08 05:13	PRES PIPE 10 18 12 13 28	PRESSURE - PSI ANNULUS 00	RE/RATE DE RATE BPN	5 7.2 5.3 5.6 5.4	5 180 25 10 225	FLUID TYPE H2O H2O H2O GEL/FLAKE H2O SLURRY	SAFE TEST CIRCU ARRIV PRE-J RIG-IN PRE-J LINE-F PRESS WATEI PRE-F SPACE 15.2 P SHUT- START SHUT- BLEED CLOSE	TY MEE LINES JLATINI E AT LO OB RIG I OB SAF FILL SURE T R AHEA LUSH ER REMIUI DOWN T DISPL DOWN D-OFF F	G WELL - OCATION SAFE FETY MEE EST 3600 AD M NE-1 19 RELEASS ACEMEN PLUG-DX PRESSUR	8600 PS RIG 12-29-2 TY MEE TING # 6 CALC E-PLUG T DWN E 1BBL.	IUM 7	BJ OCATION 12-30-20	X		ceive		
TIME HR:MIN. 19:30 01:00 01:15 02:45 03:13 03:14 03:16 03:40 03:47 03:49 04:30 04:31 05:08 05:13	PRES PIPE 10 18 12 13 28	PRESSURE - PSI ANNULUS 00	RE/RATE DE RATE BPN	5 7.2 5.3 5.6 5.4	5 180 25 10 225	FLUID TYPE H2O H2O H2O GEL/FLAKE H2O SLURRY	SAFE TEST CIRCU ARRIV PRE-J RIG-IN PRE-J LINE-F PRESS WATEI PRE-F SPACE 15.2 P SHUT- START SHUT- BLEED CLOSE	TY MEE LINES JLATINI E AT LO OB RIG I OB SAF FILL SURE T R AHEA LUSH ER REMIUI DOWN T DISPL DOWN D-OFF F E-IN CE	G WELL - OCATION FETY MEE EST 3600 AD M NE-1 19 RELEASE ACEMEN PLUG-DX PRESSUR	8600 PS RIG 12-29-2 TY MEE TING # 6 CALC E-PLUG T DWN E 1BBL.	IUM 7	BJ OCATION 12-30-20	X		ceive		

Jr8004



		PRESSURE	RATE DETAIL			EXPLANATION						
TIME	PRESS	URE - PSI	RATE	Bbl. FLUID	FLUID	SAFETY ME	ETING: BJ CREW X CO. REP. X					
HR:MIN.	PIPE	ANNULUS	BPM	PUMPED	TYPE	TEST LINES	3600 PSI					
						CIRCULATIN	IG WELL - RIG BJ X					
BUMPED	PSI TO BUMP	TEST	BBL.CMT RETURNS/	TOTAL BBL.	PSI LEFT ON	SPOT TOP OUT	SERVICE SUPERVISOR SIGNATURE:					
PLUG	PLUG	EQUIP.	REVERSED	PUMPED	CSG	CEMENT						
YN	480	YN	30	667	0	YN						

Received Office of Oil & Gas 0CT 0 7 2015 61-01676

CEMENT JOB REPORT



	NORTHE	AST NATUR	SAT EN	ER		DATE	= 11-J	AN-15 F.F	R.#	10011	131592		SEF	RV. SUP	V.	Brian Lou	gh		
COASTAL DISTRICT		me dan ba				LOCA	ATION AYBROO		PIG #		- 10 m 25		1		a W	SH-BLOCI est Virginia	к		
Clarksburg								MANCE 2	KIO #					ntermedia					
SIZE	& TYPE OF	PLUGS			LIST-	-CSG-H	IARDW	ARE	ME	CHANI	CAL BARRI	ERS	MD	TVD	Н	ANGER T	YPES	ME	D TVD
9-5/8" Top Co	em Plug, N	litrile cvr, F	Phe	700-L	AP-PV	TS Flo	at Colla	ır, 9-5/8 in											
				Guide	Shoe,	Ceme	nt Nose	, 9-5/8 i					1.00						
											PHYSIC		CAL SLL	JRRY PR	OP	ERTIES			
MATERIA	_S FURNIS	HED BY B	IJ				LAB	REPORT NO.	C	CKS OF MENT	SLURRY WGT PPG	Y	URRY /LD FT	WATER GPS		PUMP TIME HR:MIN	Bt SLURE		Bbl MIX WATER
PROCESSE	D WATER										8.45							250	
6% GEL (50	DLBS) W/	FLAKE (2	5 LBS)			1				8.5							25	
FRESH WA											8.34							10	
CLASS A (P	REM NE-1) W/ FLAK	E ADI	DED (75	5 LBS)					903	15.2		1.24	5.	74	03:00		199	123.15
FRESH WA	V to Co			,	,					2.000	8.34						_	207	
150 LBS OF	SUGAR C	N THE SI	DE				1				8.4							20	
FRESH WA	The second second	-	- 62								8.34							182	
Available Mi	0.754.775.4	3	300		Bb	1 4	vailable	Displ. Fluid		300		bl.		4	ОТА	1		393	123.15
Available MI	HOLE				_ 60	. "	· anabie	The Control of the Control	D.P.	300		-""		10	ŲΙΑ	COLLAR		_	120, 10
SIZE	% EXCE							TBG-CSG-		ME	TVD	GRA	ADE	SHOE			OAT	-	STAGE
12.25	30		2830	8.8		9.625		40 CSG		277		J-55	5		2777		2731	_	
	AST CAS	NG				PKR-C	MT RE	T-BR PL-LINE	R	PE	RF. DEPTH		TOP	CONN	1	W	ELL FL	UID	
13. 13.38	VGT T 55. CSG	YPE	138		D	BRAN	D & TYPE DI		EPTH				E THREAD 825 8 RND		TYPE			WGT.	
	LUME		DIS	PI FII	IID		CAL. PS	GI CAL. MA	Y DQI	OP. M	AV M	AVTO	o per		MAA	X CSG PS	21	1	MIX
DISPL, VO	PL. VOLUME DISPL. FLUID				UML. I	I CAL MA	V 1. OI	OL. III	MA IVI	44 10	G PSI		IVIA	N COU F	31	1	MILL		
VOLUME				UMP PL	2 3000000000000000000000000000000000000	100000	SQ. P			Operato	or RA	ATE		erator		WATER			
A TANK OF THE PARTY OF THE PART	иом	FRESH W	TYPE		WG		UMP PL	2 3000000000000000000000000000000000000	100000					or RA	ATE			TAT	WATER
VOLUME	иом	FRESH W	TYPE		WG	т. в	UMP PL	UG TO RE	V.		SI RAT	ED			ATE	D Op	erator		WATER
VOLUME 207 EXPLANATIO	BBLS N: TROUB	LE SETTIF	TYPE	OOL, RU	WG 8 INNING	T. BI 3.34 G CSG,	9 ETC. P	TO RE	O MENTIN	SQ. F	O RAT	0	Operato	0 XPLANA	31	D Ор	erator		WATER
VOLUME 207	BBLS N: TROUB	LE SETTII PRES SURE - PS	TYPE ATER NG TO	OOL, RU	WG 8 INNING	T. BB. 1	UMP PL	UG TO RE	0 MENTIN	SQ. F	O RAT	0 J CRE	Operato	0	31	D Ор	erator		WATER
207 EXPLANATIO	BBLS N: TROUB	LE SETTIF	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE	T. BB. 1	9 ETC. P	RIOR TO CEN	0 MENTIN	SQ. F	O RAT	0 J CRE 4575	Operato	0 XPLANA	31 ATIO	D Ор	erator		WATER
VOLUME 207 EXPLANATIO	BBLS N: TROUB	LE SETTII PRES SURE - PS	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE	T. BB. 1	9 ETC. P	RIOR TO CEN	SAF TES	SQ. F	O RAT	J CRE 4575	Operato	O XPLANA CO. REF	31 31 31 31	D Op	erator		WATER
VOLUME 207 EXPLANATIO TIME HR:MIN.	BBLS N: TROUB	LE SETTII PRES SURE - PS	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE	T. BB. 1	9 ETC. P	RIOR TO CEN	SAF TES CIRC	SQ. F	EETING: BS	J CRE 4575	Operato	O XPLANA CO. REF	31 31 31 31	D Op	erator		WATER
VOLUME 207 EXPLANATIO TIME HR:MIN. 11:30	BBLS N: TROUB	LE SETTII PRES SURE - PS	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE	T. BB. 1	9 ETC. P	RIOR TO CEN	SAF TES CIRC ARRI	SQ. F	EETING: BS	J CRE 4575 - RIG N. JOE	EEW X PSI	CO. REF	31 31 31 31	D Op	erator		WATER
ZO7 EXPLANATIO TIME HR:MIN. 11:30 15:10	BBLS N: TROUB	LE SETTII PRES SURE - PS	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE	T. BB. 1	ETC. P	RIOR TO CEN	SAF TES CIRC ARRI SPO SAFE RIG	SQ. F	EETING: B S ING WELL I LOCATION IPMENT EETING WI VELL & TAN	J CRE 4575 - RIG N. JOE	EEW X PSI	CO. REI	31 ATIO	D Op	erator		WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21	BBLS N: TROUB	LE SETTII PRES SURE - PS	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE	T. BB. 1	ETC. PI	RIOR TO CEN	SAFE RIG I PUM	SQ. P	EETING: B S ING WELL I LOCATION IPMENT EETING WI'VELL & TAN CESSED H	0 0 J CRE 44575 - RIG N. JOE BHILL SHANKS	EEW X PSI B TIME THE CREW	CO. REF	31 ATIO	D Ope 60 N X X S S S S S S S S S S S S S S S S S	1300		WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21 17:00	BBLS N: TROUB	LE SETTII PRES SURE - PS	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE	T. BB. 1	ETC. P	RIOR TO CEN	SAFE RIG PUM	SQ. F	EETING: B S ING WELL I LOCATION IPMENT EETING WI'VELL & TAN CESSED H	J CRE J CRE 4575 - RIG N. JOH	EEW X PSI B TIME 1 CREW	CO. REF	31 31 31 31 31 31 31 31 31 31 31 31 31 3	D Ope 60 NN X S S S S S S S S S S S S S S S S S	1300		WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21 17:00 18:10	BBLS N: TROUB	LE SETTII PRES SURE - PS	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE	T. BB. 1	ETC. PI	RIOR TO CEN	SAFE RIG PUMP CASI	SQ. F	EETING: B S ING WELL I LOCATION IPMENT EETING WI VELL & TAN CESSED H SH H2O TO	J CRE 4575 - RIG RITH BH-	EEW X PSI CREW O GET COSH GET CVN & RICK	CO. REF	31 31 31 ATIO	D Opp 60 X X X S GOLE GO DOWN ANANIFO	1300		WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21 17:00 18:10 18:15	BBLS N: TROUB PRES	PRES SURE - PS ANNU	TYPE ATER NG TO	OOL, RU	WG 8 INNING DETAI TE PM	Bbl. I	9 ETC. P	RIOR TO CENTYPE	SAFE PUM PUM SAFE SAFE	SQ. F FETY M IT LINE CULATI IVE ON IT EQU ETY ME INTO V IP PRO ING DO ETY ME	EETING: B S ING WELL I LOCATION IPMENT EETING WI'VELL & TAN CESSED H	J CRE 4575 - RIG RITH BH-	EEW X PSI CREW O GET COSH GET CVN & RICK	CO. REF	31 31 31 ATIO	D Opp 60 X X X S GOLE GO DOWN ANANIFO	1300		WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21 17:00 18:10 18:15 18:38	BBLS N: TROUB PRES	PRES SURE - PS ANNU	TYPE ATER NG TO	OOL, RU	WG 8	Bbl. I	PETC. PETC. PIPED 250 182	RIOR TO CENTYPE	SAFE PUM PUM CASI SAFE LINE	SQ. F FETY M IT LINE CULATI IVE ON IT EQU ETY ME INTO V IP PRO IP FREE ING DX ETY ME ETY ME	EETING: B S ING WELL I LOCATION IPMENT EETING WIT VELL & TAN CESSED H SH H2O TO DWN. SHUT EETING WIT	J CRE 4575 - RIG N. JOE TH BH WKS 20 TC	EW X PSI SI CREW O GET COSH GET WN & RIGGG CREV	CO. REF	31 31 31 ATIO	D Opp 60 X X X S GOLE GO DOWN ANANIFO	1300		WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21 17:00 18:10 18:15 18:38 18:40	N: TROUB PRES	PRES SURE - PS ANNU	TYPE ATER NG TO	OOL, RU	WG 8	Bbl. I	99 ETC. P FLUID MPED 250 182 5	RIOR TO CENTYPE H2O H2O	SAFE LINE	SQ. F FETY M IT LINE CULATI IVE ON IT EQU ETY ME INTO V IP PRO IP FRE: ING DX ETY ME ETY ME SSURE	EETING: B S ING WELL I LOCATION IPMENT EETING WIT VELL & TAN CESSED H SH H2O TC DWN. SHUT EETING WIT	J CRE 4575 - RIG N. JOE STH BH- NKS 20 TC FINIS	EW X PSI STATE OF SHIP GET COSH GET COSH GET WN & RIGG G CREV	CO. REF	31 ATIO ATIO P. [D Opp 60 X X X S GOLE GO DOWN ANANIFO	1300		WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21 17:00 18:10 18:15 18:38 18:40 18:42	PRES PIPE	PRES SURE - PS ANNU 35 0	TYPE ATER NG TO	OOL, RU	WG 88 NNNINC	Bbl. I	99 ETC. P FLUID MPED 250 182 5 .3 25	FLUID TYPE H2O H2O GFI	SAFE PUM CASI SAFE LINE PRES	SQ. F FETY M FT LINE CULATI IVE ON FT EQU FTY ME INTO V IP PRO ING DX ETY ME FILL SSURE SEL (50	EETING: B S ING WELL I LOCATION IPMENT EETING WI' VELL & TAN CESSED H SH H2O TO DWN. SHUT EETING WI'	J CRE J CRE 4575 - RIG TH BH WKS 20 TO FINIS	Derate EW X PSI HI CREW O GET CO SH GET WN & RIG G CREW	CO. REF	31 ATIO	D Op 60 N X X X S S S S S S S S S S S S S S S S	1300	TAN	WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21 17:00 18:10 18:15 18:38 18:40	PRES PIPE	PRES SURE - PS ANNU	TYPE ATER NG TO	OOL, RU	WG 8	Bbl. I	99 ETC. P FLUID MPED 250 182 5 .3 25	FLUID TYPE H2O H2O GFI	SAFE PUM CASI SAFE LINE PRES	SQ. F FETY M FT LINE CULATI IVE ON FT EQU FTY ME INTO V IP PRO ING DX ETY ME FILL SSURE SEL (50	EETING: B S ING WELL I LOCATION IPMENT EETING WI' VELL & TAN CESSED H SH H2O TO DWN. SHUT EETING WI'	J CRE J CRE 4575 - RIG TH BH WKS 20 TO FINIS	Derate EW X PSI HI CREW O GET CO SH GET WN & RIG G CREW	CO. REF	31 ATIO	D Op 60 N X X X S S S S S S S S S S S S S S S S	1300	TAN	WATER
TIME HR:MIN. 11:30 15:10 15:20 15:40 16:21 17:00 18:10 18:15 18:38 18:40 18:42 18:49	PRES PIPE	PRES SURE - PS ANNU 35 0	TYPE ATER NG TO	OOL, RU	## WG 8 8 1 1 1 1 1 1 1 1	Bbl. I	250 182 5 .3 25	FLUID TYPE H2O H2O GFI	SAFE PUM CASI SAFE LINE PRES	SQ. F FETY M FT LINE CULATI IVE ON FT EQU FTY ME INTO V IP PRO ING DX ETY ME FILL SSURE SEL (50	EETING: B S ING WELL I LOCATION IPMENT EETING WIT VELL & TAN CESSED H SH H2O TC DWN. SHUT EETING WIT	J CRE J CRE 4575 - RIG TH BH WKS 20 TO FINIS	Derate EW X PSI HI CREW O GET CO SH GET WN & RIG G CREW	CO. REF	31 ATIO	D Op 60 N X X X S S S S S S S S S S S S S S S S	1300	TAN	WATER

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		PRESSURE	RATE DETAIL			EXPLANATION						
TIME	PRESSU	RE - PSI	RATE	Bbl. FLUID	FLUID	SAFETY ME	ETING: BJ CREW X CO. REP. X					
HR:MIN.	PIPE	ANNULUS	ВРМ	PUMPED	TYPE	TEST LINES 4575 PSI						
					1	CIRCULATIN	IG WELL - RIG BJ X					
20:18	1325		3		H2O	LAND PLUG.						
20:21	0					RELEASE PR	RESSURE / CHECK FLOATS. 1.5 BBLS H2O RETURN TO					
20:22						END JOB.						
BUMPED PLUG Y N	PSI TO BUMP PLUG 974	TEST FLOAT EQUIP,	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED 893	PSI LEFT ON CSG	SPOT TOP OUT CEMENT Y	SERVICE SUPERVISOR SIGNATURE:					

Office of Car



CUSTOMER	NORTH	HEAST	IATURAL	EN	DAT	E 23-AP	R-15 F.	R. #	1001115	1669		SEF	RV. SUPV.	Kevin	Paugh		
COASTAL			10167600	000	1	ATION						1	JNTY-PAR Monongali				
DISTRICT Clarksburg						LING CON		RIG#					E OF JOB ong Strin				
SIZE 8	TYPE O	F PLUGS		LIST	r-csg-l	IARDWAR	E	ME	CHANICA	BARRIE	RS	MD	TVD	HANGER	TYPES	MD	TVD
Latch Down	Plug &	Assem	bly, 5-1/	2loat Col	ar, Au	to Fill, 5-1	1/2 - 8rd										
										PI	IYSI	CAL SLU	RRY PRO	PERTIES	p e		
MATERIAL	S FURNI	SHED BY	ВЈ			LAB REI	PORT NO.	C)F	LURRY WGT PPG	Y	URRY LD FT	WATER GPS	PUMI TIME HR:MII	Bi	190	Bbl MIX WATER
UltraBond 1	0									13						50	
MultiBond									221	13		1.27	5.8	7		50	30.9
50:50 Poz	Fly Ash	n):Class	Α						2,683	14.5		1.17	5.1	5	1	550	322.2
Sugar Wate	er AFTE	R Plug								8.34						20	
Fresh Wate	r									8.34					293	3.87	
SUGAR										0						0	
Available Mix	Water_		1500	В	bl. A	vailable Di	spl. Fluid		600	Bb	ol.		тот	AL	963	3.87	353.1
	HOLE						TBG-CSG-	D.P.						COLLA	R DEPTH	IS	
SIZE	% EXCE	SS	DEPTH	ID	OD	WGT.	TYP	E	MD	TVD	GRA	ADE	SHOE		FLOAT	5	TAGE
8.5	DESCRIPTION OF THE PROPERTY OF		14089	4.778	5.5		CSG	7-2	14089	V. D. D. V.	-	100000					
ID OD W	AST CAS	TYPE	MD	TVD	100000	CMT RET-E	Seal Control of the	ER DEPTH		. DEPTH			CONN	TYPE	WELL FL	UID	WGT.
8.8 9.63	40 CS			2777	DRAN	DATTE		JEP III	TUP	БТМ		5.5			HETIC M	IUD	12.6
DISPL. VOL	UME		DISP	FLUID		CAL. PSI	CAL. MA	X PSI	OP. MAX	MAX TBG P		G PSI	N	AX CSG	PSI		MIX
VOLUME	UOM		TYPE	W	GT. B	UMP PLUG	TOR	EV.	SQ. PSI	RATE	D	Operato	r RAT	ED (Operator	,	VATER
313	BBLS	Fresh SUGA			8.34	4500		0	(0	0		0 1	0000	6000	TAI	NK
EXPLANATION	: TROU	BLE SET	TING TOO	L, RUNNIN	IG CSG	, ETC. PRIC	OR TO CE	MENTI	NG:								
		PRE	SSURE/R	ATE DETA	IL.							EX	PLANATI	ON			
TIME	PRE	SSURE -	PSI	RATE	Bbl.	FLUID	FLUID	SAF	ETY MEE	TING: B.	CRI	EW X	CO. REP.	X			
HR:MIN.	PIPE		NULUS	ВРМ		MPED	TYPE	TES	T LINES		5000	PSI					
								-	CULATING				BJ	X			
23:00												(LOC	TIME 0	100)			
23:05								SPOT EQUIPMENT									

		PRESSURE/F	RATE DETAIL	•		EXPLANATION		
TIME HR:MIN.	PRESSURE - PSI		RATE	Bbl. FLUID	FLUID	SAFETY MEETING: BJ CREW X CO. REP. X		
	PIPE	ANNULUS	ВРМ	PUMPED	TYPE	TEST LINES 500C PSI		
						CIRCULATING WELL - RIG X BJ X		
23:00						ARRIVE ON LOCATION (LOC TIME 0100)		
23:05						SPOT EQUIPMENT		
23:10						PRE RIG IN SAFETY MEETING		
00:00						RIG IN		
01:30		1				SAFETY MEETING WITH CUSTOMER		
01:50	200		5	5	H20	LINE FILL		
01:55	8600		1	1	H20	PRESSURE TEST		
02:00	533		4	50	ULTRABO	SPACER		
02:15	673		5.6	50	MULTIBO	SPACER		
02:25	1140		7	550	SLURRY	50/50 PREM NE-1 +.3% R-3 + .2% MPA-170	Rec	
03:45						SHUT DOWN WASH LINES Office		
03:50						DROP PLUG		
03:52	1982		7	20	SUGAR V	TREATED DISPLACEMENT	DCT 0	
03:55	2442		7	293	H20	DISPLACEMENT	001	
04:45	4490					PLUG DOWN		
04:50						HELD 5 MIN AND RELEASED FLOATS HELD		
04:55						PRE RIG DOWN SAFETY MEETING		

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PRESSURE/RATE DETAIL						EXPLANATION		
TIME HR:MIN.	PRESSURE - PSI		RATE	Bbl. FLUID	FLUID	SAFETY ME	ETING: BJ CREW X CO. REP. X	
	PIPE	ANNULUS	ВРМ	PUMPED	TYPE	TEST LINES 500C PSI		
						CIRCULATING WELL - RIG X BJ X		
BUMPED PLUG	PSI TO BUMP PLUG	BUMP FLOAT	RETURNS/ BB	The second secon	LEFT ON	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:	
YN	4500	YN	0	1015	0	YN		

Office of Oil & Garantee OCT 07 2015

